PCCF + Version 4<mark>H</mark> User's Guide

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

Including Postal Codes through March 2006

by

Russell Wilkins

Health Analysis and Measurement Group Statistics Canada Ottawa

June 2006

Catalogue no. 82F0086-XDB

Russell Wilkins. *PCCF+ Version 4 H User's Guide. Automated Geographic Coding Based on the Statistics Canada Postal Code Conversion Files, Including Postal Codes through March 2006.* Catalogue 82F0086-XDB. Health Analysis and Measurement Group, Statistics Canada, Ottawa, June 2006.

ABSTRACT

PCCF+ Version 4 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 2001 postal code population weight file (WCF). It automatically assigns a full range of geographic identifiers (down to dissemination area, 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 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 professionals, 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/pccf4h-fccp4h. [Ressources éducatives / Niveau postsecondaire / l'initiative de démocratisation des données]. For Statistics Canada internal use, see //geodepot2/ftp/Geographie_2001_Geography/Geo_Data_Products-Produits_de_données_Géo/PCCFplus_version4H_jun06/

TABLE OF CONTENTS

Abstract	Page 2
Getting started	5
Introduction	
Step 1: Getting set up	
Step 2: Your input file	
Step 3: The two output files produced	
Step 4 (optional): Getting appropriate geographic coding for FSAs which were moved (V1H & V9G)	
Table 1 Files included in PCCF+ Version 4	7
How the package works	8
Origins and objectives of PCCF+	
Objectives	
Bells and whistles	8
Operational requirements	8
What's new in Version 4H?	9
What was new in Version 4G?	9
What was new in Version 4F?	9
What was new in Version 4D?	9
What was new in Version 4A?	
What was new in Version 3E?	
What was new in Version 3A?	
What was new in Version 2?	
How the reference files were produced	
What the package does	13
Why it is important to have accurate postal codes	
How the matching process works	
How the programs deal with multiple matches	
How the programs deal with reuse of postal codes	
How to indicate unknown or partially unknown postal codes	
How to run PCCF+	
Future versions of <i>PCCF</i> +	
Verification of geographic coding produced	16
Where to get help	
Technical assistance	
Suspected problems with the PCCF	16
Additional reference information	17
Acceptable characters and numbers in Canadian postal codes	17
Filename extensions	17
Abbreviations	17
References	18
Warning and disclaimer	20
Acknowledgements	20
Table 2 Distribution of postal codes and census population by DMT	
Table 3 Coding errors using PCCF+ vs the PCCF single link indicator (SLI)	
List of annendices	2.2.

Appendix A. Record layout of the HLTHOUT file	23
Appendix B. Record layout of the GEOPROB file	24
• Appendix C. Explanation of fields and codes appearing in the output files and printouts	25
• Appendix D. Sample outputs from PCCF+	37
Appendix E. Census metropolitan areas and census agglomerations	40
Appendix F. Geographic coding from partial postal codes	43
• Appendix H. Health regions and health districts, Canada, 2003	48
Appendix J. Census divisions, 2001	58
Appendix K. Economic regions, 2001	61
Appendix L. Agricultural regions (crop districts), 2001	63
Appendix M. Supplementary Program DIST4x.SAS	64
Appendix N. Supplementary Program EXPLODE2.SAS	64
Appendix O. Supplementary Program FIXPCBAD.SAS	64

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 18, and a **List of Appendices** available can be found on page 22.

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 File (WCF). To use the programs, you must first have installed SAS on your mainframe or personal computer (PC) and copied all of the files shown in Table 1(on page 7) into your own directory. For residence coding, edit the program GEORES4x.SAS. For coding of health facilities or office locations, edit the program GEOINS4x.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:

```
filename HLTHDAT <a href="c:\pccf4a\sampldat.can"">c:\pccf4a\sampldat.can</a>; /* your input file */
```

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

State of the proof of
```

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 <a href="c:\pccf4a\sampldat.geo";">'c:\pccf4a\sampldat.geo";</a> /* the main output file */
filename GEOPROB <a href="c:\pccf4a\sampldat.prb";">'c:\pccf4a\sampldat.prb";</a> /* 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.

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, 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 (R4xOLD for residential coding, or I4xOLD 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 1 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 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 R4xOLD or I4xOLD, 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.

```
/* ONLY CHANGE DATE BELOW IF VINTAGE IS LATER THAN 19970601: */ PCVDATC='\frac{19970601}{}'; /* YYYYMMDD VINTAGE OF PCODES */ /* MM=01-12; DD=01-31 ONLY-NOT OO OR 99 */
```

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 GEORES4x or GEOINS4x, and then revise the first input data step in R4xOLD or I4xOLD to include the following line:

```
@ nnn 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 4G

Filename / PC filename (if different)	Description
GEORES4x.SAS	SAS PROG (RESIDENCE CODES)
GEOINS4x.SAS*	ALT SAS PROG (OFFICE CODES)
R4xOLD.SAS#	SAS PROG OLD FSAs (RESIDENCE CODES)
I4xOLD.SAS#*	ALT SAS PROG OLD FSAs (OFFICE CODES)
DIST4x.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
BLDG0302.TXTF1EZ.CAN	BLDG NAMES & ADDRESSES
CPADR.NADR0302.CAN	NUMBER ADDRESS RANGES FOR PCODE
GEOREF01.ARDEF.CAN	AGRICULTURAL REGION (CROP DISTRICT) DEFINITIONS
GEOREF01.ARNAMES.CAN	AGRICULTURAL REGION (CROP DISTRICT) NAMES
GEOREF01.BL01EA96.CAN	2001 DISSEMINATION BLOCK TO 1996 ENUMERATION AREA
GEOREF01.CCSSAC.CAN	CENSUS CONSOLIDATED SUBDIVISION DEFS, SACTYPE, SAC
GEOREF01.CCSNAMES.CAN	CENSUS CONSOLIDATED SUBDIVISION NAMES
GEOREF01.CDNAMES.CAN	CENSUS DIVISION NAMES
GEOREF01.CSDNAMES.CAN	CENSUS SUBDIVISION NAMES
GEOREF01.CSIZE01.CAN	COMMUNITY SIZE BASED ON 2001 CMACA POP (INCL CMA NAMES)
GEOREF01.DABLK.CAN	BLOCKS WITHIN DISSEMINATION AREAS
GEOREF01.DABLKPNT.CAN	POINTER TO BLOCKS WITHIN DISSEMINATION AREAS
GEOREF01.DPLNAMES.CAN	DESIGNATED PLACE NAMES
GEOREF01.ERDEF.CAN	ECONOMIC REGION DEFINITIONS
GEOREF01.ERNAMES.CAN	ECONOMIC REGION NAMES
GEOREF01.FEDNAMES.CAN	FEDERAL ELECTORAL DISTRICT1996 LIST NAMES
GEOREF01.FEDNAM03.OCT05.CAN	FEDERAL ELECTORAL DISTRICT2003 LIST NAMES
GEOREF01.GTF01C.CAN	GEOGRAPHIC ATTRIBUTES AT BLOCK LEVEL
GEOREF01.HRDEF05B.CAN	HEALTH REGIONS DEFINITIONS
GEOREF01.HRNAM05.CAN	HEALTH REGION NAMES AND POPULATIONS
GEOREF01.INSTFLG.CAN	INSTITUTIONAL FLAG
GEOREF01.NSREL96.CAN	NORTH SOUTH RELATIONSHIP (BASED ON 1996 PRCDCSD)
GEOREF01.SUBDEF05.CAN	HEALTH DISTRICT DEFINITIONS
GEOREF01.SUBNAM05.CAN	HEALTH DISTRICT NAMES
GEOREF01.THDIST2.COD	TORONTO HEALTH PLANNING AREA NAMES AND CODES
GEOREF01.THPA01DA.DEF	TORONTO HEALTH PLANNING AREA DEFINITIONS
MSWORD.FCCP4x.PDF	PCCF+ USER GUIDE-FRENCH
MSWORD.FMT4xGEO.DOC	MS Word SHELL FOR PRINTING THE MAIN OUTPUT FILE (.GEO)
MSWORD.FMT4xPRB.DOC	MS Word SHELL FOR PRINTING THE PROBLEM FILE (.PRB)
MSWORD.PCCF4x.PDF	PCCF+ USER GUIDE-ENGLISH
PCCFyymm.BCVUNIQ.CAN#	PCODES PRIOR TO MOVEOLD FSAs
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
PCCFC01.WCFBLK.CAN	BLOCKS SERVED BY WCF POSTAL CODES
PCCFC01.WCFBLKPT.CAN	POINTER TO BLOCKS SERVED BY WCF POSTAL CODES
PCCFC01.FSAPOINT.CAN	POINTER TO 1ST DUPLICATE FSADABLK
PCCFC01.FSAUDUPS.CAN	ALL OCCURRENCES DUPL+UNIQUE FSADABLK
SAMPLEDAT.CAN	SAMPLE DATA FOR TESTING PROGRAMS TEST DATA FOR PROGRAM DIST4x.SAS
SERVICES.IGE	
SESREF.QAIPE01.CAN	IPPE QUINTILES WITHIN CMACA (BASED ON 2001 CENSUS DATA)

Note: 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. PCCFyymm replaced by PCCF0209 (Sept 2002), etc.
 GEORES4x GEOINS4x replaced by GEORES4A GEOINS4A (Version 4A), etc.

HOW THE PACKAGE WORKS

Origins and objectives of PCCF+

PCCF+ consists of two SAS control programs (GEORES4x for residential coding, GEOINS4x 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

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

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 21), 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 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 electoral 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 & I3EOLD) 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.
- 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 and 2001 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 4, 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 2001 census. Community size groups were determined, based on the 2001 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 GEORES4x are for assigning geographic codes for places of usual residence. Similar routines in GEOINS4x 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 GEOINS4x 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.
- Second, remaining postal codes which are unique on the PCCF (only linked to a single dissemination area, block or (2) 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) 1996 enumeration area codes (FEDEA96) codes are assigned using 2001 block to 1996 EA correspondence files.
- (9) All records with their corresponding geography (to the extent found) are output to the HLTHOUT file. If some or all geographic codes could not be determined, those fields are set to missing values before writing to the HLTHOUT file. See **Appendix A** for the record layout, and **Appendix C** for an explanation of the fields and codes.
- (10) 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.
- (11) 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.
- (12) 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.

(14)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 4 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 GEORES4x and GEOINS4x 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 (GEORES4x and GEOINS4x) were revised to assign only the most current geography to records with those two FSAs. Supplemental programs (R4xOLD and I4xOLD) 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, GEORES4x) followed by the supplemental program (eg, R4xOLD). 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 GEORES4x and GEOINS4x.

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 nonexistent 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 (Île 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 Analysis and Measurement Group, Statistics Canada, RHC-24A, Ottawa, Ontario K1A 0T6, telephone 1-613-951-5305, fax 1-613-951-3959, email wilkrus@statcan.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 K1A0T6; telephone 1-613-951-1850, fax 1-613-951-0709, email brassar@statcan.ca. Colette can also handle technical questions related to PC-SAS running under UNIX, DOS or Windows.

Suspected problems with the 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.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

The filename extensions have the following meaning:

CAN Canada

Newfoundland and Labrador NF or NL

PE Prince Edward Island Nova Scotia NS

NB New Brunswick

OC Ouébec Ontario ON MB Manitoba SK Saskatchewan AB Alberta

British Columbia (including data for YT and NT) BC

YK or YT Yukon

NT Northwest Territories

NU Nunavut

Atlantic region (NF NS PE NB) ATL **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:

ANANAN Alpha numeric alpha numeric (format of Canadian postal codes)

AR Census agricultural region (short for PRAR)

BLK Census block (new for 2001); short for PRCDDA+BLK **BLKF** Blockface (not identified except by latitude longitude and RPF)

BLKURB Urban block within CMACA area or non-CMACA area

Census agglomeration (included in CMA field) CA

CCHS Canadian Community Health Survey

CCS Census consolidated subdivision (short for PRCDCCS) Census division (a county-level code; short for PRCD) CD Census metropolitan area (this field also includes CAs) **CMA** PCCF+ program, version and release (eg, R4A=GEORES4A) **CODER**

Canada Post community code (corresponding to a postal community name) **CPCCODE**

Census subdivision (a municipal-level code; short for PRCDCSD) CSD

CSDNAME Name of CSD (unique within province and CSDTYPE).

CSDTYPE Type of CSD.

CSIZE Community size code (based on 2001 CMACA population) Census tract (a neighborhood-level code; unique within CMA) CT

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

DIAG Diagnostic fields (in HLTHOUT and GEOPROB files)

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

Previous DMT if different than current DMT. **DMTDIFF 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.

EA Enumeration area (also short for PRFEDEA)--only shown for 1996 census geography EA96UID 1996 enumeration area (PRFEDEA for 1996).

ER Economic region (formerly "subprovincial region"; short for PRER)

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)

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 2001 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

PR Province and region

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

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 2001 and 1996 censuses, and household-based weights derived from the 1991 census)

References

Amankwah NA. Factors affecting distance to the nearest physician in Canada: Changes from 1993 - 1999. MSc Thesis Epidemiology. Faculty of Graduate and Postdoctoral Studies, University of Ottawa, September 2002.

Canada Post Corporation. *Canada's Postal Code Directory 2002* (and related files on magnetic tape). Canada Post Corporation, Montreal, 2002. / Société canadienne des postes. *Répertoire des codes postaux au Canada 2002* (et fichiers d'adresses sur bande magnétique). Société canadienne des postes, Montréal, 2002.

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. / McNiven C, Puderer H. *Délimitation au Nord canadien: un examen de la relation nord-sud au Canada*. Série de documents de travail de la géographie n. 2000-3. No 92F0138MPF au catalogue. Ottawa: Division de la géographie, Statistique Canada, 2000.

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. / McNiven C, Puderer H, Janes D. Zones d'influence des régions métropolitaines de recensement et des agglomérations de recensement (ZIM): description de la méthodologie. Série de

documents de travail de la géographie no. 2000-2. No 92F0138MPF au catalogue. Ottawa: Division de la géographie, Statistique Canada, 2000.

Ng E, Wilkins R, Perras A. How far is it to the nearest hospital? Calculating distances using the Statistics Canada Postal Code Conversion File. *Health Reports* 1993;5(2):179-188. / Ng E, Wilkins R, Perras A. À quelle distance se trouve la plus proche hôpital? Le calcul des distances à l'aide du Fichier de conversion des codes postaux de Statistique Canada. *Rapports sur la Santé* 1993;5(2):179-188.

Ng E, Wilkins R, Pole J, Adams OB. How far to the nearest physician? *Health Reports* 1997; 8(4):19-31. / Ng E, Wilkins R, Pole J, Adams OB. À quelle distance se trouve le plus proche médecin? *Rapports sur la Santé* 1997; 8(4):21-34.

Plessis V, Beshiri R, Bollman RD, Clemenson H. Definitions of rural. *Rural and Small Town Canada Analysis Bulletin* 2001 Nov;3(3):1-17 (Statistics Canada catalogue 21-006-XIE). / Plessis V, Beshiri R, Bollman RD, Clemenson H. Définitions de « rural ». *Bulletin d'analyse - Régions rurales et petites villes du Canada* 2001 Nov;3(3):1-18 (Statistique Canada, no 21-006-XIF au catalogue).

SAS Institute. SAS Language Reference, Version 6. SAS Institute, Cary, North Carolina, 1990.

Statistics Canada. 2001 Census Dictionary. Catalogue No. 92-378-XPE. Ottawa: Statistics Canada, 2002. / Statistique Canada. Dictionnaire du recensement de 2001. No 92-378-XPF au catalogue. Ottawa: Statistique Canada, 2002.

Statistics Canada. 1996 *Census Dictionary*. Catalogue 92-351-XPE. Minister of Industry, Ottawa, 1997. / Statistique Canada. *Dictionnaire du recensement* 1997. Catalogue 92-351-XPF. Ministre de l'Industrie, Ottawa, 1997.

Statistics Canada, Agriculture Division. *Census Agricultural Regions*. Maps and definitions by province. http:\\www.statcan.ca/english/freepub/95F0355XIE/reference.htm. / Statistique Canada, Division de l'agriculture. *Régions agricoles du recensement*. Cartes et définitions. http:\\www.statcan.ca/francais/freepub/95F0344XIF/reference_f.htm.

Statistics Canada. *GeoSuite*, 2001 Census. Catalogue 92F0150XCB. Geography Division, Statistics Canada, March 2002. (\$60) / Statistique Canada. *GéoSuite*, recensement de 2001. No 92F0150XCB au catalogue. Division de la géographie, Statistique Canada, mars 2002. (60\$)

Statistics Canada. *Health Regions 2005: Boundaries and Correspondence with Census Geography*. Catalogue no. 82-402-XIE. Ottawa: Health Statistics Division, 2005 September 30. / Statistique Canada. *Régions socio-sanitaires 2005: limites et correspondance avec la géographie du recensement*. No 82-402-XIF au catalogue. Ottawa, Division de la statistique sur la santé, Statistique Canada, 2005 septembre 30.

