FILE CTC81B10

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ZONED / NON - CONDENCEE

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	 Sequence of 1981 Census User Summary Tape Files Geographic Definitions
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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: CTC81B10

Largest Absolute Value: 24,083,488

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SECTION 2

GENERAL FILE INFORMATION

Format: ZONED

The File Name is: CTC81B10

The Data Control Block is:

The Record Format	= .	FB
Logical Record Length	=	1,780
Geographical Identification	Ξ	52
Data Cells Length	=	1,728
The Blocksize	= .	10,680
Number of Cells for Each Record	11	192
Total Number of Records Written Out	= ,	5,121

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PAGE

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FIELD# START POS# END POS# DESCRIPTION

REGION	REGION/PROVINCE	REGION/PRDV/CMACA	PROVINCE	CENSUS METROP. AREA/CENSUS AGGLOMERATION	CT/PCT NUMBER	CENSUS TRACT/PROVINCIAL CENSUS TRACT	CMACA SELECTOR	CMACA SIZE	CMA/CA NAME
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-	-	-	5	ю	Q	61	17	18	6
-	7	ю	ব	വ	G	٢	Ø	თ	10

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83/07/06			

CTC81B11 - POPULATION BY HOME LANGUAGE(14) AND SEX(3) - 1981 TABLE TITLE:

BYTES/CELL	ŋ	
SIGN	WHOLE BYTE ON LEFT	
#INTEGERS #DECIMALS	0	RIPTION
#INTEGERS	б	POS# DESC
FORMAT	NUMERIC	POS# END
TABLE NAME	CTC81B11	FIELD# START POS# END POS# DESCRIPTION

TOTAL	TOTAL	MOTHER TONGUE AND HOME LANGUAGE ENGLISH	MOTHER TONGUE ENGLISH - HOME LANG FRENCH	MOTHER TONGUE ENGLISH	MOTHER TONGUE FRENCH - HOME LANG ENGLISH	MOTHER TONGUE AND HOME LANGUAGE FRENCH	MOTHER TONGUE FRENCH	OTHER MOTHER TONGUE - HOME LANG ENGLISH	OTHER MOTHER TONGUE - HOME LANG FRENCH	OTHER MOTHER TONGUE SAME AS HOME LANGUAGE	OTHER MOTHER TONGUE	ENGLISH HOME LANGUAGE	FRENCH HOME LANGUAGE	OTHER HOME LANGUAGE	MALES	TOTAL	MOTHER TONGUE AND HOME LANGUAGE ENGLISH	MOTHER TONGUE ENGLISH - HOME LANG FRENCH	MOTHER TONGUE ENGLISH	MOTHER TONGUE FRENCH - HOME LANG ENGLISH	MUTHER TONGUE AND HOME LANGUAGE FRENCH	MOTHER TONGUE FRENCH
	61	70	46	88	97	106	115	124	133	142	151	160	169	178		187	196	205	214	223	232	241
	53	62	14	80	68	86	107	116	125	134	143	152	161	170		179	188	197	206	215	224	233
	11	42	en F	14	15	16	17	18	19	20	21	22	23	24		25	26	27	28	29	30	31

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R Y F I L E C R E A T E D * * PAGE E(S) D E S C R I P T I O N * * *****************************	DESCRIPTION OTHER MOTHER TONGUE - HOME LANG ENGLISH			OTHER MOTHER TONGUE	ENGLISH HOME LANGUAGE	FRENCH HOME LANGUAGE	OTHER HOME LANGUAGE	FEMALES	TOTAL	MOTHER TONGUE AND HOME LANGUAGE ENGLISH	MOTHER TONGUE ENGLISH - HOME LANG FRENCH	MOTHER TONGUE ENGLISH	MOTHER TONGUE FRENCH - HOME LANG ENGLISH	MOTHER TONGUE AND HOME LANGUAGE FRENCH	MOTHER TONGUE FRENCH	OTHER MOTHER TONGUE - HOME LANG ENGLISH	OTHER MOTHER TONGUE - HOME LANG FRENCH	OTHER MOTHER TONGUE SAME AS HOME LANGUAGE	OTHER MOTHER TONGUE	ENGLISH HOME LANGUAGE	FRENCH HOME LANGUAGE	OTHER HOME LANGUAGE
* SUMMAR * 1 A B L E ***************	POS# END POS# [242 250	5† 259	50 268	59 277	286 286	37 295	304	44	313	4 322	331	340	1 349	0 358	9 367	376	7 385	6 394	5 403	4 412	3 421	2 430
* * *	FIELD# START P 32 24	33 251	34 260	35 269	36 278	37 287	38 296		39 305	40 314	41 323	42 332	43 341	44 350	45 359	46 368	47 377	48 386	49 395	50 404	51 413	52 422

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**********	* SUMMARY F	* TABLE(S) D	******************
83/07/06			

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TABLE TITLE: CTC81B12 - POPULATION BY OFFICIAL LANGUAGE(5) AND SEX(3) -1981

BYTES/CELL σ WHOLE BYTE ON LEFT SIGN TABLE NAME FORMAT #INTEGERS #DECIMALS FIELD# START POS# END POS# DESCRIPTION 0 თ NUMERIC CTC81812

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TOTAL	TOTAL	ENGLISH ONLY	FRENCH ONLY	BOTH ENGLISH AND FRENCH	NEITHER ENGLISH NOR FRENCH	MALES	TDTAL	ENGLISH ONLY	FRENCH ONLY	BOTH ENGLISH AND FRENCH	NEITHER ENGLISH NOR FRENCH	FEMALES	TOTAL	ENGLISH ONLY	FRENCH ONLY	BOTH ENGLISH AND FRENCH	NEITHER ENGLISH NOR FRENCH
	439	448	457	466	475		484	493	502	511	520		529	538	547	556	565
	-	0	5	8	1		9	5	4	33	2		F a	õ	66	8	57
	431	440	449	458	467		476	485	494	503	512		521	530	539	548	557
	53	54	52	56	57		58	53	60	61	62		63	64	65	66	67

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TABLE TITLE: CTC81813 - POPULATION BY ETHNIC ORIGIN(12) AND SEX(3) - 1981

BYTES/CELL σ WHOLE BYTE ON LEFT SIGN TABLE NAME FORMAT #INTEGERS #DECIMALS FIELD# START POS# END POS# DESCRIPTION 0 **б** NUMERIC CTC81B13

TOTAL	TOTAL	BRITISH	FRENCH	DUTCH (NETHERLANDS)	GERMAN	ITALIAN	NATIVE PEOPLES	POL I SH	SCANDINAVIAN	UKRAINIAN	OTHER SINGLE DRIGINS	MULTIPLE ORIGINS	MALES	TOTAL	BRITISH	FRENCH	DUTCH (NETHERLANDS)	GERMAN	ITALIAN	NATIVE PEOPLES	POLISH	SCANDINAVIAN
	574	583	592	601	610	619	628	637	646	655	664	673		682	691	700	709	718	727	736	745	754
	566	575	584	593	602	611	620	629	638	647	656	665		674	683	692	701	710	719	728	737	746
	68	69	70	71	72	13	74	75	76	77	78	64		80	81	82	83	84	85	86	87	88

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**************************************	DESCRIPTION UKRAINIAN	OTHER SINGLE ORIGINS	MULTIPLE ORIGINS	FEMALES	τοται	BRITISH	FRENCH	DUTCH (NETHERLANDS)	GERMAN	ITALIAN	NATIVE PEOPLES	HSITOd	SCANDINAVIAN	UKRAINIAN	OTHER SINGLE ORIGINS	MULTIPLE ORIGINS
*********** S U M M A R T A B L E ***********	END POS# 763	772	781		790	799	808	817	826	835	844	853	862	871	880	889
	START POS# 755	764	273		782	791	800	808	818	827	836	845	854	863	872	881
83/01/06	FIELD# 89	06	91		92	8 6	94	95	96	67	86	66	100	101	102	103

