FILE EAY81B20

ZONED / NON - CONDENSEE

### **TABLE OF CONTENTS**

### Introduction

### Part 1

Section 1Figures Information

Section 2 General File Information

Section 3 PL/I Declaration Statement

Section 4 Detailed Record Layout

### Part 2

Section A File Content

Section B File Sequence and Geographic Definitions

- 1) Sequence of 1981 Census User Summary Tape Files
- 2) Geographic Definitions

Section C Geographic Organization

Section D Supplementary Information

- Confidentiality and Random Rounding
- Sampling and weighting
- Data Quality Geographic Reference Products
- Reference Products

Section E Special Notes

### INTRODUCTION

### DOCUMENTATION FOR CENSUS DATA ON MAGNETIC TAPE

This documentation is divided into two parts.

Part 1 is available for any tape file produced from the census micro-data base using the STATPAK retrieval system.

Part 2 is available only with census User Summary Tape files and special requests on tape produced by the Customer Services Section.

### Part 1

### Introduction

In the following documentation each tabulation is referred to as a data matrix. Each characteristic or variable such as age, sex, etc., is referred to as a dimension or subscript. Each dimension is associated with multiple entries; for example, the dimension sex could be associated with entries male, female, total.

### Part 1 consists of four sections

### Section 1 shows:

- that each data matrix has a title associated with a matrix name. The latter is a mnemonic code up to eight characters long. The documentation usually refers to a tabulation by its mnemonic code;
- the total number of data cells in a matrix;
- the largest absolute value of any cell in the matrix which may be used for data validation and programming purposes.

### Please Note:

The cells contain either integer or decimal digits with decimal point which is implied.

If overflows are encountered, the overflow messages appear in the first section and when the program interrupts, the other sections may be either partially or not at all printed.

### Section 2 shows:

- the general file information enabling computer usage of the file.

Where necessary a matrix may be written out on more than one logical record. In that case, the dimension(s) (variable(s)) on which the matrix is split is (are) identified as well as the order in which the matrix is actually written out on magnetic tape.

### Section 3 contains:

- a PL/1 declaration statement - this statement should be of special interest to users who wish to understand how a multi-dimension matrix (e.g., age by sex by marital status is a three dimensional matrix) is laid out as a linear sequential record on magnetic tape.

Each logical record starts with a 52-character geographic identification (see Section B). In the case of a matrix that is split and thus written over multiple records on tape, it is followed by sub-matrix identification(s), matrix name and matrix size. Then come the entries for each dimension (subscript) of the matrix.

### Section 4 contains:

- a detailed record layout of the file;
- the identification part which is the same as on the PL/1 declaration statement (see Section 3);
- the content of each cell or field associated with the matrix name to which it belongs, the format, the first and last positions of each field in the record, the number of bytes (1 byte = 8 bits = 1 or 2 digits or 1 character depending on the format), the precision or number of digits stored and the scale where applicable, which gives the number of decimal places. (Note: The decimal point is implied not written on tape.)

### Part 2

### Section A contains:

- the table titles;
- the legends (entries or class intervals associated with each variable, e.g., sex (3): male, female, total).

Note:

This section is available only with the census User Summary Tape documentation.

### Section B contains:

- the file sequence and the complete definitions of the geographic area codes which exist on the file.

### Section C contains:

- the geographic organization of the User Summary Tape files and microfiche for each series produced for the 1981 Census.

### Section D contains:

- a brief description of the statistical and confidentiality methodology used during the process of retrieval of data from the census micro-data base;
- a list of reference manuals which provide more detailed information on some of the topics briefly described in this documentation.

For further information, please contact:

CANSIM DIVISION Statistics Canada Ottawa, K1A 0Z8 Tel.: (613) 995-0097 995-7406

### Special Note: Positive or negative sign

If the character mode is packed, the last four (4) bits of the last byte of a data cell contain the sign.

If the character mode is numeric (external), the complete first byte of a data cell contains the sign.

### Section E contains:

 information on any peculiarities related to geography or variables that are essential to the interpretation of data.

### SECTION 1

### FIGURES INFORMATION

| File Name:       | EAY81B20 |             |  |  |  |  |  |  |
|------------------|----------|-------------|--|--|--|--|--|--|
| <del></del>      |          |             |  |  |  |  |  |  |
| Largest Absolute | . Value  | 169,187,680 |  |  |  |  |  |  |

### SECTION 2

### GENERAL FILE INFORMATION

| Format: ZONED                       |     |        |   |
|-------------------------------------|-----|--------|---|
| The File Name is: EAY81B20          |     |        | • |
| The Data Control Block is:          |     |        | • |
| The Record Format                   | = _ | FB     | · |
| Logical Record Length               | = . | 172    |   |
| Geographical Identification         | =   | 52     |   |
| Data Cells Length                   | =   | 120    |   |
| The Blocksize                       | = : | 11,868 |   |
|                                     |     |        |   |
| Number of Cells for Each Record     | =_  | 12     |   |
| Total Number of Records Written Out | =_  | 38,528 |   |

DCL 1 EAY81B20

| ٥        | 0         |   | *  |
|----------|-----------|---|----|
| ш        | H         |   | *  |
| <b>-</b> | <b>-</b>  |   | *  |
| ⋖        | ۵         |   | *  |
| ш        | н         |   | *  |
| CŁ       | ĉŁ        |   | *  |
| U        | C         | ) | *  |
|          | U         | ) | *  |
| ш        | ш         | t | *  |
|          | Ω         |   | *  |
| -        |           |   | *  |
| ш.       | Ω         |   | *  |
|          | œ         |   | *  |
| >        | 0         |   | *  |
| ×        | O         |   | *  |
| ⋖        | ш         |   | ** |
| Σ        | α         |   | *  |
| Ξ        |           |   | *  |
| ⊃        | <b></b> ( |   | *  |
| 'n       | _         |   | *  |
|          | Δ         |   | *  |
| *        | *         | * | *  |
|          |           |   |    |
|          |           |   |    |
|          |           |   |    |

|          | ٠        | -       | •       | ٠       | •       | •        | •       | •       | *       | •       | •        | •        | -        | -       | •       | -       | •       | -        | •        | ,)9V(0)9′,            |                                      |
|----------|----------|---------|---------|---------|---------|----------|---------|---------|---------|---------|----------|----------|----------|---------|---------|---------|---------|----------|----------|-----------------------|--------------------------------------|
| CHAR( 1) | CHAR( 1) | CHAR(3) | CHAR(3) | CHAR(2) | CHAR(3) | CHAR( 1) | CHAR(3) | CHAR(2) | CHAR(3) | CHAR(3) | CHAR( 1) | CHAR( 1) | CHAR( 1) | CHAR(7) | CHAR(4) | CHAR(2) | CHAR(4) | CHAR( 1) | CHAR( 6) | PICTURE 'S( 9)9V(0)9' | <b>-</b>                             |
|          |          |         |         |         |         |          |         |         |         |         |          |          |          |         | •       |         |         |          |          |                       | DEFINITION FOR ENTRIES IN SUBSCRIPT# |
| α        | Δ.       | FED     | EA      | CD      | cspec   | csbs     | CSDTN   | CSDT    | cesec   | CA      | CAP      | CASL     | CASZ     | CTPN    | CT      | SPR     | ÚAC     | URS      | FILL1    | EAY81821 (3)          | DEFINITION                           |
| ດ        | ល        | ល       | ស       | വ       | ល       | យ        | យ       | വ       | വ       | ស្រ     | ហ        | ល        | ťΩ       | យ       | τυ      | LD      | យ       | īυ       | ហ        | ល                     | */                                   |

## ENTRY# DESCRIPTION

### AGGREGATE INCOME Ø

NUMBER

DESCRIPTION

EAY81B22 - NUMBER AGGREGATE INCOME AND AVERAGE INCOME(3) OF NON-FAMILY PERSONS 15 YEARS AND OVER IN PRIVATE HOUSEHOLDS BY SEX(3) - 1981 TABLE TITLE:

BYTES/CELL 9 WHOLE BYTE ON LEFT SIGN #INTEGERS #DECIMALS FIELD# START POS# END POS# DESCRIPTION 0 O NUMERIC FORMAT TABLE NAME EAY81B22

| TOTAL | NUMBER | AGGREGATE INCOME | AVERAGE INCOME | MALES | NUMBER | AGGREGATE INCOME | AVERAGE INCOME | FEMALES | NUMBER | AGGREGATE INCOME | AVERAGE INCOME |
|-------|--------|------------------|----------------|-------|--------|------------------|----------------|---------|--------|------------------|----------------|
|       | 92     | 102              | 112            |       | 122    | 132              | 142            |         | 152    | 162              | 172            |
|       | 83     | 66               | 103            |       | 113    | 123              | 133            |         | 143    | 153              | 163            |
|       | 27     | 28               | 8              |       | 30     | 31               | 32             |         | ဗ      | 34               | 32             |

| *      |
|--------|
| *      |
| *      |
| *      |
| *      |
| ×      |
| *      |
|        |
|        |
|        |
|        |
|        |
|        |
|        |
| S      |
| •      |
| $\sim$ |
| 6      |
| Ò      |
| <      |
| ത്     |
| òó     |
|        |

DESCRIPTION SUMMARY TABLE(S)

PAGE

EAY81821 - NUMBER AGGREGATE INCOME AND AVERAGE INCOME(3) OF CENSUS FAMILIES IN PRIVATE HOUSEHOLDS - 1981 TABLE TITLE:

BYTES/CELL 9 WHOLE BYTE ON LEFT SIGN #INTEGERS #DECIMALS FIELD# START POS# END POS# DESCRIPTION 0 თ NUMERIC FORMAT TABLE NAME EAY81B21

AVERAGE INCOME

82

73

26

# 

FIELD# START POS# END POS# DESCRIPTION

| REGION         | REGION/PROVINCE | REGION/PROVINCE/FED | REGION/PROVINCE/FED/EA | PROVINCE | FEDERAL ELECTORAL DISTRICT - 1981 | FED/EA | ENUMERATION AREA | CENSUS DIVISION | CSD GEDGRAPHICAL CLASSIFICATION | CSD SIZE | CSD TYPE NAME FOR 81 CENSUS | CSD TYPE | CCS GEOGRAPHICAL CLASSIFICATION | CENSUS METROP. AREA/CENSUS AGGLOMERATION | CMACA PART | CMACA SELECTOR | CMACA SIZE | CT/PCT NUMBER | CENSUS TRACT/PROVINCIAL CENSUS TRACT | SUB PROVINCIAL REGION | URBAN AREA CODE | URBAN RURAL SIZE |
|----------------|-----------------|---------------------|------------------------|----------|-----------------------------------|--------|------------------|-----------------|---------------------------------|----------|-----------------------------|----------|---------------------------------|--|------------|----------------|------------|---------------|--------------------------------------|-----------------------|-----------------|------------------|
| œ              | RP              | RFED                | REA                    | ۵        | FED                               | FEDEA  | ΕA               | GD              | CSDGC                           | CSDS     | CSDTN                       | CSDT     | ccsec                           | СА                                       | CAP        | CASL           | CASZ       | CTPN          | CT                                   | SPR                   | UAC             | URS              |
| <del>-</del>   | 24              | ស                   | œ                      | 6        | rc                                |        | œ                | 9               | 5                               | 4        | 17                          | 6        | 25                              | 25                                       | 26         | 27             | 28         | 35            | 39                                   | 4                     | 45              | 46               |
| <del>-</del> - | -               | -                   | -                      | а        | ო                                 | ო      | Q                | თ               | <b>+</b>                        | 4        | ស្                          | 18       | 20                              | 23                                       | 26         | 27             | 28         | 29            | 36                                   | 40                    | 42              | 46               |
| -              | Ø               | m                   | 4                      | ស        | ဖ                                 | 7      | œ                | თ               | 10                              | =        | 72                          | 8        | 14                              | <del>1</del>                             | 16         | 17             | 138        | 19            | 20                                   | 21                    | 22              | 23               |

AVERAGE INCOME

5 EAY81B22 ( 3, 3)

PICTURE 'S( 9)9V(0)9';

DEFINITION FOR ENTRIES IN SUBSCRIPT# 1

\*

ENTRY# DESCRIPTION

TOTAL

MALES

3 FEMALES

DEFINITION FOR ENTRIES IN SUBSCRIPT# 2

ENTRY# DESCRIPTION

NUMBER

AGGREGATE INCOME 7

AVERAGE INCOME က

\*

\*\*\* NORMAL END \*\*\*

PART 2

### **SECTION A**

### **FILE CONTENT**

File

EAY81B20

### **Table Titles**

EAY81B21 Number, aggregate income and average income of census families in private households, 1981

EAY81B22 Number, aggregate income and average income of non-family persons 15 years and over in private households by sex (3), 1981

### Legends

NUMBER, AGGREGATE INCOME AND AVERAGE INCOME (3)

- I. Number
- 2. Aggregate income \$'000
- 3. Average income

### SEX (3)

- 1. Total
- 2. Male
- 3. Female

### SECTION B

### FILE SEQUENCE AND GEOGRAPHIC DEFINITIONS

### 1) Sequence of 1981 Census User Summary Tape Files - Enumeration Areas (Basic Series)

Enumeration area (EA) files are sorted in the following ascending numeric sequence:

| Keys           | Position<br>in<br>record | Description                     |
|----------------|--------------------------|---------------------------------|
| Major          | 51-52                    | Record type                     |
| Intermediate 1 | 1-2                      | Region and province code        |
| Intermediate 2 | 3-5                      | Federal electoral district code |
| Minor          | 6-8                      | Enumeration area code           |

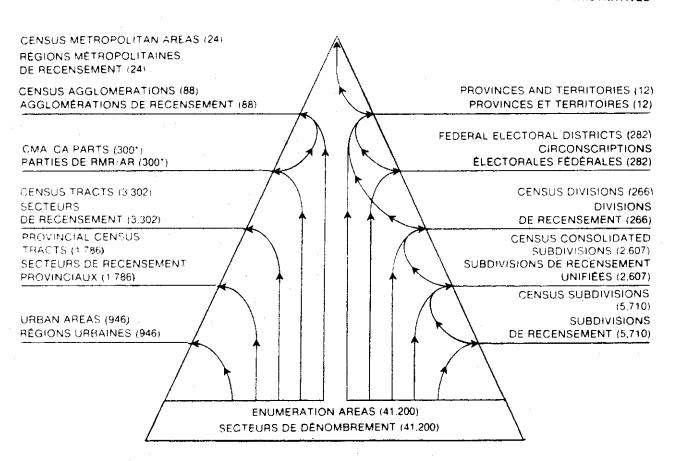
Figure 1.

### The 1981 Census Geographic Hierarchy Ordre hiérarchique des unités géographiques du recensement de 1981

### CANADA

STATISTICAL
A DES FINS STATISTIQUES

ADMINISTRATIVE A DES FINS ADMINISTRATIVES



The numbers in brackets represent the number of each type of area.

Les chiffres entre parentheses correspondent au nombre d'unites dans chaque categorie

- \* Approximate number
- \* Chiffres approximatifs

### Geographic codes on each record

| Record type | Description   | Number of records | Position | Content  |
|-------------|---|-------------------|----------|--|
| 01          | Canada total record                                   | 1                 | 1-46     | Zeroes   |
|             |   |                   | 47-49    | Blanks   |
|             |   | :                 | 50       | Indian Reserve - High imputation area indicator    |
|             |   |                   | 51-52    | Record type  |
| 02          | Provincial total records in                           | 12                | 1-2      | Region and province code                           |
|             | ascending numeric sequence                            |                   | 3-46     | Zeroes   |
|             |   |                   | 47-49    | Blanks   |
|             |   |                   | 50       | Indian Reserve - High<br>imputation area indicator |
|             |   |                   | 51-52    | Record type  |
| 18          | Federal electoral district (FED) records in ascending | 282               | 1-2      | Region and province code                           |
|             | numeric sequence within                               |                   | 3-5      | FED code   |
|             | province  |                   | 6-46     | Zeroes   |
| ·           |   |                   | 47-49    | Blanks   |
| ·           |   |                   | 50       | Indian Reserve - High imputation area indicator    |
|             |   |                   | 51-52    | Record type  |

### Geographic codes on each record

| Record type | Description                                   | Number of records | Position | Content  |  |  |  |  |
|-------------|---|-------------------|----------|--|--|--|--|--|
| 19          | Enumeration area (EA)<br>records in ascending | 38,233            | 1-2      | Region and province code                           |  |  |  |  |
|             | numeric sequence within                       |                   | 3-5      | FED code   |  |  |  |  |
|             | FED and province                              |                   | 6-8      | EA code  |  |  |  |  |
|             |   |                   | 9-46     | See tape documentation                             |  |  |  |  |
|             |   |                   | 47-49    | Blanks   |  |  |  |  |
|             |   |                   | 50       | Indian Reserve - High<br>imputation area indicator |  |  |  |  |
|             |   |                   | 51-52    | Record type  |  |  |  |  |

Note: There are 38,528 records on the enumeration area summary tape files covering all of Canada.

### 2) Geographic Definitions

### Standard Geographical Classification (SGC)

The Standard Geographical Classification provides systematic identification for three types of geographic areas. These are:

- (1) provinces and territories;
- (2) census divisions (counties, regional municipalities, and regional districts, for example); and
- (3) census subdivisions (usually municipalities).

The three area systems are hierarchically related. Census subdivisions (CSDs) aggregate to census divisions (CDs), which in turn aggregate to a province or a territory (PR). This relationship is reflected in the seven-digit SGC code:

PR CD CSD

XX XX XXX (X denotes one digit)

Census Subdivision

Census Division

Province or Territory

Remarks: For the 1981 Census, the Standard Geographical Classification is the sole official geographical classification system for dissemination purposes.