Statistics Canada. Health Indicators, June 2005. List of health regions (2003 and 2005) noting changes to codes, names and boundaries. Catalogue 82-221-XIE. Ottawa: Health Statistics Division, 2005 June. / Statistique Canada. Indicateurs de la santé, juin 2005. Liste des régions socio-sanitaires (2003 et 2005): indiquant les changements de codes, de noms et de limites. No 82-221-XIF au catalogue. Ottawa, Division de la statistique sur la santé, 2005 Juin.

Statistics Canada. *Postal Code Conversion File (PCCF)*, *Reference Guide*. *October 2005*. Catalogue No. 92F0153GIE. Geography Division, Statistics Canada, Ottawa, January 2006. / Statistique Canada. *Fichier de conversion des codes postaux (FCCP)*, *guide de référence*. *Octobre 2005*. No. 92F0153GIF au catalogue. Division de la Géographie, Statistique Canada, Ottawa, janvier 2006.

Statistics Canada. *Postal Code Population Weight File. May 2001 Postal Codes. Reference Guide.* Catalogue No. 93F0040XDB. Geography Division, Statistics Canada, January 2003. / Statistique Canada. *Fichier de la pondération par codes postaux.* Codes postaux de mai 2001. Guide de référence. No 93F0040XDB au catalogue. Division de la Géographie, Statistique Canada, janvier 2003.

Statistics Canada. *Postal Code Population Weight File. May 1996 Postal Codes. Reference Guide.* Catalogue No. 93F0040XDB. Geography Division, Statistics Canada, August 1998. / Statistique Canada. *Fichier de la pondération par codes postaux.* Codes postaux de mai 1996. Guide de référence. No 93F0040XDB au catalogue. Division de la Géographie, Statistique Canada, août 1998.

Statistics Canada. Census Forward Sortation Area Boundary File, 2001 Census. Reference Guide. Catalogue No. 92 F010GIE. Ottawa: Geography Division, Statistics Canada, November 2002. / Statistique Canada. Ficher de limites des régions de tri d'acheminement censitaires. Recensement de 2001. Guide de référence. No 92F0170GIF au catalogue. Ottawa: Division de géographie, Statistique Canada, novembre 2002.

Statistics Canada. Standard Geographical Classification SGC 1996, Volume I. Catalogue 12-571. Minister of Industry, Ottawa, 1997. / Statistique Canada. Classification géographique type CGT 1996, Volume I. Catalogue 12-571. Ministre de l'Industrie, Ottawa, 1997.

Statistics Canada. User Guide. 1991 Place Name Master File. Geography Division, Statistics Canada, Ottawa, April 1993. / Statistique Canada. Fichier principal des noms de localité 1991. Guide de l'utilisateur. Division de la géographie, Statistique Canada, Ottawa, avril 1993.

Statistics Canada. GeoRef (CD-ROM). Catalogue 92F008XCB. Geography Division, Statistics Canada, Ottawa, 1997. / Statistique Canada. GéoRef. No 92F008XCB au catalogue. Division de la géographie, Statistique Canada, Ottawa, 1997.

Statistics Canada. GeoSuite 2001 (CD-ROM). Catalogue 92F0150XCB. Statistics Canada, Ottawa, 2002. / Statistique Canada. GéoSuite 2001. No 92F0150XCB au catalogue. Statistique Canada, Ottawa, 2002.

Wilkins R. Verification of geographic coding produced by Geocodes/PCCF version 3. Technical note. Health Statistics Division, Statistics Canada, November 1998.

Wilkins R. Use of postal codes and addresses in the analysis of health data. Health Reports 1993;5(2):157-177. / Wilkins R. Utilisation des codes postaux et adresses dans l'analyse des données sur la santé. Rapports sur la Santé 1993;5(2):157-177.

Wilkins R. Geocodes/PCCF Version 2 User's Guide. Automated Geographic Coding Based on the Statistics Canada Postal Code Conversion File. Ottawa: Health Statistics Division, Statistics Canada, Ottawa, July 1996. / Wilkins R. Géocodes/FCCP Version 2 Guide de l'Utilisateur. Repérage automatique des codes géographiques basé sur le fichier de conversion des codes postaux de Statistique Canada. Ottawa: Division des statistiques sur la santé, Statistique Canada, 1996.

Wilkins R. PCCF+ Version 3J User's Guide (Geocodes/PCCF). Automated Geographic Coding Based on the Statistics Canada Postal Code Conversion Files, Including Postal Codes to May 2002. Catalogue 82F0086-XDB. Health Analysis and Measurement Group, Statistics Canada, Ottawa, July 2002. / Russell Wilkins. FCCP+ Version 3J Guide de l'utilisateur (Géocodes/FCCP). Logiciel de codage géographique basé sur les Fichiers de conversion des codes postaux de Statistique Canada mises à jour en mai 2002. N° de catalogue 82F0086-XDB. Groupe d'analyse et de mesure de la santé, Statistique Canada, Ottawa, juillet 2002.

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), 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 2Distribution 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										
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 from urban PO)	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 3Comparison 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	0.8	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	

Note: 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.

LIST OF APPENDICES

Page
APPENDIX A Record layout of the HLTHOUT file
APPENDIX B Record layout of the GEOPROB file
APPENDIX C Explanation of fields and codes appearing in the output files and printouts
APPENDIX D Sample outputs from <i>PCCF</i> +
APPENDIX E Census Metropolitan Areas and Census Agglomerations
APPENDIX F Geographic coding from partial postal codes
APPENDIX H Health regions and health districts
APPENDIX J Census divisions
APPENDIX K Economic regions
APPENDIX L Census agricultural regions
APPENDIX M Supplementary program DIST4x.SAS
APPENDIX N Supplementary program EXPLODE2.SAS
APPENDIX O Supplementary program FIXPCBAD.SAS

APPENDIX A: RECORD LAYOUT OF THE HLTHOUT FILE

```
DATA HLTHOUT; SET HLTHOUT; FILE HLTHOUT;
PUT
  a 1
       TD
                $CHAR12./* RECORD IDENTIFICATION (AS INPUT)
  @13
       PCODE
                $CHAR6. /* POSTAL CODE (AS INPUT)
 @19
      RESFLG
                $CHAR1./* RESIDENCE FLAG ON PCODES IF DMT=E,G,M
 @20
       PR
                $CHAR2./* PROVINCE CODE (99=UNKNOWN)
                $CHAR2./* CENSUS DIVISION CODE (00=UNKNOWN)
 @22
       CD
                $CHAR3./* CENSUS SUBDIVISION CODE (999=UNKNOWN)
 @24
       CSD
                $CHAR3./* CMA OR CA CODE (999=UNKNN;000=NOT APPL)
 @28
       CMA
                $CHAR6./* CENSUS TRACT--URBAN CT'S ONLY
 @32
       СТ
  @39
      DA
                $CHAR4./* DISSEMINATION AREA (9999=MISSING)
                $CHAR2./* BLOCK (.9=MISSING)
  @43
       BLK
       INSTFLG $CHAR1./* INSTITUTIONAL FLAG
  @45
                    Z8./* LATITUDE DEGREES(2)+DECIMALS(6)
  @46
      LAT
  @54
      LONG
                    Z9./* LONGITUDE DEGREES(3)+DECIMALS(6)
                $CHAR3./* DESIGNATED PLACE (000=NOT APPL;999=UNKN)
  @64
      DPL
  @67
                $CHAR1./* PREVIOUS OR ALTERNATE DMT IF DIFFERENT
       DMTDIFF
  @68
       DMT
                $CHAR1./* DELIVERY MODE TYPE:
  @69
       LINK
                $CHAR1./* LINK TYPE (INCREASING CONFIDENCE)
                $CHAR1./* SOURCE OF GEOGRAPHIC CODES
  @70
       SOURCE
                     1./* NUMBER CSD POSSIBLE AT THIS PCODE 1-9+
 @71
      NCSD
                     1./* NUMBER CD POSSIBLE AT THIS PCODE 1-9+
 @72
      NCD
                $CHAR1./* REPRESENTATIVE POINT (CENTROID) FLAG
  @73
      RPF
                $CHAR1./* SERVICE TYPE
  @74
      SERV
  @75
                $CHAR1./* PRECISION OF LAT LONG (0=LEAST;9=MOST)
  @76
      NADR
                     1./* NUMBER OF ADDRESS RANGES FOR THIS PCODE
                $CHAR3./* CODER: 'R4A'=GEORES4A SEPT 2002 PCCF
  @78
      CODER
                $CHAR4./* CANADA POST COMMUNITY CODE (SEQUENTIAL) */
  @82
      CPCCODE
  @87
                $CHAR2./* HEALTH REGION CODE (UNIQUE WITHIN PR)
      HR
                $CHAR3./* HEALTH DISTRICT CODE (UNIQUE IN PR/PR+HR (QC ONLY)
  @89
      SUB
  @93
       CSIZE
                $CHAR1./* COMMUNITY SIZE CODE (BASED ON CMACA 2001 POP)
  @95
       QAIPPE
                $CHAR1./* NEIGHBOURHOOD INCOME QUINTILE (WITHIN CMACA)
  @97
       SACTYPE
                $CHAR1./* STATISTICAL AREA CLASSIF TYPE (INCL TRACTED, MIZ)
                $CHAR1./* NORTH-SOUTH RELATIONSHIP
  @99
      NSREL
                $CHAR1./* URBAN BLOCK INDICATOR (1=URBAN; 0=RURAL; 9=MISSING)*/
 @101 BLKURB
                $CHAR3./* FEDERAL ELECTORAL DIST, 1996 LIST (UNIQUE IN PR)
 @103 FED1996
                $CHAR2./* ECONOMIC REGION (UNIQUE WITHIN PR)
 @107 ER
                $CHAR2./* CENSUS AGRICULTURAL REGION (CROP DIST)-UNIQUE IN PR*/
 @110 AR
 @113 CCS
                $CHAR3./* CENSUS CONSOLIDATED SUBDIVISION (UNIQUE WITHIN PR) */
 @117 EA96UID $CHAR8./* PR(2)+FED1987(3)+EA(3) FOR 1996 CENSUS GEOGRAPHY
 @126 FED2003 $CHAR3./* FEDERAL ELECTORAL DIST, 2003 LIST (UNIQUE IN PR)
 /* THE FOLLOWING FIELDS APPLY TO ALTERNATE PROGRAMS R4XOLD 14XOLD ONLY:
  @130 BTHDATC $CHAR6. /* YYYYMM OF PCCF PCODE BIRTH DATE
  @137 RETDATEC $CHAR6. /* YYYYMM OF PCCF PCODE RETIREMENT DATE
  @144 PCVDATC $CHAR6.; /* YYYYMM OF USERS' PCODE VINTAGE
```

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 such records 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

```
DATA GEOPROB; SET GEOPROB; BY LINK; FILE GEOPROB;
PUT
               $CHAR12./* RECORD IDENTIFICATION (AS INPUT)
 @ 1 ID
 @ 13 PCODE
               $CHAR6. /* POSTAL CODE (AS INPUT)
@ 19 RESFLG
               $CHAR1. /* RESIDENCE FLAG ON PCODES IF DMT=E,G,M
@ 20 PR
               $CHAR2. /* PROVINCE CODE (99=UNKNOWN)
               $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
               $CHAR6. /* CENSUS TRACT--URBAN CT'S ONLY (NO PCT)
@ 32 CT
 @ 39 DA
               $CHAR4. /* DISSEMINATION AREA (9999=UNKNOWN)
               $CHAR2. /* BLOCK (00=UNKNOWN)
 @ 43 BLK
 @ 45 INSTFLG $CHAR1. /* INSTITUTIONAL FLAG
 /* NOTE: GEOPROB HAS DIFF LAYOUT FROM HLTHOUT BEGINNING WITH LAT
               $CHAR2. /* LATITUDE DEGREES(2)
@ 46 LAT
               $CHAR2. /* LONGITUDE DEGREES(3)/10=(2)
@ 48 LONG
               $CHAR2. /* HEALTH REGION CODE (UNIQUE WITHIN PR)
 @ 51 HR
 @ 53 SUB
               $CHAR3. /* HLTH DIST CODE (UNIQUE IN PR /PR+HR(QC))*/
 @ 57 DPL
               $CHAR3. /* DESIGNATED PLACE (999=UNKN;000=NOT APPL)*/
               /* DIAGNOSTIC FLAGS:
              $CHAR1. /* PREVIOUS DMT IF DIFFERENT
                                                                   * /
@ 61 DMTDIFF
               $CHAR1. /* DELIVERY MODE TYPE
 @ 62 DMT
               $CHAR1. /* LINK TYPE
 @ 63 T.TNK
               $CHAR1. /* SOURCE OF GEOGRAPHIC CODES
 @ 64 SOURCE
               1.
                    /* NUM CSD POSSIBLE AT THIS PCODE/FSA/FSA12*/
                      /* NUM CD POSSIBLE AT THIS PCODE/FSA/FSA12
               $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:
                                                                   * /
 @ 72 ADR
              $CHAR50. /* BLDG NAME, STREET ADR, CITY
                                                                   * /
 @123 CSDNAME $CHAR8. /* 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 not 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):

```
nnnnnnn 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 2001 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
nnn 999.99 CMA/CA with urban Census Tract, but CT unknown
CMA/CA unknown, and CT unknown (if any)
```

Note that CMA codes 996-999 as shown in 2001 GeoSuite are not true CMA codes as defined by the 2001 Standard Geographic Classification, but rather 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 2001 census. In previous censuses, that role was filled by the enumeration area, but for the 2001 census, the enumeration area was used for collection purposes only.

Block (BLK)

```
@ 43 BLK $CHAR2. /* 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 99999999 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. For 2001, 1261 DPLs have been defined--only in some provinces--as a group of census blocks which refer to an unincorporated place usually within a single census subdivision (CSD), but some (84) cross CSD boundaries, of which a few (12) 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 delivery 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 post office counter), K (pick-up from group of post office boxes), or T (suburban service delivery). 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 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 2001 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).
- M 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.

- X 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.
- W 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.
- 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 I).

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).
- 1 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.
- 4 Warning: Commercial or institutional (check if legitimate residence). DMT=G or M and EGMRES=blank.
- Warning: Retired postal code (slight chance of DMT problem prior to retirement, if DMT=Z, and DMTDIFF=blank).
- 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).
- 9 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 R4xOLD or I4xOLD is used to recode British Columbia FSAs which were moved by Canada Post.

Coding Completing Summary Code (CCSUM)

In Versions 3 and 4, 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.

- 0 No geographic codes were assigned, or latitude and longitude.
- 1 One geographic code was assigned: a province code, with no latitude or longitude.
- 2 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.
- 4 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.
- 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]
                /* 9=1 BLKF
                                 IN 1 DA; DMT IN (A B E G)
                /* 8=1
                        BLK
                                 IN 1 DA; DMT IN (A B E G)
                /* 7=1 DA;
                                          DMT IN (A B E G)
                /* 6=2+ DA'S;
                                          DMT IN (A B E G)
                /* 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: R4A=GEORES4A SEPT 2002 PCCF */ [ not on GEOPROB file]
```

The *PCCF*+ program and version is indicated by the CODER field. For example, CODER I4A indicates that the GEOINS program was run using the September 2002 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 R4A and I4A use the community list of September 2002; the use of a list from any other month or year would be meaningless.

HR Health Region

```
@ 87 HR $CHAR2. /* HEALTH REGION CODE (UNIQUE WITHIN PR) (99=MISSING) */ [@ 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 1 June 1 2005, but the definitions

ide Page 32

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 HRNAM05 shows the name of each HR, including unofficial descriptive names for unnamed HRs.

Health District (SUB)

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 Ontario, all health districts except two (Sudbury and Porcupine) completely respect health region boundaries, and even those two exceptions mostly respect the health region boundaries. In all cases, a health district code is only unique within a given province. In Quebec, 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 SUBNAMO5 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 2001 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-Hull (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 10,000, plus rural areas). The lower threshold of CSIZE=5 has been increased, since Ottawa-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)

```
@ 95 QAIPPE $1. /* 2001 NEIGHBOURHOOD INCOME QUINTILE (WITHIN CMACA): */

[not present on GEOPROB file]

/* 1=LOWEST INCOME QUINTILE */

/* 5=HIGHEST INCOME QUINTILE */

/* 9=MISSING */
```

Neighbourhood income per person equivalent (IPPE) is a household size-adjusted measure of household income, based on 2001 census summary data at the DA level, and using person-equivalents implied by the 2001 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.

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.