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PAGE 6

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	SUMMA	* TABLE(S) DESCRIPTION *	***************************************

TABLE TITLE: CTC81B14 - POPULATION BY PLACE OF BIRTH(11) AND SEX(3) - 1981

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BYTES/CELL	თ	
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#INTEGERS #DECIMALS	0	RIPTION
#INTEGERS	თ	POS# DESC
FORMAT	NUMERIC	POS# END
TABLE NAME	CTC81B14	FIELD# START POS# END POS# DESCRIPTION

TOTAL	890 898 TOTAL POPULATION	899 907 BORN IN PROVINCE OF RESIDENCE	908 916 BORN IN OTHER PROVINCE	917 925 BORN IN CANADA	926 934 BORN IN UNITED STATES OF AMERICA	935 943 BORN IN CENTRAL AND SOUTH AMERICA	944 952 BORN IN UNITED KINGDOM	953 961 BORN IN OTHER EUROPEAN	962 970 BORN IN ASIA	971 979 BORN IN OTHER	980 988 BORN OUTSIDE CANADA	MALES	989 997 TOTAL POPULATION	998 1006 BORN IN PROVINCE OF RESIDENCE	1007 1015 BORN IN DTHER PROVINCE	1016 1024 BORN IN CANADA	1025 1033 BORN IN UNITED STATES OF AMERICA	1034 1042 BDRN IN CENTRAL AND SDUTH AMERICA	1043 1051 BORN IN UNITED KINGDOM	1052 1060 BORN IN DTHER EUROPEAN	1061 1069 BORN IN ASIA	1070 1078 BORN IN OTHER
	104	105	106	107	108	109	110	111	112	113	114		115	116	117	118	119	120	121	122	123	124

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**************************************	POS# END POS# DESCRIPTION 79 1087 BORN OUTSIDE CANADA	FEMALES	88 1096 TOTAL POPULATION	97 1105 BDRN IN PROVINCE OF RESIDENCE	06 1114 BORN IN OTHER PROVINCE	15 1123 BORN IN CANADA	24 1132 BORN IN UNITED STATES OF AMERICA	33 1141 BDRN IN CENTRAL AND SOUTH AMERICA	42 1150 BORN IN UNITED KINGDOM	51 1159 BORN IN OTHER EUROPEAN	60 1168 BORN IN ASIA
**************************************	START PDS# END F 1079 108		1088 109	1097 110	1106 111	1115 112	1124 115	1133 114	1142 115	1151 115	1160 116

BORN OUTSIDE CANADA

BORN IN OTHER

1177 1186

1169 1178

135 136

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TABLE TITLE: CTC81B15 - POPULATION BORN OUTSIDE CANADA BY PERIOD OF IMMIGRATION(7) AND SEX(3) - 1981

BYTES/CELL თ WHOLE BYTE ON LEFT SIGN #DECIMALS DESCRIPTION 0 #INTEGERS თ END POS# NUMERIC FORMAT FIELD# START POS# TABLE NAME CTC81815

TOTAL POPULATION BORN OUTSIDE CANADA TOTAL POPULATION BORN OUTSIDE CANADA TOTAL POPULATION BORN OUTSIDE CANADA PERIOD OF IMMIGRATION BEFORE 1945 PERIOD OF IMMIGRATION BEFORE 1945 PERIOD OF IMMIGRATION BEFORE 1945 PERIOD OF IMMIGRATION 1955-1969 PERIOD OF IMMIGRATION 1955-1969 PERIOD OF IMMIGRATION 1955-1969 PERIOD OF IMMIGRATION 1945-1954 PERIOD OF IMMIGRATION 1970-1977 PERIOD OF IMMIGRATION 1978-1981 PERIOD OF IMMIGRATION 1945-1954 PERIOD OF IMMIGRATION 1970-1977 PERIOD OF IMMIGRATION 1978-1981 PERIOD OF IMMIGRATION 1945-1954 NON-IMMIGRANT NON-IMMIGRANT FEMALES TOTAL MALES 1240 1249 1303 1195 1204 1213 1222 1231 1258 1267 1276 1285 1294 1312 1321 1330 1339 1348 1196 1205 1214 1223 1232 1241 1250 1259 1268 1286 1295 1313 1322 1331 1340 1187 1277 1304 138 139 143 150 153 140 142 145 146 148 149 152 154 137 141 144 147 151

PERIOD OF IMMIGRATION 1970-1977

1357

1349

155

PAGE 9

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************	SUMMARY	TABLE(S)	***********
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FIELD# START POS# END POS# DESCRIPTION 1978-1981 156 PERIOD OF IMMIGRATION 1978-1981

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TABLE TITLE: CTC81B16 - POPULATION BY RELIGION(10) AND SEX(3) - 1981

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BYTES/CELL ດ WHOLE BYTE ON LEFT SIGN #INTEGERS #DECIMALS 0 თ NUMERIC TABLE NAME FORMAT CTC81B16

FIELD# START POS# END POS# DESCRIPTION

TOTAL	TOTAL	CATHOLIC	UNITED CHURCH	ANGLICAN	PROTESTANT	EASTERN ORTHODOX	UEWISH	NO RELIGIOUS PREFERENCE	EASTERN NON-CHRISTIAN	OTHER	MALES	TOTAL	CATHDLIC	UNITED CHURCH	ANGLICAN	PRDTESTANT	EASTERN DRTHODOX	UEWISH	NO RELIGIOUS PREFERENCE	EASTERN NON-CHRISTIAN	OTHER
	1384	1393	1402	1411	1420	1429	1438	1447	1456	1465		1474	1483	1492	1501	1510	1519	1528	1537	1546	1555
	1376	1385	1394	1403	1412	1421	1430	1439	1448	1457		1466	1475	1484	1493	1502	1511	1520	1529	1538	1547
	158	159	160	161	162	163	164	165	166	167		168	169	170	171	172	173	174	175	176	177

FEMALES

83/07/06		* * * * * * * * * * * * * * * * * * *	**************************************
FIELD# 178	START PDS# 1556	END POS# 1564	DESCRIPTION TOTAL
179	1565	1573	CATHOLIC
180	1574	1582	UNITED CHURCH
181	1583	1591	ANGLICAN
182	1592	1600	PROTESTANT
183	1601	1609	EASTERN ORTHODOX
184	1610	1618	UEWISH
185	1619	1627	NO RELIGIOUS PREFERENCE
186	1628	1636	EASTERN NON-CHRISTIAN

OTHER

1645

1637

187

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20 YEARS AND DVER

0-4 YEARS 5-19 YEARS

NON-IMMIGRANT

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	CHAR(1)	CHAR(1)	CHAR(3)	CHAR(7)	CHAR(4)	CHAR(1)	CHAR(1)	CHAR(32)	CHAR(2)	PICTURE 'S' 9)9V(0)9
										14)
										(3,14)
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1 CTC81B10	8	д (5 CA	5 CTPN	5 cT	5 CASL	5 CASZ	5 CANM	5 FILL1	5 CTC81B11
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/* DEFINITION FOR ENTRIES IN SUBSCRIPT# 1

ENTRY# DESCRIPTION

1 TOTAL

2 MALES

3 FEMALES

DEFINITION FOR ENTRIES IN SUBSCRIPT# 2

ENTRY# DESCRIPTION

1 TOTAL

2 MOTHER TONGUE AND HOME LANGUAGE ENGLISH

3 MOTHER TONGUE ENGLISH - HOME LANG FRENCH

4 MOTHER TONGUE ENGLISH

5 MOTHER TONGUE FRENCH - HOME LANG ENGLISH

15 15 PAGE

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- MOTHER TONGUE FRENCH 2
- OTHER MOTHER TONGUE HOME LANG ENGLISH **0**0
- OTHER MOTHER TONGUE HOME LANG FRENCH σ
- OTHER MOTHER TONGUE SAME AS HOME LANGUAGE ₽