Due to a Statistics Canada policy of standardizing geographical codes wherever possible, census codes are no longer available. To uniquely identify any geostatistical area in Canada, it is necessary to employ the Standard Geographical Classification codes. For example, in 1976, a 4-digit census code uniquely identified census subdivisions within provinces. In 1981, it is necessary to use a 2-digit census division code plus a 3-digit census subdivision code to uniquely identify those census subdivisions.

Field: 1

Position: 1-2

### Region and Province Code

This field presents the major political division of Canada. There are ten provinces and two territories coded as below. The first digit represents the geographic region of Canada to which the province belongs. Code notation is the Standard Geographical Classification (SGC) code and is assigned geographically from east to west. In census tabulations, provincial tables include the Yukon and Northwest Territories.

### Code Assignment

| Region           | Province | Code           |
|------------------|----------|----------------|
| Canada           | Total    | 00             |
| Atlantic         | Nfld.    | 10             |
|                  | P.E.I.   | 11             |
|                  | N.S.     | 12             |
|                  | N.B.     | 13             |
| Quebec           | Que.     | 24             |
| Ontario          | Ont.     | 35             |
| Prairies         | Man.     | 46             |
|                  | Sask.    | 47             |
|                  | Alta.    | 48             |
| British Columbia | B.C.     | 5 <del>9</del> |
| Territories      | Yukon    | 60             |
|                  | N.W.T.   | 61             |

Field:

2

Position: 3-5

### Federal Electoral District (FED) (1976 Representation Order)

This field presents the territorial unit, established by the Canadian Parliament, entitled to return a member to serve in the House of Commons. There are 282 FEDs in Canada based on the 1976 Representation Order.

See list of federal electoral district names and codes on the following pages.

Their boundaries may cut across all geostatistical areas, except provinces and enumeration areas (EAs). Federal electoral districts differ from provincial electoral districts.

The FED code is used to identify uniquely within each province the smallest unit of data collection. This unit is the enumeration area (EA) and is numbered uniquely within each FED.

The 1976 and 1971 Censuses were taken according to the 1966 Representation Order containing 264 federal electoral districts.

| S  | iGC  |   |
|--|--|---|
| PR   | FED  | FEDERAL ELECTORAL DISTRICT  |
| NEWFOUN  | DLAND  |   |
| 10<br>10<br>10<br>10<br>10<br>10                               | 001<br>002<br>003<br>004<br>005<br>006<br>007                      | BONAVISTA-TRINITY-CONCEPTION BURIN-ST.GEORGE'S (SAINT-GEORGES) GANDER-TWILLINGATE GRAND FALLS-WHITE BAY-LABRADOR HUMBER-PORT AU PORT-ST. BARBE (SAINTE-BARBE) ST.JOHN'S EAST (SAINT-JEAN-EST) ST.JOHN'S WEST (SAINT-JEAN-OUEST)             |
| PRINCE E   | DWARD ISL  | AND   |
| 11<br>11<br>11<br>11   | 001<br>002<br>003<br>004   | CARDIGAN<br>EGMONT<br>HILLSBOROUGH<br>MALPEQUE  |
| NOVA SCO   | TIA  |   |
| 12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 001<br>002<br>003<br>004<br>005<br>006<br>007<br>008<br>009<br>010 | ANNAPOLIS VALLEY-HANTS CAPE BRETON-EAST RICHMOND (EST) CAPE BRETON HIGHLANDS-CANSO CAPE BRETON-THE SYDNEYS CENTRAL NOVA CUMBERLAND-COLCHESTER DARTMOUTH-HALIFAX EAST (EST) HALIFAX HALIFAX HALIFAX WEST (OUEST) SOUTH SHORE SOUTH WEST NOVA |
| NEW BRUN   | SWICK  |   |
| 13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13             | 001<br>002<br>003<br>004<br>005<br>006<br>007<br>008<br>009        | CARLETON-CHARLOTTE FUNDY-ROYAL GLOUCESTER MADAWASKA-VICTORIA MONCTON NORTHUMBERLAND-MIRAMICHI RESTIGOUCHE SAINT JOHN (SAINT-JEAN) WESTMORLAND-KENT YORK-SUNBURY   |

| SGC                                       |                    | SERVEN EL SOTORAL DISTRICT       |
|---|--------------------|----------------------------------|
| PR  | FED                | FEDERAL ELECTORAL DISTRICT       |
| QUEBEC                                    |                    |                                  |
| 24  | 001                | ABITIBI                          |
| 24  | 001                | ARGENTEUIL-PAPINEAU              |
|   | 002                | BEAUCE                           |
| 24<br>24                                  | 00 <i>5</i><br>004 | BEAUHARNOIS-SALABERRY            |
|   | 004                | BELLECHASSE                      |
| . 24<br>24                                | 006                | BERTHIER-MASKINONGE-LANAUDIERE   |
|   | 008                | BONAVENTURE-ILES-DE-LA-MADELEINE |
| 24.                                       |                    | BOURASSA                         |
| 24<br>24                                  | 008<br>009         | CHAMBLY                          |
| 24<br>24                                  | 010                | CHAMPLAIN                        |
| 24  | 010                | CHARLESBOURG                     |
| 24<br>24                                  | 011                | CHARLEVOIX                       |
| 24<br>24                                  | 013                | CHATEAUGUAY                      |
| 24<br>24                                  | 017                | CHICOUTIMI                       |
| 24  | 014                | MEGANTIC-COMPTON-STANSTEAD       |
| 24  | 016                | BLAINVILLE-DEUX-MONTAGNES        |
| 24  | 017                | DOLLARD                          |
| 24  | 018                | DRUMMOND                         |
| 24  | 019                | DUVERNAY                         |
| 24  | 020                | FRONTENAC                        |
| 24  | 021                | GAMELIN                          |
| 24  | 022                | GASPE                            |
| 24  | 023                | GATINEAU                         |
| 24  | 024                | MONTREAL-SAINTE-MARIE            |
| 24  | 025                | HULL                             |
| 24  | 026                | JOLIETTE                         |
| 24  | 027                | JONQUIERE                        |
| 24  | 028                | KAMOURASKA-RIVIERE-DU-LOUP       |
| 24  | 029                | LABELLE                          |
| 24  | 030                | LACHINE                          |
| 24  | 031                | LAC-SAINT-JEAN                   |
| 24  | 032                | LANGELIER                        |
| 24  | 033                | LA PRAIRIE                       |
| 24  | 034                | LASALLE                          |
| 24  | 035                | LAURIER                          |
| 24  | 036                | LAVAL-DES-RAPIDES                |
| 24  | 037                | LEVIS                            |
| 24  | 038                | LONGUEUIL                        |
| 24  | 039                | LOTBINIERE                       |
| 24  | 040                | LOUIS-HEBERT                     |
| 24  | 041                | HOCHELAGA-MAISONNEUVE            |
| 24  | 042                | MANICOUAGAN                      |
| . 24                                      | 043                | MATAPEDIA-MATANE                 |
| N. C. |                    |                                  |

| SGC      |             |  |  |  |
|----------|-------------|--|--|--|
| PR       | FED         | FEDERAL ELECTORAL DISTRICT             |  |  |
| QUEBEC   | (Concluded) |  |  |  |
| 24       | 044         | MONTREAL-MERCIER                       |  |  |
| 24       | 045         | LAVAL                                  |  |  |
| 24       | 046         | MISSISQUOI                             |  |  |
| 24       | 047         | MONTMORENCY-ORLEANS                    |  |  |
| 24       | 048         | MOUNT ROYAL                            |  |  |
| 24       | 049         | NOTRE-DAME-DE-GRACE-LACHINE-EST (EAST) |  |  |
| 24       | 050         | OUTREMONT                              |  |  |
| 24       | 051         | PAPINEAU                               |  |  |
| 24       | 052         | PONTIAC-GATINEAU-LABELLE               |  |  |
| 24       | 053         | PORTNEUF                               |  |  |
| 24       | 054         | QUEBEC-EST                             |  |  |
| 24       | 055         | RICHELIEU                              |  |  |
| 24       | 056         | RICHMOND-WOLFE                         |  |  |
| 24       | 057<br>058  | RIMOUSKI-TEMISCOUATA<br>ROBERVAL       |  |  |
| 24       | 059         | ROSEMONT                               |  |  |
| 24<br>24 | 060         | SAINT-DENIS                            |  |  |
| 24       | 061         | SAINT-DENIS<br>SAINT-JACQUES           |  |  |
| 24<br>24 | 062         | SAINT-BACGOES SAINT-HYACINTHE-BAGOT    |  |  |
| 24       | 063         | SAINT-ITACINTIL-BAGOT<br>SAINT-JEAN    |  |  |
| 24       | 064         | SAINT-LEONARD-ANJOU                    |  |  |
| 24       | 065         | SAINT-MAURICE                          |  |  |
| 24       | 066         | SAINT-MICHEL                           |  |  |
| 24       | 067         | SHEFFORD                               |  |  |
| 24       | 068         | SHERBROOKE                             |  |  |
| 24       | 069         | TEMISCAMINGUE                          |  |  |
| 24       | 070         | TERREBONNE                             |  |  |
| 24       | 071         | TROIS-RIVIERES                         |  |  |
| 24       | 072         | VAUDREUIL                              |  |  |
| 24       | 073         | VERCHERES                              |  |  |
| 24       | 074         | VERDUN-SAINT-PAUL                      |  |  |
| 24       | 075         | SAINT-HENRI-WESTMOUNT                  |  |  |
| ONTARIO  | )           |  |  |  |
|          |             |  |  |  |
| 35       | 001         | ALGOMA                                 |  |  |
| 35       | 002         | BEACHES                                |  |  |
| 35       | 003         | BRAMPTON-GEORGETOWN                    |  |  |
| 35<br>35 | 004         | BRANT                                  |  |  |
| 35<br>35 | 005         | BROADVIEW-GREENWOOD                    |  |  |
| 35<br>35 | 006         | BRUCE-GREY                             |  |  |
| 35<br>35 | 007         | BURLINGTON                             |  |  |
| 35       | 008         | CAMBRIDGE                              |  |  |

| SGC    |               | TENERAL ELECTORAL DISTRICT                   |
|--------|---------------|--|
| PR     | FED           | FEDERAL ELECTORAL DISTRICT                   |
| ONTARI | O (Continued) |  |
| - 35   | 009           | COCHRANE-SUPERIOR (SUPERIEUR)                |
| 35     | 010           | DAVENPORT                                    |
| 35     | 011           | DON VALLEY EAST (EST)                        |
| 35     | 012           | DON VALLEY WEST (OUEST)                      |
| 35     | 013           | WELLINGTON-DUFFERIN-SIMCOE                   |
| - 35   | 014           | DURHAM-NORTHUMBERLAND                        |
| 35     | 015           | EGLINTON-LAWRENCE                            |
| 35     | 016           | ELGIN  |
| 35     | 017           | ERIE   |
| 35     | 018           | ESSEX-KENT                                   |
| 35     | 019           | ESSEX-WINDSOR                                |
| 35     | 020           | ETOBICOKE CENTRE                             |
| 35     | 021           | ETOBICOKE-LAKESHORE                          |
| - 35   | 022           | ETOBICOKE NORTH (NORD)                       |
| 35     | 023           | GLENGARRY-PRESCOTT-RUSSELL                   |
| 35     | 024           | GREY-SIMCOE                                  |
| 35 .   | 025           | GUELPH                                       |
| 35     | 026           | HALDIMAND-NORFOLK                            |
| 35     | 027           | HALTON                                       |
| 35     | 028           | HAMILTON EAST (EST)                          |
| 35     | 029           | HAMILTON MOUNTAIN                            |
| 35     | 030           | HAMILTON-WENTWORTH                           |
| 35     | 031           | HAMILTON WEST (OUEST)                        |
| 35     | 032           | HASTINGS-FRONTENAC-LENNOX AND (ET) ADDINGTON |
| 35     | 033           | HURON-BRUCE                                  |
| 35     | 034           | KENORA-RAINY RIVER                           |
| 35     | 035           | KENT   |
| 35     | 036           | KINGSTON AND THE ISLANDS (ET LES ILES)       |
| 35     | 037           | KITCHENER                                    |
| 35     | 038           | LAMBTON-MIDDLESEX                            |
| 35     | 039           | LANARK-RENFREW-CARLETON                      |
| 35     | . 040         | LEEDS-GRENVILLE                              |
| 35     | 041           | LINCOLN                                      |
| 35     | 042           | LONDON EAST (EST)                            |
| 35     | 043           | LONDON WEST (OUEST)                          |
| 35     | 044           | LONDON-MIDDLESEX                             |
| 35     | 045           | MISSISSAUGA NORTH (NORD)                     |
| 35     | 046           | MISSISSAUGA SOUTH (SUD)                      |
| 35     | 047           | NEPEAN-CARLETON                              |
| 35     | 048           | NIAGARA FALLS                                |
| 35     | 049           | NICKEL BELT                                  |

| SGC       |            |                            |  |
|-----------|------------|----------------------------|--|
| PR        | FED        | FEDERAL ELECTORAL DISTRICT |  |
| ONTARIO ( | Continued) |                            |  |
| 35        | 050        | NIPISSING                  |  |
| 35        | 051        | NORTHUMBERLAND             |  |
| - 35      | 052        | ONTARIO                    |  |
| 35        | 053        | OSHAWA                     |  |
| 35        | 054        | OTTAWA-CARLETON            |  |
| 35        | 055        | OTTAWA CENTRE              |  |
| 35        | 056        | OTTAWA-VANIER              |  |
| 35        | 057        | OTTAWA WEST (OUEST)        |  |
| 35        | 058        | OXFORD                     |  |
| 35        | 059        | PARKDALE-HIGH PARK         |  |
| 35        | 060        | PARRY SOUND-MUSKOKA        |  |
| 35        | 061        | PERTH                      |  |
| 35        | 062        | PETERBOROUGH               |  |
| 35        | 063        | PRINCE EDWARD-HASTINGS     |  |
| 35        | 064        | RENFREW-NIPISSING-PEMBROKE |  |
| 35        | 065        | ROSEDALE                   |  |
| 35        | 066        | ST. CATHARINES             |  |
| 35        | 067        | ST. PAUL'S                 |  |
| . 35      | 068        | SARNIA-LAMBTON             |  |
| 35        | 069        | SAULT STE MARIE            |  |
| 35        | 070        | SCARBOROUGH CENTRE         |  |
| 35        | 071        | SCARBOROUGH EAST (EST)     |  |
| 35        | 072        | SCARBOROUGH WEST (OUEST)   |  |
| 35        | 073        | SIMCOE NORTH (NORD)        |  |
| 35        | 074        | SIMCOE SOUTH (SUD)         |  |
| 35        | 075        | SPADINA                    |  |
| 35        | 076        | STORMONT-DUNDAS            |  |
| 35        | 077        | SUDBURY                    |  |
| 35        | 078        | THUNDER BAY-ATIKOKAN       |  |
| 35        | 079        | THUNDER BAY-NIPIGON        |  |
| 35        | 080        | TIMISKAMING                |  |
| 35        | 081        | TIMMINS-CHAPLEAU           |  |
| 35        | 082        | TRINITY                    |  |
| 35        | 083        | VICTORIA-HALIBURTON        |  |
| 35        | 084        | WATERLOO                   |  |
| 35        | 085        | WELLAND                    |  |
| 35        | 086        | WILLOWDALE                 |  |
| 35        | 087        | WINDSOR-WALKERVILLE        |  |
| 35        | 088        | WINDSOR WEST (OUEST)       |  |
| 35        | 089        | YORK CENTRE                |  |
|           |            |                            |  |

| SGC  |  | FEDERAL ELECTORAL DISTRICT   |  |
|--|--|--|--|
| PR   | FED  | FEDERAL ELECTORAL DISTRICT   |  |
| ONTARIO  | (Concluded)  |  |  |
| 35<br>35<br>35<br>35<br>35<br>35                                     | 090<br>091<br>092<br>093<br>094<br>095   | YORK EAST (EST) YORK NORTH (NORD) YORK-PEEL YORK-SCARBOROUGH YORK SOUTH (SUD)-WESTON YORK WEST (OUEST)   |  |
| MANITOBA   | 4  |  |  |
| 46<br>46<br>46<br>46<br>46<br>46<br>46<br>46<br>46<br>46<br>46<br>46 | 001<br>002<br>003<br>004<br>005<br>006<br>007<br>008<br>009<br>010<br>011<br>012<br>013<br>014 | BRANDON-SOURIS CHURCHILL DAUPHIN LISGAR PORTAGE-MARQUETTE PROVENCHER SELKIRK-INTERLAKE ST. BONIFACE WINNIPEG-ASSINIBOINE WINNIPEG-BIRDS HILL WINNIPEG-FORT GARRY WINNIPEG NORTH (NORD) WINNIPEG NORTH CENTRE (NORD-CENTRE) WINNIPEG-ST. JAMES                                |  |
| SASKATCH   | HEWAN  |  |  |
| 47<br>47<br>47<br>47<br>47<br>47<br>47<br>47<br>47<br>47             | 001<br>002<br>003<br>004<br>005<br>006<br>007<br>008<br>009<br>010<br>011<br>012<br>013        | ASSINIBOIA HUMBOLDT-LAKE CENTRE KINDERSLEY-LLOYDMINSTER MACKENZIE MOOSE JAW PRINCE ALBERT QU'APPELLE-MOOSE MOUNTAIN REGINA EAST (EST) REGINA WEST (OUEST) SASKATOON EAST (EST) SASKATOON WEST (OUEST) SWIFT CURRENT-MAPLE CREEK THE BATTLEFORDS-MEADOW LAKE YORKTON-MELVILLE |  |