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 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. Note also that within CMACAs, entire census subdivisions may be classified as urban, regardless of the population density of particular blocks. 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 -- 1996 Representation Order (FED1996)

```
@103 FED1996 $CHAR3. /* FED ELECT DISTRICT, 1996 LIST (999=MISSING); UNIQUE WITHIN PR */
```

A Federal Electoral District is the area represented by member of the House of Commons. The Federal Electoral Districts used for the 2001 Census were based on the 1996 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=I). 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

```
$CHAR2. /* CENSUS AGRICULTURAL REGION (CROP DISTRICT)-UNIQUE IN PR */
@ 110 AR
                     /* 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.

1996 Enumeration Area (EA96UID)

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

This field shows the 1996 enumeration area (PRFEDEA), based on the 2001 dissemination block to 1996 enumeration area correspondence file shown in Appendix to the 2001 GeoSuite (Statistics Canada catalogue 92F0150XCB, Geography Division, Statistics Canada, Ottawa, March 2002). In cases where a 2001 dissemination block corresponded to more than one 1996 enumeration area, for the purposes of this field on PCCF+, a single link was made to the 1996 enumeration area with the highest population among the possible choices.

Federal Electoral District -- 2003 Representation Order (FED2003)

```
126 FED2003
              $CHAR3. /* FEDERAL ELECTORAL DISTRICT, 2003 LIST */
```

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 GEOPROB file]
```

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 $CHAR8. /* 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 (DIST4X.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 R4xOLD and I4xOLD, 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)

```
@130 BTHDATEC $CHAR6. /* YYYYMM OF BIRTH DATE OF PCCF PCODE */
[only present on OLDCODES and HLTHOUT2 files produced by R4xOLD or I4xOLD]
```

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

```
@137 RETDATEC $CHAR6. /* YYYYMM OF RETIREMENT DATE OF PCCF PCODE */ [only present on OLDCODES and HLTHOUT2 files produced by R4xOLD or I4xOLD]
```

Postal code vintage (PCVDATC)—for alternate programs R4xOLD, I4xOLD only

```
@144 PCVDATC $CHAR6. /* YYYYMM OF USER'S POSTAL CODE VINTAGE (AT THIS LOCATION) */
[from user input and written to OLDCODES and HLTHOUT2 files produced by R4xOLD or I4xOLD]
```

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 R4xOLD and I4xOLD 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 GEORES4x and GEOINS4x.

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 4

RECORDS	PERCENT	PROB MESSAGE ACTION	
3996	100.00	TOTAL RECORDS INPUT FROM HLTHDAT (ID + PCODE)	
131	3.28	O ERROR: NO MATCH TO PCCFCHECK PCODE/ADDRESS &OR CODE MANUALLY	
5	0.13	1 ERROR: LINKED TO PO GEOGCODE MANUALLY IF RESID ADD AVAILABLE	
3	0.08	2 WARNING: NON-RESIDENTIALCHECK PCODE/ADDRESS (LEGITIMATE RES?)	
3	0.08	3 WARNING: BUSINESS BLDGCHECK PCODE/ADDRESS (LEGITIMATE RES?)	
241	6.03	4 WARNING: COMMERC/INSTITUCHECK PCODE/ADDRESS (LEGITIMATE RES?)	
65	1.63	5 WARNING: RETIRED PCODECHECK PCODE/ADDRESS IF OLD DMT UNKNOW	N
1	0.03	6 NOTE: MULT MATCH CSD-PCCF-DISTRIBUTED AMONG APPLIC DA/BLK/BLKF	
535	13.39	7 NOTE: MULT MATCH CSD-WCFDISTRIBUTED BY POP WEIGHTS OBSERVED	
3012	75.38	9 NO PROB (ERR, WARN, NOTE) NO ACTION REQUIRED	
8	0.20	NOT CODED AT ALL	
39	0.98	PARTIALLY CODED TO PR ONLY	
2	0.05	PARTIALLY CODED TO PR + (CD OR CMA)& APPROX LAT LONG	
12	0.30	PARTIALLY CODED TO PR+CD+CMAAND APPROX LAT LONG	
8	0.20	PARTIALLY CODED TO PR+CD+CMA+CSDAND APPROX LAT LONG	
3927 	98.27	FULLY CODED TO PR+CD+CMA+CSD+CT+BLKAND DA/BLK/BLKFACE LAT LONG	

Sample output from the HLTHOUT dataset

GEOCODES/PCCF VERSION 4 -- SAMPLE OUTPUT FROM THE HLTHOUT DATASET (.GEOG1 FILE)

The color PCODE PCODE PCODE PCODE PCODE CAR CT DABLK LAT LONG DPL DIAG VER COMM HRSUE C S N U FED ER AR CCS EA96UID
1304183033 G1H2C1 4242303 421 273.01 081902 45653189073503887 000 A9D111176 RAA 3276 066
1304183033 G1H2C1 4242303 421 273.01 081902 45653189073503887 000 A9D111176 RAA 3276 066
1304183332 G1H2G1 2422303 421 273.01 082102 46856140071245151 000 APRILLIPS RAA 2587 03
1304183333
1304184533 J8V273 2481015 505 841.03 037904 4551526407573670 000 A9D111171 R4A 2561 04 3 1 1 S 1 014 70 04 050 24014354 1304185031 G1P1HG 2423025 421 039.02 065901 46822089071329615 000 A9D111171 R4A 2313 03 2 1 1 S 1 052 20 03 025 24054103 1304185033 G1P1HG 2423025 421 039.02 065901 46822089071329615 000 A9D111171 R4A 2819 03 2 1 1 S 1 052 20 03 052 24054103 1304185033 G1P1HG 2423025 421 039.02 065901 46822089071329615 000 A9D111171 R4A 2819 03 2 1 1 S 1 052 20 03 052 24054103 1304185033 G12577 2423055 421 140.03 047503 46806119071370503 000 A9D111171 R4A 2819 03 2 1 1 S 1 016 30 03 03 35106270 1601002733 L8V3V5 3525005 537 005.01 059702 43217763079851251 000 A9F111191 R4A 4809 0837 1601002733 L8V3V5 3525005 537 005.01 059702 43217763079851251 000 A9F111191 R4A 5549 1662 1601002733 P7A564 4511040 602 141.02 071402 4993793907087637 000 A9F111191 R4A 5549 1662 1601007832 P7A564 451040 602 141.02 071402 4993793907087637 000 A9F111191 R4A 5549 1662 11 S 1 087 95 05 004 3508410 1601007832 P7A564 3520005 535 050.01 147401 43664058079462540 000 A9F111191 R4A 5562 0495B 1 4 1 S 1 064 30 03 005 3509800 1601010231 K7M7B4 3510010 521 014.00 013602 44250712076533691 000 A9F111191 R4A 5562 0495B 1 4 1 S 1 064 30 03 005 3509800 1601010231 K7M7B4 3510010 521 014.00 013602 44250712076533691 000 A9F111191 R4A 5662 0495B 1 4 1 S 1 064 30 03 005 3509800 1601011931 L74M7 3524002 537 207.01 053802 43349268104019508 000 W7C934459 R4A 6735 08 1 1 S 1 046 30 02 005 35094004 1601015931 L4W1L1 3521005 535 527.08 069101 43577841079654532 000 A9F111191 R4A 5106 0653 1 3 1 S 1 046 30 02 005 35094004 1601015931 L4W1L1 3521005 535 527.08 03806 430796079905668 000 A9F111191 R4A 5106 0653 1 3 1 S 1 046 30 02 005 35094004 1601016733 L2S287 3526043 539 033.01 036804 4367935079668 000 A9F111191 R4A 5106 0653 1 3 1 S 1 046 30 02 005 3509800 1601016731 L4W1L1 3521005 535 527.05 032501 43624059760799190 000 A9F111191 R4A 5106 0653 1 1 1 S 1 047 30 02 005 3509800 1601016733 L4W1L1 3520005 535 527.0
1304185331 G1PH6 2423025 421 039.02 065901 46822089071329615 000 APDILLITO RAA 2752 07 2 3 1 8 0 023 60 08 015 24015556 1304185031 G1PH6 2423025 421 039.02 065901 46822089071329615 000 APDILLITO RAA 3313 03 2 1 1 8 1 052 20 03 025 24054103 1304185033 G2E5Y7 2423055 421 140.03 047503 46806119071370503 000 APDILLITO RAA 2859 03 2 4 1 8 1 052 20 03 060 24054063 1601001210 L1G3Y1 3518013 532 015.00 008602 43937498078876105 000 APDILLITO RAA 5227 0330 3 2 1 8 1 016 30 03 013 35016270 1601000731 L693Y3 5252005 537 005.01 059702 43217763079851251 000 APFILLIPI RAA 4809 0870 2 2 1 8 1 016 30 03 013 35016270 1601007832 P78564 3558004 595 015.00 014505 48438993089226888 000 APFILLIPI RAA 5549 1662 3 1 8 1 003 50 01 005 35084320 1601007833 P783H1 3558004 595 015.00 014505 48438993089226888 000 APFILLIPI RAA 5549 1662 3 1 8 1 087 95 05 004 35084320 1601007833 P783H1 3558004 595 015.00 142014 43637293079471415 000 APFILLIPI RAA 5549 1662 3 1 8 1 087 95 05 004 35084320 1601007833 M6P2PB 3520005 535 005.01 147401 43637293079471415 000 APFILLIPI RAA 5540 0495E 1 3 1 8 1 064 30 03 005 35098002 1601010231 K7M7P4 3510010 521 014.00 013602 44250712076533691 000 APFILLIPI RAA 5562 0495E 1 3 1 8 1 064 30 03 005 35098002 1601010231 K7M7P4 3510010 521 014.00 013602 44250712076533691 000 APFILLIPI RAA 5562 0495E 1 3 1 8 1 064 30 03 005 35098002 1601010331 K5038 3520005 535 527.08 069101 43577841079654532 000 APFILLIPI RAA 5562 0495E 1 3 1 8 1 064 30 03 005 35098002 1601010331 K5038 3520005 535 527.08 069101 43557841079654532 000 APFILLIPI RAA 5560 0495E 1 3 1 8 1 066 30 02 005 35094094 160101333 L5C388 3521005 535 527.08 069101 43557841079654532 000 APFILLIPI RAA 5106 0653 1 1 1 8 1 086 30 02 005 35094094 160101331 L5C388 3520005 535 527.05 035804 44367352079679910 000 APFILLIPI RAA 5106 0653 1 1 1 8 1 08 0 00 02 002 03 35094094 160101331 L5C389 3526053 539 003.01 037804 43165801079253000 APFILLIPI RAA 5106 0653 1 1 1 8 1 08 0 00 00 00 00 00 00 00 00 00 00 00 0
1304185031 G2E547 2423025 421 140.03 047503 4682089071329615 0.00 A9D11117. R4A 3313 03
1304185033
1601002730
1601002733
1601005410 R2G0E6 4611040 602 141.02 071402 4993793997087637 000 APDILIT. R4A 6221 10 2 2 1 8 1 013 50 09 040 46008417 1601007833 P78544 3558004 595 011.01 031611 4842182408923596 000 APFILI191 R4A 5549 1662 3 1 1 8 1 087 95 05 040 35084320 1601009010 M684X8 3520005 535 05.01 147401 43637293079471415 000 BPFILI191 R4A 5562 0495E 1 4 1 8 1 064 30 03 05 3508302 1601009031 M6PZH9 3520005 535 100.00 140201 43664058079462540 000 APFILI191 R4A 5562 0495E 1 3 1 8 1 064 30 03 05 35088002 1601010331 L5C388 3521005 535 527.08 069101 43577841079654532 000 APPILI191 R4A 4951 0241 3 1 8 1 064 30 02 005 3508404 160101191 D806 053 1 3 1 8 1 064 30 02 005 3508404 160101191 D806 053 1 3 1 8 1 064 30 02 005 3508404 160101191 D806 053 1 3 1 8 1 064 30 02 005 3508404 160101191 D806 053 1 3 1 8 1 064 30 02 005 3508404 160101191 D806 054 054 054 054 054 054 054 054 054 054
1601007832 P7A5G4 3558004 595 015.00 014505 48438993089226888 000 ApF111191 R4A 5549 1662 3 1 1 8 1 087 95 05 004 35084320 Apr1601007833 Apr381 3558004 595 011.01 031611 48421824089235996 000 ApF111191 R4A 5549 1662 3 1 1 8 1 087 95 05 004 35084410 Apr380409030 M6P2H9 3520005 535 050.01 14701 4363793079471415 000 BpF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 35063258 Apr3804000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 35063258 Apr38040000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 35063258 Apr380400100000 Apr3804 Apr38040000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 3508000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 3508000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 3508000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 3508000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 3508000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 3508000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 3508000 ApF111191 R4A 5562 04958 1 4 1 8 1 064 30 03 005 3508000 ApF111191 R4A 55000 ApF111191 R4A 5500 ApF111191 R4A 5
1601007833 P783H1 3558004 595 011.01 031611 48421824089235996 000 A9F111191 R4A 5549 1662 3
1601009010 M6S4Y8 3520005 535 050.01 147401 43637293079471415 000 B9F111191 R4A 5562 0495E 1 3 1 S 1 064 30 03 053 35063258 1601009033 M6P2H9 3520005 535 100.00 142021 43664058079462540 000 A9F111191 R4A 5562 0495E 1 3 1 S 1 064 30 03 005 35098002 1601010231 K7M7B4 510010 521 014.00 013602 44250712076533691 000 B9D111171 R4A 5106 0653 1 3 1 S 1 064 30 02 005 35094004 1601011910 S0E1E0 4714076 000 000.00 002410 53349268104019508 000 A9P111172 R4A 5106 0653 1 3 1 S 1 066 30 02 005 35049404 1601013832 L7R4M7 3524002 537 207.01 053802 43334767079821521 000 B9F111191 R4A 4458 0636 2 1 S 1 0 S 1 0 S 0 S 0 S 0 S 0 S 0 S 0 S
1601009033
1601010231 K7M7B4 3510010 521 014.00 013602 44250712076533691 00 B9D111171 R4A 4951 0241 3 1 1 S 1 036 15 04 010 35037506 1601011533 L5C3S8 3521005 535 527.08 069101 43577841079654532 00 APD111172 R4A 5106 0653 1 3 1 S 1 046 30 02 005 35049404 160101910 S0E1E0 4714076 000 000.00 002410 53349268104019508 00 W7C934459 R4A 6735 08 5 1 0 R 1 066 50 8A 072 47002573 1601014733 L2G3E7 3526043 539 203.01 053802 43334767079821521 00 B9F111191 R4A 458 0636 2 3 1 S 1 010 50 02 002 35008115 1601014733 L2G3E7 3526043 539 203.01 006904 43070976079095668 00 APF111191 R4A 5106 0653 1 1 1 S 1 052 50 01 043 35051016 1601016133 L2S2M9 3526053 539 003.01 037804 43145861079253296 00 APF111191 R4A 5473 0946 3 2 1 S 1 052 50 01 043 35090216 1601017421 N755L7 3538030 562 102.02 015804 42973744082365802 000 APF111191 R4A 5473 0946 3 1 I S 1 052 50 01 053 35090216 1601017421 N755L7 3538030 562 102.02 015804 42973744082365802 000 APF111191 R4A 5473 0946 3 1 I S 1 008 30 02 003 35079159 1601017421 N755L7 3538030 562 102.02 015804 42973744082365802 000 APF111191 R4A 5473 0946 3 1 I S 1 008 30 03 35079159 1601017421 N755L7 3538030 552 040.00 08809 4297354080588774 000 APF111191 R4A 5562 04951 1 2 I S 1 008 30 03 005 35006061 1601017910 N4B2W4 3528052 547 000.00 08090 42756837080558774 000 H9C114259 R4A 613 1034 4 4 4 3 S 0 0 07 50 01 053 35016061 1601019312 L5G1JB 3521005 535 540.01 037901 43553413079585884 000 BPF111191 R4A 5562 04951 1 1 S 1 048 30 02 005 35048068 1601019721 R2K0V9 4611040 602 133.00 070502 49927590097100976 000 APF111191 R4A 5562 04951 1 5 1 S 1 048 30 02 005 35040688 1601020010 M4E3M6 3520005 535 0420.00 07010 42876846080729595 000 APF111191 R4A 5562 04951 1 5 1 S 1 048 30 02 005 35040688 1601020010 M4E3M6 3520005 535 0420.00 07010 42876846080729595 000 APF111191 R4A 5500 0495M 1 5 1 S 1 075 00 00 00 00 00 00 00 00 00 00 00 00 00
1601011910
1601013832
1601013832
1601015931 L4W1L1 3521005 535 527.05 032501 43624059079608402 000 A9F111191 R4A 5106 0653 1 1 1 8 1 047 30 02 005 35047351 1601016133 L2S2M9 3526053 539 003.01 037804 43145861079253296 000 A9F111191 R4A 5473 0946 3 1 1 8 1 051 50 01 053 35090216 1601017132 L4N2V4 3543042 568 005.00 038106 44367352079679190 000 A9F111191 R4A 4358 0560 3 5 2 8 1 002 40 02 042 35079159 1601017421 N7S5L7 3538030 562 102.02 015804 42973744082365802 000 A9F111191 R4A 5391 1242 4 3 2 8 1 071 70 01 030 35072209 1601017633 M4K1C1 3520005 535 069.00 383001 43669948079342406 000 A9F111191 R4A 5562 04951 1 2 1 8 1 088 30 03 005 35006061 1601017910 N4B2W4 3528052 547 000.00 008009 42756837080558774 000 H9C114259 R4A 4613 1034 4 4 3 8 0 027 50 01 052 35018012 1601018131 N6G2E5 3539036 555 044.04 035003 43006922081306309 000 A9F111191 R4A 5106 0653 1 1 1 8 1 0 04 60 01 036 35045463 1601019731 R2K0V9 4611040 602 133.00 070502 49927590097100976 000 A9F111191 R4A 5106 0653 1 1 1 8 8 1 044 60 01 036 35048068 1601020010 M4E3M6 3520005 535 022.00 379901 43677506079285931 000 A9F111191 R4A 5562 0495K 1 5 1 8 1 001 70 06 028 48001057 1601020432 N4G4T7 3532004 546 000.00 07010 42876846080729595 000 B9F112181 R4A 5505 1152 4 4 3 8 1 063 60 01 012 35062064 1601020432 N4G4T7 3532004 546 000.00 07010 42876846080729595 000 B9F112181 R4A 5505 1152 4 4 3 8 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 8 1 075 30 03 005 35077052
1601016133
1601017132
1601017421 N7S5L7 3538030 562 102.02 015804 42973744082365802 000 A9F111191 R4A 5391 1242 4 3 2 8 1 071 70 01 030 35072209 1601017633 M4K1C1 3520005 535 069.00 383001 43669948079342406 000 A9F111191 R4A 5562 04951 1 2 1 8 1 008 30 03 05 35006061 1601017910 N4B2W4 3528052 547 000.00 008009 42756837080558774 000 H9C114259 R4A 4613 1034 4 4 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1601017633 M4K1C1 3520005 535 069.00 383001 43669948079342406 000 A9F111191 R4A 5562 04951 1 2 1 S 1 008 30 03 005 35006061 1601017910 M4B2W4 3528052 547 000.00 008009 42756837080558774 000 H9C114259 R4A 4613 1034 4 4 3 S 0 027 50 01 052 35018012 1601018131 M6G2E5 3539036 555 044.04 035003 43006922081306309 000 A9D11117. R4A 5013 1144 3 3 1 S 1 044 60 01 036 35045463 1601019332 L5G1J8 3521005 535 540.01 037901 43553413079585884 000 B9F111191 R4A 5106 0653 1 1 1 S 1 048 30 02 005 35048068 1601019721 R2K0V9 4611040 602 133.00 070502 49927950097100976 000 A9F111191 R4A 5106 0653 1 1 1 S 1 048 30 02 005 35048068 1601020010 M4E3M6 3520005 535 022.00 379901 43677506079285931 000 A9F111191 R4A 5562 0495K 1 5 1 S 1 014 50 09 040 46014203 177P1A3 4813031 000 000.00 004620 54164822113845804 000 A9F112181 R4A 7709 26 5 4 0 R 1 001 70 06 028 48001057 1601020432 N4G4T7 3532004 546 000.00 077010 42876846080729595 000 B9F112181 R4A 5505 1152 4 4 3 S 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 S 1 075 30 03 005 35077052
1601017910 N4B2W4 3528052 547 000.00 008009 42756837080558774 000 H9C114259 R4A 4613 1034 4 4 3 8 0 0 027 50 01 052 35018012 1601018131 N6G2E5 3539036 555 044.04 035003 43006922081306309 000 A9D11117. R4A 5013 1144 3 3 1 8 1 044 60 01 036 35045463 1601019332 L5G1JB 3521005 535 540.01 037901 43553413079585884 000 B9F111191 R4A 5106 0653 1 1 1 8 1 048 30 02 005 35048068 1601019721 R2K0V9 4611040 602 133.00 070502 49927590097100976 000 A9F111191 R4A 6221 10 2 2 1 8 1 014 50 09 040 46014203 1601020010 M4E3M6 3520005 535 022.00 379901 43677506079285931 000 A9D11117. R4A 5562 0495K 1 5 1 8 1 003 30 03 005 35002068 1601020131 T7P1A3 4813031 000 000.00 004620 54164822113845804 000 A9F112181 R4A 7709 26 5 4 0 R 1 001 70 06 028 48001057 1601020432 N4G4T7 3532004 546 000.00 077010 42876846080729595 000 B9F112181 R4A 5555 1152 4 4 3 8 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 8 1 075 30 03 005 35077052
1601018131 N6G2E5 3539036 555 044.04 035003 43006922081306309 000 A9D11117. R4A 5013 1144 3 3 1 8 1 044 60 01 036 35045463 1601019332 L5G1J8 3521005 535 540.01 037901 43553413079585884 000 B9F111191 R4A 5106 0653 1 1 1 8 1 048 30 02 005 35048068 1601019721 R2K0V9 4611040 602 133.00 070502 49927590097100976 000 A9F111191 R4A 6221 10 2 2 1 8 1 014 50 09 040 46014203 1601020010 M4E3M6 3520005 535 022.00 379901 43677506079285931 000 A9D11117. R4A 5562 0495K 1 5 1 8 1 003 30 03 005 35002068 1601020131 T7P1A3 4813031 000 000.00 004620 54164822113845804 000 A9F112181 R4A 7709 26 5 4 0 R 1 001 70 06 028 48001057 1601020432 N4G4T7 3532004 546 000.00 077010 42876846080729595 000 B9F112181 R4A 5555 1152 4 4 3 8 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 8 1 075 30 03 005 35077052
1601019332 L5G1J8 3521005 535 540.01 037901 43553413079585884 000 B9F111191 R4A 5106 0653 1 1 1 8 1 048 30 02 005 35048068 1601019721 R2K0V9 4611040 602 133.00 070502 49927590097100976 000 A9F111191 R4A 6221 10 2 2 1 8 1 014 50 09 040 46014203 1601020010 M4E3M6 3520005 535 022.00 379901 43677506079285931 000 A9F111191 R4A 5562 0495K 1 5 1 8 1 003 30 03 005 35002068 1601020131 T7P1A3 4813031 000 000.00 004620 54164822113845804 000 A9F112181 R4A 7709 26 5 4 0 R 1 001 70 06 028 48001057 1601020432 N4G4T7 3532004 546 000.00 077010 42876846080729595 000 B9F112181 R4A 5555 1152 4 4 3 8 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 8 1 075 30 03 005 35077052
1601019721 R2K0V9 4611040 602 133.00 070502 49927590097100976 000 A9F111191 R4A 6221 10 2 2 1 S 1 014 50 09 040 46014203 1601020010 M4E3M6 3520005 535 022.00 379901 43677506079285931 000 A9D11117. R4A 5562 0495K 1 5 1 S 1 003 30 03 005 35002068 1601020131 T7P1A3 4813031 000 000.00 004620 54164822113845804 000 A9F112181 R4A 7709 26 5 4 0 R 1 001 70 06 028 48001057 1601020432 N4G4T7 3532004 546 000.00 077010 42876846080729595 000 B9F112181 R4A 5555 1152 4 4 3 S 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 S 1 075 30 03 005 35077052
1601020010 M4E3M6 3520005 535 022.00 379901 43677506079285931 000 A9D11117. R4A 5562 0495K 1 5 1 S 1 003 30 03 005 35002068 1601020131 T7P1A3 4813031 000 000.00 004620 54164822113845804 000 A9F112181 R4A 7709 26 5 4 0 R 1 001 70 06 028 48001057 1601020432 N4G4T7 3532004 546 000.00 007010 42876846080729595 000 B9F112181 R4A 5555 1152 4 4 3 S 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 S 1 075 30 03 005 35077052
1601020131 T7P1A3 4813031 000 000.00 004620 54164822113845804 000 A9F112181 R4A 7709 26 5 4 0 R 1 001 70 06 028 48001057 1601020432 N4G4T7 3532004 546 000.00 007010 42876846080729595 000 B9F112181 R4A 5555 1152 4 4 3 S 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 S 1 075 30 03 005 35077052
1601020432 N4G4T7 3532004 546 000.00 007010 42876846080729595 000 B9F112181 R4A 5555 1152 4 4 3 S 1 063 60 01 012 35062064 1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 S 1 075 30 03 005 35077052
1601020610 M1C1K9 3520005 535 362.02 374802 43788038079163502 000 A9D11117. R4A 5400 0495M 1 5 1 S 1 075 30 03 005 35077052
16በ1በ25533
1601026631 K1V9K4 3506008 505 002.05 087501 45347074075665245 000 B9F111191 R4A 5230 0151 2 3 1 S 1 060 10 04 008 35059014
1601027832 S4V0G7 4706027 705 008.02 019701 50432251104564832 000 A9D11117. R4A 6814 04 3 5 1 S 1 013 10 2B 027 47007161
1601028831 N7S4X8 3538030 562 102.02 015903 42970869082365165 000 A9F111191 R4A 5391 1242 4 2 2 S 1 071 70 01 030 35072208
1601028832 N7T6J8 3538030 562 008.00 019504 42982172082396827 000 A9F111191 R4A 5391 1242 4 2 2 S 1 071 70 01 030 35072164
1601029531 T1K4A4 4802012 810 019.00 016101 49678240112881944 000 A9D11117. R4A 7414 20 4 2 2 S 1 018 10 02 011 48017419
1601030710 L5C3L4 3521005 535 527.08 069502 43576525079661365 000 A9F111191 R4A 5106 0653 1 4 1 S 1 046 30 02 005 35049405
1601030733 L5A3T1 3521005 535 521.06 085901 43597525079626646 000 B9F111191 R4A 5106 0653 1 2 1 S 1 047 30 02 005 35047113
1601031231 L8N2Z3 3525005 537 033.00 044701 43246956079851089 000 A9F111191 R4A 4809 0837 2 1 1 S 1 029 50 01 005 35032002
1601032031 K8A7W4 3547064 515 000.00 004912 45817759077093184 000 A9F112181 R4A 5256 0157 4 5 3 S 1 070 15 04 075 35068254
1601033332 R2K0K5 4611040 602 134.00 071204 49930495097093590 000 A9F111191 R4A 6221 10 2 3 1 S 1 014 50 09 040 46014208
1601035633 R2C5B2 4611040 602 120.02 085503 49900542096969280 000 A9F111191 R4A 6221 10 2 4 1 S 1 014 50 09 040 46014003