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- OTHER MOTHER TONGUE ÷
- ENGLISH HOME LANGUAGE 5
- FRENCH HOME LANGUAGE 0
- OTHER HOME LANGUAGE 14

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(3,5) 5 CTC81B12

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

DEFINITION FOR ENTRIES IN SUBSCRIPT#

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ENTRY# DESCRIPTION

- TOTAL +
- MALES 3
- FEMALES ო

DEFINITION FOR ENTRIES IN SUBSCRIPT# 2

ENTRY# DESCRIPTION

- TOTAL --
- ENGLISH ONLY 2
- FRENCH ONLY ო

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- 4 BOTH ENGLISH AND FRENCH
- 5 NEITHER ENGLISH NOR FRENCH

/*

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

5 CTC81B13 (3, 12)

/* DEFINITION FOR ENTRIES IN SUBSCRIPT# 1

ENTRY# DESCRIPTION

- 1 TOTAL
- 2 MALES
- 3 FEMALES

DEFINITION FOR ENTRIES IN SUBSCRIPT# 2

ENTRY# DESCRIPTION

- 1 TOTAL
- 2 BRITISH
- 3 FRENCH
- 4 DUTCH (NETHERLANDS)
- 5 GERMAN
- 6 ITALIA
- ITALIAN
- 7 NATIVE PEOPLES
- 8 POLISH
- 9 SCANDINAVIAN
- 10 UKRAINIAN

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SUMMARY FILE CREATED * LI RECORD DESCRIPTION*

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OTHER SINGLE ORIGINS ÷

MULTIPLE DRIGINS 12

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

5 CTC81B14 (3, 11)

DEFINITION FOR ENTRIES IN SUBSCRIPT# 1 */

ENTRY# DESCRIPTION

- TOTAL +-
- MALES 2
- FEMALES ო

DEFINITION FOR ENTRIES IN SUBSCRIPT# 2

ENTRY# DESCRIPTION

- TOTAL POPULATION -
- BORN IN PROVINCE OF RESIDENCE 2
- BORN IN OTHER PROVINCE ო
- BORN IN CANADA 4
- BORN IN UNITED STATES OF AMERICA ഗ
- BORN IN CENTRAL AND SOUTH AMERICA ဖ
- BORN IN UNITED KINGDOM ~
- BORN IN OTHER EUROPEAN co
- BORN IN ASIA σ
- BORN IN OTHER <u>0</u>

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BORN OUTSIDE CANADA ÷

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

5 CTC81B15 (3, 7)

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DEFINITION FOR ENTRIES IN SUBSCRIPT# 1

ENTRY# DESCRIPTION

TOTAL •••

MALES ŝ FEMALES ო

DEFINITION FOR ENTRIES IN SUBSCRIPT# 2

ENTRY# DESCRIPTION

TOTAL POPULATION BORN OUTSIDE CANADA -

PERIOD OF IMMIGRATION BEFORE 1945 2

PERIOD OF IMMIGRATION 1945-1954 m

PERIOD OF IMMIGRATION 1955-1969 ব

PERIOD OF IMMIGRATION 1970-1977 ß

PERIOD OF IMMIGRATION 1978-1981 φ

NON-IMMIGRANT ~

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5 CTC81B16 (3, 10)

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

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DEFINITION FOR ENTRIES IN SUBSCRIPT#

ENTRY# DESCRIPTION

TOTAL ----

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2
5
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83

PAGE

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C R E A T E D * * ************************* * SUMMARY FILE *PLIRECORD DE ×

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- MALES N
- 3 FEMALES

DEFINITION FOR ENTRIES IN SUBSCRIPT# 2

ENTRY# DESCRIPTION

- TOTAL -
- CATHOLIC ŝ
- UNITED CHURCH ო
- ANGL I CAN 4
- PROTESTANT ល
- EASTERN ORTHODOX G
- JEWISH 5
- NO RELIGIOUS PREFERENCE ω
- EASTERN NON-CHRISTIAN σ
- OTHER ę

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5 CTC81B17 (3, 5)

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

DEFINITION FOR ENTRIES IN SUBSCRIPT# 1 */

ENTRY# DESCRIPTION

- TOTAL -
- MALES N

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FEMALES С

83/07/06

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ENTRY# DESCRIPTION

- TOTAL POPULATION BORN OUTSIDE CANADA **--**
- 0-4 YEARS N
- 5-19 YEARS ო
- 20 YEARS AND DVER 4
- NON-IMMIGRANT വ

*** NORMAL END ***

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PART 2

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CTC81B10 - NOTE

Attached is a sample of fiche output, depicting the content of the table. Please refer to the record layout for the actual order of data on the tape.

Ci-joint, vous trouverez un exemple de l'organisation des microfiches, qui illustre le contenu du tableau. Veuillez consulter le cliché d'article pour l'ordre actuel des données sur la bande.

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CIC81B11. POPULATION BY HOME LANGUAGE(14) AND SEX(3), 1981 (BASED ON 20% SAMPLE DATA) CIC81B11. POPULATION SELON LA LANGUE PARLEE A LA MAISON(14) ET LE SEXE(3), 1981 (BASE SUR LES DONNEES-ECHANTILLON (20%))

ENGLISH MOTHER TONGUE

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					LANGUE	- LANGUE MATERNELLE ANGLAISE	AISE
	TOTAL	ENGLISH HOME LANGUAGE - ANGLAISE PARLEE A LA MAISON	FRENCH HOME LANGUAGE LANGUAGE LANGUE FRANCAISE FRANCAISE FARLEE A LA MAISON	UTHER HOTE LANGUAGE - AUTRES LANCUE FARLEES A LA MAISON	TOTAL(1)	ENGLJSH HOME LANGUAGE LANGUE - LANGUE ANGLATSE PARLEE A LA MAISON	FRENCH HOME LANGUAGE - LANGUE FRANCATSE FARLEE A LA MAISON
CANADA TOTAL							
BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES	24.083,495 11,958,355 12,125,135	16,425,905 8,184,735 8,241,170	5,923,010 2,925,470 2,997,535	1,734,530 848,155 886,425	14, 750, 495 7, 324, 830 7, 425, 665	14, 518, 765 7, 203, 355 7, 315, 405	122,520 64,690 57,825
NEWFOUNDLAND - TERRE-NEUVE SP10	E-NEUVE						
BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes	563,750 283,930 279,815	559,520 281,745 277,775	8,40 8,80 8,20 8,20 8,20 8,20 8,20 8,20 8,2	2.415 4.205 4.315	556.940 280,365 276,570	556,100 279,970 276,135	635 315 320
PRINCE EDWARD ISLAND Sp11		ILE -DU-PRINCE-EDOUARD					
BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES	121,225 60,430 60,795	117,080 58,435 58,640	3.725 1,780 1,945	4 15 2 10 2 05	114,000 56,830 57,170	113.675 56.700 56.975	295 110 185
NOVA SCOTIA - NOUVELLE-ECOSSE SP12	LLE-ECOSSE						
BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES	839,805 416,155 423,650	806,950 399,755 407,195	24,450 12,285 12,160	8,405 4,110 8,310	786,020 389,040 396,985	783.270 387.855 395,510	1,960 875 1,085