| SGC   |  |   |  |
|---|--|---|--|
| PR  | FED  | FEDERAL ELECTORAL DISTRICT  |  |
| ALBERTA   |  |   |  |
| 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>4 | 001<br>002<br>003<br>004<br>005<br>006<br>007<br>008<br>009<br>010<br>011<br>012<br>013<br>014<br>015<br>016<br>017<br>018<br>019<br>020 | ATHABASCA BOW RIVER CALGARY CENTRE CALGARY EAST (EST) CALGARY NORTH (NORD) CALGARY SOUTH (SUD) CALGARY WEST (OUEST) CROWFOOT EDMONTON EAST (EST) EDMONTON NORTH (NORD) EDMONTON SOUTH (SUD) EDMONTON-STRATHCONA EDMONTON WEST (OUEST) LETHBRIDGE-FOOTHILLS MEDICINE HAT PEACE RIVER PEMBINA RED DEER VEGREVILLE WETASKIWIN YELLOWHEAD   |  |
| BRITISH CC  | DLUMBIA  |   |  |
| 59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59            | 001<br>002<br>003<br>004<br>005<br>006<br>007<br>008<br>009<br>010<br>011<br>012<br>013<br>014<br>015<br>016<br>017                      | BURNABY CAPILANO CARIBOO-CHILCOTIN COMOX-POWELL RIVER COWICHAN-MALAHAT-THE ISLANDS (LES ILES) ESQUIMALT-SAANICH PRINCE GEORGE-PEACE RIVER FRASER VALLEY EAST (EST) FRASER VALLEY WEST (OUEST) KAMLOOPS-SHUSWAP KOOTENAY EAST (EST)-REVELSTOKE KOOTENAY WEST (OUEST) MISSION-PORT MOODY NANAIMO-ALBERNI NEW WESTMINSTER-COQUITLAM NORTH VANCOUVER-BURNABY OKANAGAN NORTH (NORD) OKANAGAN-SIMILKAMEEN |  |

| SGC  |   |  |  |
|--|---|--|--|
| PR   | FED   | FEDERAL ELECTORAL DISTRICT   |  |
| BRITISH (                                    | COLUMBIA (C   | oncluded)  |  |
| 59<br>59<br>59<br>59<br>59<br>59<br>59<br>59 | 019<br>020<br>021<br>022<br>023<br>024<br>025<br>026<br>027 | PRINCE GEORGE-BULKLEY VALLEY RICHMOND-SOUTH DELTA (SUD) SKEENA SURREY-WHITE ROCK-NORTH DELTA (NORD) VANCOUVER CENTRE VANCOUVER EAST (EST) VANCOUVER KINGSWAY VANCOUVER QUADRA VANCOUVER SOUTH (SUD) VICTORIA |  |
| YUKON  |   |  |  |
| 60   | 001   | YUKON  |  |
| NORTHWEST TERRITORIES                        |   |  |  |
| 61<br>61                                     | 001<br>002  | WESTERN ARCTIC<br>NUNATSIAQ  |  |

Field:

Position: 6-8

### Enumeration Area (EA)

The enumeration area is the smallest standard census geographic unit and is the building block of the geostatistical areas in this coding system. The EA is the basic census data collection unit. It is identified uniquely within each FED and province.

The enumeration area is a spatial unit usually canvassed by one Census Representative. It is defined according to the following criteria: (1) Population - the number of households in an enumeration area varies between a maximum of 375 households in large urban areas to a minimum of 125 in rural areas; (2) Limits - an enumeration area, being the building block of all geostatistical areas, never cuts across any geographic area recognized by the census. Moreover, enumeration area boundaries are such that the Census Representative will be able to locate them without difficulty as, for example, streets, roads, railways, rivers and lakes.

An enumeration area is uniquely and completely identified by the codes of the province and the FED, to which is added the three-digit EA code: i.e., 24/021/015 where

24 = province

021 = FED

015 = individual EA number

Note: There were 41,197 EAs delineated in Canada for the 1981 Census compared to 35,154 EAs for the 1976 Census.

EAs within each standard census geostatistical area are indicated in the Enumeration Area Reference Lists (Catalogue Nos. 99-909 to 99-918).

Field: 4

Position: 9-10

### Census Division (CD)

This field presents census divisions, the general term applying to counties, regional districts, regional municipalities and five other types of geographic areas made up of groups of census subdivisions. In Newfoundland, Manitoba, Saskatchewan and Alberta, the term describes areas that have been created by Statistics Canada in cooperation with the provinces as an equivalent for counties.

### Remarks:

In the 1981 Census there are five census divisions in the Northwest Territories; this increase of one census division for the Northwest Territories results from the creation of the Central Arctic Region that, in 1976, was a part of the Fort Smith Region.

Major redelineation of census divisions occurred in Manitoba in 1976 and 1961 and in British Columbia in 1971.

The creation of Regional Municipalities in Ontario between 1969 and 1975 required the redefinition of some census divisions in Ontario.

See list of census division names and codes on the following pages.

|   | SGC  |  | -Mai ta Chinaich |
|---|--|--|------------------|
| PR  | CD   | CE   | ENSUS DIVISION   |
| NEWFOUN   | NDLAND   |  |                  |
| 10<br>10<br>10<br>10<br>10<br>10  | 01<br>02<br>03<br>04<br>05<br>06   | DIVISION NO. 1 DIVISION NO. 2 DIVISION NO. 3 DIVISION NO. 4 DIVISION NO. 5 DIVISION NO. 6  |                  |
| 10<br>10<br>10<br>10  | 07<br>08<br>09<br>10   | DIVISION NO. 7 DIVISION NO. 8 DIVISION NO. 9 DIVISION NO. 10   |                  |
| PRINCE E  | DWARD ISL  | AND  |                  |
| 11<br>11<br>11  | 01<br>02<br>03   | KINGS COUNTY<br>QUEENS COUNTY<br>PRINCE COUNTY   |                  |
| NOVA SCO  | OTIA   |  |                  |
| 12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>1 | 01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17 | SHELBURNE COUNTY YARMOUTH COUNTY DIGBY COUNTY QUEENS COUNTY ANNAPOLIS COUNTY LUNENBURG COUNTY KINGS COUNTY HANTS COUNTY HALIFAX COUNTY COLCHESTER COUNTY CUMBERLAND COUNTY PICTOU COUNTY GUYSBOROUGH COUNTY ANTIGONISH COUNTY INVERNESS COUNTY RICHMOND COUNTY VICTORIA COUNTY | <b>Y</b>         |

|          | SGC      | CENSUS DIVISION       | CENTILLE DIVITEION |  |
|----------|----------|-----------------------|--------------------|--|
| PR       | CD       | CENSOS DIVISION       |                    |  |
| NEW BRI  | JNSWICK  |                       |                    |  |
| 13       | . 01     | SAINT JOHN COUNTY     |                    |  |
| 13       | 02       | CHARLOTTE COUNTY      |                    |  |
| 13       | 03       | SUNBURY COUNTY        |                    |  |
| 13       | 04       | QUEENS COUNTY         |                    |  |
| 13       | 05.      | KINGS COUNTY          |                    |  |
| 13       | 06.      | ALBERT COUNTY         |                    |  |
| 13       | 07       | WESTMORLAND COUNTY    |                    |  |
| 13       | .08      | KENT COUNTY           |                    |  |
| 13       | 09       | NORTHUMBERLAND COUNTY |                    |  |
| 13       | 10       | YORK COUNTY           |                    |  |
| 13       | 11       | CARLETON COUNTY       |                    |  |
| 13       | 12       | VICTORIA COUNTY       |                    |  |
| 13       | 13       | MADAWASKA COUNTY      |                    |  |
| 13       | 14       | RESTIGOUCHE COUNTY    |                    |  |
| 13       | 15       | GLOUCESTER COUNTY     |                    |  |
|          | •        |                       | • .                |  |
| QUEBEC   | * * .    |                       |                    |  |
| 24       | 01       | ILES-DE-LA-MADELEINE  |                    |  |
| 24       | 02       | GASPE-EST             |                    |  |
| 24       | 03       | GASPE-OUEST           |                    |  |
| 24       | 04       | BONAVENTURE           |                    |  |
| 24       | 05       | MATAPEDIA             |                    |  |
| 24       | 06       | MATANE                |                    |  |
| 24       | 07       | RIMOUSKI              |                    |  |
| 24       | 08       | RIVIERE-DU-LOUP       |                    |  |
| 24       | 09       | TEMISCOUATA           |                    |  |
| 24       | 10       | KAMOURASKA            |                    |  |
| 24       | 11       | CHARLEVOIX-EST        |                    |  |
| 24       | 12       | CHARLEVOIX-OUEST      |                    |  |
| 24       | 13       | L'ISLET               |                    |  |
| 24       | 14       | MONTMAGNY             |                    |  |
| 24       | 15       | BELLECHASSE           |                    |  |
| 24       | 16       | MONTMORENCY NO. 2     | •                  |  |
| 24       | 17       | MONTMORENCY NO. 1     |                    |  |
| 24       | 20       | QUEBEC                | •                  |  |
| 24       | 21       | LEVIS                 |                    |  |
| 24       | 22       | DORCHESTER            |                    |  |
| 24       | 23       | BEAUCE<br>EBONTENAC   |                    |  |
| 24<br>24 | 24<br>25 | FRONTENAC<br>COMPTON  |                    |  |
|          | / 7      |                       |                    |  |

| SGC |          | SGC        |                  |                 |
|-----|----------|------------|------------------|-----------------|
|     | PR       | CD         |                  | CENSUS DIVISION |
| Q   | UEBEC    | (Continued | )                |                 |
|     | 24       | 27         | MEGANTIC         |                 |
|     | 24       | 28         | LOTBINIERE       |                 |
|     |          |            | PORTNEUF         |                 |
|     | 24       | 29         |                  |                 |
|     | 24       | 32         | CHAMPLAIN        |                 |
|     | 24       | 33         | NICOLET          |                 |
|     | 24       | 34         | ARTHABASKA       |                 |
|     | 24       | 35         | RICHMOND         |                 |
|     | 24       | 36         | SHERBROOKE       |                 |
|     | 24       | 37         | STANSTEAD        |                 |
|     | 24       | 38         | BROME            |                 |
|     | . 24     | 39         | SHEFFORD         |                 |
|     | 24       | 40         | BAGOT            |                 |
|     | 24       | 41         | DRUMMOND         |                 |
|     | 24       | 42         | YAMASKA          |                 |
|     | 24       | 43         | SAINT-MAURIC     |                 |
|     | 24       | 47         | MASKINONGE       |                 |
|     | 24       | 49         | BERTHIER         |                 |
|     | 24       | 50         | RICHELIEU        |                 |
|     | 24       | 51         | SAINT-HYACIN     | ITHE            |
|     | 24       | 52         | ROUVILLE         |                 |
|     | 24       | 53         | IBERVILLE        |                 |
|     | 24       | 54         | MISSISQUOI       |                 |
|     | 24       | 55         | SAINT-JEAN       |                 |
|     | 24       | 56         | CHAMBLY          |                 |
|     | 24       | 57         | <b>VERCHERES</b> |                 |
|     | 24       | 58         | JOLIETTE         |                 |
|     | 24       | 61         | MONTCALM         |                 |
|     | 24       | 62         | L'ASSOMPTION     |                 |
|     | 24       | 63         | TERREBONNE       |                 |
|     | 24       | 64         | ILE-JESUS        |                 |
|     | 24       | 65         | ILE-DE-MONTR     | REAL            |
|     | 24       | 66         | LAPRAIRIE        |                 |
|     | 24       | 67         | NAPIERVILLE      |                 |
|     | 24       | 68         | HUNTINGDON       |                 |
|     | 24       | 69         | CHATEAUGUA       | <b>Y</b>        |
|     | 24       | 70         | BEAUHARNOIS      |                 |
|     | 24       | 70<br>71   | SOULANGES        |                 |
|     | 24       | 72         | VAUDREUIL        |                 |
|     | 24       | 72<br>73   | DEUX-MONTAC      | CNES            |
|     | 24       | 73<br>74   | ARGENTEUIL       | AI VL U         |
|     | 24<br>24 | 74         | PAPINEAU         |                 |
|     | 24<br>24 | 76         | LABELLE          |                 |
|     | 24<br>24 | 78<br>78   | GATINEAU         |                 |
|     | 24       | /0         | GATINEAU         |                 |

| SGC                  |            |  |  |  |
|----------------------|------------|--|--|--|
| PR                   | CD         | CENSUS DIVISION                              |  |  |
| QUEBEC (             | Concluded) |  |  |  |
| 24                   | 79         | HULL   |  |  |
| 24                   | 80         | PONTIAC                                      |  |  |
| 24                   | 83         | TEMISCAMINGUE                                |  |  |
| 24                   | 84         | ABITIBI                                      |  |  |
| 24                   | 90         | LAC-SAINT-JEAN-OUEST                         |  |  |
| 24                   | 93         | LAC-SAINT-JEAN-EST                           |  |  |
| 24                   | 94         | CHICOUTIMI                                   |  |  |
| 24                   | 97         | SAGUENAY                                     |  |  |
| 24                   | 98         | TERRITOIRE-DU-NOUVEAU-QUEBEC                 |  |  |
| ONTARIO              |            |  |  |  |
| 35                   | 01         | GLENGARRY COUNTY                             |  |  |
| .35                  | 02         | PRESCOTT COUNTY                              |  |  |
| 35                   | 03         | RUSSELL COUNTY                               |  |  |
| 35                   | . 04       | STORMONT COUNTY                              |  |  |
| 35                   | 05         | DUNDAS COUNTY                                |  |  |
| 35                   | 06         | OTTAWA-CARLETON REGIONAL MUNICIPALITY        |  |  |
| 35                   | 07         | GRENVILLE COUNTY                             |  |  |
| 35                   | 08         | LEEDS COUNTY                                 |  |  |
| 35                   | 09         | LANARK COUNTY                                |  |  |
| 35                   | 10         | FRONTENAC COUNTY                             |  |  |
| 35                   | 11         | LENNOX AND ADDINGTON COUNTY                  |  |  |
| 35<br>7.5            | 12         | HASTINGS COUNTY                              |  |  |
| 35<br>35             | 13         | PRINCE EDWARD COUNTY                         |  |  |
| 35<br>35             | 14         | NORTHUMBERLAND COUNTY                        |  |  |
| 35<br><del>3</del> 5 | 15         | PETERBOROUGH COUNTY                          |  |  |
| 35<br>35             | 16         | VICTORIA COUNTY DURHAM REGIONAL MUNICIPALITY |  |  |
| . 35                 | 18<br>19   | YORK REGIONAL MUNICIPALITY                   |  |  |
| 35                   | 20         | TORONTO METROPOLITAN MUNICIPALITY            |  |  |
| 35                   | 21         | PEEL REGIONAL MUNICIPALITY                   |  |  |
| 35                   | 22         | DUFFERIN COUNTY                              |  |  |
| 35                   | 23         | WELLINGTON COUNTY                            |  |  |
| 35                   | 24         | HALTON REGIONAL MUNICIPALITY                 |  |  |
| 35                   | 25         | HAMILTON-WENTWORTH REGIONAL MUNICIPALITY     |  |  |
| 35                   | 26         | NIAGARA REGIONAL MUNICIPALITY                |  |  |
| 35                   | 28         | HALDIMAND-NORFOLK REGIONAL MUNICIPALITY      |  |  |
| 35                   | 29         | BRANT COUNTY                                 |  |  |
| , 35                 | 30         | WATERLOO REGIONAL MUNICIPALITY               |  |  |
| 35                   | 31         | PERTH COUNTY                                 |  |  |
| . 35                 | 32         | OXFORD COUNTY                                |  |  |

| SGC   |  |  |
|---|--|--|
| PR  | CD   | CENSUS DIVISION  |
| ONTARIO   | (Concluded)  |  |
| 35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>3 | 34<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>46<br>47<br>48<br>49<br>51<br>52<br>53<br>54<br>56<br>57<br>58<br>59<br>60 | ELGIN COUNTY KENT COUNTY ESSEX COUNTY LAMBTON COUNTY MIDDLESEX COUNTY HURON COUNTY BRUCE COUNTY GREY COUNTY SIMCOE COUNTY MUSKOKA DISTRICT MUNICIPALITY HALIBURTON COUNTY RENFREW COUNTY NIPISSING DISTRICT PARRY SOUND DISTRICT SUDBURY DISTRICT SUDBURY DISTRICT SUDBURY REGIONAL MUNICIPALITY TIMISKAMING DISTRICT COCHRANE DISTRICT ALGOMA DISTRICT THUNDER BAY DISTRICT KENORA DISTRICT |
| MANITOBA  | 4  |  |
| 46<br>46<br>46<br>46<br>46<br>46<br>46<br>46<br>46<br>46<br>46                  | 01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>10<br>11<br>12<br>13<br>14   | DIVISION NO. 1 DIVISION NO. 2 DIVISION NO. 3 DIVISION NO. 4 DIVISION NO. 5 DIVISION NO. 6 DIVISION NO. 7 DIVISION NO. 8 DIVISION NO. 9 DIVISION NO. 10 DIVISION NO. 11 DIVISION NO. 12 DIVISION NO. 13 DIVISION NO. 14 DIVISION NO. 15 DIVISION NO. 15 DIVISION NO. 16   |