Sample printout from the GEOPROB dataset GEOCODES/PCCF VERSION 4 PARTIAL PRINT OF GEOPROB FILE (ERRORS & WARNINGS, BUT NO NOTES)					
ID PCODE PRCDCSD CMA CT	DABLK LL HRSUB DPL DIAG		CSDNAME TY		
0 ERROR: NO MATCH TO PCCFCHECK PC					
1202050810 A1X5J7 1001485 001 301.0 1201026310 B2M5B3 1200999 999 999.9	22 013501 4705 01 000 90131994.	St. John's CMA :Avalon Peninsul DIV : NOT CMACA :Rimouski-Neiget MRC Montréal CMA :Montréal CU Kingston CMA :Frontenac CTY	CONCEPTIT*		
1302025710 G0K2K0 2410005 000 000.0	IN NOTONO 4806 N1 NNN 90T949949	NOT CMACA :Rimouski-Neiget MRC	FCDDTT_CM*		
1301031010 H9G3X9 2466140 462 521.0	11 235801 4507 06 000 901949949	Montréal CMA : Montréal CII			
1602451310 878270 3510010 521 008 0	IN 018405 4407 0241 000 90131994.	Montréal CMA :Montréal CU Kingston CMA :Frontenac CTY	KINGSTONC*		
1604153110 M3Y4A1 3520005 535 999.9	9 9 9 9 9 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Toronto CMA :Toronto DIV	TORONTO C*		
1604305110 R3N3L2 4611040 602 008.0	0 038001 4909 10 000 90111994.	Toronto CMA :Toronto DIV Winnipeg CMA :Winnipeg DIV	WINNIPEGC*		
1802106710 V1S4X1 5933042 925 006.0					
1802068310 V4T4J5 5935027 915 102.0		Kelowna CA1:Westbank (UNP) :Central Okanaga RD			
1803049810 V9C5T3 5917044 935 154.0					
1 ERROR: LINKED TO PO GEOGCODE MAN	UALLY IF RESID ADD AVAILABLE				
1604055521 - DATIM 4611000 600 000 0		HEADINGLEY: Winnipeg CMA : Winnipeg DIV	4		
		HEADINGLEY: Winnipeg CMA : Winnipeg DIV BOX 18001:18060 STN MAIN UPPER GULLIES	,		
1201059710 AIX4G9 1001999 001 999.9		BOX 18001.18060 SIN MAIN UPPER GULLIES	•		
2 WARNING: NON-RESIDENTIAL PCODECH	ECK PCODE/ADDRESS (LEGIT RES?)				
1304154932 H3L1B9-2400999 462 999.9	9 999900 99 999 E2F119191	CENTRE MEDICAL HENRI-BOURASSA 222 HENRI-BOURA MONT	*		
1603422510 L4C9S7-3500999 535 999.9	9 999900 99999 999 E2F119191	BUSINESS BUILDING 120 NEWKIRK RD RICHMOND HILL	*		
1602226510 T2S2T6-4800999 825 999.9	9 999900 99 999 E2F119191	FOODVALE OFFICE COMPLEX 5005 ELBOW DR SW CALGARY	*		
1601088310 T5N4A3-4800999 835 999.9	9 999900 99 999 E2F119191	PEOPLES TRUST PLAZA 10216 124 ST NW EDMONTON	*		
		VIDEOTRON LTEE 405 OGILVY AV 200 MONTREAL	*		
1804030033 V2A5A9-5900999 913 000.0		CITY OF PENTICTON 171 MAIN ST PENTICTON	*		
3 WARNING: BUSINESS BLDGCHECK PC	ODE/ADDRESS (LEGITIMATE RES?)				
1604118533 T.6Y2N4@3521010 535 572 0	5 020201 4307 0653 000 E3E111191	APARTMENT BLDG 430 MCMURCHY AVE S BRAMPTON	BRAMPTONC*		
			EDMONTONC*		
1801082533 V5G4J3?5915025 933 230.0		BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY 4200 BURN			
1202190833 A1B1S5@1001519 001 013.0		ST PATRICKS MERCY HOME 146 ELIZABETH AVE ST. JOHN'			
1202154133 A2A2E1@1006017 010 000.0		CENTRAL NEWFOUNDLAND REGIONAL HEALTH CENTRE 5 GRAN			
1303089633 H2C3H6@2466025 462 277.0		LES RESIDENCES LAURENDEAU, LEGARE, LOUVAIN 1725 MONT	MONTRÉALV*		
			TORONTO C*		
1602154410 M9W4L3@3520005 535 246.0		KIPLING ACRES HOME FOR THE AGED 2233 KIPLING ETOBI			
1604515931 N2L3G1@3530016 541 106.0		UNIVERSITY OF WATERLOO 200 UNIVERSITY AVE W WATERL			
1604443433 R1N3V4@4609029 607 000.0		LION'S PRAIRIE MANOR 24 9TH ST SE PORTAGE LA PRAIR	PORTAGE C*		
1603468632 R3N1V9@4611040 602 510.0		CANADIAN FORCES BASE WINNIPEG, KAPYONG BARRAC WINN	WINNIPEGC*		
1601086332 R7N1R7@4617050 000 000.0	0 001114 5110 60 000 G4F111191	DAUPHIN GENERAL HOSPITAL 625 3RD ST SW DAUPHIN	DAUPHIN C*		
1603548732 S4S3B4@4706027 705 002.0	2 049002 5010 04 000 G4F111191	EXTENDICARE/PARKSIDE 4540 RAE ST REGINA	REGINA C*		
1602539533 T5K0L4@4811061 835 032.0	2 015604H5311 25 000 G4F111191	GENERAL HOSPITAL 11111 JASPER AVE NW EDMONTON	EDMONTONC*		
1803100131 V6T1K2@5915020 933 069.0		WALTER GAGE RESIDENCE (UBC) 5959 STUDENT UN VANC	GREATER RD		

APPENDIX E APPENDICE E

Census Metropolitan Areas and Census Agglomerations in numerical order, 2001 Census classification, showing 2001 population and city size, and indicating if area is census tracted Régions métropolitaines de recensement et Agglomérations de recensement en ordre numérique, selon la classification du recensement de 2001, avec indication si les secteurs de recensement s'appliquent