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	FRE	FRENCH MOTHER TONGUE			H10	DIHFR MOTHER LONGUES	ES
	LANGUE	- Maternelle francaise	NCAT SE		AUTRES	AUTRES LANGUES MATERNELLES	IELLES
	101AL(1)	ENGLISH HOME LANGUAGE LANGUAGE LANGUE ANGLAISE PARLEE A LA MAISON	FPENCH HOME LANGUAGE LANGUE FRANCAISE FARLEE A LA MAISON	101AL(2)	ENGLISH HOME LANGUAGE LANGUE ANGLE ANGLAISE PARLEE A LA MAISCH	FRENCH HOME LANGUAGE LANGUAGE LANGUAGE FRANCAISE PARLEE A LA MAISON	HOME LANGUAGE SAME AS MOTHER TONGUE LANGUE PARLEE A LA MATERNELE LANGUE MATERNELE
CANADA TOTAL							
BOTH SEXES - Les deux sexes Male - Hommes Female - Femmes	6, 176, 215 3, 040, 295 3, 135, 925	410,990 202,260 208,730	5,748,490 2,830,000 2,918,490	3, 156, 785 1, 593, 240 1, 563, 550	1,496,145 779,110 717,030	52,000 30,780 21,220	1,567,400 763,205 804,195
NEWFOUNDLAND - TERRE-NEUVE SP10							
BOTH SEXES - Les deux sexes Male - hommes Female - femmes	2,690 1,410	1,535 755 775	155 155 150 150 150 150 150 150 150 150	4, 120 2, 150 4, 970	1,885 1,015 870	1 20	2,165 1,100 1,055
PRINCE EDWARD ISLAND - ILE-DU-PRI SP11	- ILE-DU-PRINCE-EDOUARD						
BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES	5,915 2,870 3,040	2,485 1,215 1,275	3, 425 1, 660 1, 760	1,315 725 590	9 15 300 300	000	370 1855 1855
NOVA SCOTIA - NOUVELLE-ECOSSE SP12							
BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes	35,695 17,915 17,780	13,250 6,545 6,710	22,420 11,360 11,060	18,085 9,200 8,890	10, 330 5, 355 4, 975	65 50 1	7,465 3,670 3,805

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CTC81811. POPULATION BY HOME LANGUAGE(14) AND SEX(3), 1981 (BASED ON 20% SAMPLE DATA) CTC81811. POPULATION SEDINIA IANGUE DADLEE A LA MAISON(33) ET LE SEVELA) CORTENTION

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CTC81812. POPULATION BY DFFICIAL LANGUAGE(5) AND SEX(3), 1981 (BASED ON 20% SAMPLE DATA) CTC81812. POPULATION SELON LA LANGUE OFFICIELLE(5) ET LE SEXE(3), 1981 (BASE SUR LES DONNEES-ECHANTILLON (20%)) NEITHER ENGLISH NOR FRENCH 810 270 540 455 205 250 51,120 19,880 NI L'ANGLAIS NI LE FRANCAIS 291,395 112,655 178,735 425 175 250 35 15 20 2,065,100 1,141,400 BOTH ENGLISH AND FRENCH 182,555 92,575 89,975 L'ANGLAIS ET LE FRANCAIS 62,355 30,130 32,220 3,681,960 1,927,890 1,754,070 9,785 4,775 5,005 12,845 6,275 6,570 3,826,610 1,782,235 LE FRANCAIS SEULEMENT 89,335 42,555 46,780 1,880 885 990 3,987,240 1,856,715 2,130,530 95 95 95 200 65 140 FRENCH DNLY L'ANGLAIS Seulement 426,235 198,495 774,760 384,860 389,895 417,030 207,560 209,470 111,200 55,575 55,625 16,122,895 8,061,100 8,061,795 550,335 277,430 272,905 ENGL I SH QNLY 6,369,070 3,142,010 839,800 416,150 423,650 689,370 342,900 346,470 121,225 60,430 60,795 24,083,500 11,958,360 12,125,135 563,745 283,930 279,815 TOTAL PRINCE EDWARD ISLAND - ILE-DU-PRINCE-EDOUARD SP11 NEW BRUNSWICK - NOUVEAU-BRUNSWICK SP13 NOVA SCOTIA - NOUVELLE-ECOSSE SP12 BOTH SEXES - LES DEUX SEXES MALE - HOMMES BOTH SEXES - LES DEUX SEXES MALE - HOMMES BOTH SEXES - LES DEUX SEXES MALE - HOMMES BOTH SEXES - LES DEUX SEXES BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes BOTH SEXES - LES DEUX SEXES MALE - HOMMES NEWFOUNDLAND - TERRE-NEUVE FEMALE - FEMMES FEMALE - FEMMES FEMALE - FEMMES MALE - HOMMES FEMALE - FEMMES стсв1812. QUEBEC SP24 CANADA TOTAL SP 10

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	MULTIPLE ORIGINS ORIGINES MULTIPLE		1,838,615 908,030 930,580		16, 105 8, 070 8, 040		8,690 4,345 4,335		72,595 35,645 36,945		39,950 19,745 20,205
	01HER SINGLE ORIGINS MI - 1 - 1 AUTRES 01 ORIGINES 01 UNIQUES MI		2,352,690 1, 1,197,495 1,155,195		5,740 3.020 2,720		1,285 675 610		24.385 12.665 11.725		9, 180 5, 010 4, 170
	UKRAI- NIAN UKRAI- NIEN I		529,615 2 265,210 1 264,405 1		140 50 85		1 45 60		1,960 940 1,025		630 430 200
20%))	SCANDI - 1 NAVI AN SCANDI - 1 NAVE		282,795 5 146,080 2 136,715 2		645 375 265		250 130		2,175 1,190 985		2,345 1,345
ונוררסא (POL ISH - POL ONAIS		254,485 129,130 125,355		95 95 90		9 9 0 0 0 0		2,455 1,245 1,205		430 245 185
DATA) Les donnees-echantillon (20%))	NATIVE PEOPLES - AUTOCH- TONES F		413.375 203.975 209.400		3,225 1,740 1,485		440 190 245		6.305 3.035 3.275		4,610 2,275 2,335
	ITALIAN 1 TALIAN		747,970 390,000 357,965		4 10 205 205		100 700 700		3,240 1,645 1,590		1.145 675 470
) DN 20% SAMPLE 1981 (BASE SUR	GERMAN - Allemand		1,142,365 575,730 566,635		1,645 880 760		820 465 360		33,145 17,515 15,630		6,490 3,325 3,165
1981 (BASED DN 20% Le Sexe(3), 1981 (BA	DUTCH (NETHERLANDS) HOLLANDAIS HOLLANDAIS (NEERLANDAIS)		408,240 210,885 197,355		680 370 305		1, 335 725 615		13,500 6,945 6,555		4,400 2,355 2,050
3). E1	FRENCH - FRANCAIS		6,439,100 3,176,580 3,262,525		15,355 7,865 7,490	Q	14.770 7.545 7.225		71,355 35,495 35,860		251,070 124,960 126,110
RIGIN(12) A Gine Ethniq	BRITISH - BRITANNIQUE		9,674,250 4,755,255 4,918,995		519,620 261,255 258,365	- ILE - DU - PRINCE - EDOUARD	93,345 46,215 47,130		608,685 299,835 308,850	ň	369,125 182,545 186,585
POPULATION BY ETHNIC ORIGIN(12) AND SEX(POPULATION SELON L'ORIGINE ETHNIQUE(12)	TOTAL B		24,083,495 11,958,355 12,125,140	TERRE - NEUVE	563,745 283,930 279,820		121,220 60,430 60,790	NOUVELLE - ECOSSE	839,800 416,150 423,650	- NOUVEAU-BRUNSWICK	689,375 342,900 346,470
CTC81813. POPULATIO CTC81813. POPULATIO		CANADA TOTAL	BOTH SEXES - LES DEUX SEXES Malf - Hommes Female - Femmes	NEWFOUNDLAND - TERR SP10	BOTH SEXFS - LES DEUX SEXES Male - Hommes Female - Femmes	PRINCE EDWARD ISLAND Sp11	BOTH SEXES - Les deux sexes Male - Hommes Female - Femmes	NOVA SCOTIA - NOUVE SP12	BUTH SEXES - Les deux sexes Male - Hommes Female - Femmes	NEW BRUNSWICK - NOL SP13	BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES

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PAGE 1	0 THER(2) AUTRES(2)		317,615 35 152,130 50 165,485		30 455 75 230 50 230		100 160 130 130		55 1,890 05 980 15 980		690 690
	A518 A518		5 543,490 274,635 528,860		1,330 675 650				5 4,355 2,305 2,045) 1,955 1,955
-	DTHER EUROPEAN - AUTRE EUROPEEN		1,701,165 880,780 820,385		t.630 905 725		1,050 585 465		9,685 5,030 4,660		5,610 9,610
ררמא (1,62	UNI TED KENSDOM - ROYAUME UNI		884,915 412,870 472,050		4.025 1.885 2,145		1, 350 695 635		14, 195 6, 800 7, 395		8,205 3,625
TOTAL 1981 (BASED ON 20% SAMPLE DATA) LE SEXE(3), 1991 (PASE SUR LES DOMNEES-ECHANTILLON (2021)	CENTRAL AND SOUTH AMERICA(1) AMERICA(1) - AMERIQUE EI AMFRIQUE DU SUD(1)		107,960 52,025 55,040		9 9 9 9 9 9 9 9 9		00 200 200 200 200 200 200 200 200 200		260 135 135		10 7 7 7 7
LE DATA) SUR LES DO	UNITED STATES OF AMERICA ETATS- UNIS D'AME- RIQUE		312,010 138,695 173,315		2,255 1,230 1,020		1.735 780 955		11,330 5,265 6,070		11,005 4.870
N ZOX SAMP 991 (BASE	BORN OUTSIDE CANADA Č NAEE EN DEHORS DU CANADA		3,857,160 1,911,130 1,956,030		9, 785 4, 960 4, 805		4,550 2,280 2,270		41,715 20,505 21,210		27,575 12,990
101AL 981 (BASED O E SEXE(3), 1	BORN IN OTHER PROVINCE - - AUTRE POANS UNF PROVINCE		3.128,910 1,546,550 1,582,355		23,605 11,880 11,725		18.300 8.795 9.505		113,985 57,075 56,905		91,195 44.560
et.	BORN IN PROV- VINCE OF RESIDENCE NEE DANS LA PRO- VINCE DE RESIDENCE		17.087.425 8.500.675 8.586.750		530,355 267,075 263,280		98,365 49,355 49,015		684,100 338,570 345,530		570,600 285,350
OF BIRTH(11) AND SEX(3 LIEU DE NAISSANCE(11)	BORN IN Canada - Canada Canada		20,216,335 10,047,230 10,169,110		553,960 278,955 275,010	ILE-DU-PRINCE-EDOUARD	116,675 58,150 58,520		798,085 395,650 402,440		661,795 329,910
POPULATION BY PLACE OF E POPULATION SELON LE LIEU	TOTAL POPULATION POPULATION TOTALE		24,083,495 11,958,355 12,125,140	TERRE-NEUVE	563, 750 283, 935 279, 815	1	121,225 60,430 60,795	- NOUVELLE - ECOSSE	839,800 416,150 423,650	- NOUVEAU-BRUNSWICK	689,370 342,900
<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>		CANADA TOTAL	BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES	NEWFOUNDLAND - TERI SP10	BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE ~ FEMMES	PRINCE EDWARD ISLAND SP11	BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES	NOVA SCOTIA - NOUVI SP12	BOTH SEXES - Les deux sexes Male - Hommes Female - Femmes	NEW BRUNSWICK - NOI SP13	BOTH SEXES - LES DEUX SEXES MALE - HOMMES

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	IT(2)		645 625 020		265 125 145		105 85		630 890 740		1,065 570 490
	NON- I MMI GRAN		30 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3						-	•	-
z	1978-1981(1)		338,395 164,565 173,830		, 1, 10 625 485		520 290 235		3,385 1,655 1,730		2,605 1,295 1,310
D'IMMIGRATIO	1970-1977		920,515 452,705 467,815		2,750 1,475 1,270		1,065 510 555		9,470 4,890 4,575		7,275 3,575 3,700
1	1955 - 1969		1,355,555 678,955 676,600		3,310 1,805 1,505		f, 140 600 545		12, 175 6, 455 5, 715		6,535 3,330 3,205
OD OF IMMIGRA	1945- 1954		672,570 348,265 324,305		1,730 640 1,090		795 405 390		7,210 3,155 4,050		4,300 1,730 2,565
	BEFORE 1945 - AVANT 1945		540,475 246,020 294,455		620 305 315		835 370 470		7,850 3,460 4,390		5,790 2,485 3,310
TOTAL POPULATION BORN OUTSIDE CANADA	POPULATION TOTALE NEE EN DEHORS DU CANADA		3,867,160 1,911,130 1,956,030		9,785 4,980 4,805	E - EDOUARD	4,550 2,275 2,270		41,710 20,500 21,210		27,580 12,990 14,590
		CANADA TOTAL	BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES	NEWFDUNDLAND - TERRE-NEUVE SP10	BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes	PRINCE EDWARD ISLAND - ILE-DU-PRINC SP11	BDTH SEXES ~ LES DEUX SEXES Male - Hommes Female - Femmes	NOVA SCOTIA - NOUVELLE-ECOSSE SP12	BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes	NEW BRUNSWICK - NOUVEAU-BRUNSWICK SP13	BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes
	L TION N DE PERIOD OF IMMIGRATION A	L TION N DE PERIOD OF IMMIGRATION - PERIODE D'IMMIGRATION A TION BEFORE LE 1945 N S AVANT ADA 1945 1945-1954 1955-1969 1970-1977 ADA 1945 1945-1954 1955-1969 1970-1977	TOTAL POPULATION BORN OUTSIDE PERIOD OF IMMIGRATION - PERIODE D'IMMIGRATION CANADA - POPULATION BEFORE TOTALE 1945 NEE EN - DEHORS AVANT DU CANADA 1945 1945-1959 1970-1977 1978-1981(1)	TOTAL POPULATION TOTAL BORN OUTSIDE PERIOD OF IMMIGRATION - PERIODE D'IMMIGRATION BUNDA CANADA PERIOD OF IMMIGRATION - PERIODE D'IMMIGRATION PERIODE D'IMMIGRATION POPULATION CANADA BEFORE TOTALE 1945 1945 POPULATION FOULATION BEFORE TOTALE 1945 1945 POPULATION BEFORE TOTALE 1945 1955 1970-1977 POPULATION BEFORE NEE EN AVANT 1945-1954 1955-1969 1970-1977 1978-1981(1) POPULATION 1945 1945-1954 1955-1959 1970-1977 1978-1981(1) FEMES AVANT AVANT 1945-1954 1955-1959 1970-1977 1978-1981(1) FEMES AVANT 1945-1954 1945-1956 1955-1969 1970-1977 1978-1981(1) FEMES AVANT 1945-1954 1945-1956 1955-1969 1970-1977 1978-1981(1) FEMES 1945-1955 1945-1955 1955-1969 1970-1977 1978-1981(1) FEMES 3.867.160 540.475 544.305 676.655 452.705<	TDTAL DOPULATION TDTAL POPULATION TDTAL BORN DOPULATION BORN PERTOD OF IMMIGRATION - PERTODE D'IMMIGRATION OBADA DOPULATION CANADA REFORE POPULATION CANADA REFORE POPULATION CEEN 1945 POPULATION DEHORS AVANT A 1945 B 1945 B 1945 A 1945 B 1945	TOTAL BORULATION BORU OUTSIDE CANADA FERIDD OF IMMIGRATION - FERIDDE D'IMMIGRATION CANADA PERIDD PERIDD OF IMMIGRATION - FERIDDE D'IMMIGRATION CANADA POPULATION GANADA BERDE 1945 POPULATION CANADA BERDE 1945 POPULATION FORLE POPULATION 1945 POPULATION FORLE BERDE 1945 POPULATION FORLE BERDE 1945 POPULATION FORLE BERDE 1945 POPULATION FORLE BERDE 1945 POPULATION FORLE BERDE 1945 POPULATION FORLE BERDE 1945 POPULATION FORLE 1945 POPULATION FORLE 1945 POPULATION FORLE 1945 POPULATION FORLE 1945 POPULATION FORLE 1945 POPULATION FOR POPULATION 1945 POPULATION 1730 POPULATION	TUTAL BORN ONISIDE CANDOA FERIOD OF IMIGRATION - PERIODE D'IMIGRATION ONISIDE CANDOA PERIOD OF IMIGRATION - PERIODE D'IMIGRATION ONISIDE CANDOA POULISIDE 1945 POULISIDE 1945 PERIOD OF IMIGRATION - PERIODE D'IMIGRATION POULISIDE FERRE DU CANDDA BERDE 1945 1945 1945 1955-1969 1970-1977 1978-1981(1) A A A A A A A A A A A A A 1945 1945-1954 1955-1969 1970-1977 1978-1981(1) A <th>TUTAL BOUNATION ON DATA ON DATA</th> <th>DTAL BOULATION CUNST CUNS</th> <th>Intra- bolication BERM Display (NAM) FERIOD OF IMICRATION - FERIODE D'IMICRATION FERIOD OF IMICRATION - FERIODE D'IMICRATION D'OTALE D</th> <th>TUTAL BOUNATION ONLOSE ONNOSE ONNOSE ONNOSE ONNOSE ONNOSE ONNOSE ONNOSE ONNOSE FRIOD OF IMIGRATION - PERIODE D'IMIGRATION FRIOD OF IMIGRATION - PERIODE D'IMIGRATION OUTALE NUMATION BOUNATION BO</th>	TUTAL BOUNATION ON DATA ON DATA	DTAL BOULATION CUNST CUNS	Intra- bolication BERM Display (NAM) FERIOD OF IMICRATION - FERIODE D'IMICRATION FERIOD OF IMICRATION - FERIODE D'IMICRATION D'OTALE D	TUTAL BOUNATION ONLOSE ONNOSE ONNOSE ONNOSE ONNOSE ONNOSE ONNOSE ONNOSE ONNOSE FRIOD OF IMIGRATION - PERIODE D'IMIGRATION FRIOD OF IMIGRATION - PERIODE D'IMIGRATION OUTALE NUMATION BOUNATION BO