# CENSUS DIVISIONS (CD)

|         | SGC         |                 | CENTER OF DIVISION |
|---------|-------------|-----------------|--------------------|
| PR      | CD          |                 | CENSUS DIVISION    |
| MANITOB | A (Conclude | ed)             |                    |
| 46      | 17          | DIVISION NO. 17 |                    |
| 46      | 18          | DIVISION NO. 18 |                    |
| 46      | 19          | DIVISION NO. 19 |                    |
| 46      | 20          | DIVISION NO. 20 |                    |
| 46      | 21          | DIVISION NO. 21 |                    |
| 46      | 22          | DIVISION NO. 22 |                    |
| 46      | 23          | DIVISION NO. 23 |                    |
| SASKATC | HEWAN       |                 |                    |
| 47      | 01          | DIVISION NO. 1  |                    |
| 47      | 02          | DIVISION NO. 2  |                    |
| 47      | 03          | DIVISION NO. 3  |                    |
| 47      | 04          | DIVISION NO. 4  |                    |
| 47      | 05          | DIVISION NO. 5  |                    |
| 47      | 06          | DIVISION NO. 6  |                    |
| 47      | 07          | DIVISION NO. 7  |                    |
| 47      | 80          | DIVISION NO. 8  |                    |
| 47      | 09          | DIVISION NO. 9  |                    |
| 47      | 10          | DIVISION NO. 10 |                    |
| 47      | 11          | DIVISION NO. 11 |                    |
| 47      | 12          | DIVISION NO. 12 |                    |
| 47      | 13          | DIVISION NO. 13 |                    |
| 47      | 14          | DIVISION NO. 14 |                    |
| 47      | 15          | DIVISION NO. 15 |                    |
| 47      | 16          | DIVISION NO. 16 |                    |
| 47      | 17          | DIVISION NO. 17 |                    |
| 47      | 18          | DIVISION NO. 18 |                    |
| ALBERTA |             |                 |                    |
| 48      | 01          | DIVISION NO. 1  |                    |
| 48      | 02          | DIVISION NO. 2  |                    |
| 48      | 03          | DIVISION NO. 3  |                    |
| 48      | 04          | DIVISION NO. 4  |                    |
| 48      | 05          | DIVISION NO. 5  |                    |
| 48      | 06          | DIVISION NO. 6  |                    |
| 48      | 07          | DIVISION NO. 7  |                    |
| 48      | 08          | DIVISION NO. 8  |                    |
| 48      | 09          | DIVISION NO. 9  |                    |
| 48      | 10          | DIVISION NO. 10 |                    |

# CENSUS DIVISIONS (CD)

| SGC        |             | OEMOLIG DYMINION                         |
|------------|-------------|--|
| PR         | CD          | CENSUS DIVISION                          |
| ALBERTA    | (Concluded) | )  |
| 48         | 11          | DIVISION NO. 11                          |
| 48         | 12          | DIVISION NO. 12                          |
| 48         | 13          | DIVISION NO. 13                          |
| 48         | 14          | DIVISION NO. 14                          |
| 48         | 15          | DIVISION NO. 15                          |
| BRITISH C  | OLUMBIA     |  |
| 59         | 01          | EAST KOOTENAY REGIONAL DISTRICT          |
| 59         | 03          | CENTRAL KOOTENAY REGIONAL DISTRICT       |
| 59         | 05          | KOOTENAY BOUNDARY REGIONAL DISTRICT      |
| 59         | 07          | OKANAGAN-SIMILKAMEEN REGIONAL DISTRICT   |
| 59         | 09          | FRASER-CHEAM REGIONAL DISTRICT           |
| 59         | 11          | CENTRAL FRASER VALLEY REGIONAL DISTRICT  |
| 59         | 13          | DEWDNEY-ALOUETTE REGIONAL DISTRICT       |
| 59         | 15          | GREATER VANCOUVER REGIONAL DISTRICT      |
| 59         | 17          | CAPITAL REGIONAL DISTRICT                |
| 59         | 19          | COWICHAN VALLEY REGIONAL DISTRICT        |
| 59         | 21          | NANAIMO REGIONAL DISTRICT                |
| 59         | 23          | ALBERNI-CLAYOQUOT REGIONAL DISTRICT      |
| 59         | 25          | COMOX-STRATHCONA REGIONAL DISTRICT       |
| 59         | 27          | POWELL RIVER REGIONAL DISTRICT           |
| 59         | 29          | SUNSHINE COAST REGIONAL DISTRICT         |
| 59         | 31          | SQUAMISH-LILLOOET REGIONAL DISTRICT      |
| 59         | 33          | THOMPSON-NICOLA REGIONAL DISTRICT        |
| 59         | 35          | CENTRAL OKANAGAN REGIONAL DISTRICT       |
| 59         | 37          | NORTH OKANAGAN REGIONAL DISTRICT         |
| 59         | 39          | COLUMBIA-SHUSWAP REGIONAL DISTRICT       |
| 59         | 41          | CARIBOO REGIONAL DISTRICT                |
| 59         | 43.         | MOUNT WADDINGTON REGIONAL DISTRICT       |
| 59         | 45          | CENTRAL COAST REGIONAL DISTRICT          |
| 59         | 47          | SKEENA-QUEEN CHARLOTTE REGIONAL DISTRICT |
| 59         | 49          | KITIMAT-STIKINE REGIONAL DISTRICT        |
| 59         | 51          | BULKLEY-NECHAKO REGIONAL DISTRICT        |
| 59         | 53          | FRASER-FORT GEORGE REGIONAL DISTRICT     |
| 59         | 55          | PEACE RIVER-LIARD REGIONAL DISTRICT      |
| 5 <b>9</b> | 57          | STIKINE REGION                           |

# CENSUS DIVISIONS (CD)

| SGC     |           |                       |
|---------|-----------|-----------------------|
| PR      | CD        | CENSUS DIVISION       |
| YUKON   |           |                       |
| 60      | 01        | YUKON                 |
| NORTHWE | ST TERRIT | ORIES                 |
| 61      | 04        | BAFFIN REGION         |
| 61      | 05        | KEEWATIN REGION       |
| . 61    | 06        | FORT SMITH REGION     |
| 61      | 07        | INUVIK REGION         |
| 61      | 08        | CENTRAL ARCTIC REGION |

Position: 11-13

5

# Census Subdivision (CSD)

This field presents the Standard Geographical Classification code for each CSD.

Census subdivision refers to the general term applying to municipalities, Indian Reserves, Indian Settlements and unorganized territories.

In Newfoundland, Nova Scotia and British Columbia, the term also describes geostatistical areas that have been created by Statistics Canada in cooperation with the provinces as an equivalent for municipalities.

Remarks: The 1981 Census was taken according to the municipal boundaries in effect on January 1, 1981.

It should be noted that the parts of Flin Flon located in Manitoba and Saskatchewan and the parts of Lloydminster located in Saskatchewan and Alberta are treated as separate CSDs.

In 1981, for the first time, each Indian Reserve and unorganized territory is reported separately in those census tabulations reporting data by census subdivision.

Summaries of CSD changes are available in the form of two bulletins:

- (1) Changes to Municipal Boundaries, Status and Names (Catalogue No. 12-201, Annual); and
- (2) Standard Geographical Classification, 1981, Vol. I (Catalogue No. 12-567, Occasional).

For a detailed listing of census subdivisions, see Enumeration Area Reference Lists (Catalogue Nos. 99-909 to 99-912) or the Standard Geographical Classification, 1981. Vol. II (Catalogue No. 12-568, Occasional).

Position: 14

# CSD Population Size Group

This field is a population size descriptor. It is used to classify all CSDs into predetermined population size groups, as follows:

| орι | ılation          | Size coo  | <u>de</u>   |
|-----|------------------|---|---|
| _   | 999              | 8   |   |
| -   | 2,499            | 7   |   |
| -   | 4,999            | 6   |   |
| -   | 9,999            | 5   |   |
|     | 29,999           | 4   |   |
| -   | 99,999           | 3   |   |
|     |                  | 2   |   |
| an  | id over          | 1   |   |
|     | -<br>-<br>-<br>- | <ul><li>2,499</li><li>4,999</li><li>9,999</li></ul> | - 999 8<br>- 2,499 7<br>- 4,999 6<br>- 9,999 5<br>- 29,999 4<br>- 99,999 3<br>- 499,999 2 |

Position: 15-17

# Census Subdivision Type Name

Census subdivisions are classified into various types, according to official designations adopted by provincial or federal authorities. With the exception of unorganized territories and Indian Reserves, the type indicates the municipal status of a CSD. The following list indicates the abbreviations used for the most common CSD types:

BOR Borough

C City - Cité

CM County (Municipality)

COM Community

CT Canton (Municipalité de)

CU Cantons unis (Municipalité de)

DM District (Municipality)

HAM Hamlet

ID Improvement District

LGD Local Government District

LID Local Improvement District

LOT Township and Royalty

MC Municipal Corporation

MD Municipal District

PAR Parish

P Paroisse (Municipalité de)

R Indian Reserve - Réserve indienne

RM Rural Municipality

RV Resort Village

SA Special Area

SCM Subdivision of County Municipality

SD Sans désignation (Municipalité)

S-E Indian Settlement - Établissement indien

SET Settlement

SRD Subdivision of Regional District

SUN Subdivision of Unorganized

SV Summer Village

T Town

TP Township

UNO Unorganized - Non organisé

V Ville

VL Village

Remarks: For the 1981 Census, all Newfoundland CSDs called Local Government Community (LGC) in 1976 have been changed to Community (COM). In Quebec, all CSDs typed Municipality -Municipalité (MUN) in 1976 have been changed to Cantons unis (CU), Canton (CT), Paroisse (P) or Sans désignation (SD) for 1981. In the Northwest Territories one new CSD type has been added for the 1981

Census; i.e., Settlement (SET).

Position: 18-19

## Census Subdivision Type Code

This field classifies all census subdivisions according to the official designations adopted by the federal and provincial authorities.

Census subdivision names and types depend on the definition assigned by the provincial authorities; as a result, many of them may differ from region to region.

In the 1976 Census, codes were assigned in two groups. The first group contained 22 designations considered to have a local government and identifiable by the general term of municipality; among other things, this group included incorporated cities, towns and villages, boroughs, hamlets and all types of municipalities.

The second group included nine designations for territories governed by provincial or federal agencies, including Regional District Subdivisions, National Parks, Unorganized Territories, Indian Reserves and Settlements.

For the 1981 Census, this census subdivision type code structure has been modified. The distinction between entities with a local government and those governed by provincial or federal agencies is no longer a criterion in the assignment of codes. The 1976 codes used to denote a particular type were retained in the 1981 Census provided this type had not been affected by any major changes.

One major change in the 1981 Census is the unilingualism of census subdivision types by province of origin. Only those types federally created or found in all provinces are bilingual.

The following list shows the census subdivision types, the provinces or territories in which they are located, and the 1976 and 1981 codes. The changes are identified by footnotes.

# LIST OF CENSUS SUBDIVISION TYPES

| 1976<br>Code | Designation   | 1981<br>Code | Abbreviation | Location (province)  |
|--------------|---|--------------|--------------|--|
| 01 Cir       | ty - Cité   | 01           | С            | NFLD.,P.E.I.,N.S.,N.B., QUE.,ONT.,MAN.,SASK.,  |
| 02 To        | wn (1)  | 02           | Т            | ALTA.,B.C.,YUK.,N.W.T.<br>NFLD.,P.E.I.,N.S.,N.B.,<br>ONT.,MAN.,SASK.,ALTA.,            |
| 03 Vil       | lage  | 03           | VL           | B.C., YUK., N.W.T.<br>P.E.I., N.B., QUE., ONT.,<br>MAN., SASK., ALTA., B.C.,<br>N.W.T. |
| 04 Sui       | mmer Village  | 04           | SV           | ALTA. (2)  |
|              | rough   | 05           | BOR          | ONT.   |
|              | mlet  | 06           | HAM          | N.W.T.   |
|              | le (3)  | 07           | V            | QUE.   |
|              | roisse (Municipalité de) (4)                            | 08           | P            | QUE.   |
|              | ns désignation (Municipalité) (5)                       | 09           | ,<br>SD      | QUE.   |
|              | intons unis (Municipalité de) (6)                       | 10           | CU           | QUE.   |
|              | unicipalité (7)   |              | MUN          | QUE.   |
|              | unty (Municipality)                                     | 12           | CM           | ALTA.  |
|              | odivision of County Municipality                        | 13           | SCM          | N.S.   |
| 14 Dis       | strict (Municipality)                                   | 14           | DM           | B.C.   |
|              | ral Municipality  | 15           | RM           | MAN.,SASK.   |
|              | wnship  | 16           | TP(8)        | ONT.   |
|              | nton (Municipalité de) (9)                              | 17           | CT           | QUE.   |
|              | sort Village (10)                                       | 20           | RV           | SASK.  |
|              | inicipal Corporation (11)                               | 21           | MC           | SASK.  |
|              | nicipal District  | 31           | MD           | N.S.,ALTA.   |
|              | ral District (12)                                       | 77           | RD           | NFLD.  |
|              | provement District<br>provement District                | 33           | ID<br>ID     | ONT.,ALTA.<br>ALTA.  |
|              | cal Improvement District                                | 35           | LID          | YUK.(14)   |
|              | cal Government District                                 | 36           | LGD          | MAN.   |
|              | odivision of Regional District                          | 39           | SRD          | B.C.   |
|              | mmunity (15)  | 51           | COM          | NFLD.  |
| 52 Spe       | ecial Area  | 52           | SA(16)       | ALTA.  |
|              | skatchewan Hospital Area                                |              |              | SASK.  |
|              | anium City and District                                 |              |              | SASK.  |
|              | iversity Endowment Area                                 |              | •            | B.C.   |
|              | tional Park   | 4.5          |              | SASK.,ALTA.  |
|              | rish  | 62           | PAR          | N.B.(19)   |
|              | wnship and Royalty                                      | 63           | LOT(20)      | P.E.I.   |
|              | organized - Non organisé                                | 81           | UNO(21)      | QUE.,ONT.,MAN.,SASK.,<br>YUK.,N.W.T.   |
|              | odivision of Unorganized                                | 82           | SUN(22)      | NFLD.  |
| 91 Ind       | ian Reserve - Réserve indienne                          | 91           | R(23)        | P.E.I.,N.S.,N.B.,QUE.,<br>ONT.,MAN.,SASK.,ALTA.,<br>B.C.                               |
|              | ian Settlement - Établissement indien<br>n Reserve (25) | 92           | S-E(24)      | QUE.,ONT.,MAN.<br>QUE.,ONT.  |
|              | tlement (26)  | 93           | SET          | N.W.T.   |

- (1) In the 1976 Census these were designated Town Ville, in all provinces. In the 1981 Census the designation "Town" was used in all provinces except Quebec.
- (2) Summer Village no longer exists in Saskatchewan.
- (3) The designation "Ville" was added for the province of Quebec.
- (4),(5),(6),(7),(9) The designation "Municipalité" (generic term) used for 1976 was replaced by four types of municipalities: "Canton", "Cantons unis", "Paroisse" and "Sans désignation".
- (8) TP replaces TM as the abbreviation for Township.
- (10) Resort Village is new for 1981.
- (11) Municipal Corporation is new for 1981.
- (12) The designation "Rural District" was changed to Town in 1981.
- (13) Codes 33 and 34 were combined for the 1981 Census.
- (14) Local Improvement District is exclusive to the Yukon; the 1976 LIDs in Newfoundland became Town, those in Saskatchewan became Rural Municipality.
- (15) Local Government Community became Community.
- (16) The abbreviation SA is new for 1981.
- (17) CSD type code 53 no longer exists in 1981.
- (18) The designation National Park no longer exists in 1981; Prince Albert National Park (Saskatchewan) becomes Unorganized - Non organisé and the National Parks in Alberta become Improvement District.
- (19) Parish no longer exists in Quebec and Prince Edward Island for 1981.
- (20) The abbrevation LOT is new for 1981.
- (21) UNO becomes the new abbreviation for Unorganized Territory.
- (22) SUN becomes the new abbreviation for Unorganized Territory in Newfoundland.
- (23) R remains as the abbreviation for the designation Indian Reserve.
- (24) S-E becomes the new abbreviation for the designation Indian Settlement.
- (25) The designation Non Reserve no longer exists in 1981.
- (26) Code 93 is used for the new designation Settlement.

Position: 20-22

# Census Consolidated Subdivision (CCS)

This field identifies a geostatistical area created by Statistics Canada.

A census consolidated subdivision is a geographically contiguous group of census subdivisions.

Two rules are applied in delineating census consolidated subdivisions:

- (1) all census subdivisions smaller than 25 square kilometres are grouped with a larger subdivision; and
- (2) if a census subdivision greater than 25 square kilometres is surrounded on more than half its perimeter by another subdivision, it is included as part of the CCS formed by the other subdivision; if not, the census subdivision forms a CCS on its own.

Those wishing to use this field should consult the Enumeration Area Reference Lists (Catalogue Nos. 99-909 to 99-912).

Position: 23-25

# Census Metropolitan Area/Census Agglomeration (CMA/CA)

This field presents geostatistical areas created by Statistics Canada.

# Census Metropolitan Area (CMA)

Refers to the main labour market area of an urbanized core (or continuously built-up area) having 100,000 or more population. CMAs are created by Statistics Canada and are usually known by the name of the urban area forming their urbanized core. They contain whole municipalities (or census subdivisions). CMAs are comprised of (1) municipalities completely or partly inside the urbanized core; and (2) other municipalities if (a) at least 40% of the employed labour force living in the municipality works in the urbanized core, or (b) at least 25% of the employed labour force working in the municipality lives in the urbanized core.

Since a CMA must contain whole census subdivisions, its limits may fall within, or extend beyond, the actual labour market area. The differences may be significant in those parts of Canada where census subdivisions cover particularly large areas of land. Census metropolitan areas may also differ from Metropolitan Areas designated by local authorities for planning or other purposes.

Remarks: CMAs remain unchanged from 1976 except for minor adjustments to respect new municipal limits. Trois-Rivières, Quebec, becomes Canada's 24th CMA as a result of recent growth in its urbanized core.

#### Census Agglomeration (CA)

Refers to the main labour market area of an urbanized core (or continuously built-up area) having between 10,000 and 99,999 population. CAs are created by Statistics Canada and are usually known by the name of the urban area forming their urbanized core. They contain whole municipalities (or census subdivisions). CAs are comprised of (1) municipalities completely or partly inside the urbanized core; and (2) other municipalities if (a) at least 40% of the employed labour force living in the municipality works in the urbanized core, or (b) at least 25% of the employed labour force working in the municipality lives in the urbanized core.