Pop 2001	CSIZE	Tracted Secteurs	Name Nom	Type Type	CT SR	CMA/CA RMR/AR
	5		A Non dans une RMR/AR	Not in CMA/CA	00.00	000
172,918	3	CT/SR	St John's	CMA/RMR	999.99	001
18,981	4		Grand Falls-Windsor	CA/AR	00.00	010
11,254	4		Gander	CA/AR	00.00	011
25,747	4		Corner Brook	CA/AR	00.00	015
9,638	4		Labrador City	CA/AR	00.00	025
58,358	4		Charlottetown	CA/AR	00.00	105
16,200	4		Summerside	CA/AR	00.00	110
359,183	3	CT/SR	Halifax	CMA/RMR	999.99	205
25,172	4		Kentville	CA/AR	00.00	210
44,276	4		Truro	CA/AR	00.00	215
36,735	4		New Glasgow	CA/AR	00.00	220
109,330	3		Cape Breton (Sydney)	CA/AR	00.00	225
117,727	3	CT/SR	Moncton	CA/AR	999.99	305
122,678	3	CT/SR	Saint John	CMA/RMR	999.99	310
81,346	4		Fredericton	CA/AR	00.00	320
23,935	4		Bathurst	CA/AR	00.00	328
16,265	4		Campbellton	CA/AR	00.00	330
22,173	4		Edmundston	CA/AR	00.00	335
16,249	4		Matane	CA/AR	000.00	403
47,688	4		Rimouski	CA/AR	000.00	404
22,339	4		Rivière-du-Loup	CA/AR	00.00	405
28,940	4		Baie-Comeau	CA/AR	00.00	406
154,938	3	CT/SR	Chicoutimi-Jonquière	CMA/RMR	999.99	408
30,126	4		Alma	CA/AR	000.00	410
148,879	4		Dolbeau-Mistassini	CA/AR	00.00	411
26,952	4		Sept-Îles	CA/AR	000.00	412
682,757	2	CT/SR	Québec	CMA/RMR	999.99	421
28,127	4		Saint-Georges	CA/AR	000.00	428
26,323	4		Thetford Mines	CA/AR	000.00	430
153,811	3	CT/SR	Sherbrooke	CMA/RMR	999.99	433
22,535	4		Magog	CA/AR	000.00	435
12,032	4		Cowansville	CA/AR	00.00	437
41,233	4		Victoriaville	CA/AR	000.00	440
137,507	3	CT/SR	Trois-Rivières	CMA/RMR	999.99	442
57,304	4		Shawinigan	CA/AR	000.00	444
12,376	4		La Tuque	CA/AR	000.00	446
68,451	4	CT/SR	Drummondville	CA/AR	999.99	447
60,264	4	CT/SR	Granby	CA/AR	999.99	450
49,536	4		Saint-Hyacinthe	CA/AR	000.00	452
40,956	4		Sorel-Tracy	CA/AR	000.00	454
35,821	4		Joliette	CA/AR	00.00	456
79,600	4	CT/SR	Saint-Jean-sur-Richelieu	CA/AR	999.99	459
3,426,350	1	CT/SR	Montréal	CMA/RMR	999.99	462
39,028	4		Salaberry-de-Valleyfield	CA/AR	00.00	465
11,628	4		Lachute	CA/AR	000.00	468
32,423	4		Val-d'Or	CA/AR	000.00	480
21,749	4		Amos	CA/AR	000.00	481
36,308			Rouyn-Noranda	CA/AR	00.00	485

Pop 2001	CSIZE	Tracted Secteurs	Name Nom	Туре	CT SR	CMA/CA RMR/AR
2001		Secteurs	NOIII	Type		KWIK/AK
57,581	4		Cornwall	CA/AR	00.00	501
11,629	4		Hawkesbury	CA/AR	000.00	502
1,063,664	1	CT/SR	Ottawa-Hull (Gatineau)	CMA/RMR	999.99	505
44,741	4		Brockville	CA/AR	000.00	512
23,608	4		Pembroke	CA/AR	000.00	515
14,398	4		Petawawa	CA/AR	000.00	516
146,838	3	CT/SR	Kingston	CMA/RMR	999.99	521
87,395	4	CT/SR	Belleville	CA/AR	999.99	522
17,172	4		Cobourg	CA/AR	000.00	527
15,605	4		Port Hope and Hope	CA/AR	000.00	528
102,423	3	CT/SR	Peterborough	CA/AR	999.99	529
69,129	4		Kawartha Lakes (Lindsay)	CA/AR	000.00	530
296,298	3	CT/SR	Oshawa	CMA/RMR	999.99	532
4,682,897	1	CT/SR	Toronto	CMA/RMR	999.99	535
662,401	2	CT/SR	Hamilton	CMA/RMR	999.99	537
377,009	3	CT/SR	St Catharines-Niagara	CMA/RMR	999.99	539
414,284	3	CT/SR	Kitchener	CMA/RMR	999.99	541
86,417	4	CT/SR	Brantford	CA/AR	999.99	543
33,061	4		Woodstock	CA/AR	000.00	544
14,052	4		Tillsonburg	CA/AR	000.00	546
60,847	4	OF 10 P	Norfolk (Simcoe)	CA/AR	000.00	547
117,344	3	CT/SR	Guelph	CA/AR	999.99	550
29,676	4	CEL (CE	Stratford	CA/AR	000.00	553
432,451	3	CT/SR	London	CMA/RMR	999.99	555
107,709	3		Chatham-Kent	CA/AR	00.000	556
46,757	4	CTI/CD	Leamington	CA/AR	00.00	557 550
307,877	3	CT/SR	Windsor	CMA/RMR	999.99	559 563
88,331	4	CT/SR	Sarnia (Sarnia-Clearwater)	CA/AR	999.99	562
31,583	4		Owen Sound	CA/AR	00.00	566
16,039	4	CT/CD	Collingwood	CA/AR	000.00	567 569
148,480	3 4	CT/SR	Barrie Orillia	CA/AR	999.99	568 560
40,256 33,692	4		Midland	CA/AR CA/AR	000.00 000.00	569 571
63,681	4	CT/SR		CA/AR CA/AR	999.99	575
155,601	3	CT/SR CT/SR	North Bay Sudbury	CA/AR CMA/RMR	999.99	580
	4	CI/SK	Elliot Lake	CMA/RMR CA/AR	000.00	582
11,956 12,867	4		Haileybury	CA/AR CA/AR	000.00	584
43,686	4		Timmins	CA/AR CA/AR	000.00	586
78,908	4	CT/SR	Sault Ste. Marie	CA/AR CA/AR	999.99	590
121,986	3	CT/SR CT/SR	Thunder Bay	CMA/RMR	999.99	595
15,838	4	CI/SK	Kenora	CA/AR	000.00	598
671,274	2	CT/SR	Winnipeg	CMA/RMR	999.99	602
20,617	4	CI/BR	Portage la Prairie	CA/AR	000.00	607
41,037	4		Brandon	CA/AR	000.00	610
13,256	4		Thompson	CA/AR	000.00	640
192,800	3	CT/SR	Regina	CMA/RMR	999.99	705
17,554	4	CI/SK	Yorkton	CA/AR	000.00	710
33,519	4		Moose Jaw	CA/AR	00.00	715
16,527	4		Swift Current	CA/AR	000.00	720
10,041		CT/SR	Saskatoon	CMA/RMR	999.99	725
	1			~-· ~ I \1.111 \		
225,927	3 4	2 - 1, 2 - 1		CA/AR	000.00	735
	3 4 4		North Battleford Prince Albert	CA/AR CA/AR	000.00 000.00	735 745

CMA/CA	CT	Туре	Name	Tracted	CSIZE	Pop
RMR/AR	SR	Type	Nom	Secteurs		2001
805	999.99	CA/AR	Medicine Hat	CT/SR	4	61,735
806	00.00	CA/AR	Brooks		4	11,604
810	999.99	CA/AR	Lethbridge	CT/SR	4	67,374
825	999.99	CMA/RMR	Calgary	CT/SR	2	951,395
830	999.99	CA/AR	Red Deer	CT/SR	4	67,707
833	00.00	CA/AR	Camrose		4	14,854
835	999.99	CMA/RMR	Edmonton	CT/SR	2	937,845
840	00.00	CA/AR	Lloydminster		4	20,988
845	00.00	CA/AR	Cold Lake (Grand Centre)		4	27,935
850	00.00	CA/AR	Grande Prairie		4	36,983
860	00.00	CA/AR	Wood Buffalo (Fort McMurray)		4	42,602
865	00.00	CA/AR	Wetaskiwin		4	11,154
905	00.00	CA/AR	Cranbrook		4	24,275
913	00.00	CA/AR	Penticton		4	41,574
915	999.99	CA/AR	Kelowna	CT/SR	3	147,739
918	00.00	CA/AR	Vernon		4	51,530
925	999.99	CA/AR	Kamloops	CT/SR	4	86,491
930	00.00	CA/AR	Chilliwack		4	69,776
932	999.99	CMA/RMR	Abbotsford (Matsqui)	CT/SR	3	147,370
933	999.99	CMA/RMR	Vancouver	CT/SR	1	1,986,965
934	000,00	CA/AR	Squamish		4	14,435
935	999.99	CMA/RMR	Victoria	CT/SR	3	311,902
937	00.00	CA/AR	Duncan		4	38,813
938	999.99	CA/AR	Nanaimo	CT/SR	4	85,664
939	00.00	CA/AR	Parksville		4	24,285
940	00.00	CA/AR	Port Alberni		4	25,396
943	00.00	CA/AR	Courtenay		4	47,051
944	00.00	CA/AR	Campbell River		4	33,872
945	00.00	CA/AR	Powell River		4	18,269
950	00.00	CA/AR	Williams Lake		4	25,122
952	00.00	CA/AR	Quesnel		4	24,426
955	00.00	CA/AR	Prince Rupert		4	15,302
960	00.00	CA/AR	Kitimat		4	10,285
965	00.00	CA/AR	Terrace		4	19,980
970	999.99	CA/AR	Prince George	CT/SR	4	85,035
975	00.00	CA/AR	Dawson Creek		4	17,444
977	00.00	CA/AR	Fort St. John		4	16,034
990	00.00	CA/AR	Whitehorse		4	21,405
995	00.00	CA/AR	Yellowknife		4	16,541
999	999.99	CMA/CA unkr	nownRMR/AR inconnu	CT/SR?		

Note: Former names (from 1991 or 1996 census) shown in parentheses if different. Since 1996, 5 CAs were added (Amos, Petawawa, Squamish, Brooks, Parksville), 2 CAs were deleted (Smith Falls, Strathroy), and 2 other CAs were promoted to CMA (Kingston, Abbotsford). Three CAs gained census tracts: Drummondville, Granby and Medicine Hat. Also 1 CMA and 6 CAs were renamed: Sudbury to Greater Sudbury, Dolbeau to Dolbeau-Mistassini, Sorel to Sorel-Tracy, Port Hope to Port Hope and Hope, Lindsay to Kawartha Lakes, Simcoe to Norfolk, Grand Centre to Cold Lake.

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

APPENDIX F

GEOGRAPHIC CODING FROM PARTIAL POSTAL CODES BASED ON PCCF

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

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

Letter	Province/Territory Major Geographic Area (Canada Post)	Standard Abbreviation
A	Newfoundland and Labrador	NF, NL
В	Nova Scotia	NS
C	Prince Edward Island	PE
E	New Brunswick	NB
GHJ	Québec	QC
G	Québec East	
H	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
Y	Yukon	YK, YT

In the September 2002 PCCF, 88 postal codes are 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 BASED ON SEPTEMBER 2002 PCCF