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PAGE	0THER - AUTRES		18,910 9,925 8,985		105 50 50		100 100		230 155 80		95 55
	EASTERN NON- CHRISTIAN - NON CHRETIENNE ORIENTALE		305,890 160,080 145,805		675 355 320		230 125 105		3,030 1,615 1,415		1,175 650
(NO RELIGIOUS PREFERENCE - AUCUNE PREFERENCE RELIGIEUSE INDIQUEE		1,783,535 1,032,915 750,615		5,515 3,315 2,200		3,220 1,940		34.210 20,820 13,395		19,655 12,310
(%07) (30%)	JEWISH JULVE		296,425 146,965 149,460		220 120 100		75 45 30		2.010 1.010 1.000		845 430
VEES-ECHANT	EASTERN ORTHODOX ORTHODOX ORTHODOXE ORIENTALE		361,560 186,280 175,280		65 20 45		50 25 25		2.345 1,130 1,215		575 365
TOTAL 1981 (BASED ON 20% SAMPLE DATA) SEXE(3), 1981 (BASE SUR LES DONNEES-ECHANTILLON (20%))	ANGL I CAN - ANGL I CANE		2,436,375 1,166,780 1,269,595		153, 530 77, 025 76, 500		6.805 3,165 3,645		131.130 64.505 66,620		66,260 31,980
TOTAL Ased on 20% , 1981 (base	UNITED UNITED CHURCH - EGLISE) UNIE		3,758,010 1,812,930 1,945,085		104,835 53,065 51,775		29,645 14,545 15,095		169,605 82,965 86,635		87,460 42,835
Ľ;	PRDTESTANT (INCLUDES UNITED AND ANGLICAN) - PROTESTANTE (COMPREND EGLISE UNIE ET ANGLICANE)		9,914,580 4,780,340 5,134,240		352,695 177,370 175,325		61.170 30,050 31,125		487,250 238,295 248,955		295,780 143,820
10) AND SEX([GION(10) ET	CATHOLIC - catholique		11,402,600 5,641,850 5,760,755		204,465 102,685 101,780	NCE - EDOUARD	56,450 28,240 28,210		310,725 153,135 157,595		371,245 185,270
POPULATION BY RELIGION(10) AND SEX(3 POPULATION SELON LA RELIGION(10) ET 1	TOTAL		24,083,495 11,958,360 12,125,140	TERRE -NEUVE	563,750 283,935 279,815	ND - ILE-DU-PRINCE-EDOUARD	121,220 60,430 60,795	- NOUVELLE-ECOSSE	839,800 416,155 423,650	UVEAU-BRUNSWICK	689,375 342,905
CANADA CTC81816, POPULATIO CTC81816, POPULATIO		CANADA TOTAL	BOTH SEXES - Les deux sexes Male - Hommes Female - Femmes	NEWFDUNDLAND - TERF SP10	BOTH SEXES - LES DEUX SEXES MALE - HOMMES FEMALE - FEMMES	PRINCE EDWARD ISLAND SP11	BOTH SEXES - Les deux sexes Male - Hommes Female - Femmes ·	NOVA SCOTIA - NOUVE SP12	BOTH SEXES - Les deux sexes Male - Hommes Female - Femmes	NEW BRUNSWICK - NOUVEAU-BRUNSWICK SP13	BOTH SEXES - Les deux sexes Male - Hommes

LAUE 1		NEES-ECHANTILLON (20%))
	CTC81B17. POPULATION BORN OUTSIDE CANADA BY AGE AT IMMIGRATION(5) AND SEX(3), 1981 (BASED ON 20% SAMPLE DATA)	CC81B17. POPULATION NEE EN DEHORS DU CANADA SELON L'AGE A L'IMMIGRATION(5) ET LE SEXE(3), 1981 (BASE SUR LES DONNEES-ECHANTILLON (20%))
CANAUA	CTC81	CTC81

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NON-IMMIGRANT(1) - NON-IMMIGRANT(1)		39,645 20,620 19,020		, 125 140		195 110 85		1, 630 890 740		1,060 565 490
20 YEARS AND OVER 20 ANS ET PLUS		2,171,625 1,068,770 1,102,855		5,415 2,710 2,705		1,980 955 1,020		19,790 9,500 10,295		t0,310 4,580 5,730
5-19 YEARS 5-19 ANS		1,081,180 538,065 543,115		2,120 1,155 960		1,360 705 655		10,825 5,385 5,445		8,235 3,930 4,305
0 - 4 7 E A R S 0 - 4 A N S		574,715 283,670 291,045		1,990 985 1,000	IARD	1,025 515 510		9,470 4,735 4,735		7,970 3,915 4,055
TOTAL POPULATION BORN DUTSIDE CANADA - TOTALE NEE EN DEHORS DU CANADA		3,867,155 1,911,130 1,956,030		9,780 4,975 4,805	NU-PRINCE-EDOL	4,555 2,280 2,275	щ	41,710 20,505 21,210	4SW I CK	27,575 12,995 14,590
	CANADA TOTAL	BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes	NEWFOUNDLAND - TERRE-NEUVE SP10	BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes	PRINCE EDWARD ISLAND - ILE-DU-PRINCE-EDOUARD SP11	BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes	NOVA SCOTIA - NOUVELLE-ECOSSE SP12	BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes	NEW BRUNSWICK - NOUVEAU-BRUNSWICK SP13	BOTH SEXES - LES DEUX SEXES Male - Hommes Female - Femmes

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SECTION A

FILE CONTENT

File CTC81B10

Table Titles

CTC81B11 Population by home language (14) and sex (3), 1981

CTC81B12 Population by official language (5) and sex (3), 1981

CTC81B13 Population by ethnic origin (12) and sex (3), 1981

CTC81B14 Population by place of birth (11) and sex (3), 1981

CTC81B15 Population born outside Canada by period of immigration (7) and sex (3), 1981

CTC81B16 Population by religion (10) and sex (3), 1981

CTC81B17 Population born outside Canada by age at immigration (5) and sex (3), 1981

Legends

AGE AT IMMIGRATION (5)

- 1. Total population born outside Canada
- 2. 0-4 years
- 3. 5-19 years
- 4. 20 years and over
- 5. Non-immigrant (1)

(1) Persons born outside Canada but who are Canadian citizens by birth.