Since a CA must contain whole census subdivisions, its limits may fall within, or extend beyond, the actual labour market area. The differences may be significant in those parts of Canada where census subdivisions cover particularly large areas of land.

Remarks:

Census agglomerations are now delineated according to the same criteria as census metropolitan areas (CMAs) and differ only in the size of their urbanized cores (CMAs having 100,000 or more population). Twenty-four CAs have been added to the programme as a result of this change. At the same time, 23 CAs have been deleted from the programme as a result of raising the minimum urbanized core population from 2,000 to 10,000. One CA, Trois-Rivières, Quebec, has been transferred to the CMA programme as a result of recent growth in its urbanized core. The net effect of the above changes has been to maintain the total number of CAs at 88.

Note: If positions are zeros, the EA is not part of a CMA or a CA.

See list of census metropolitan areas and census agglomerations on the following pages.

# CENSUS METROPOLITAN AREAS (CMA) and CENSUS AGGLOMERATIONS (CA)

|             | SGC<br>CODE   | NAME   |  |
|-------------|---|--|--|
| CENSUS MET  | ROPOLITAN AREA  |  |  |
|             | 001<br>205<br>310<br>408<br>421<br>442<br>462<br>505<br>532<br>535<br>537<br>539<br>541<br>555<br>559<br>580<br>595<br>602<br>705<br>725<br>825<br>835<br>933 | ST.JOHN'S HALIFAX SAINT JOHN CHICOUTIMI - JONQUIÈRE QUEBEC TROIS-RIVIERES MONTREAL OTTAWA - HULL OSHAWA TORONTO HAMILTON ST. CATHARINES - NIAGARA KITCHENER LONDON WINDSOR SUDBURY THUNDER BAY WINNIPEG REGINA SASKATOON CALGARY EDMONTON VANCOUVER VICTORIA |  |
| CENSUS AGGI | _OMERATION  |  |  |
|             | 005<br>010<br>015<br>025<br>105<br>110<br>210<br>215<br>220<br>225<br>230<br>305<br>315<br>320<br>328   | CARBONEAR GRAND FALLS CORNER BROOK LABRADOR CITY CHARLOTTETOWN SUMMERSIDE KENTVILLE TRURO NEW GLASGOW SYDNEY SYDNEY MINES MONCTON OROMOCTO FREDERICTON BATHURST  |  |

|            | SGC<br>CODE            | NAME                     |
|------------|------------------------|--------------------------|
| CENSUS AGG | LOMERATION (Continued) |                          |
|            | 330                    | CAMPBELLTON              |
|            | 335                    | EDMUNDSTON               |
|            | 404                    | RIMOUSKI                 |
| ·          | 405                    | RIVIERE-DU-LOUP          |
|            | 406                    | BAIE-COMEAU              |
|            | 411                    | DOLBEAU                  |
|            | 412                    | SEPT-ILES                |
| •          | 428                    | SAINT-GEORGES            |
|            | 430                    | THETFORD MINES           |
|            | 433                    | SHERBROOKE               |
|            | 435                    | MAGOG                    |
|            | 438                    | ASBESTOS                 |
|            | 440                    | VICTORIAVILLE            |
| •          | 444                    | SHAWINIGAN               |
|            | 446                    | LA TUQUE                 |
|            | 447                    | DRUMMONDVILLE            |
| •          | 450                    | GRANBY                   |
| •          | 452                    | SAINT-HYACINTHE          |
|            | 454                    | SOREL                    |
|            | 456                    | JOLIETTE                 |
|            | 459                    | SAINT-JEAN-SUR-RICHELIEU |
|            | 465                    | SALABERRY-DE-VALLEYFIELD |
|            | 468                    | LACHUTE                  |
|            | 475                    | SAINT-JEROME             |
|            | 480                    | VAL-D'OR                 |
|            | 485                    | ROUYN                    |
|            | 501                    | CORNWALL                 |
|            | 502                    | HAWKESBURY               |
| •          | 508                    | SMITHS FALLS             |
| .*         | 512                    | BROCKVILLE               |
|            | 515                    | PEMBROKE                 |
|            | 517                    | PETAWAWA                 |
|            | 521                    | KINGSTON                 |
|            | 522                    | BELLEVILLE               |
|            | 524                    | TRENTON                  |
|            | 527                    | COBOURG                  |
|            | 529                    | PETERBOROUGH             |
|            | 530                    | LINDSAY                  |
|            | 543                    | BRANTFORD                |
|            | 550                    | GUELPH                   |
|            | 552                    | FERGUS                   |
|            | 553                    | STRATFORD                |
|            | 556                    | CHATHAM                  |
| •          | 557 <sub>:</sub>       | LEAMINGTON               |

# CENSUS METROPOLITAN AREAS (CMA) and CENSUS AGGLOMERATIONS (CA)

|          | SGC<br>CODE  |              | NAME  |  |
|----------|--|--------------|---|--|
| CENSUS A | GGLOMERATIO  | N (Concluded | )   |  |
| CENSUS A | 562<br>566<br>568<br>569<br>571<br>575<br>584<br>590<br>598<br>607<br>625<br>640<br>715<br>720<br>735<br>745<br>805<br>910<br>915<br>918 | v (Concluded | SARNIA OWEN SOUND BARRIE ORILLIA MIDLAND NORTH BAY HAILEYBURY SAULT STE. MARIE KENORA PORTAGE LA PRAIRIE FLIN FLON THOMPSON MOOSE JAW SWIFT CURRENT NORTH BATTLEFORD PRINCE ALBERT MEDICINE HAT TRAIL KELOWNA VERNON KAMLOOPS |  |
|          | 930<br>938<br>940<br>943<br>945<br>955<br>965  |              | CHILLIWACK NANAIMO PORT ALBERNI COURTENAY POWELL RIVER PRINCE RUPERT TERRACE  |  |
|          | 970  |              | PRINCE GEORGE   |  |

Position: 26

#### CMA/CA Part

This field identifies EAs, within CMAs and CAs, as belonging to a CMA/CA part.

Census metropolitan areas (CMAs) and census agglomerations (CAs) are divided into three parts: urbanized core, urban fringe and rural fringe. The parts are always made up of complete enumeration areas, but often comprise only parts of municipalities (or census subdivisions). Not all three parts will necessarily be found in each CMA or CA.

Urbanized core: Continuous built-up area around which a CMA or a CA is delineated. To be considered as continuous, the built-up area must not have a discontinuity exceeding two kilometres. Usually its name is used as the name of the CMA or CA.

Fringe: Parts of a CMA or a CA outside the urbanized core. The fringe consists of urban parts and rural parts.

Code assignment is as follows:

| Urbanized core |  | 1 |
|----------------|--|---|
| Urban fringe   |  | 2 |
| Rural fringe   |  | 3 |

Position: 27

# CMA/CA Selector

This field identifies a given EA as belonging to a CMA or a CA as follows:

| Code | Description  |
|------|--------------|
| 1    | CMA          |
| 2    | CA           |
| 0    | not a CMA/CA |

Position: 28

# CMA/CA Population Size Group

13

This field is a population size descriptor. It distributes all the census agglomerations and census metropolitan areas in population size groups.

| Population                 | Size code |
|----------------------------|-----------|
| 10,000 - 24,999            | 7         |
| 25,000 - 49,999            | 6         |
| 50,000 - 99,999            | 5         |
| 100,000 - 249,999          | 4         |
| 250,000 - 499,999          | 3         |
| 500,000 - 999 <b>,</b> 999 | 2         |
| I,000,000 and over         | 1         |
| (not a CMA/CA)             | . 0       |
| (HUE a CIVIA/CA)           | U         |

Position: 29-35

## Census Tract/Provincial Census Tract Name

This field provides the official number assigned by the census for each census tract and provincial census tract.

Generally census tracts are assigned a three-digit number in ascending sequence within a CMA or CA. Where a census tract is split into two or more parts, the three-digit number is followed by a decimal point and a further two digits identifying the splits,

e.g.: 309.01 309.02

Provincial census tracts are assigned a four-digit number in ascending sequence within a province. Where a PCT is split into two or more parts, the four-digit number is followed by a decimal point and a further two digits identifying the splits. Gaps exist in the numbering. These gaps are a result of two factors. Initially PCTs included CTs; however, the decision was made to restrict PCTs to those areas not included in the Census Tract Programme. Furthermore PCTs are retired as the census tract coverage area is expanded.

| Province<br>census<br>name |          | Province name         | Province code |
|----------------------------|----------|-----------------------|---------------|
| 0001                       | -0101.04 | Newfoundland          | 10            |
| 0200                       | -0220    | Prince Edward Island  | 11            |
| 0300                       | -0451    | Nova Scotia           | 12            |
| 0717                       | -0826    | New Brunswick         | 13            |
| 1000                       | -2232    | Quebec                | 24            |
| 3000                       | -4481    | Ontario               | 35            |
| 5000                       | -5194    | Manitoba              | 46            |
| 6000                       | -6193.02 | Saskatchewan          | 47            |
| 7000.03                    | l -7315  | Alberta               | 48            |
| 8000                       | -8403    | British Columbia      | 59            |
| 9000                       | -9003    | Yukon                 | 60            |
| 9100                       | -9105    | Northwest Territories | 61            |

Not all PCTs in each range are currently used.

Position: 36-39

# Census Tract/Provincial Census Tract Code

# Census Tract (CT)

Refers to a permanent small census geostatistical area established in large urban communities with the help of local specialists interested in urban and social science research. Census tracts are reviewed and approved by Statistics Canada according to the following criteria:

- (a) the boundaries must follow permanent and easily recognized lines on the ground;
- (b) the population must be between 2,500 and 8,000, with a preferred average of 4,000 persons, except for census tracts in the central business district, major industrial zones, or in peripheral rural or urban areas that may have either a lower or a higher population;
- (c) the area must be as homogeneous as possible in terms of economic status and social living conditions; and
- (d) the shape must be as compact as possible.

All census metropolitan areas, all census agglomerations with a city having a population of 50,000 or more, and all other cities of at least 50,000 population at the previous census are eligible for a census tract programme.

Remarks: For the 1981 Census, four urban centres have been added to the Census Tract Programme. They are North Bay, Ontario; and Kamloops, Kelowna, and Prince George, British Columbia.

#### Provincial Census Tract (PCT)

Refers to a permanent small census geostatistical area of rural and/or urban type. PCTs exist in the areas not included in the Census Tract Programme. Populations of PCTs generally vary between 3,000 and 8,000 with a preferred average of 5,000. Boundaries, as much as possible, follow permanent physical features and/or geographic units suggested by the provinces.

CODE: The four-digit numeric code assigned to each CT/PCT allows identification of each type of census tract.

Description

Code

Census tract code

0001-6999

Provincial census tract code

7000-9999

For a detailed listing of census tracts and provincial census tracts, see Enumeration Area Reference Lists (Catalogue Nos. 99-913 to 99-917).

Position: 40-41

# Subprovincial Region

A subprovincial region is a geographical unit intermediate in size between a census division and a province. In eight provinces subprovincial regions are made up of one or more census divisions. In Quebec, subprovincial regions are the administrative regions, and are made up of census subdivisions. Prince Edward Island constitutes one region.

Subprovincial regions are usually created by Statistics Canada at the request of a province. They can be economic, administrative, planning, or some other type of region which a province may designate in the future.

See list of census divisions and/or census division parts and their corresponding subprovincial region on the following pages.

For further information on subprovincial region codes, please contact Standards Division, Statistics Canada.

1981 Groupings of Census Divisions and/or Census Division Parts by Subprovincial Region

| Newfoundland  Prince Edward Island  Nova Scotia  New Brunswick  Québec | 00<br>01<br>02<br>03 | 01<br>02, 03<br>06, 07, 08<br>04, 05, 09, 10      |
|--|----------------------|---|
| Prince Edward Island  Nova Scotia  New Brunswick                       | 01<br>02<br>03<br>10 | 02, 03<br>06, 07, 08<br>04, 05, 09, 10            |
| Nova Scotia  New Brunswick   | 02<br>03<br>10       | 06, 07, 08<br>04, 05, 09, 10                      |
| Nova Scotia  New Brunswick   | 03<br>10             | 04, 05, 09, 10                                    |
| Nova Scotia  New Brunswick   |                      | 01 00 07  |
| New Brunswick  |                      | 01, 02, 03  |
| New Brunswick  | 20                   | 15, 16, 17, 18                                    |
|  | 21                   | 10, 11, 12, 13, 14                                |
|  | 22                   | 05, 07, 08  |
|  | 23                   | 01, 02, 03, 04, 06                                |
|  | 24                   | 09  |
|  | 30                   | 09, 14, 15  |
| Québec   | 31                   | 06, 07, 08  |
| Québec   | 32                   | 01, 02, 05  |
| Québec   | 33                   | 03, 04, 10  |
| Québec   | 34                   | 11, 12, 13  |
|  | 40                   | 01, 02, 03, 04, 05, 06, 07*                       |
| · · · · · · · · · · · · · · · · · · ·                                  | 41                   | 90, 93, 94  |
|  | 42                   | 07*, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17,      |
|  | · <del>-</del>       | 20*, 21, 22, 23, 24*, 26*, 27*, 28*, 29*, 97*     |
|  | 43                   | 20*, 27*, 28*, 29*, 32, 33, 34*, 41, 42*, 43, 47* |
|  | 44                   | 24*, 25, 26*, 34*, 35, 36, 37                     |
|  | 45                   | 38, 39, 40, 42*, 47*, 49*,50, 51, 52, 53,         |
| •  |                      | 54, 55, 56, 57, 58*, 61*, 62, 63, 64, 65,         |
|  | •                    | 66, 67, 68, 69, 70, 71, 72, 73, 74, 75*,          |
|  |                      | 76*   |
|  | 46                   | 47*, 49*, 58*, 61*, 75*, 76*, 78, 79, 80          |
| •  | 47                   | 83, 84  |
|  | 48                   | 97*   |
|  | 49                   | 98  |
| Ontario  | 50                   | 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11,       |
|  |                      | 12, 13, 47, 48*                                   |
|  | E 7                  |   |
|  | 51                   | 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25,       |

<sup>\*</sup> Denotes part of a census division.

BLANK - Not applicable.

<sup>(1)</sup> According to the Standard Geographical Classification.

1981 Groupings of Census Divisions and/or Census Division Parts by Subprovincial Region - Concluded

| Province              | Subprovincial region code | Census division code(1)                |
|-----------------------|---------------------------|--|
| Ontario - Concluded   | 52                        | 31, 32, 34, 36, 37, 38, 39, 40, 41, 42 |
| Official 10           | 53                        | 48*, 49, 51, 52, 53, 54, 56, 57        |
|                       | 54                        | 58, 59, 60                             |
| Manitoba              | 60                        | 01, 02, 12                             |
|                       | 61                        | 03, 04                                 |
|                       | 62                        | 05, 06, 07, 15                         |
|                       | 63                        | 08, 09, 10                             |
|                       | 64                        | 11                                     |
|                       | 65                        | 13, 14, 18                             |
|                       | 66                        | 16, 17, 20                             |
|                       | 67                        | 19, 21, 22, 23                         |
| Saskatchewan          | 70                        | 01, 02, 06                             |
| ÷                     | 71                        | 03, 04, 07, 08                         |
|                       | 72                        | 11, 12, 13                             |
|                       | 73                        | 05, 09, 10                             |
|                       | 74                        | 14, 15, 16, 17                         |
|                       | 75                        | 18                                     |
| Alberta               | 80                        | 01, 04                                 |
|                       | 81                        | 02, 03                                 |
|                       | 82                        | 05, 06                                 |
| •                     | 83                        | 09, 14                                 |
|                       | 84                        | 07, 08                                 |
|                       | 85                        | 10, 11                                 |
|                       | 86                        | 15                                     |
|                       | 87                        | 12, 13                                 |
| British Columbia      | 90                        | 01                                     |
|                       | 91                        | 03, 39                                 |
| •                     | 92                        | 05, 07, 35, 37                         |
|                       | 93                        | 31, 33                                 |
|                       | 94                        | 09, 11, 13, 15, 27, 29                 |
|                       | 95                        | 17, 19, 21, 23, 25, 43                 |
| ·                     | 96                        | 41, 51, 53                             |
|                       | 97                        | 55                                     |
|                       | 98                        | 45, 47, 49, 57                         |
| Yukon                 | BLANK                     | 01                                     |
| Northwest Territories | BLANK                     | 04, 05, 06, 07, 08                     |

<sup>\*</sup> Denotes part of a census division.

BLANK - Not applicable.

(1) According to the Standard Geographical Classification.

Position: 42-45

## Urban Area Code/Rural Indicator

This field permits the identification of "urban" areas, or indicates that the EA is in a rural area. Urban areas are those areas having a population concentration of 1,000 or more and a population density of 400 or more per square kilometre.

Rural areas comprise all territory outside urban areas and are indicated by 0000.

For a detailed listing of urban areas, see Enumeration Area Reference Lists (Catalogue Nos. 99-909 to 99-912).

Position: 46

18

# Urban Area Population Size Group

This field identifies the urban population size group to which each EA belongs.

| Pop  | ulation  | Size code                  |
|--|--|----------------------------|
| 1 - 2,500 - 5,000 - 10,000 - 100,000 - 500,000 | 2,499<br>4,999<br>9,999<br>29,999<br>99,999<br>499,999<br>and over | 7<br>6<br>5<br>4<br>3<br>2 |
| Rural  |  | 0                          |

Position: 47-49

# Blank

Blank field.