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

FILE=FSA12GEO.CAN

Page 44

A2 4619 015 42.8 1005 43.3 1005018 41.6 49270448 05861 A8 1061 000 100.0 1005 98.3 1005004 75.2 49202405 05742 NOVA SCOTIA - NOUVELLE ECOSSE B0 12350 000 79.2 1212 11.3 1207001 6.2 45076455 06371 B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 06015 B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 6363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937558 06418 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06492 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 OUEBEC O 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 C1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 C2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 C3 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 C4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 C5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06948 C6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07138 C7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115		4 1/1 (7)						DD ~-			GT		
A0 8720 000 91.6 1001 36.4 1010025 3.6 48692998 05508 A1 14510 001 94.9 1001 96.5 1001519 44.2 47597789 05288 A2 4619 015 42.8 1005 43.3 1005018 41.6 49270448 05861 A8 1061 000 100.0 1005 98.3 1005004 75.2 49202405 05742 **NOVA SCOTIA - NOUVELLE ECOSSE** B0 12350 000 79.2 1212 11.3 1207001 6.2 45076455 06371 B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 06015 B2 14528 205 33.2 1209 33.2 1209934 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 12099034 100.0 44650437 06363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 **PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 **NEW BRUNSWICK - NOUVEAU BRUNSWICK** E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06702 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E5 8840 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06782 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06782 E9 2026 000 100.0 1309 98.4 1309036 22.7 464896799 07142 G2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 475948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358	3 										CMA	NPC	FS
A1 14510 001 94.9 1001 96.5 1001519 44.2 47597789 05289 A2 4619 015 42.8 1005 43.3 1005018 41.6 49270448 05861 A8 1061 000 100.0 1005 98.3 1005004 75.2 49202405 05742 NOVA SCOTTA - NOUVELLE ECOSSE B0 12350 000 79.2 1212 11.3 1207001 6.2 45076455 06371 B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 06015 B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 06363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 48830833 06599 E3 3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 13107016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3304 000 72.9 1310 96.3 1310030 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06786 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553													
A2 4619 015 42.8 1005 43.3 1005018 41.6 49270448 05861 A8 1061 000 100.0 1005 98.3 1005004 75.2 49202405 05742 NOVA SCOTIA - NOUVELLE ECOSSE B0 12350 000 79.2 1212 11.3 1207001 6.2 45076455 06371 B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 06015 B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 06363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1202 98.4 1202006 78.6 43848198 066136 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307002 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06590 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360208 06634 E5 8840 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC QUEBEC G1 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 31.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 31.9 46819596 07125 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 0664 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07136 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 79.5 45526882 07386 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07386 H3 11889 462 100.0 2466 100													
NOVA SCOTIA - NOUVELLE ECOSSE B0 12350 000 79.2 1212 11.3 1207001 6.2 45076455 06371 B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 06015 B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 0636 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06654 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553													
NOVA SCOTIA - NOUVELLE ECOSSE B0 12350 000 79.2 1212 11.3 1207001 6.2 45076455 06371 B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 06015 B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 06363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307002 38.1 46522230 06501 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06786 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2499070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 79.5 45526882 07356 H1 18591 462 100.0 2466 100.0 2466025 79.5 45526882 07356 H1 1889 462 100.0 2466 100.0 24660													
B0 12350 000 79.2 1212 11.3 1207001 6.2 45076455 06371 B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 06015 B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 06363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD CO 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 13110036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 4698757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 32.9 46889599 07125 G3 6385 421 62.3 2423 62.3 242305 27.0 46986799 07125 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46488126 07139 G7 12025 408 85.5 2494 88.0 2497070 32.2 49399082 06649 G6 18462 421 46.7 2424 24.2 2424020 21.5 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H1 18591 462 100.0 2466 100.0 2466025 79.5 45526882 07366 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07366 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07366	5012	057425	202405	45	75.2	1005004	98.3	1005	. 0	100	000	1061	A8
B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 06015 B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 06363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E5 8840 000 72.9 1310 96.3 1310036 10.1 45987063 06708 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46989757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 31.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423055 31.3 46896799 07126 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06648 G5 15513 000 37.2 2429 26.1 2429075 24.3 47574079 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46896799 07126 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436025 94.2 45531435 07359 H1 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07358 H1 18591 462 100.0 2466 100.0 2466025 79.5 45526882 07368 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364							OSSE				TIA ·	/A SCO	тои
B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 06261 B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 06363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06786 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 E9 2026 000 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 31.9 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45502237 07356 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358													
B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 06363 B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 E9 2026 000 100.0 2423 100.0 2423025 33.9 46819596 07125 E9 2026 000 100.0 2423 100.0 2423025 33.9 46819596 07125 E9 2026 421 100.0 2423 100.0 2423025 33.9 46819596 07125 E9 2026 421 100.0 2423 100.0 2423025 33.9 46819596 07125 E9 2026 421 100.0 2423 100.0 2423025 33.9 46819596 07125 E9 2026 421 421 421 300.0 2423 200.0 2423025 33.9 46819596 07125 E9 2026 408 85.5 2494 88.0 2497010 32.2 49399082 06649 E6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 E7 12025 408 85.5 2494 88.0 2497010 32.2 49399082 06649 E7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 E8 19470 442 32.9 2437 32.9 2493040 22.3 47570479 06946 EN 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 EN 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07386 EN 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07386 EN 18591 462 100.0 2466 100.0 2466025 79.5 45526882 07386 EN 1889 462 100.0 2466 100.0 2466025 79.5 45526882 07386 EN 1889 462 100.0 2466 100.0 2466025 79.5 45526882 07386													
B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 06414 B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06702 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782722 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBBC QUEBBC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06694 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47949876 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07226 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07326 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07356 H3 19253 462 100.0 2466 100.0 2466025 94.2 45531435 07356 H4 11889 462 100.0 2466 100.0 2466025 94.2 45531435 07356 H4 11889 462 100.0 2466 100.0 2466025 94.2 45531435 07356													
B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 06611 B9 782 000 100.0 1215 96.4 1215002 67.1 45637082 06136 PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD C0 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 41.3 46837120 07132 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07132 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 32.2 49399082 06649 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07226 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07226 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 1889 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 74.5 455497248 07364													
PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD CO 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK EO 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G3 6385 421 62.3 2423 62.3 242305 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 4939082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07226 G9 10906 444 58.6 2436 58.6 2436025 66.2 45602237 07356 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H1 1859 462 100.0 2466 100.0 2466025 79.5 45526882 07356 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07356 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07356													
CO 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 32.2 49399082 06649 G7 12025 408 85.5 2494 88.0 2494070 32.2 49399082 06649 G7 12025 408 85.5 2494 88.0 2494070 32.2 49399082 067115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266													
CO 3064 000 88.4 1103 38.4 1103051 3.5 46393913 06328 C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 06332 NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07356 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07356 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07356				תי	פעוו∨טבו	DDTNCR_E	וות א.	D - T	T. A N	וס ד מ	ום געורו	INCE E	וסס
NEW BRUNSWICK - NOUVEAU BRUNSWICK E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 31.9 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07226 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07356 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07356 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07356	8804	063288	393913										
E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 071425 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358	4159	063324	294117	46	49.0	1102075	69.2	1102	.0	69	105	6715	C1
E0 779 000 84.0 1305 14.1 1305022 6.5 46389014 06607 E1 15877 305 59.5 1307 50.5 1307022 38.1 46522230 06501 E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 31.9 46896799 07125 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07125 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358						WICK	RUNS	VEAU	NOU	K – I	SWIC	N BRUN	NEV
E2 13036 310 70.5 1301 49.8 1301006 46.9 45830833 06599 E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06782 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 HO 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07356 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07364	6066	066076	389014	46	6.5								
E3 12573 320 51.4 1310 46.5 1310032 32.7 46438924 06707 E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553	4890	065014	522230	. 46	38.1	1307022	50.5	1307	.5	59	305	15877	E1
E4 19010 000 88.7 1307 39.2 1307016 7.9 46138331 06494 E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896797 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358								1301	.5	70	310	13036	Ε2
E5 8840 000 62.2 1305 43.6 1302026 6.6 45360280 06634 E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07359 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358													
E6 3104 000 72.9 1310 96.3 1310036 10.1 45987063 06702 E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC													
E7 9362 000 79.1 1311 47.2 1313027 17.6 46739566 06780 E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07356													
E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 06575 E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 06553 QUEBEC G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 79.5 45526882 07358													
QUEBEC GO 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07364													
G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07358 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364		065756											
G0 33748 000 86.1 2419 5.3 2425005 1.5 47310886 06987 G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 94.2 45531435 07358 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364													
G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 07125 G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	8275	069878	310886	. 47	1 5	2425005	5 3	2419	1	86	000		
G2 6660 421 100.0 2423 100.0 2423025 41.3 46837120 07133 G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364													
G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 07142 G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364		071334											
G4 7682 000 43.6 2497 36.0 2497010 32.2 49399082 06649 G5 15513 000 37.2 2429 26.1 2429075 24.3 47570479 06945 G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364													
G6 18462 421 46.7 2424 24.2 2424020 21.5 46408126 07139 G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 94.2 45531435 07359 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07364 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364		066494											
G7 12025 408 85.5 2494 88.0 2494070 35.4 48207620 07115 G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 94.2 45531435 07359 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	2730	069452	570479	47	24.3	2429075	26.1	2429	. 2	37	000	15513	G5
G8 19470 442 32.9 2437 32.9 2493040 22.3 47948976 07225 G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 94.2 45531435 07359 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	4919	071394	408126	46	21.5	2424020	24.2	2424	.7	46	421	18462	G6
G9 10906 444 58.6 2436 58.6 2436028 22.4 46593926 07266 H0 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 94.2 45531435 07359 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	2540	071152	207620	48	35.4	2494070	88.0	2494	.5	85	408	12025	G7
HO 26 462 80.8 2465 80.8 2465005 80.8 45596425 07375 H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 94.2 45531435 07359 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	3309	072253	948976	47	22.3	2493040	32.9	2437	.9	32	442	19470	G8
H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 07356 H2 12312 462 100.0 2466 100.0 2466025 94.2 45531435 07359 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	9965	072669	593926	46	22.4	2436028	58.6	2436	.6	58	444	10906	G9
H2 12312 462 100.0 2466 100.0 2466025 94.2 45531435 07359 H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	4401	073754	596425	45	80.8	2465005	80.8	2465	. 8	80	462	26	н0
H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 07358 H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	7214	073567	502237	45	66.2	2466025	0.00	2466	.0	100	462	18591	Н1
H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 07364	3846	073593	531435	45	94.2	2466025	0.00	2466	.0	100	462	12312	Н2
	1040	073581	526882	45	79.5	2466025	0.00.	2466	.0	100	462	19253	Н3
H5 184 462 100.0 2466 100.0 2466025 100.0 45505555 07356													
H7 17586 462 100.0 2465 100.0 2465005 100.0 45584462 07374													
H8 6619 462 100.0 2466 100.0 2466040 40.2 45452405 07372													
H9 11031 462 100.0 2466 100.0 2466095 17.3 45458899 07384	3107	073843	158899	45	17.3	2466095	.00.0	2466	.0	100	462	11031	Н9
J0 53471 000 80.5 2477 6.6 2477045 1.8 45911707 07390													
J1 13499 433 57.7 2443 57.3 2443025 31.4 45402097 07197													
J2 20960 450 28.0 2447 29.0 2454045 19.3 45543203 07279													
J3 19864 462 63.4 2457 35.7 2453052 16.1 45617648 07324													
J4 12772 462 100.0 2458 82.2 2458030 40.2 45520845 07347													
J5 10840 462 80.6 2460 49.7 2460028 20.8 45713608 07352													
J6 19207 462 64.9 2464 27.7 2464010 19.9 45584375 07373 J7 21611 462 98.9 2473 27.5 2474005 10.4 45612533 07390													
J8 20248 505 62.1 2481 52.1 2481015 30.1 45663266 07517													
J9 14973 000 30.0 2481 22.8 2486033 16.1 47114840 07710													

ON	TARIO									
	23077	000	63.9	3506	13.6	3506008	13.6	44884429	076631417	0
K1	20952	505	100.0	3506		3506008			075653963	1
K2	14532	505	100.0	3506	100.0				075801349	1
K4	4995	505		3506		3506008			075467527	1
K6	7214			3501		3501012			075001277	0
K7	15349	000		3510		3510010			076449034	0
K8	9938	522	50.9	3512		3547064			077325422	1
K9	9410	529	55.9	3515		3515014			078392667	1
L0	19101	000		3543		3543064			079602011	0
ПО	19101	000	33.2	3343	34.2	3343004	11.0	43037073	079002011	U
L1	24599	532	60.9	3518	95.3	3518013	26.5	43889998	078896495	1
	18189		100.0	3526		3526053			079164068	1
	23930	535	60.6	3519		3519036		43759213	079355697	1
L4		535	80.7	3519		3519028		43952919	079547401	1
	21016	535	100.0	3521		3521005			079683154	1
	24763	535	100.0	3521		3521003			079683774	1
L7		537	56.4	3524		3524002			079817659	1
L8	15006	537	100.0	3525		3525005		43234567		1
L9	19055	537	37.0	3525	36.8	3525005			079835175	1
ים	17033	551	37.0	3323	30.0	3323003	30.0	13031171	077033173	_
М1	21549	535	100.0	3520	100.0	3520005	100.0	43755928	079273864	1
M2	7057	535	100.0	3520	100.0	3520005		43775313	079374016	1
М3	6299		100.0	3520	100.0	3520005			079425542	1
M4	13567		100.0	3520					079361357	1
M5	15221		100.0	3520	100.0				079384617	1
M6	14998	535	100.0	3520	100.0				079444237	1
M7	7321	535	100.0	3520	99.9	3520005			079256491	1
M8	4765	535	100.0	3520	100.0	3520005			079507944	1
M9	11231		100.0	3520	100.0				079544313	1
1.12	11231	333	100.0	3320	100.0	3320003	100.0	13057111	075511515	_
N0	26984	000	70.5	3541	12.9	3536020	7.4	43330599	081236163	0
N1	12358	550	47.9	3523		3523008		43416650	080208927	1
N2	14488	541		3530		3530013		43512239		1
N3	14116	543	38.6	3529		3529006		43207343	080284965	1
	10680	000	27.8	3532		3532042		43568070	080797509	0
N5	13846	555	71.8	3532		3539036		42979796	081130889	1
N6	11679		100.0			3539036		42965876	081264298	1
N7	10003	562	45.3	3538	45.3	3538030		42919191	082131032	1
N8	20606	559	81.6	3537		3537039		42305006	082903203	1
N9	9387	559	87.6	3537	100.0	3537039		42226099	083007092	1
21,5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	555	07.0	555,	100.0	333.033	50.5	12220077	000007072	_
P0	14943	000	77.8	3556	12.3	3553005	7.7	47309726	082863230	0
Р1	6355	575	59.5	3548		3548044			079379444	1
P2	4586	000	100.0	3548	61.6	3548055		46532787	079974989	0
Р3	7356	580	99.1	3553		3553005	99.1	46509799		1
P4	3171	586	99.6	3556	99.8	3556027		48485322	081334694	0
Р5	2178	000	59.3	3557	41.0	3557041	40.7	47342945	082341557	0
Р6	4558	590	98.4	3557	100.0	3557061	97.0	46526814	084328802	1
Р7	8471	595	97.2	3558	100.0	3558004	92.1	48418849	089263932	1
Р8						3560027			092622560	
Р9	2297			3559		3559012			093915089	
MAI	NITOBA									
R0	27955	000	91.4	4615	9.5	4612047	2.7	50196632	098677222	0
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
R3	13724	602	99.8	4611		4611040	98.0	49869041	097178703	1
R4	685	602	89.1	4611	39.7	4613037	36.6	49933145	097326239	1
R5	681	000	78.0	4602	100.0	4602044	36.1	49611033	096727890	0
Rб	1675	000	100.0	4603	100.0	4603053	49.0	49180672	098023385	0
R7	7819		79.8			4607062			099970886	
R8				4622		4622026			099754019	
R9	1371	000	100.0	4621	100.0	4621045	82.1	53816538	101255834	0

SASKATCHEWAN SO 45480 000 93.9 4706 8.7 4714077 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 S7 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 T0 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 T9 15386 835 25.3 4811 37.4 4811016 18.6 54010457 112055117 1 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 NUNAVUT 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 YUKON

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 BASED ON SEPTEMBER 2002 PCCF

GEOGRAPHIC CODING FROM THE FIRST THREE CHARACTERS OF THE POSTAL CODE

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)

T 1=CMA/CA IS CENSUS TRACTED; 0=CMA/CA NOT TRACTED

HLTH.PCCF0209.FSAGEOG.CAN

APPENDIX H Health Regions and Health Districts

APPENDIX H1

Summary List of Health Regions, by Province and Type, Canada, June 2005

PR	Health Region Type	HRTYP	
Total			
NF	Regional Integrated Health and Authority		
PE	Health Region	HRE	4
NS	Health Zone	ZON	6
NB	Region	REG	7
QC	Région socio-sanitaire		
ON	Local Health Integration Network	LHN	14
MB	Regional Health Authority		
SK	Regional Health Authority		
	Health Authority	HAU	1
AB	Regional Health Authority		
	Health Region	HRE	3
	Health	HLT	3
BC	Health Service Delivery Area	HSD	16
	Regional Health Authority (roll-up)		
YK	Territory	TER	1
NT	Territory		
NU	Territory	TER.	1

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, June 2005

PR	Health District Type	SUBTYP	
Total			
NS	District Health Authority	DHA	9
QC	Centre local de services communautaires	CLS	174
ON	Public Health Unit (incl Toronto)	PHU	36
	Health Planning Area (Toronto only)	HPA	16
BC	Local Health Area		

For Version 4H of PCCF+, the health district codes for BC are not shown. 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.

Page 49

APPENDIX H3:

HEALTH REGIONS, CANADA, JUNE 2005 REGIONS SOCIO-SANITAIRES, CANADA, JUIN 2005

PRHR HEALTH REGION / REGION SOCIO-SANITAIRE HRTYP

	HEALIN REGION / REGION SOCIO-SANITAIRE	HRIIF
	UNDLAND / TERRE-NEUVE	
1011	EASTERN	RIH
	CENTRAL	RIH
1013	WESTERN	RIH
1014	LABRADOR-GRENFELL	RIH
	E EDWARD ISLAND / ILE DU PRINCE-EDOUARD	
	WEST PRINCE	HRE
	EAST PRINCE	HRE
	QUEENS	HRE
1104	KINGS	HRE
NOVA	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 B	RUNSWICK / NOUVEAU-BRUNSWICK	
1301	MONCTON	REG
	SAINT JOHN	REG
	FREDERICTON	REG
	EDMUNDSTON	REG
	CAMPBELLTON	REG
	BATHURST	REG
	MIRAMICHI	REG
QUEBE		200
2401	BAS-SAINT-LAURENT	RSS
2402		RSS
2403		RSS
	MAURICIE ET CENTRE DU QUEBEC	RSS
2405	ESTRIE	RSS
	MONTREAL	RSS
2407	OUTAOUAIS	RSS
2408	ABITIBI-TEMISCAMINGUE	RSS
2409	COTE-NORD	RSS
2410	NORD-DU-QUEBEC	RSS
2411	GASPESIEILES-DE-LA-MADELEINE	RSS
2412	CHAUDIERE-APPALACHES	RSS
2413	LAVAL	RSS
2414	LANAUDIERE	RSS
	LAURENTIDES	RSS
	MONTEREGIE	RSS
2417	NUNAVIK	RSS

2418 TERRES-CRIES-DE-LA-BAIE-JAME

RSS

	HEALTH REGION / REGION SOCIO-SANITAIRE	
ONTAR		
3501	EIRIE ST. CLAIR	LHN
3502	SOUTH WEST	LHN
	WATERLOO WELLINGTON	LHN
3504	HAMILTON NIAGARA HALDIMAND BRANT	LHN
3505	CENTRAL WEST	LHN
	MISSISSAUGA HALTON	LHN
3507	TORONTO	LHN
3508	CENTRAL	LHN
3509	CENTRAL EAST	LHN
3510	SOUTH EAST	LHN
3511	CHAMPLAIN	LHN
3512	NORTH SIMCOE MUSKOKA	LHN
	NORTH EAST	LHN
3514	NORTH WEST	LHN
MANIT	OBA	
4610	WINNIPEG	RHA
4615	BRANDON	RHA
4620	NORTH EASTMAN	RHA
4625	SOUTH EASTMAN	RHA
	INTERLAKE	RHA
4640	CENTRAL	RHA
4650	MARQUETTE AND SOUTH WESTMAN	RHA
4660	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
	SASKATOON	RHA
	HEARTLAND	RHA
	KELSEY TRAIL	RHA
	PRINCE ALBERT PARKLAND	RHA
	PRAIRIE NORTH	RHA
	MAMAWETAN CHURCHILL RIVER	RHA
	KEEWATIN YATTHE	RHA
4713	ATHABASCA	RHA
ALBER		
	CHINOOK	RHA
	PALLISER	HRE
	CALGARY	HRE
	DAVID THOMPSON	RHA
	EAST CENTRAL	HLT
	CAPITAL	HLT
	ASPEN DEAGE COUNTRY	RHA
	PEACE COUNTRY	HLT
4828	NORTHERN LIGHTS	HRE