ETHNIC ORIGIN (12)

- 1. Total
- 2. British
- 3. French
- 4. Dutch (Netherlands)
- 5. German
- 6. Italian
- 7. Native Peoples
- 8. Polish
- 9 Scandinavian
- 10. Ukrainian
- 11. Other single origins
- 12. Multiple origins

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HOME LANGUAGE (14)

- 1. Total
- 2. English home language

3. French home language

4. Other home languages

- English mother tongue
- 5. Total (1)

6. English home language

- 7. French home language
- French mother tongue
- 8. Total (1)
- 9. English home language

10. French home language

Other mother tongues

11. Total (2)

- 12. English home language
- 13. French home language
- 14. Home language same as mother tongue

(1) Includes "Other home languages".

(2) Includes "Home language different from mother tongue".

OFFICIAL LANGUAGE (5)

- 1. Total
- 2. English only
- 3. French only
- 4. Both English and French
- 5. Neither English nor French

PERIOD OF IMMIGRATION (7)

- 1. Total population born outside Canada
 - Period of immigration
- 2. Before 1945
- 3. 1945-1954
- 4. 1955-1969
- 5. 1970-1977
- 6. 1978-1981 (1)
- 7. Non-immigrant (2)

(1) Includes the first five months only of 1981.

(2) Persons born outside Canada but who are Canadian citizens by birth.

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PLACE OF BIRTH (11)

- 1. Total population
- 2. Born in Canada
- 3. Born in province of residence
- 4. Born in other province
- 5. Born outside Canada
- 6. United States of America
- 7. Central and South America (1)
- 8. United Kingdom
- 9. Other European
- 10. Asia
- 11. Other (2)

(1) Mainland countries and territories.

(2) Africa, Oceania, Caribbean Islands, Other countries and regions not elsewhere specified.

RELIGION (10)

- 1. Total
- 2. Catholic
- 3. Protestant
- 4. United Church
- 5. Anglican
- 6. Eastern Orthodox
- 7. Jewish
- 8. No religious preference
- 9. Eastern Non-christian
- 10. Other

SEX (3)

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

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SECTION B

FILE SEQUENCE AND GEOGRAPHIC DEFINITIONS

1) Sequence of 1981 Census User Summary Tape Files - Census Tracts (Basic Series)

Census tract (CT) files are sorted in the following ascending numeric sequence:

Keys	Position in record	Description
Major	51-52	Record type
Intermediate 1	1-2	Region and province code
Intermediate 2	17	Census metropolitan area/ census agglomeration selector
Intermediate 3	3-5	Census metropolitan area/ census agglomeration code
Minor	6-12	Census tract/provincial census tract name

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Figure 1.

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



The numbers in brackets represent the number of each type of area. Les chiffres entre parentheses correspondent au nombre d'unités 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	1-18	Zeroes
			19-49	Geographic name - Canada
			50	Indian Reserve - High imputation area indicator
			51-52	Record type
02	Provincial total records are in ascending numeric sequence;	12	1-2	Region and province code
	each record with type "02" is equal to the sum of		3-18	Zeroes
	record types "10" and "12"		19-49	Province name
	for a given province.		50	Indian Reserve - High imputation area indicator
			51-52	Record type
10	Census metropolitan area (CMA) and census agglom- eration (CA) records are	37	1-2	Region and province code
			3-5	CMA/CA code
	in ascending numeric sequence within province; each record		6-16	Zeroes
	with type "10" is equal to all records with type "13" for a		17	CMA/CA selector
	given CMA or CA.		18	CMA/CA population size group
			19-49	CMA/CA name
			50	Indian Reserve - High imputation area indicator
			51-52	Record type

Geographic codes on each record

....

Record type	Description	Number of records	Position	Content
12	Provincial census tract(PCT) subtotals are in ascending	12	1-2	Region and province code
	numeric sequence; there is		3-18	Zeroes
	one record per province or territory; each record with type "12" is equal to all		19-49	Province name
	records with type"15" for a given province or		50	Indian Reserve - High imputation area indicator
	territory.		51-52	Record type
13	Census tract (CT) records are sorted on the CT name	3,277	1-2	Region and province code
	within the census metro-		3-5	CMA/CA code
	politan area/census agglom- eration in ascending numeric		6-12	CT name
	sequence.		13-16	CT code
			17	CMA/CA selector
			18	CMA/CA population size group
			19-49	CMA/CA hame
			50	Indian Reserve - High imputation area indicator
			51-52	Record type

•

Geographic codes on each record

Record type	Description	Number of records	Position	Content
15	Provincial census tract(PCT) records (for areas not	1,782	1-2	Region and province code
	included in the CT programme) are sorted on the PCT name within the province in ascending numeric sequence.		3-5	Code 000 = Not applicable. PCTs do not exist in CMAs in CAs containing PCTs the CA code was changed to 000 in order to group PCTs to- gether by name and province
			6-12	PCT name
			13-16	PCT code
			17	Code 0 = Not applicable. PCTs do not exist in CMAs; in CAs containing PCTs the CA selector was changed to 0 in order to group PCTs to gether by name and provinc
			18	Code 0 = Not applicable. PCTs do not exist in CMAs in CAs containing PCTs the CA population size group w changed to 0 in order to group PCTs together by nar and province.
			19-49	Province name
			50	Indian Reserve - High imputation area indicator
			51-52	Record type

...

Note: There are 5,121 records on the census tract 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.	59
Territories	Yukon	60
	N.W.T.	61

Field: 2

Position: 3-5

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.

<u>Remarks</u>: 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.

SGC CODE	NAME
CENSUS METROPOLITAN AREA	
001 205 310 408 421 442 462 505 532 535 537 539 541 555 559 580 595 602 705 725 825 835 933 935	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 AGGLOMERATION	
005 010 015 025 105 110 210 215 220 225 230 305 315 320 328	CARBONEAR GRAND FALLS CORNER BROOK LABRADOR CITY CHARLOTTETOWN SUMMERSIDE KENTVILLE TRURO NEW GLASGOW SYDNEY SYDNEY MINES MONCTON OROMOCTO FREDERICTON BATHURST

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

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SGC CODE	NAME
CENSUS AGGLOMERATION (Cor	ntinued)
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	
530	
543 550	BRANTFORD GUELPH
552	FERGUS
	STRATFORD
553	CHATHAM
556	
557	LEAMINGTON

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

SGC CODE	NAME
CENSUS AGGLOMERATION (Conclude	ed)
562	SARNIA
566	OWEN SOUND
568	BARRIE
569	ORILLIA
571	MIDLAND
575	NORTH BAY
584	HAILEYBURY
590	SAULT STE. MARIE
598	KENORA
607	PORTAGE LA PRAIRIE
625	FLIN FLON
640	THOMPSON
715	MOOSE JAW
720	SWIFT CURRENT
735	NORTH BATTLEFORD
745	PRINCE ALBERT
805	MEDICINE HAT
910	TRAIL
915	KELOWNA
918	VERNON
925	KAMLOOPS
930	CHILLIWACK
938	
940	
943 945	COURTENAY POWELL RIVER
945	PRINCE RUPERT
965	TERRACE
970	PRINCE GEORGE
770	

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

Field: 3

Position: 6-12

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.

Provincial census tract 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
7000.01 -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: 13-16

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 <u>Enumeration Area</u> <u>Reference Lists</u> (Catalogue Nos. 99-913 to 99-917).