Position: 50

# Indian Reserve - High Imputation Area Indicator

Indian Reserves KAHNAWAKE 14, WEBIQUI, WUNNUMIN 2, KINGFISHER 1, PEIGAN 147, COWICHAN 1, THEIK 2, COWICHAN 9

For the geographic areas above, a significant portion of the data has been imputed. Consequently, these areas have been suppressed. However, the data have been included in all higher geographic subtotals and totals. For an assessment of the impact on data quality for these areas, the user is advised to refer to Data Quality - Total Population (Catalogue No. 99-904) and Data Quality - Sample Population (Catalogue No. 99-905).

In this field:

1 = Includes Indian Reserve(s) or part(s) of Indian Reserve(s) identified as high imputation area(s).

Blank = Does not include Indian Reserves or parts of Indian Reserves identified as high imputation areas.

The table on the following page indicates all the geographic areas in question.

1981 Census - Indian Reserves - High Imputation Areas

# Recensement de 1981 - Réserves indiennes - Régions à fort taux d'imputation

| tract(s) Census metropolitan vincial area(s) (CMA)/ ract(s) census aggiorneration(s) ame                              | Nom de secteur(s) Région(s) métropolitaine<br>de recensement(SR)/ de recensement (RMR)/<br>secteur(s) de agglomération(s) de<br>recensement recensement(AR)<br>provincial (SRP) | CT 832* Montréal | PCT 4429*       | PCT 4429*       | PCT 4429*       | PCT 7011*      | PCT 8249*                                   | PCT 8249*                                   | PCT 8249*                                   |
|---|---|------------------|-----------------|-----------------|-----------------|----------------|---|---|---|
| Region, province Census tract(s) and federal (CT)/provincial electoral district census tract(s) (FED) code (PCT) name |   | 24013 CT         | 35034 PCT       | 35034 PCT       | 35034 PCT       | 48014 PCT      | 59005 PCT                                   | 59005 PCT                                   | 59005 PCT                                   |
| Federal electoral Region, pro<br>and federal<br>district (FED) electoral di<br>(FED) code                             | scription<br>rale<br>ile  | Châteauguay      | a-Rainy         | a-Rainy         | a-Rainy         | Lethbridge- 6  | Cowichan-Malahat-<br>The Islands (Les Îles) | Cowichan-Malahat-<br>The Islands (Les Îles) | Cowichan-Malahat-<br>The Islands (Les Îles) |
| Fede<br>Enumeration distrarea(s) (EA)   | #   | 110-120* Chât    | 411* Kenor      | 412* Kenor      | 420* Kenor      | 363,364* Leth  | 219,223,224,226* Cow                        | 221* Cow                                    | 222* Cow                                    |
| Census subdivision(s)<br>(CSD) code<br>Code de subdivision(s)   | GDR)  | 2466820*         | 3560079*        | 3560072*        | 3560098*        | 4803801*       | 5919807*                                    | 5919818*                                    | 5919806*                                    |
| Census division(s)<br>(CD) code<br>Code de division(s)  | de recensement<br>(DR)  | 2466             | 3560            | 3560            | 3560            | 4803           | 5919  | 5919  | 5919  |
| Census division(s) (CD) Division(s) de  | recensement<br>(DR)   | Laprairie        | Kenora District | Kenora District | Kenora District | Division No. 3 | Cowichan Valley<br>Regional District        | Cowichan Valley<br>Regional District        | Cowichan Valley<br>Regional District        |
| Census subdivision(s)<br>(CSD)<br>Subdivision(s) de   | recensement<br>(SDR)  | Kahnawake 14*    | Webiqui         | Wunnumin 2*     | Kingfisher 1*   | Peigan 147*    | Cowichan 1*                                 | Theik 2*                                    | Cowichan 9*                                 |

Not applicable. - N'ayant pas lieu de figurer. Indicates area suppression due to high non-response. - Indique les régions supprimées en raison du taux élevé de non-réponse. : \*

Position: 51-52

# **Record Type**

| Record type                       |  | Code           |
|-----------------------------------|--|----------------|
| Canada<br>Provinces<br>Remainder- | Residual total by province for census subdivisions of less than 5,000 population   | 01<br>02<br>03 |
| Remainder-                        | Non-census metropolitan areas (residual total by province of census subdivisions outside census metropolitan areas)                        | 03             |
| Remainder-                        | Non-census metropolitan areas (residual total by province of census tracts and provincial census tracts outside census metropolitan areas) | 03             |
| Census metr                       | opolitan areas and census agglomerations   | 10             |
| Provincial ce                     | ensus tract subtotals  | 12             |
| Census tract<br>agglomeratio      | s (census metropolitan areas and census<br>ons)  | 13             |
| Provincial ce                     | ensus tracts   | 15             |
| Census divisi                     | ons  | 16             |
| Census subdi                      | visions  | 17             |
| Federal elec                      | toral districts  | 18             |
| Enumeration                       | areas  | 19             |

#### SECTION C

#### GEOGRAPHIC ORGANIZATION

The organization of the User Summary Tape files and microfiche for the 1981 Census is as follows:

#### Enumeration Area (EA) Series

- Tables include data for enumeration areas, federal electoral districts (based on 1976 Representation Order), provinces and Canada.
- The beginning of the User Summary Tapes and microfiche include all total records, i.e. Canada, provinces and federal electoral districts.

Information will be in the following order:

| Geography                   | User Summary Tapes  |
|-----------------------------|---|
| Canada                      |   |
| Provinces                   | Numeric sequence (east to west)                                 |
| Federal electoral districts | Numeric sequence within province                                |
| Enumeration areas           | Numeric sequence within federal electoral district and province |
| Geography                   | Microfiche  |
| Canada                      |   |
| Provinces                   | Numeric sequence (east to west)                                 |
| Federal electoral districts | Alphabetic sequence within province                             |
| Enumeration areas           | Numeric sequence within federal electoral district and province |

| Each | FA level   | tape record | will   | contain | the | following | neographic  | identif  | ication: |
|------|------------|-------------|--------|---------|-----|-----------|-------------|----------|----------|
| Laun | C'VY YEACT | tape record | AA 111 | Contain | une | DUITMOTIO | uguui apmic | IGETICIT | ication: |

Region and province code

Federal electoral district (1976 redistribution) code

Enumeration area (EA) code

Census division (CD) - Standard Geographical Classification (SGC)

Census subdivision (CSD) - Standard Geographical Classification (SGC)

CSD population size group

CSD type name

CSD type code

Census consolidated subdivision (CCS) code - Standard Geographical Classification (SGC)

Census metropolitan area (CMA)/census agglomeration (CA) code - Standard Geographical Classification (SGC)

CMA/CA part code

CMA/CA selector

CMA/CA population size group

CT/PCT name

Census tract (CT)/provincial census tract (PCT) code

Subprovincial Region

Urban area code/rural indicator

Urban area population size group

Blank

Indian Reserve - High imputation area

Record type

#### SECTION D

#### SUPPLEMENTARY INFORMATION

#### CONFIDENTIALITY AND RANDOM ROUNDING

The Statistics Act states that no employee of Statistics Canada "... shall disclose or knowingly cause to be disclosed, by any means, any information obtained under this Act in such a manner that it is possible from any such disclosure to relate the particulars obtained from any individual return to any identifiable individual person, business or organization." (section 16 (1) (b), Statistics Act, 1970-71). The continuing development of new data storage systems and of flexible, generalized retrieval software, and the size of the 1981 Census tabulation and publication program make it difficult to use manual methods to ensure compliance with the Statistics Act. Thus, a technique known as "random rounding" is applied at the final stage of tabulations for all 1981 Census tabulations (including User Summary Tapes/Fiche). Under this method, all figures including totals are randomly rounded (either up or down) to a multiple of "5".

Although the tables subjected to random rounding appear similar to tables whose entries have been conventionally rounded, the process is different. In random rounding, the decision as to whether the last digit in a number will be rounded up or down (to a 0 or a 5) is determined by chance rather than by rules based on the value of the number. This aspect of the process generally introduces sufficient uncertainty into the last digit of the number to provide strong protection against direct, residual or negative disclosures without adding significant error to the census data. However, since totals are independently rounded they do not necessarily equal the sum of individual rounded figures in distributions. Minor differences can be expected for corresponding totals and cell values in various reports. Also, percentages, which are calculated on rounded figures, do not necessarily add to the total. Similarly, any total or cell value of a table which is an aggregation of other tables may differ from the sum of the corresponding rounded values contained in the component tables as these are all rounded independently.

Of concern to some users is that small cell counts may suffer a significant distortion as a result of random rounding and that this will be magnified when these same data cells are aggregated. This distortion is the protection against disclosure and individual data cells containing these small numbers may lose their precision as a result. Since the rounding is of a random nature, however, when data cells are re-aggregated by the user the rounding errors tend to cancel out. Thus aggregations can be used with confidence.

In addition to random rounding, for certain very small areas, to avoid publishing meaningless and potentially misleading data, and to absolutely avoid disclosure, a procedure referred to as "area suppression" has been adopted. Basically, the geographic area itself, as well as all data, is dropped completely from the tabulation in cases where there are fewer than 50 persons for self-enumeration areas and fewer than 25 persons for canvasser areas. Suppressed data are, however, included in the appropriate higher aggregate subtotals and totals. "Area suppression" is applied only to the sample data file, affecting the Profile Series B of bulletins and all of the User Summary Tape/Fiche program. In the case of income distributions, data are deleted if the total non-inmate population concerned is less than 250. This applies only to the User Summary Tape/Fiche program, at the census tract and census subdivision levels, and within the Profile Series B.

The actual census tract (CT) or census subdivision (CSD) suppressed due to the rule described is indicated in the appendix to each Series B bulletin affected. Basic population counts, land area (and other data collected on a 100% basis) for these "missing" or suppressed entities can be obtained from the corresponding Profile Series A of bulletins, or tape and fiche program. (See Products and Services of the 1981 Census of Canada.)

Further, for certain subject-matter areas in the national and provincial bulletin series - income and industry/occupation - users will note the suppression of distributions where less than 250 persons or units are involved. In this case, the total area concerned is not suppressed, and as in "area suppression", such suppressed information is included in higher aggregates.

Further slight variations may exist in certain other circumstances, and more complete details on suppression will be contained in the <u>Summary Guide - Sample Population</u> (Catalogue No. 99-903).

# Counts of the Number of Geographic Records - 2A Tables (no suppression) versus 2B Tables (with suppression) for the User Summary Tape/Microfiche Series, 1981 Census

| User Summary Tape/<br>Microfiche Series   | Number of geographic<br>records - 2A variables<br>100% data<br>no suppression | Number of geographic records - 2B variables - 20% Sample Data (excluding income)** Suppression based on less than 25/50 persons | Number of geographic<br>records - 2B variables<br>- 20% Sample Data<br>- Income Distributions<br>Suppression based on<br>less than 250 persons |
|---|---|---|--|
| ENUMERATION AREAS (EAs)   |   |   |  |
| Canada<br>Provinces<br>Federal Electoral Districts<br>(1976 representation)<br>Enumeration Areas<br>Total | 1<br>12<br>282<br>41,197<br>41,492  | 1<br>12<br>282<br>38,233<br>38,528  | • • •  |
| CENSUS SUBDIVISIONS (CSDs)  | )   |   |  |
| Canada<br>Provinces<br>Census Divisions<br>Census Subdivisions<br>Total                                   | 1<br>12<br>266<br><u>5,710</u><br>5,989                                       | 1<br>12<br>266<br>5,372<br>5,651  | 1<br>12<br>266<br>4,563<br>4,842   |
| CENSUS TRACTS (CTs)/<br>PROVINCIAL CENSUS<br>TRACTS (PCTs)  |   |   |  |
| Canada<br>Provinces<br>* Census Metropolitan Areas/<br>Census Agglomerations                              | 1<br>12<br>37   | 1<br>12<br>37   | 1<br>12<br>37  |
| Provincial/Census Tract Subtotals   | 12  | 12  | 12   |
| Census Tracts Provincial Census Tracts Total  | 3,302<br>1,786<br>5,150   | 3,277<br>1,782<br>5,121   | 3,247<br>1,782<br>5,091  |

<sup>\*\*</sup> In the Enumeration Areas Series (EA), the 25/50 rule supersedes the 250 rule for suppression in Income Tables with no distributions.

<sup>\*</sup> Data shown separately for Ottawa-Hull, Ontario part and Quebec part.

<sup>...</sup> Not applicable.

# Counts of the Number of Geographic Records - 2A Tables (no suppression) versus 2B Tables (with suppression) for the User Summary Tape/Microfiche Series, 1981 Census

| User  | Summ   | агу | Tape/ |
|-------|--------|-----|-------|
| Micro | ofiche | Ser | ies   |

Number of geographic records - 2A variables 100% data no suppression Number of geographic records - 2B variables - 20% Sample Data (excluding income)\*\* Suppression based on less than 25/50 persons Number of geographic records - 2B variables - 20% Sample Data - Income Distributions Suppression based on less than 250 persons

| CENSUS SUBDIVISIONS<br>(COMPONENTS) FOR CMAs   |                                       |                                       |   |
|--|---------------------------------------|---------------------------------------|---|
| Canada Provinces * Census Metropolitan Areas Census Subdivisions Residual by Province Total      | 1<br>12<br>25<br>365<br>12<br>415     | 1<br>12<br>25<br>351<br>12<br>401     | $ \begin{array}{r} 1\\ 12\\ 25\\ 337\\ \underline{12}\\ 387 \end{array} $ |
| CENSUS TRACTS FOR CMAs   |                                       |                                       |   |
| Canada Provinces  * Census Metropolitan Areas Census Tracts Residual by Province Total           | 1<br>12<br>25<br>3,032<br>12<br>3,082 | 1<br>12<br>25<br>3,008<br>12<br>3,058 | 1<br>12<br>25<br>2,983<br>12<br>3,033                                     |
| CENSUS SUBDIVISIONS<br>(CSDs) 5000+  |                                       |                                       |   |
| Canada Provinces Residual Total by Province  | 1 12                                  | 1<br>12                               | 1 12  |
| for Census Subidivisions of<br>less than 5,000 Population<br>Census Subdivisions 5,000+<br>Total | 12<br>653<br>678                      | 12<br><u>652</u><br>677               | 12<br>652<br>677  |

<sup>\*\*</sup> In the Enumeration Areas Series (EA), the 25/50 rule supersedes the 250 rule for suppression in Income Tables with no distributions.

#### SAMPLING AND WEIGHTING

The 1981 Census data were collected either on a 100% basis (i.e. from all households), or on a sample basis (i.e. from only a random sample of households) with data weighted to provide estimates of the entire population. The information contained in this User Summary Tape/Fiche package was collected on a 20% sample basis and then weighted up to compensate for sampling.

<sup>\*</sup> Data shown separately for Ottawa-Hull, Ontario part and Quebec part.

<sup>...</sup> Not applicable.

The weighting system used in the 1981 Census (as in the 1971 and 1976 Censuses) is the raking ratio estimation procedure. This is an iterative procedure designed to ensure that sample estimates for certain basic subgroups of the population agree with the corresponding population totals. This is intended to not only improve the consistency between 100% and sample data tabulations but to improve the reliability of estimates from the sample.

This procedure will ensure consistency between sample estimates and population values for the chosen subgroups and for combinations of these subgroups. However, although the procedure will tend to improve consistency for smaller subgroups it will not ensure consistency for these smaller groups, nor for groups with characteristics not used as controls. For any given geographic area, the weighted population total or subtotal may differ from that shown in reports containing data collected on a 100% basis.

With some minor exceptions, the population or universe (persons, households, dwellings or families) totals for Canada, the provinces and territories and census divisions, for sample and 100% data will coincide since such counts were used as controls in the weighting procedure.

#### DATA QUALITY

#### Introduction

Any census data will be subject to error. Some of the errors will tend to cancel out over a large number of cases (i.e. for larger cells) as errors will be made in both directions (i.e. random errors). In general the proportion or rate of net (i.e. uncancelled) random error increases as the population or cell size decreases. Thus small data values should be used with some caution.

Other of the errors will tend not to cancel out as they will have a tendency to occur in one direction more than another (systematic errors, for example, question wording which invites errors in one direction more than in the other) and will result in a bias.

The data contained in this file are subject to coverage errors, response errors, processing errors and to sampling errors, in addition to any errors introduced by random rounding.

#### Coverage Error

A coverage error occurs in the census whenever a person or a household is missed completely or counted more than once. Since overcoverage is expected to be fairly rare in relation to undercoverage, the net effect of such errors is to introduce a downward bias in census figures, so that the published census estimates tend to underestimate the actual population.

A special study was undertaken in relation to the 1981 Census to measure the extent of the bias due to undercoverage. This study estimated the overall undercoverage rate to be of the order of 2% of the total population. It also indicated that undercoverage is higher in certain segments of the population, e.g., young male adults and recent immigrants. Similar trends were obtained in connection with the 1976 Census.

#### Response Error

A response error occurs when the response recorded is incorrect. Such errors may occur due to the respondent misinterpreting the question, inadvertently checking the wrong box, or even consciously checking the wrong box. Contributing to this error may be the questionnaire wording or organization, or the training and attitude of enumerators.

One indicator of the quality of the data is the "response rate". A response rate in this case is defined as the number of times the value for the characteristic was obtained from the respondent divided by the number of times it should have been obtained. This measure gives an indication of response quality, and in turn, of the extent of imputation required for non-response.

Table 1 below presents the response rates obtained in the 1981 Census for the stated characteristics.