PRHR	HEALTH REGION / REGION SOCIO-SANITAIRE						
BRITISH COLUMBIA / COLOMBIE-BRITANNIQUE							
591	INTERIOR	HAU					
5911	EAST KOOTENAY	HSD					
5912	KOOTENAY-BOUNDARY	HSD					
5913	OKANAGAN	HSD					
5914	THOMPSON/CARIBOO	HSD					
592	FRASER	HAU					
5921	FRASER EAST	HSD					
5922	FRASER NORTH	HSD					
5923	FRASER SOUTH	HSD					
593	VANCOUVER CENTRAL	HAU					
5931	RICHMOND	HSD					
5932	VANCOUVER	HSD					
5933	NORTH SHORE/COAST GARIBALDI	HSD					
594	VANCOUVER ISLAND	HAU					
5941	SOUTH VANCOUVER ISLAND	HSD					
5942	CENTRAL VANCOUVER ISLAND	HSD					
5943	NORTH VANCOUVER ISLAND	HSD					
595	NORTHERN	HAU					
	NORTHWEST	HSD					
5952	NORTHERN INTERIOR	HSD					
5953	NORTHEAST	HSD					
	TORIES / TERRITOIRES						
	YUKON	TER					
	NORTHWEST	TER					
6102	NUNAVUT	TER					

FILE=HRNAM05.CAN

APPENDIX H4: HEALTH DISTRICTS, CANADA, JUNE 2005 DISTRICTS SOCIO-SANITAIRES, CANADA, JUIN 2005

	B NAME / NOM	SUBTYP	POP2001				
NOVA SCOTIA / NOUVELLE-ÉCOSSE							
	BRIDGEWATER	DHA	59314				
12012	VARMOTITH	DHA					
12023	KENTVILLE	DHA	80639				
12034	TRURO		69946				
	AMHERST		32605				
			46965				
12047	NEW GLASGOW ANTIGONISH	DHA					
12058	CAPE BRETON	DHA	129705				
	HALIFAX	DHA	379057				
QUEBEC							
	RIMOUSKI-NEIGETTE	CLS					
	LA MITIS	CLS					
2401103		CLS					
	LA MATAPEDIA	CLS					
	LES BASQUES	CLS					
2401302	SAINT-ELEUTHERE	CLS					
2401303	RIVIERE-DU-LOUP	CLS	31826				
2401304	KAMOURASKA	CLS					
2401305	CABANO	CLS	15529				
2402101		CLS	23916				
2402102	SAGUENAY	CLS					
2402103	JONQUIERE	CLS	65694				
	CHICOUTIMI	CLS					
2402202	DOMAINE-DU-ROY	CLS	32839				
2402203	MARIA-CHAPDELAINE	CLS					
2402204	LAC-SAINT-JEAN-EST	CLS	51760				
2403000	PORTNEUF	CLS	44955				
2403101	LAURENTIEN	CLS	58518				
2403102	SAINTE-FOY - SILLERY	CLS	71294				
2403201	QUEBEC-HAUTE-VILLE	CLS					
2403202	QUEBEC-BASSE-VILLE	CLS	25666				
2403203	LIMOILOU-VANIER	CLS	57491				
2403204	DUBERGER-LES SAULES-LEBOURGNEUF	CLS	37943				
2403300	LORETTEVILLE - VAL-BELAIR	CLS	81932				
2403401	BEAUPORT	CLS					
2403402	ORLEANS	CLS	27763				
2403500	CHARLESBOURG	CLS	90454				
2403701	CHARLEVOIX-EST	CLS	16624				
2403702	CHARLEVOIX-OUEST	CLS	13166				
2404401	HAUT-SAINT-MAURICE	CLS	15862				
2404402	MEKINAC	CLS	12809				
	CENTRE-DE-LA-MAURICIE	CLS	64841				
	MASKINONGE	CLS	23401				
	TROIS-RIVIERES	CLS	80286				
	DES CHENAUX	CLS	12127				
	CAP-DE-LA-MADELEINE	CLS	45942				
	NICOLET-YAMASKA	CLS	23496				
	BECANCOUR	CLS	19088				
	DRUMMOND	CLS	87808				
	ARTHABASKA	CLS	64089				
	DE L'ERABLE	CLS	24021				
2405101		CLS	21830				
2100101	OLGILLI I	CID	21000				

2405102	ASBESTOS	CLS	14535
	HAUT-SAINT-FRANCOIS	CLS	21394
2405104	VAL SAINT-FRANCOIS	CLS	28176
2405105	COATICOOK	CLS	16595
2405106	MEMPHREMAGOG	CLS	41871
2405107	FLEURIMONT-LENNOXVILLE	CLS	53720
2405108	SHERBROOKE	CLS	87492
2406101	LAC SAINT-LOUIS	CLS	78875
2406103	PIERREFONDS	CLS	77744
2406104	DOLLARD-DES-ORMEAUX	CLS	48206
2406105	LACHINE	CLS	57928
2406201	POINTE-SAINT-CHARLES	CLS	13210
2406202	VERDUN	CLS	60564
2406204	SAINT-PAUL	CLS	30242
2406206	LASALLE	CLS	73983
2406301	RIVIERE-DES-PRAIRIES	CLS	52939
2406302	POINTE-AUX-TREMBLES	CLS	53065
2406303	MERCIER-EST	CLS	41344
2406304	MERCIER-OUEST	CLS	41256
2406305	HOCHELAGA-MAISONNEUVE	CLS	48379
	ROSEMONT	CLS	79512
2406308		CLS	38015
	SAINT-LEONARD	CLS	69604
	COTE-DES-NEIGES	CLS	52624
	SNOWDON	CLS	33872
	COTE-SAINT-LUC	CLS	47760
	MONT-ROYAL	CLS	43898
	NOTRE-DAME DE GRACE - MONTREAL-OUEST	CLS	69847
2406503		CLS	57701
	SAINT-LOUIS DU PARC	CLS	39169
	SAINT-HENRI	CLS	25672
	MONTREAL-NORD	CLS	83600
	SAINT-MICHEL	CLS	54984
	AHUNTSIC	CLS	77864
	BORDEAUX-CARTIERVILLE	CLS	51543
	SAINT-LAURENT	CLS	73129
	MONTREAL-CENTRE-SUD	CLS	36314
	PLATEAU MONT-ROYAL	CLS	51461
	PARC-EXTENSION	CLS	31399
	MONTREAL-CENTRE-VILLE	CLS	9044
	VILLERAY	CLS	61114
	PETITE PATRIE	CLS	46862
2400707		CLS	66246
2407202		CLS	36085
	GATINEAU PONTIAC	CLS	102898
		CLS	19208
	LES COLLINES-DE-L'OUTAOUAIS	CLS	25909
	DES FORESTIERS	CLS	18730
	VALLEE-DE-LA-LIEVRE	CLS	31428
	PETITE-NATION	CLS	15042
	TEMISCAMING	CLS	3666
	VILLE-MARIE	CLS	13838
	ROUYN-NORANDA	CLS	39621
	ABITIBI-OUEST	CLS	21984
	ABITIBI	CLS	24613
	VALLEE-DE-L'OR	CLS	42375
	LES ESCOUMINS	CLS	5982
	FORESTVILLE	CLS	6912
	MANICOUAGAN	CLS	33620
24U91U5	PORT-CARTIER	CLS	7809

2409106	SEPT-ILES	CLS	26952
2409107	CANIAPISCAU	CLS	3630
2409109	MINGANIE	CLS	6714
2409110	BASSE COTE-NORD	CLS	5607
2409112	TERRITOIRE NASKAPI	CLS	540
2410101	CHIBOUGAMAU/CHAPAIS	CLS	9717
2410102	LEBEL-SUR-QUEVILLON	CLS	3282
2410103	MATAGAMI	CLS	1939
2410104	BAIE-JAMES	CLS	1376
2411201	BONAVENTURE	CLS	18267
2411203	PABOK	CLS	17964
2411204	GASPE	CLS	16266
	GRANDE-VALLEE	CLS	2867
2411206	ILES-DE-LA-MADELEINE	CLS	12824
2411207	MURDOCHVILLE	CLS	1171
2411208	DENIS-RIVERIN	CLS	12297
2411209	AVIGNON	CLS	15268
2412101	LAC ETCHEMIN	CLS	17745
2412102	LA NOUVELLE-BEAUCE	CLS	25850
2412103	BEAUCE-SARTIGAN	CLS	47873
2412104	ROBERT-CLICHE	CLS	18771
2412105	L'AMIANTE	CLS	43247
2412401	DESJARDINS	CLS	51855
2412402	CHAUDIERE	CLS	78808
2412403	BELLECHASSE	CLS	29570
2412404	LOTBINIERE	CLS	26851
2412702	L'ISLET	CLS	19368
2412704	MONTMAGNY	CLS	23438
2413801	DUVERNAY	CLS	51092
2413803	CHOMEDEY	CLS	101084
2413805	PONT-VIAU	CLS	84868
2413807	SAINTE-ROSE-DE-LAVAL	CLS	105961
2414201	D'AUTRAY	CLS	40330
2414202	MATAWINIE	CLS	41194
2414203	JOLIETTE	CLS	54167
2414204	MONTCALM	CLS	38740
2414205	LES MOULINS	CLS	110087
2414206	L'ASSOMPTION	CLS	103977
2415101	DEUX-MONTAGNES - MIRABEL	CLS	92173
2415102	THERESE-DE-BLAINVILLE	CLS	130514
2415103	ANTOINE-LABELLE	CLS	33456
2415104	RIVIERE-DU-NORD - MIRABEL	CLS	106993
2415105	LES PAYS-D'EN-HAUT	CLS	30866
2415106	LES LAURENTIDES	CLS	38433
2415107	ARGENTEUIL	CLS	28931
2416001	VAUDREUIL-SOULANGES	CLS	102100
2416002	HAUT-SAINT-LAURENT	CLS	21851
2416003	VALLEYFIELD-BEAUHARNOIS	CLS	54253
2416004	CHATEAUGUAY-MERCIER	CLS	60078
2416005	LES JARDINS DE NAPIERVILLE	CLS	22820
2416006	SAINT CONSTANT - LA PRAIRIE	CLS	82978
2416007	BROSSARD - SAINT-LAMBERT	CLS	107910
2416008	LONGUEUIL-OUEST	CLS	64124
2416009	LONGUEUIL-EST	CLS	63892
2416010	ST-HUBERT	CLS	75912
2416011	LAJEMMERAIS	CLS	100263
2416012	SAINT-JEAN-SUR-RICHELIEU - SAINT-LUC	CLS	99474
2416013	SAINT-BRUNO - BELOEIL - SAINT-HILAIRE	CLS	93736
2416014	CHAMBLY-CARIGNAN-MARIEVILLE	CLS	51380
2416015	BAS RICHELIEU	CLS	50066

2416016 LES MASKOUTAINS		CLS	78917	
2416017 COWANSVILLE-FARNHAM-BEDF	ORD	CLS	49438	
2416018 GRANBY-SHEFFORD-BROMONT		CLS	82038	
2416019 ACTON		CLS	15167	
2417101 BAIE D'HUDSON		CLS	5326	
2417102 UNGAVA		CLS	4306	
2418101 TERRITOIRE CRI		CLS	12629	
ONTENDE O				
ONTARIO			DIIII	117105
3526 ALGOMA 3527 BRANT			PHU	117185
3530 DURHAM			PHU PHU	118580 506901
3531 ELGIN-ST THOMAS			PHU	81553
3533 GREY BRUCE			PHU	152965
3534 HALDIMAND-NORFOLK			PHU	104575
3535 HALIBURTON-KAWARTHA-PINE RI	DGE		PHU	161761
3536 HALTON			PHU	375229
3537 HAMILTON			PHU	490268
3538 HASTINGS-PRINCE EDWARD			PHU	150816
3539 HURON			PHU	59701
3540 CHATHAM-KENT			PHU	107709
3541 KINGSTON-FRONTENAC-LENNOX-A	DDINGTON		PHU	178067
3542 LAMBTON			PHU	126971
3543 LEEDS-GRENVILLE-LANARK			PHU	159101
3544 MIDDLESEX-LONDON			PHU	403185
3546 NIAGARA			PHU	410574
3547 NORTH BAY - PARRY SOUND			PHU	1200353
3549 NORTHWESTERN			PHU	77823
3551 OTTAWA			PHU	774072
3552 OXFORD 3553 PEEL			PHU	99270 988948
3554 PERTH			PHU PHU	73675
3555 PETERBOROUGH			PHU	125856
3556 PORCUPINE			PHU	88205
3557 RENFREW			PHU	96467
3558 EASTERN ONTARIO			PHU	185968
3560 SIMCOE - MUSKOKA			PHU	430156
3561 SUDBURY			PHU	190841
3562 THUNDER BAY			PHU	155462
3563 TIMISKAMING			PHU	35245
3565 WATERLOO			PHU	438515
3566 WELLINGTON-DUFFERIN-GUELPH				238326
3568 WINDSOR-ESSEX			PHU	374975
3570 YORK			PHU	729254
3595 TORONTO			PHU	2481494
	AREA 1A		HPA	
3595B TORONTO WEST	AREA 1B		HPA	
3595C TORONTO CENTRAL WEST	AREA 2A		HPA	
	AREA 2B AREA 2C		HPA	
	AREA 2D		HPA HPA	
	AREA 3A		HPA	
3595H TORONTO CENTRAL EAST	AREA 3B		HPA	
35951 TORONTO CENTRAL EAST	AREA 3C		HPA	
	AREA 4A		HPA	
3595K TORONTO CENTRAL SOUTH			HPA	
	AREA 5A		HPA	
	AREA 5B		HPA	
	AREA 5C		HPA	
35950 TORONTO EAST	AREA 5D		HPA	

PRHR	SUB	NAME / NOM	SUBTYP
BRIT	ISH (COLUMBIA / COLOMBIE-BRITANNIQUE	
5901	010	FERNIE	LHA
5901	020	CRANBROOK	LHA
5901	030	KIMBERLEY	LHA
5901	040	WINDERMERE	LHA
5901	050	CRESTON	LHA
5901	180	GOLDEN	LHA
5902	060	KOOTENAY LAKE	LHA
5902	070	NELSON	LHA
5902	090	CASTLEGAR	LHA
5902	100	ARROW LAKES	LHA
5902	110	TRAIL	LHA
5902	120	GRAND FORKS	LHA
5902	130	KETTLE VALLEY	LHA
5903	190	REVELSTOKE	LHA
5903	200	SALMON ARM	LHA
5903	210	ARMSTRONG-SPALLUMCHEEN	LHA
5903	220	VERNON	LHA
5903	780	ENDERBY	LHA
5904	140	SOUTHERN OKANAGAN	LHA
5904	150	PENTICTON	LHA
5904	160	KEREMEOS	LHA
5904	170	PRINCETON	LHA
5904	230	CENTRAL OKANAGAN	LHA
5904	770	SUMMERLAND	LHA
		KAMLOOPS	LHA
5905	260	NORTH THOMPSON	LHA
5905	290	LILLOOET	LHA
5905	300	SOUTH CARIBOU	LHA
5905	310	MERRITT	LHA
5906	320	HOPE	LHA
5906	330	CHILLIWACK	LHA
5906	340	ABBOTSFORD	LHA
5906	750	MISSION	LHA
5906	760	AGASSIZ-HARRISON	LHA
		LANGLEY	LHA
		SURREY	LHA
5907	370	DELTA	LHA
		NEW WESTMINSTER	LHA
		MAPLE RIDGE	LHA
		COQUITLAM	LHA
		SUNSHINE COAST	LHA
		POWELL RIVER	LHA
		HOWE SOUND	LHA
		COWICHAN	LHA
		LAKE COWICHAN	LHA
		LADYSMITH	LHA
		NANAIMO	LHA
		OUALICUM	LHA
		ALBERNI	LHA
2210	, 50	***********	41147

PRHR	SUB	NAME / NOM	SUBTYP
		COURTENAY	LHA
5911	720	CAMPBELL RIVER	LHA
5911	830	CENTRAL COAST	LHA
5911	840	VANCOUVER ISLAND WEST	LHA
5911	850	VANCOUVER ISLAND NORTH	LHA
5912	250	100 MILE HOUSE	LHA
5912	270	CARIBOU-CHILCOTIN	LHA
5912	280	QUESNEL	LHA
5912	490	BELLA COOLA VALLEY	LHA
5913	500	QUEEN CHARLOTTE	LHA
5913	510	SNOW COUNTRY	LHA
5913	520	PRINCE RUPERT	LHA
5913	530	UPPER SKEENA	LHA
5913	540	SMITHERS	LHA
5913	800	KITIMAT	LHA
5913	870	STIKINE	LHA
5913	880	TERRACE	LHA
5913	920	NISGA'A	LHA
5913	940	TELEGRAPH CREEK	LHA
5914	590	PEACE RIVER SOUTH	LHA
5914	600	PEACE RIVER NORTH	LHA
5914	810	FORT NELSON	LHA
5915	550	BURNS LAKE	LHA
5915	560	NECHAKO	LHA
5915	570	PRINCE GEORGE	LHA
5916	390	VANCOUVER	LHA
5916	161	CITY CENTRE VANCOUVER	LHA
5916	162	DOWNTOWN EAST SIDE VANCOUVER	LHA
5916	163	NORTH EAST VANCOUVER	LHA
5916	164	WEST SIDE VANCOUVER	LHA
5916	165	MIDTOWN VANCOUVER	LHA
5916	166	SOUTH VANCOUVER	LHA
5917	410	BURNABY	LHA
5918	440	NORTH VANCOUVER	LHA
5918	450	WEST VANCOUVER-BOWEN ISLAND	LHA
5919	380	RICHMOND	LHA
5920	610	GREATER VICTORIA	LHA
5920	620	SOOKE	LHA
5920	630	SAANICH	LHA
		GULF ISLANDS	LHA

FILE=H:\GTF2001\hr200506\SUBNAM05.CAN + THDIST2.COD

APPENDIX J Census divisions, 2001

The numeric code and corresponding census division name, including descriptive names for otherwise unnamed CDs.