Table 1: Response Rates for Selected Characteristics in the 1981 Census

| Characteristic                           | Response<br>rate (%) |
|--|----------------------|
| <br>Age                                  | 98.9                 |
| Age at First Marriage                    | 91.9                 |
| Bathrooms                                | 99.0                 |
| Childen Ever Born                        | 95.8                 |
| Class of Worker                          | 95.4                 |
| Condition of Dwelling                    | 98.3                 |
| Full-time/Part-time Weeks Worked         | 92.4                 |
| Highest Degree, Certificate or Diploma   | 98.1                 |
| Highest Grade of Elementary or Secondary | 92.9                 |
| Hours Worked in Reference Week           | 97.5                 |
| Household Maintainer                     | 98.5                 |
| Incorporation Status                     | 91.2                 |
| Industry                                 | 96.6                 |
| Labour Force Activity                    | 94.1                 |
| Length of Occupancy                      | 99 <b>.</b> 3        |
| Main Type of Heating Equipment           | 97.3                 |
| Marital Status                           | 98.7                 |
| Mobility Status                          | 96.2                 |
| Mother Tongue                            | 98.9                 |
| Number of Rooms                          | 98.9                 |
| Occupation                               | 95.8                 |
| Period of Construction                   | 97.6                 |
| Principal Heating Fuel                   | 97.0                 |
| Principal Water Heating Fuel             | 97.1                 |
| Province, CD, CSD of Residence in 1976   | 95.2                 |
| Relationship to Person 1                 | 99.2                 |
| School Attendance                        | 98.2                 |
| Sex                                      | 99.2                 |
| Structural Type                          | 99.6                 |
| Tenure                                   | 99.1                 |
| Tenure - Condominium                     | 96.2                 |
| Weeks Worked                             | 94.7                 |
| When Last Worked                         | 96.5                 |
| Years of Other Non-University Education  | 95.9                 |
| Years of University                      | 97.0                 |

#### Processing Error

Processing errors can occur when write-in answers are coded, when responses on the questionnaire are transcribed to be read by the computer, and when imputations are done either for non-response or for edit rejects.

# Sampling Error

Data based upon responses collected on a sample basis and then weighted are subject to error due to the fact that the distribution of characteristics within the sample will not usually be identical to the distribution of characteristics within the population from which the sample has been selected.

The potential error that sampling has introduced will vary according to the relative scarcity of the characteristics in the population. For large cell values the potential error due to sampling, as a proportion of the cell value, will be relatively small. For small cell values this potential error, as a proportion of the cell value, will be relatively large.

Table 2 provides approximate measures of the error due to sampling. These measures are intended as a general guide only.

Table 2: Approximate Standard Error Due to Sampling for 1981 Census Sample Data

| Cell value Total number of persons, households, dwellings or families in geographic area |                                    |  |                                       |   |  |   |  |  |  |  |
|--|------------------------------------|--|---------------------------------------|---|--|---|--|--|--|--|
|  | 500                                | 1,000                                    | 5,000                                 | 10,000                                  | 20,000   | 50,000  | 100,000  | 250,000  | 1,000,000  | 5,000,000<br>or over   |
| 50<br>100<br>200<br>500<br>1,000<br>2,000<br>5,000<br>10,000<br>20,000<br>50,000         | 15<br>20<br>25<br>-<br>-<br>-<br>- | 15<br>20<br>25<br>30<br>-<br>-<br>-<br>- | 15<br>20<br>30<br>40<br>60<br>70<br>- | 15<br>20<br>30<br>45<br>60<br>80<br>100 | 15<br>20<br>30<br>45<br>60<br>85<br>120<br>140 | 15<br>20<br>30<br>45<br>65<br>90<br>135<br>180<br>220 | 15<br>20<br>30<br>45<br>65<br>90<br>140<br>190<br>255<br>315 | 15<br>20<br>30<br>45<br>65<br>90<br>140<br>195<br>270<br>400 | 15<br>20<br>30<br>45<br>65<br>90<br>140<br>200<br>280<br>435 | 15<br>20<br>30<br>45<br>65<br>90<br>140<br>200<br>280<br>445 |
| 100,000<br>500,000<br>or over  |                                    | -  | <del>-</del>                          | -                                       | -  | -   |  | 490<br>-   | 600<br>1,000   | 625<br>1,340   |

Users wishing to determine the approximate error due to sampling for any given cell of data based upon the 20% sample should follow the following procedures:

(a) A tabulation within this file will typically apply to a universe of persons, households, dwellings or families. It is first necessary to establish the total count for the particular geographic level - census tract, census subdivision, census division, province, etc. - to which the cell under consideration applies.

- (b) Choose the column in Table 2 whose heading is closest in value to the universe total count for the geographic area.
- (c) Choose the <u>row</u> within the column in Table 2 whose heading is closest to the value of the <u>given cell</u> in the census tabulation. The value within the column in this row will be the approximate standard error due to sampling for the cell under consideration.

The effect of the particular sample design and weighting procedure used in the 1981 Census will vary, however, from one characteristic to another. The standard error values in the above table may, therefore, understate or overstate the error due to sampling. The sample selected in the census is one of households rather than one of persons. In assessing the potential error due to sampling, for characteristics of persons, it is necessary to consider whether or not the response of all persons within the household will be similar. If they are not (uncorrelated), then the sampling error will tend to be lower. If they are (correlated) - e.g. migration - then the sampling error will tend to be higher.

For households, families, dwellings and uncorrelated person characteristics, when using these standard error values, the user can be reasonably certain that, for the enumerated population, the true value (discounting all forms of error other than sampling) lies within plus or minus twice the standard error (e.g., for a cell value of 1,000 for a geographic area with a population of 50,000 the range would be  $1,000 + \text{or}-2\times65$  or 1,000 + or-130). For correlated person characteristics, the user can be reasonably certain that, similarly, the true value lies within plus or minus three times the standard error (e.g., for a cell value of 5,000 for a geographic area with a population of 100,000 the range would be  $5,000 + \text{or}-3\times140$  or 5,000 + or-420).

Factors which can be applied as an adjustment to these standard error values for each individual variable may be obtained by contacting the nearest Statistics Canada reference centre.

These adjustment factors, additional information on the census methodology - in particular on sampling and weighting - and a more comprehensive assessment of the quality of the census data collected on a sample basis will be included in <u>Data Quality - Sample Population</u> (Catalogue No. 99-905).

#### GEOGRAPHIC REFERENCE PRODUCTS

# 1981 Census of Canada: Enumeration Area Reference Lists

- 99-909 Census Divisions and Subdivisions, Urban and Rural Atlantic Provinces
- 99-910 Census Divisions and Subdivisions, Urban and Rural Quebec
- 99-911 Census Divisions and Subdivisions, Urban and Rural Ontario
- 99-912 Census Divisions and Subdivisions, Urban and Rural Western Provinces and the Territories
- 99~913 Census Tracts
- 99-914 Provincial Census Tracts Atlantic Provinces

- 99-915 Provincial Census Tracts Quebec
- 99-916 Provincial Census Tracts Ontario
- 99-917 Provincial Census Tracts Western Provinces and the Territories
- 99-918 Census Metropolitan Areas and Census Agglomerations, Components

Changes to Municipal Boundaries, Status and Names (Catalogue No. 12-201, Annual)

Standard Geographical Classification, 1981, Vol. I (Catalogue No. 12-567, Occasional)

Standard Geographical Classification, 1981, Vol. II (Catalogue No. 12-568, Occasional).

#### REFERENCE PRODUCTS

The 1981 Census Dictionary (Catalogue No. 99-901) contains the complete range of definitions for all variables and terms used in the 1981 Census data products. Of general interest would be information contained in Summary Guide - Total Population (Catalogue No. 99-902) and Summary Guide - Sample Population (Catalogue No. 99-903) which include lists and indexes of tables appearing in the data publications, as well as reproductions of the census questionnaire forms and basic indicators of data quality. Further details on the data quality may be obtained from Data Quality - Total Population (Catalogue No. 99-904) and Data Quality - Sample Population (Catalogue No. 99-905).

A wide range of other analytical and reference products are available and described, along with information on data products and available services, in <u>Products and Services of</u> the 1981 Census of Canada.

#### **SECTION E**

#### **SPECIAL NOTES**

# Census Family Type Data

In previous censuses, the primary family was defined as the family of the head of the household. In 1981, the criterion for determining family type was changed. A new question was added to the census questionnaire to determine a person responsible for paying the rent, or mortgage, or taxes, or electricity, and is used to identify primary and secondary families.

Due to improvements in the method of determining Census Family Type implemented for the 1981 Census, caution should be used in comparing the distribution of primary and secondary families with data from previous censuses. For example, census families in private households where the person responsible for household payments is residing elsewhere are automatically classified as secondary families in 1981. In previous censuses, first, the identification of these cases was not possible and second, some of these families were classified as primary families.

Further explanation of these changes is included in the Summary Guide - Total Population (Catalogue No. 99-902).

# Geography Correction Notices

| Al | Problem: Incorrect enumeration area allocation                                    |                |
|----|---|----------------|
|    | (a) Alexander, LGD, Man. (SGC 4601071) - 1981 total population reads should read  | 2,793<br>1,908 |
|    | (b) Division No. 1, Unorganized, UNO, Man. (SGC 4601094)                          | V.             |
|    | - 1981 total population reads<br>should read                                      | 675<br>1,560   |
| A2 | Problem: Incorrect census subdivision limits                                      |                |
|    | (a) Meductic, VL, N.B. (SGC 1310013) - 1981 total population reads should read    | 234<br>197     |
|    | (b) Canterbury, PAR, N.B. (SGC 1310011) - 1981 total population reads should read | 649<br>686     |
| А3 | Problem: Incorrect census subdivision limits                                      |                |
|    | (a) Hillsborough Park, VL, P.E.I.<br>(SGC 1102017)                                |                |
| •  | - 1981 total population reads should read   | 1,227<br>1,036 |

|            | (b) East Royalty, VL, P.E.I. (SGC 1102020) - 1981 total population reads  | 1,696              |
|------------|---|--------------------|
|            | should read   | 1,863              |
|            | (c) Sherwood, VL, P.E.I. (SGC 1102019)  |                    |
|            | - 1981 total population reads should read   | 5,681<br>5,705     |
| <b>^</b> 4 |   | ,,,,,,             |
| A4         | Problem: Incorrect enumeration area allocation  |                    |
|            | (a) Chicken 224, R, Sask. (SGC 4718828)   | ^                  |
|            | - 1976 total population reads should read   | -A<br>528          |
|            |   | , <del></del>      |
|            | (b) Chicken 225, R, Sask. (SGC 4718823) - 1976 total population reads   | 528                |
|            | should read   | -                  |
|            | - 1981 total population reads<br>should read  | 236<br>26          |
|            |   | 20                 |
| •          | (c) Division No. 18, Unorganized, UNO, Sask. (SGC 4718090)  |                    |
|            | - 1981 total population reads   | 11,991             |
|            | should read   | 12,201             |
| <b>A</b> 5 | Problem: Incorrect census subdivision formation   |                    |
|            | (a) Fond du Lac 229, R, Sask. (SGC 4718824)   |                    |
|            | should be <u>deleted</u>  |                    |
|            | (b) Fond du Lac 227, R, Sask. (SGC code not yet assigned) - should be created - 1976 total population should read | 452                |
|            | - 1976 total population should read - 1981 total population should read   | 452<br>494         |
| A6         | Problem: Incorrect census consolidated subdivision codes  |                    |
|            | (a) Alert Bay 1, R, B.C. (SGC 5943801)  |                    |
|            | - CCS code reads should read  | 5943029<br>5943035 |
|            |   | <b>ファ4フ</b> ロファ    |
|            | (b) Alert Bay 1A, R, B.C. (SGC 5943802) - CCS code reads  | 5943029            |
|            | - CCS code reads<br>should read   | 5943035            |
| A7         | Problem: Incorrect census subdivision limits  |                    |
|            | (a) Jacquet River, VL, N.B. (SGC 1314002)   |                    |
|            | - 1981 total population reads   | 778                |
|            | should read   | 887                |
| -          | (b) Durham, PAR, N.B. (SGC 1314001)   | 0.454              |
|            | - 1981 total population reads should read   | 2,656<br>2,547     |
|            | Official Louis  | <b>6927</b>        |
|            |   |                    |

# A8 Problem: Incorrect census subdivision limits

|    | (a) Norway House 17, R, Man. (SGC 4622058)  - 1981 total population reads should read | 1,812<br>1,976 |
|----|---|----------------|
|    | (b) Division No. 22, Unorganized, UNO, Man. (SGC 4622046)                             |                |
|    | - 1981 total population reads   | 2,703          |
|    | should read   | 2,539          |
| Α9 | Problem: Incorrect census subdivision limits  |                |
|    | (a) Regina, C, Sask. (SGC 4706027)  |                |
|    | - 1981 total population reads   | 162,613        |
| -  | should read   | 162,984        |
|    | (b) Sherwood No. 159, RM, Sask.<br>(SGC 4706026)                                      |                |
|    | - 1981 total population reads   | 1,700          |
|    | should read   | 1,329          |

# A10 Problem: Incorrect census subdivision formation

(a) Kitimat 1, R, B.C. (SGC 5949803) should be deleted

# All Problem: Incorrect enumeration area allocation

#### Montréal, CMA

| (a) CT 382.01 (code 3122)<br>- 1981 total population reads<br>should read | 3,513<br>3,848 |
|---|----------------|
| (b) CT 382.02 (code 3123)<br>- 1981 total population reads<br>should read | 5,212<br>4,877 |

#### Inmates

Users should note that while some of the foregoing definitions of variables for which data were collected on a sample basis may specifically indicate the exclusion of "inmates", in actual fact, due to processing requirements, this is true of all population based tables in this report, even those involving cross-classification with data collected on a 100% basis (such as mother tongue). Moreover, the total population base for sample data, which can be referred to as the non-inmate population, will not exactly agree with the corresponding 100% figure, again due to a special processing requirement which lowered the final sample count by some 5,700 persons. Further details on this and any other processing changes affecting data comparability should be contained in Summary Guide - Sample Population (Catalogue No. 99-903) and Data Quality - Sample Population (Catalogue No. 99-905).

# Mother Tongue

Comparability of the 1981 and 1976 Census mother tongue data is affected by a number of factors:

- (a) There has been a decrease in the non-response rate from 1.9% in 1976 to 1.1% in 1981. As a result, an unknown portion of the change in any given mother tongue is due to a better enumeration of the population.
- (b) In the 1976 Census the 1.9% of the population who did not respond to the mother tongue question had their language coded as Not Stated. In the 1981 Census the 1.1% of the population who did not respond to the question were assigned a specific language (see table below).
- (c) Procedures for the removal of multiple responses, provided by 2.4% of the 1981 population, have changed for the 1981 Census. In 1976, an arbitrary and deterministic processing edit blanked the multiple responses, leaving only one valid response for each individual. In the 1981 Census, multiple languages were assigned a single response using probabilistic computer algorithms (see table below for the redistribution of combinations of English, French and Other).
- (d) The category "Indian, n.o.s." includes persons who are of aboriginal ancestry and those of Asian Indian ancestry. In 1976, these persons were all coded to "Native Indian" as mother tongue.

Mother Tongue Information as Reported by Assigned Mother Tongue, Canada, 1981

# 1981 mother tongue assigned as

Mother tongue as reported in 1981

|  | English          | French    | Other     |  |  |
|--|------------------|-----------|-----------|--|--|
| English only                           | 14,518,400       | ***       | •••       |  |  |
| French only                            | •••              | 6,077,695 | ***       |  |  |
| Other only <sup>1,2</sup>              | •••              | 2,495     | 2,897,730 |  |  |
| English and French <sup>3</sup>        | 103 <b>,</b> 595 | 104,650   | ***       |  |  |
| English and other <sup>2,4</sup>       | 122,655          | 235       | 202,640   |  |  |
| French and other <sup>5</sup>          | ***              | 9,305     | 12,945    |  |  |
| English, French and other <sup>3</sup> | 7 <b>,</b> 845   | 7,375     | 14,250    |  |  |
| Non-response                           | 165,970          | 47,340    | 48,060    |  |  |
| Total                                  | 14,918,460       | 6,249,095 | 3,175,625 |  |  |

Totals may not equal the sum of components due to rounding.

1 "Other" includes all non-official languages.

3 In 1976, a random choice was made between "English and French".

4 In 1976, all records with "English and other" were assigned to "English".

5 In 1976, all records with "French and other" were assigned to "French".

<sup>2</sup> A number of write-in languages were potentially changed to French by computer edit (e.g., "Belgian" could be either "French" or "Flemish").

Users of these data should be aware that there is some impact on the comparability of the 1981 with 1976 Census data due to changes in processing procedures. However, problem-free information was provided by 96.5% of the population. Furthermore, for 98.0% of the population, the same data would have been published for 1981, whether the 1976 or the 1981 processing methodology had been used. For a more detailed explanation, users are referred to Data Quality -Total Population (Catalogue No. 99-904).

# Number of Weeks Worked

The data on the number of weeks worked for the categories 40 to 48 weeks and 49 to 52 weeks should be used with caution. It appears that some respondents had a tendency to not include their weeks of paid leave for vacation or for other reasons in their total number of weeks worked, although instructed to do so. The 49 to 52 weeks category may therefore be underestimated.

# Occupation

The data on Unit Groups 2791 ("Community College and Vocational School Teachers") and 2793 ("Post-secondary School Teachers, n.e.c.") for Quebec must be combined to permit comparisons with the corresponding groups for other provinces or with 1971 data because the Standard Occupational Classification misclassifies CEGEP professors in Unit Group 2793 when they should be included in 2791.

# Ottawa-Hull Census Metropolitan Area

Due to the method of production used for the <u>Basic Series</u> of User Summary Tapes and microfiche, it was not feasible to produce a census metropolitan area total for areas crossing provincial boundaries. Consequently, for the census metropolitan area of Ottawa-Hull it is necessary to add together data for Ottawa-Hull from both the Ontario and Quebec parts in order to obtain a total. A total for the complete census metropolitan area of Ottawa-Hull is shown in the Profile Series as a different method of production was used.