The numeric code and corresponding census division name, including descriptive names for otherwise unnamed CDs.						
PRCD	TYP	CDname	2417	MRC	L'Islet	
1001	DIV	Avalon Peninsula	2418	MRC	Montmagny	
1002	DIV	Burin Peninsula	2419	MRC	Bellechasse	
1003	DIV	South Coast	2420	MRC	L'Île-d'Orléans	
1004	DIV	Stephenville	2421	MRC	La Côte-de-Beaupré	
1005	DIV	Corner Brook	2422	MRC	La Jacques-Cartier	
1006	DIV	Central Newfoundland	2423	CU	Québec	
1007	DIV	Bonavista Bay	2424	MRC	Desjardins	
1008	DIV	Notre Dame Bay	2425	MRC	Les Chutes-de-la-Chaudière	
1009	DIV	Northern Peninsula	2426	MRC	La Nouvelle-Beauce	
1010	DIV	Labrador	2427	MRC	Robert-Cliche	
			2428	MRC	Les Etchemins	
1101	CTY	Kings	2429	MRC	Beauce-Sartigan	
1102	CTY	Queens	2430	MRC	Le Granit	
1103	CTY	Prince	2431	MRC	L'Amiante	
			2432	MRC	L'Érable	
1201	CTY	Shelburne	2433	MRC	Lotbinière	
1202	CTY	Yarmouth	2434	MRC	Portneuf	
1203	CTY	Digby	2435	MRC	Mékinac	
1204	CTY	Queens			Le Centre-de-la-Mauricie	
1205	CTY	Annapolis	2437	MRC	Francheville	
1206	CTY	Lunenburg	2438	MRC	Bécancour	
1207	CTY	Kings	2439	MRC	Arthabaska	
1208	CTY	Hants	2440	MRC	Asbestos	
1209	CTY	Halifax	2441	MRC	Le Haut-Saint-François	
1210	CTY	Colchester	2442	MRC	Le Val-Saint-François	
1211	CTY	Cumberland	2443	MRC	La Région-Sherbrookoise	
1212	CTY	Pictou	2444	MRC	Coaticook	
1213	CTY	Guysborough	2445	MRC	Memphrémagog	
1214	CTY	Antigonish	2446	MRC	Brome-Missisquoi	
1215	CTY	Inverness	2447	MRC	La Haute-Yamaska	
1216	CTY	Richmond	2448	MRC	Acton	
1217	CTY	Cape Breton	2449	MRC	Drummond	
		Victoria			Nicolet-Yamaska	
					Maskinongé	
1301	CTY	Saint John			D'Autray	
		Charlotte			Le Bas-Richelieu	
		Sunbury			Les Maskoutains	
		Queens			Rouville	
		Kings			Le Haut-Richelieu	
		Albert			La Vallée-du-Richelieu	
		Westmorland			Champlain	
		Kent			Lajemmerais	
		Northumberland			L'Assomption	
		York			Joliette	
		Carleton			Matawinie	
		Victoria			Montcalm	
		Madawaska			Les Moulins	
		Restigouche	0465		Laval	
		Gloucester			Montréal	
1313	CII	dioacestei			Roussillon	
2401	MDC	Les Îles-de-la-Madeleine			Les Jardins-de-Napierville	
		Le Rocher-Percé			Le Haut-Saint-Laurent	
		La Côte-de-Gaspé			Beauharnois-Salaberry	
		La Haute-Gaspésie			Vaudreuil-Soulanges	
		Bonaventure			Deux-Montagnes	
					-	
		Avignon La Matapédia			Thérèse-De Blainville Mirabel	
		-				
		Matane			La Rivière-du-Nord	
		La Mitis			Argenteuil	
		Rimouski-Neigette			Les Pays-d'en-Haut	
		Les Basques			Les Laurentides	
		Rivière-du-Loup			Antoine-Labelle	
		Témiscouata			Papineau	
		Kamouraska			Outaouais	
		Charlevoix-Est			Les Collines-de-l'Outaouais	
∠4⊥6	MRC	Charlevoix	∠483	MRC	La Vallée-de-la-Gatineau	

2484 MRC Pontiac	4605 DIV Turtle Mountain
2485 MRC Témiscamingue	4606 DIV Wallace
2486 MRC Rouyn-Noranda	4607 DIV Brandon
2487 MRC Abitibi-Ouest	4608 DIV Swift Current
2488 MRC Abitibi	4609 DIV Portage la Prairie
2489 MRC Vallée-de-l'Or	4610 DIV Macdonald-Cartier
2490 MRC Le Haut-Saint-Maurice	4611 DIV Winnipeg
2491 MRC Le Domaine-du-Roy	4612 DIV Springfield-Broken Head
2492 MRC Maria-Chapdelaine	4613 DIV St Andrews
2493 MRC Lac-Saint-Jean-Est	4614 DIV Rookwood-Woodlands
2494 MRC Le Fjord-du-Saguenay	4615 DIV Langford-Minto
2495 MRC La Haute-Côte-Nord	4616 DIV Lake of the Prairies
2496 MRC Manicouagan	4617 DIV Dauphin
2497 DIV Sept-RivièresCaniapiscau 2498 DIV MinganieBasse-Côte-Nord	4618 DIV Interlake South-Gimli 4619 DIV Lake Winnipeg-Winnipegosis
2499 DIV MinganieBasse-Cote-Nord 2499 DIV Nord-du-Québec	4619 DIV Lake Willipeg-Willipegosis 4620 DIV Swan River
2499 DIV NOIG GU-QUEDEC	4621 DIV Moose Lake
3501 UC Stormont, Dundas and Glengarry	4622 DIV Thompson
3502 UC Prescott and Russell	4623 DIV Hudson Bay
3506 DIV Ottawa	4701 DIV Estevan
3507 UC Leeds and Grenville	4702 DIV Weyburn
3509 CTY Lanark	4703 DIV Lake of the Rivers
3510 CTY Frontenac	4704 DIV Maple Creek
3511 CTY Lennox and Addington	4705 DIV Melville
3512 CTY Hastings	4706 DIV Regina
3513 DIV Prince Edward	4707 DIV Moose Jaw
3514 CTY Northumberland	4708 DIV Swift Current
3515 CTY Peterborough	4709 DIV Yorkton
3516 DIV Kawartha Lakes	4710 DIV Big Quill-Foam Lake-Kutawa
3518 RM Durham	4711 DIV Saskatoon
3519 RM York	4712 DIV Battleford-Biggar-Vanscoy
3520 DIV Toronto	4713 DIV Kindersley-Unity
3521 RM Peel	4714 DIV Star City-Nipawin-Hudson Bay 4715 DIV Prince Albert
3522 CTY Dufferin 3523 CTY Wellington	4716 DIV Prince Albert 4716 DIV North Battleford
3524 RM Halton	4716 DIV NORTH Battleford 4717 DIV Lloydminster-Meadow Lake
3525 DIV Hamilton	4717 DIV Bioyaminster-Meadow Bake 4718 DIV Northern Saskatchewan
3526 RM Niagara	1710 BIV Notelieth Babhacenewan
3528 RM Haldimand-Norfolk	4801 DIV Medicine Hat
3529 CTY Brant	4802 DIV Lethbridge
3530 RM Waterloo	4803 DIV Southwest (Cardston-Willow/Pincher)
3531 CTY Perth	4804 DIV Hanna-Oyen-Consort
3532 CTY Oxford	4805 DIV Drumheller
3534 CTY Elgin	4806 DIV Calgary
3536 DIV Chatham-Kent	4807 DIV Stettler-Wainwright
3537 CTY Essex	4808 DIV Red Deer
3538 CTY Lambton	4809 DIV Rocky Mountain House
3539 CTY Middlesex	4810 DIV Camrose-Vermillion River-Lloydminster
3540 CTY Huron 3541 CTY Bruce	4811 DIV Edmonton 4812 DIV Cold Lake
3542 CTY Grev	4813 DIV Woodlands
3542 CTI Gley 3543 CTY Simcoe	4814 DIV Yellowhead
3544 DM Muskoka	4815 DIV Jasper-Banff
3546 CTY Haliburton	4816 DIV Wood Buffalo
3547 CTY Renfrew	4817 DIV Peace River
3548 DIS Nipissing	4818 DIV Greenview
3549 DIS Parry Sound	4819 DIV Grande Prairie
3551 DIS Manitoulin	
3552 DIS Sudbury District	5901 RD East Kootenay
3553 DIV Greater Sudbury	5903 RD Central Kootenay
3554 DIS Timiskaming	5905 RD Kootenay Boundary
3556 DIS Cochrane	5907 RD Okanagan-Similkameen
3557 DIS Algoma	5909 RD Fraser Valley
3558 DIS Thunder Bay	5915 RD Greater Vancouver
3559 DIS Rainy River 3560 DIS Kenora	5917 RD Capital
2200 DID VEHOLG	5919 RD Cowichan Valley 5921 RD Nanaimo
4601 DIV Lac du Bonnet-Alexander	5921 RD Nanaimo 5923 RD Alberni-Clayoquot
4602 DIV Lac du Bonnet-Alexander 4602 DIV Hanover	5925 RD Comox-Strathcona
4603 DIV Stanley	5927 RD Powell River
4604 DIV Lorne-Pembina	
4004 DIV HOINE-FEMDINA	5929 RD Sunshine Coast

5931 RD	Squamish-Lillooet	5955	RD	Peace River
5933 RD	Thompson-Nicola	5957	REG	Stikine
5935 RD	Central Okanagan	5959	RD	Northern Rockies
5937 RD	North Okanagan			
5939 RD	Columbia-Shuswap	6001	TER	Yukon
5941 RD	Cariboo			
5943 RD	Mount Waddington	6106	REG	Fort Smith
5945 RD	Central Coast	6107	REG	Inuvik
5947 RD	Skeena-Queen Charlotte			
5949 RD	Kitimat-Stikine	6204	REG	Baffin
5951 RD	Bulkley-Nechako	6205	REG	Keewatin
5953 RD	Fraser-Fort George	6208	REG	Kitikmeot

APPENDIX K Economic regions and 2001 populations

משמת	ERNAME	ERPOP01
	Avalon Peninsula	242875
	South Coast - Burin Peninsula	43741
	West Coast - Northern Peninsula - Labrador	
	Notre Dame - Central Bonavista Bay	115731
1010	Notic bame central bonavista bay	113731
1110	Prince Edward Island	135294
	Cape Breton	147454
	North Shore	158282
	Annapolis Valley	121152
	Southern	121936
1250	Halifax	359183
	Campbellton - Miramichi	169880
	Moncton - Richibucto	182820
	Saint John - St. Stephen	167981
	Fredericton - Oromocto	124850
1350	Edmundston - Woodstock	83967
2410	Gaspésie - Îles-de-la-Madeleine	96924
	Bas-Saint-Laurent	200630
	Capitale-Nationale	638917
	Chaudière - Appalaches	383376
	Estrie	285613
	Centre-du-Québec	218502
	Montérégie	1276397
	Montréal	1812723
	Laval	343005
	Lanaudière Laurentides	388495 461366
	Outaouais	315546
	Abitibi - Témiscamingue	146097
	Mauricie	255268
	Saguenay - Lac-Saint-Jean	278279
	Côte-Nord	97766
	Nord-du-Québec	38575
3510	Ottawa	1119141
	Kingston - Pembroke	424021
	Muskoka - Kawarthas	340723
3530	Toronto	4930990
3540	Kitchener - Waterloo - Barrie	1053891
3550	Hamilton - Niagara Peninsula	1274833
	London	584008
	Windsor - Sarnia	609655
	Stratford - Bruce Peninsula	286341
	Northeast	551672
3595	Northwest	234771
	Southeast	86552
	South Central	52126
	Southwest	103020
	North Central	47389
	Winnipeg	621451
	Interlake	82365
	Parklands	44253
4680	North	82427
	Regina - Moose Mountain	271123
	Swift Current - Moose Jaw	104255
	Saskatoon - Biggar	285380
	Yorkton - Melville	88752
	Prince Albert Northern	197394
4/60	NOTCHETH	32029

PRER	ERNAME	ERPOP01
4810	Lethbridge - Medicine Hat	238895
4820	Camrose - Drumheller	182374
4830	Calgary	1021060
4840	Banff - Jasper - Rocky Mountain House	80512
4850	Red Deer	153049
4860	Edmonton	975477
4870	Athabasca - Grande Prairie - Peace River	222107
4880	Wood Buffalo - Cold Lake	101333
5910	Vancouver Island and Coast	687901
5920	Lower Mainland - Southwest	2283125
5930	Thompson - Okanagan	465042
5940	Kootenay	145153
5950	Cariboo	160976
5960	North Coast	62569
5970	Nechako	42172
5980	Northeast	60800
6010	Yukon	28674
6110	Northwest Territories	37360
6210	Nunavut	26745

 $\begin{array}{lll} \textbf{APPENDIX L} & \textbf{Census agricultural regions, 2001} \\ \textbf{including unofficial descriptive names for otherwise unnamed regions} \end{array}$

		ARNAME			ARNAME
		Southeastern			Estevan
		Central			Elcapo-Moosomin
10	03	Western and Labrador			Weyburn
					Regina-Moose Jaw
		Eastern			Gravelbourg-Enfield (3AN)
		Central			Lake of the Rivers-Laurier-Hart Butte (3AS)
11	03	Western			Swift Current (3BN)
					Grassy Creek (3BS)
		Southwestern			Maple Creek-White Valley
		Annapolis Valley			Gull Lake-Happyland
		Central			Yorkton
		Eastern			Cote-Good Lake-Preeceville
12	05	Cape Breton			Lumsden
					Saskatoon
		Northwestern - Nord-Ouest			Kindersley-St Andrews
		Southwestern - Sud-Ouest			Biggar-Round Valley
		Southeastern - Sud-Est			Star City-Nipawin-Hudson Bay
13	04	Northeastern - Nord-Est	47	8B	Humbolt
			47	9A	Prince Albert-North Battleford
24	01	Bas-Saint-Laurent	47	9В	Britannia-Meadow Lake-Battle River
24	02	SaguenayLac-Saint-Jean/Côte-Nord	47	00	Northern Saskatchewan
24	03	Québec			
24	04	Maurice	48	01	Medicine Hat-Hanna
24	05	Estrie	48	02	Lethbridge-Drumheller
24	06	Montréal/Laval	48	03	Calgary-Foothills
24	07	Lanaudière	48	4A	Stettler-Wainwritht
24	08	Outaouais	48	4B	Camrose-Vermillion River-Lloydminster
24	09	Laurentides			Edmonton-Red Deer-Rocky Mountain House
24	10	Abitibi-Témiscamingue/Nord-du-Québec			Yellowhead-Woodlands-Cold Lake-Wood Buffalo
		GaspésieÎles-d-la-Madeleine	48	07	Peace River-Grande Prairie
24	12	Chaudière-Appalaches			
		Montérégie	59	01	Vancouver Island-Coast
		Centre-du-Québec			Lower Mainland-Southwest
					Thompson-Okanagan
35	01	Southern Ontario - Sud de l'Ontario			Kootenay
					Cariboo
					North Coast
					Nechako
					Peace River
55	03	Notelieth offeatio Note de 1 offeatio	55	00	reace River
46	0.1	Southwestern	60	٥٥	Yukon
		Brandon-Wallace	00	00	Tukon
		Neepawa-Minnedosa-Shoal Lake	61	00	Northwest Territories
		Lake of the Prairies	01	00	NOICHWEST TELLICOTIES
		Swan River	62	00	Nunavut
		Dauphin	02	00	Nullavut
		Centre-West			
		Centre Fact			
		Centre-East			
		Southeastern			
		Centre-North			
40	12	Northern			

APPENDIX M SUPPLEMENTARY PROGRAM DIST4X.SAS

DIST4x. 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 4x. 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 N SUPPLEMENTARY PROGRAM EXPLOD<mark>E2.</mark>SAS

EXPLODE 2. 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 O 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).