# Residual Totals

In the Special Series, where remainder or residual totals are shown, the total may be equal to the province or territory total. The problem arises in Prince Edward Island, the Yukon and Northwest Territories where there are no census metropolitan areas. Consequently, some repetition of data is unavoidable. A similar situation exists for census tracts in the Basic Series, where the provincial census tract subtotal is equal to the province or territory total for the above-mentioned areas.

# Schooling Data

Comparisons of the 1981 Census schooling data with past censuses or with other sources should generally be restricted to uniform characteristics, and to similar temporal and population components. I General comparisons that are made should take note of the fact that the 1981 schooling data, in contrast to that for previous census years, exclude inmates of institutions, and are reported only for the population 15 years and over, in contrast with 1971 and earlier censuses which reported schooling figures for the population 5 years and over. More specifically, there is one main aspect of the 1981 schooling data which distinguish it from other sources.

The main aspect of the 1981 Census schooling data where comparability is affected is in the "other non-university education" category. The other non-university education concept differs from previous censuses and from other measures of the so-called post-secondary non-university concept in two respects. First, in contrast to the 1976 Census, this question now relates to all university transfer courses of community colleges, and the CEGEP general of Quebec; therefore, a shift in the data from university to non-university can be expected and does indeed occur between 1976 and 1981 (especially for the CEGEP population). Second, the 1981 question has been broadly conceptualized to encompass all non-university schooling beyond elementary or secondary, regardless of secondary school graduation. The 1981 other non-university education concept covers a broad spectrum of schooling that includes the conventional post-secondary areas as well as other training in the trades and vocational areas.

# Standard Geographical Classification Codes

Due to a Statistics Canada policy of standardizing geographical codes wherever possible, census codes are no longer available. To uniquely identify any geostatistical area in Canada, it is necessary to employ the Standard Geographical Classification codes. For example, in 1976, a 4-digit census code uniquely identified census subdivisions within provinces. In 1981, it is necessary to use a 2-digit census division code plus a 3-digit census subdivision code to uniquely identify those census subdivisions.

# Structural Type Data

The reporting of Structural Type of dwelling in any census or survey can be expected to be subject to potentially significant response error. This is perhaps due in part to the variety of sometimes complex structures, regional differences in terminology, and local real estate advertising. The level and nature of this error have been shown to vary according to the methodology used to collect the data. For the 1976 Census, the Structural Type was determined by the Census Representative. For the 1981 Census the Structural Type was determined by the respondent.

Analysis has shown that the 1976 data contained substantially fewer errors than the 1981 data for this variable. Comparisons between 1976 and 1981 Census data for Structural Type will therefore reveal certain inconsistencies. (Note: The count of dwellings is not in question, only how the total number of dwellings is broken down into Structural Type.) These inconsistencies will vary in degree from one geographic area to another and from one Structural Type to another.

Users interested in historically comparable census education data for years 1971, 1976 and 1981 are referred to Special Bulletin, Catalogue No. 13-579: Historical Tables for Census Education Data: 1971, 1976 and 1981, to be released at a later date.

Geographically the degree of error in dwelling classification is highest in the core areas of larger cities; those areas with older and converted or complex structures for which proper classification by respondents would be more difficult. The degree of error decreases as one moves outward from the core areas. Indeed there do not appear to be data quality problems in this regard for rural areas.

From the structural perspective the counts for Apartments in buildings with five or more storeys are believed to be relatively accurate. Counts for other types of dwellings in multiple unit structures (e.g., Apartments in buildings of less than five storeys and Row Houses), on the other hand, may contain varying degrees of error. For these dwellings there have been two types of misclassification. First, there are misclassifications among various types of the multiple unit structures. For example, Apartments in buildings of less than five storeys have frequently been classified as Row Houses, Semi-detached, etc. Second, there are some misclassifications between multiple and single structures. For example, a Duplex may have been misclassified as a Single Detached.

A substantial amount of the Structural Type error is misclassification among multiple unit structures. For this reason the user is advised to use the 1981 Census Structural Type data, whenever possible, by collapsing into four categories: Single Detached, Apartment in a building with five or more storeys, Movable (i.e. Mobile and Other Movable), and All Other. The error in the aggregated data will be reduced but it will not be eliminated. The misclassification of dwellings in multiple unit structures can be expected, where it occurs, to result in an underreporting for the "All Other" category and a compensating overreporting for Single Detached. The significance of this error (as a percentage) in the count of Single Detached can be expected to decrease as the proportion of true Single Detached in the geographic area increases.

The question is: "How can one determine the level of error in any given tabulation of Structural Type and is it possible to compensate or adjust for this error?". The answer will depend upon the tabulation and the specific use of the data.

For Enumeration Area level tabulations, for example, only the above general statements can be applied to the data. If the Enumeration Area is in a rural area, the data can be used with the same confidence as other data, with comparable cell sizes, for the Enumeration Area. On the other hand, if the Enumeration Area is in an urban core area with 50% of the reported dwellings in multiple unit structures, then the data on Structural Type would not be usable for any but the most general purposes, particularly for the full range of Structural Types.

For Census Tract, Census Subdivision, Census Division, Census Metropolitan Area, Province level tabulations, as examples, it is possible (with some cross-reference to other 1981 Census information and to 1976 Structural Type data) to determine whether for the particular tabulation there is a data quality problem for Structural Type, the degree of this problem, and most probably how the data have been misclassified.

The procedure is based upon Period of Construction data. These data, which were collected on a sample basis in the 1981 Census, permit the identification of new construction - i.e. of occupied dwellings constructed in the period 1976-1980 plus those constructed in the first five months of 1981. To the extent that dwelling stock is stable (ideally no conversions and no demolitions) over a five-year period, then adding the new construction - obtained from the 1981 Census data - to the 1976 Census Structural Type counts should yield values close to those for the 1981 Census. The degree to which these adjusted counts do not agree with 1981 counts by Structural Type should give a clear indication of the quality of the data - both 1981 and 1976.

Three basic steps are involved in making this assessment of the quality of the data:

# (1) Ascertain the 1976 Census geographic area corresponding to the 1981 Census geographic area for which Structural Type data are being tabulated.

For many tabulations the 1976 and 1981 Censuses will correspond exactly in geography. To assist in this determination the user may refer to a variety of bulletins.

# (i) Census Divisions and Census Subdivisions

1976: 92-802 to 92-805; 92-911 (Reference Maps)

1981: 93-901 to 93-912, Table 4; 99-907 (Reference Maps -CDs/CSDs)

The magnitude of the area affected by a boundary change can be determined by comparing the 1976 and 1981 Reference Maps or by consulting the SGC manual Volume 1 (Appendix 2) Catalogue No. 12-567.

The magnitude of the population affected by a boundary change can be determined by comparing the adjusted 1976 population figure (i.e. based on 1981 area) reported in the 1981 bulletin with the final 1976 population figure reported in the 1976 bulletin.

# (ii) Census Metropolitan Areas

1976: 92-809; 92-811 (Reference Maps)

1981: 95-903; 99-906 (Reference Maps - CMAs/CAs)

The magnitude of the area affected by a boundary change can be determined by comparing the 1976 and 1981 Reference Maps.

The magnitude of the population affected by a boundary change can be determined by comparing the adjusted 1976 population figure (i.e. based on 1981 area) reported in the 1981 bulletin with the final 1976 population figure reported in the 1976 bulletin.

# (iii) Census Agglomerations

1976: 92-809; 92-811 (Reference Maps)

1981: 95-903; 99-906 (Reference Maps - CMAs/CAs)

Same as (ii) above except users should note that CAs experienced a change of definitional criteria between 1976 and 1981 that can greatly affect the CAs. These changes are over and above any changes to the boundaries of component CSDs.

#### (iv) Census Tracts

1976: 95-800 to 95-831 (Maps included)

1981: 95-905 to 95-940 (Maps included)

The magnitude of the area affected by a boundary change can be determined by comparing the 1976 and 1981 Reference Maps.

The magnitude of the population affected by a boundary change can be determined by comparing the adjusted 1976 population figure (i.e. based on 1981 area) reported in the 1981 bulletin with the final 1976 population figure reported in the 1976 bulletin.

#### (v) Federal Electoral Districts

The Federal Electoral District level data cannot easily be assessed for the reason that 1976 data follow the 1966 Representation Order, and 1981 data are according to the 1976 Representation Order, except for 1976 bulletin 92-808, which does present basic structural type information according to the 1976 Representation Order. The corresponding bulletin in 1981 is Catalogue No. 95-901.

Minor differences in geographic boundaries which cannot be isolated should not invalidate the assessment. Substantial differences, however, would preclude proper assessment. (e.g., the Enumeration Area level data cannot be assessed for the reason that Enumeration Area boundaries differ greatly between 1976 and 1981.)

# (2) Bring together, for the given geographic area (or areas), the 1976 and 1981 Structural Type data with the 1981 data cross-tabulated by Period of Construction (sample data) and produce "adjusted" 1981 counts.

For all Structural Types the newer construction (that with Period of Construction 1976-1981 or 1976-1980 plus 1981) reported in the 1981 Census must be added to the total for each Structural Type (or for some collapsed version) reported in 1976 to produce "adjusted" 1981 counts. Period of Construction data cross-tabulated with Structural Type are being specially prepared for use in carrying out this procedure. These tabulations will be available in March of 1983. Users of tape/fiche data should note that cross-tabulations of Period of Construction by Structural Type are planned at the Census Tract level (CTW81B22) and Census Subdivisions of 5,000 population and over (SPW81B13).

It should be noted that if there is no significant amount of new construction for the geographic area of interest (in which case the counts of total occupied private dwellings in 1981 and 1976 should be approximately equal) then Period of Construction data are not needed and this part of the procedure need not be applied.

(3) Compare the 1981 Census counts by Structural Type with the adjusted 1981 Census counts by Structural Type and assess differences.

If the geographic areas being compared are identical, then the 1981 counts and the adjusted 1981 counts should be similar. (For this comparison the two 1981 Apartment categories must be added to be comparable to the 1976 count of Apartments.) There will be many cases for which there will be differences - some small and some large. What must be done is to make some judgement of the possible reasons for a discrepancy.

#### Possible Reasons for Differences

- (a) Dwellings constructed in the period January May 1976 cannot be isolated in the 1981 data. Since occupied dwellings constructed in that period are included in the 1976 Census counts the adjusted 1981 counts will be higher than the published 1981 estimates.
  - If, in proportional terms, for any Structural Type there is a significant number of dwellings with Period of Construction of 1976-1981, then it may be necessary to readjust the counts to "correct" for the January May 1976 construction. Without additional information, 5/60th of the 1976-1980 count or 5/65th of the 1976-1981 count should be subtracted from the earlier adjusted 1981 count. It should be remembered, however, that for small geographic areas such an adjustment may tend to be unreliable.
- (b) It must be remembered that the Period of Construction data are based upon a sample and as such are subject to sampling error. A discussion of the impact of sampling error will be given with any 1981 Census Bulletins which include tabulations of sample data (e.g. Period of Construction) and in the publication Data Quality Sample Population (Catalogue No. 99-905). The sampling error for most tabulations should not be sufficient to invalidate the assessment procedure but will explain some amount of any differences.
- (c) The Period of Construction data are also subject to response error. The significance of such error for any given tabulations will depend upon the proportion of reported newer construction.
- (d) Since tabulations being checked will be for occupied dwellings, differing vacancy rates for the 1976 and 1981 Censuses would result in a corresponding difference in occupied dwelling stock counts.
- (e) Demolitions between the two censuses will cause the adjusted 1981 Census counts to be higher than the corresponding 1981 Census counts.
- (f) Conversions (e.g., converting a Single Detached to Apartments) may legitimately result in a decrease in the count for one dwelling type and an increase in the count for another. Generally such conversions should not have been reported among the new construction.

All of items (a) to (f), with the possible exception of sampling errors, should individually manifest themselves by way of a difference in the estimated total occupied dwelling stock for the area (comparing the 1981 total with the adjusted 1981 total). Collectively there may be a cancelling effect (e.g., demolitions and conversions). These will also cause changes in the counts for particular Structural Types.

As a possible source of differences, response error will manifest itself not by a difference in estimated total occupied dwelling stock but by a shift in the count of dwellings between two or more Structural Types. If there is a major response error the shift will be obvious. The following hypothetical example will serve as an illustration.

Comparison of 1981 and Adjusted 1981 on Occupied Dwellings by Structural Type

| Area | Aparto<br>1981 | ents (000's)<br>Adj. 1981 | Other M<br>1981 | 1ultiple (000's)<br>Adj. 1981 | Single De<br>1981 | etached (000's)<br>Adj. 1981 |
|------|----------------|---------------------------|-----------------|-------------------------------|-------------------|------------------------------|
|      |                |                           | ·:-             |                               |                   |                              |
| А    | 260            | 361                       | 130             | 30                            | 20                | 19                           |
| В    | 385            | 400                       | 53              | 40                            | 10                | 8                            |
| С    | 150            | 155                       | 36              | 35                            | 40                | 41                           |
| D    | 78             | 78                        | 24              | 24                            | 56                | 56                           |

For area A there is a significant response error which has manifested itself by a shift from Apartment (in 1976) to other types of dwellings in multiple unit structures, and, to a lesser degree, to Single Detached. It is reasonable to conclude that, for this area, the 1981 classification by Structural Type contains, as a minimum, the degree of error implied by the differences in the counts and that the adjusted 1981 counts more accurately reflect the Structural Type distribution for the area. At the same time it is also reasonable to conclude that classification problems were present in the 1976 Census as well. While the 1976 counts - based upon evaluation of 1976 and 1981 data can be expected to be very much more accurate than the 1981 counts, in this case they may still contain non-negligible error. The largest proportion of such error will be among the multiple unit structures (Apartments plus Other Multiple in this example).

For area B there is likely also a response error with the same direction of misclassification as for area A. The adjusted 1981 counts can be expected to contain some amount of error, but because the data are much less inconsistent (than those for area A) the data can be used with much greater confidence.

For area C there are discrepancies, but these may be caused by a combination of problems. For this area the 1981 count of total occupied dwelling stock is 226. The adjusted 1981 count of total occupied dwelling stock is 231. Thus the majority of the apparent differences must be due to reasons other than response error. The most plausible source of the differences will be the Period of Construction data (see (a), (b) and (c) under Possible Reasons for Differences), although the conformity of the 1976 and 1981 geography should be verified.

For area D there are no differences and the data can be used with confidence.

It should be noted that collapsing of Structural Types, as in the illustration, should be done whenever possible as it is easier to assess the cause of differences for large cells. It should also be noted that shifts in the counts for Movable dwellings are very difficult to assess. These dwellings may have a higher than average demolition rate, they can be moved out of or into an area, and they can be converted perhaps more readily than other types of dwellings.

As part of the investigations which have resulted in this cautionary note, the above procedure was carried out for a sample of geographic areas. The results for a sample of Census Metropolitan Areas, as an example, showed that significant response error was isolated to specific municipalities, that for the majority of municipalities there was no identifiable data quality problem, and that where response errors apparently did occur, the shifts by Structural Type were immediately evident.

Further information on the quality of the Structural Type data will be included in Data Quality -Total Population (Catalogue No. 99-904).

# Type of Household Data

Due to a change in the method of determining family type, implemented for the 1981 Census, caution should be used in comparing the distribution of primary and secondary families with data from previous censuses. Since the delineation of type of household is dependent upon family type, the same caution should be exercised in comparing the 1981 data for secondary family households with the corresponding figures in previous censuses.

An explanation of these changes, and if applicable, the impact of such changes on the data for household type in general, will be included in the <u>Summary Guide - Total Population</u> (Catalogue No. 99-902).

#### Zero Cells

In User Summary Tapes and microfiche, a cell containing a "zero" value may represent any one of the following:

- (1) nil or zero.
- (2) figures not appropriate or not applicable.

Due to the method of production it was not possible to use the standard symbols normally used in publications.

#### Income

Users are advised to consult the 1981 Census Dictionary, Catalogue No. 99-901, for a broad definition and derivation of total, average and median incomes, standard error of average income, major source of income and incidence of low income (income status). It should be noted that in the case of total income, employment income and wages and salaries, for the population (individuals 15 years and over), averages, medians and standard errors are calculated for individuals with income only. For all other universes, these statistics refer to all units, whether or not they reported any income. Aggregate income is the product of rounded count and unrounded average. The product is then rounded to the nearest thousand. However, the percentage distributions of aggregate income have been calculated prior to the rounding to thousands.

For the purposes of low income statistics, economic families and unattached individuals resident in the Yukon and Northwest Territories and on Indian Reserves are excluded from the estimates.

For a more comprehensive definition of (a) the components of total income and exclusions from the income concept, (b) the calculation of average income and median income and the interpretation of the standard error of average income, (c) the major source of income for the various universes, and (d) concept, coverage and derivation of low income statistics, see the relevant text in the following publications:

Catalogue No. 92-928 - Population, Total Income

Catalogue No. 92-934 - Private Households, Income

Catalogue No. 92-936 - Census Families in Private Households, Income

Catalogue No. 92-937 - Economic Families in Private Households, Income and Selected Characteristics

For information on the sources of income and their historical comparability, see Catalogue No. 99-903, Summary Guide - Sample Population.

For information on the quality aspects of income data, the user is referred to Catalogue No. 99-905, Data Quality - Sample Population.

Census income statistics are subject to sampling variability. Although such sampling variability may be quite small for large population groups, its effects cannot be ignored in the case of very small subgroups of population in an area or in a particular category. This is because, all other things being equal, the larger the sample size, the smaller is the error. For this reason income data on areas, other than enumeration areas, where the population was below 250, have been suppressed. The suppression criterion for enumeration areas is reduced to 25 or 50 persons. Where statistics are not suppressed but are still based on relatively small totals, the users are strongly advised to exercise caution in the use and interpretation of these statistics.