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Position: 17

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: 18

CMA/CA Population Size Group

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

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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 - 999,999	2
1,000,000 and over	1
(not a CMA/CA)	0

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Position: 19-49

This field contains the name of the geographic area.

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.

ensus subdivision(s) SSD) ubdivision(s) de	Census division(s) (CD) Division(s) de	Census division(s) (CD) code	Census subdivision(s) (CSD) code	Enumeration area(s) (EA)	Federal electoral district (FED)	Region, province and federal electoral district (FED) code	Census tract(s) (CT)/provincial census tract(s) (PCT) name	Census metropolitan area(s) (CMA)/ census agglomeration(s) (CA)
scensement (DR)	reconsement (DR)	cours as urysion(s) de recensement (DR)	Looke de subdivision(s) de recensement (SDR)	Secteur(s) de dénombrement (SD)	Circonscription 6lectorale fédérale (CÉF)	Code de région, province et circonscription électorale fédérale (CÉF)	Nom de secteur(s) de recensement(SR)/ secteur(s) de recensement provincial (SRP)	Région(s) métropolitaine(s) de recensement (RMR)/ agglomération(s) de recensement(AR)
ahnawake 14*	Laprairie	2466	2466820*	110-120*	Châteauguay	24013	CT 832*	Montréal
ebiqui*	Kenora District	3560	3560079*	411*	Kenora-Rainy River	35034	PCT 4429*	E
unnumin 2*	Kenora District	3560	3560072*	412*	Kenora-Rainy River	35034	PCT 4429*	E
ingfisher 1*	Kenora District	3560	3560098*	420*	Kenora-Rainy River	35034	PCT 4429*	I
sigan 147∗	Division No. 3	4803	4803801*	363,364*	Lethbridge- Foothills	48014	PCT 7011*	:
awichan 1*	Cowichan Valley Regional District	5919	6919807 *	219,223,224,226*	Cowichan-Malahat- The Islands (Les Îles)	59005	PCT 8249*	
heik 2*	Cowichan Valley Regional District	5919	*8186165	221*	Cowichan-Malahat- The Islands (Les Nes)	59005	PCT 8249*	E
owichan 9*	Cowichan Valley Regional District	6165	2919806*	222*	Cowichan-Malahat- The Islands (Les Îles)	59005	PCT 8249*	E

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.

1981 Census - Indian Reserves - High Imputation Areas

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

Position: 51-52

Record Type

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Record type		Code
Canada Provinces Remainder-	Residual total by province for census subdivisions of less than 5,000 population	01 02 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 metro	opolitan areas and census agglomerations	10
Provincial ce	ensus tract subtotals	12
Census tracti agglomeratio	s (census metropolitan areas and census ons)	13
Provincial ce	nsus tracts	15
Census divisi	ons	16
Census subdiv	visions	17
Federal elect	oral 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:

Census Tract (CT)/Provincial Census Tract (PCT) Series

- Tables include data for census tracts, provincial census tracts, census metropolitan areas (CMAs) and census agglomerations (tracted CAs).
- The beginning of the User Summary Tapes and microfiche include all total records, i.e. Canada, provinces, census metropolitan areas, census agglomerations and provincial census tract subtotals.

Information will be in the following order:

Geography	User Summary Tapes
Canada	
Provinces	Numeric sequence (east to west)
Census metropolitan areas	Numeric sequence within province
Census agglomerations	Numeric sequence within province
Provincial census tract subtotals	Single entry within province (east to west)
Census tracts (CMAs)	Alpha-numeric sequence within CMA and province
Census tracts (CAs)	Alpha-numeric sequence within CA and province
Provincial census tracts	Alpha-numeric sequence within province

Geography	Microfiche
Canada	
Provinces	Numeric sequence (east to west)
Census metropolitan areas	Alphabetic sequence within province
Census agglomerations	Alphabetic sequence within province
Provincial census tract subtotals	Single entry within province (east to west)
Census tracts (CMAs)	Alpha-numeric sequence within CMA and province
Census tracts (CAs)	Alpha-numeric sequence within CA and province
Provincial census tracts	Alpha-numeric sequence within province

Each CT/PCT level tape record will contain the following geographic identification:

Region and province code

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

CT/PCT name

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

CMA/CA selector

CMA/CA population size group

CMA/CA name

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. One further extension of this concept is applied in the case of income distributions, where areas are deleted if the population concerned is less than 250. This applies only to the User Summary Tape/Fiche program.

The actual census tract (CT) or census subdivision (CSD) suppressed due to the rule described is indicated in the appendix to each CT Series B bulletin (Catalogue Nos. 95-946 to 95-981) and similarly in the "all-CSD" Profile Series B bulletins (Nos. E-571 to E-582). 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 (Catalogue Nos. 95-905 to 95-940 and E-559 to E-570, respectively) or tape and fiche program. (See Products and Services of the 1981 Census of Canada.)

urther, 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/ Microfiche Series	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
ENUMERATION AREAS (EAs)			
Canada Provinces Federal Electoral Districts (1976 representation) Enumeration Areas Total	1 12 282 <u>41,197</u> 41,492	1 12 282 <u>38,233</u> <u>38,528</u>	•••• ••• •••
CENSUS SUBDIVISIONS (CSDs)			
Canada Provinces Census Divisions Census Subdivisions Total	1 12 266 5,710 5,989	1 12 266 5,372 5,651	1 12 266 4,564 -4,843
CENSUS TRACTS (CTs)/ PROVINCIAL CENSUS TRACTS (PCTs)			
Canada Provinces * Census Metropolitan Areas/ Census Agglomerations	1 12 37	1 12 37	1 12 37
Provincial Census Tract Subtotals Census Tracts Provincial Census Tracts Total	12 3,302 <u>1,786</u> 5,150	12 3,277 <u>1,782</u> 5,121	12 3,253 1,782 5,097

^{**} In the Enumeration Areas Series (EA), the 25/50 rule supersedes the 250 rule for suppression in Income Tables with no distributions.

Data shown separately for Ottawa-Hull, Ontario part and Quebec part.

^{..} 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 Summary Tape/ Microfiche Series	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 (COMPONENTS) FOR CMAs			
Canada Provinces * Census Metropolitan Areas Census Subdivisions Residual by Province Total	1 12 25 365 12 415 415	$ \begin{array}{r}1\\12\\25\\351\\-12\\-401\end{array}$	1 12 25 338 12 388
CENSUS TRACTS FOR CMAs			
Canada Provinces * Census Metropolitan Areas Census Tracts Residual by Province Total	1 12 25 3,032 12 3,082	1 12 25 3,008 12 3,058	1 12 25 2,988 12 3,038

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

* Data shown separately for Ottawa-Hull, Ontario part and Quebec part.

... Not applicable.

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.

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.

Characteristic	Response rate (%)
Aqe	98.9
Age at First Marriage	91.9
Bathrooms	99.0
Children 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	99.3
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

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

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.

Cell value	Total	number	of perso	ons, house	holds, dw	ellings or	families i	n geograpł	nic area	
	500	1,000	5,000	10,000	20,000	50 , 000	100,000	250,000	1,000,000	5,000,000 or over
50	15	15	15	15	15	15	15	15	15	15
100	20	20	20	20	20	20	20	20	20	20
200	25	25	30	30	30	30	30	30	30	30
500	-	30	40	45	45	45	45	45	45	45
1,000	-	-	60	60	60	65	65	65	65	65
2,000	-	-	70	80	85	90	90	90	90	90
5,000		-	-	100	120	135	140	140	140	140
10,000	-	-	-	-	140	180	190	195	200	200
20,000	-	-	-	-	-	220	255	270	280	280
50,000	-	-	-	-	-	-	315	400	435	445
00,000	-	-		-	→	-	-	490	600	625
00,000 m over	-	-	-	-	-	-	-	-	1,000	1,340

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

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 <u>universe</u> total count for the geographic area.
- (c) Choose the row within the column in Table 2 whose heading is closest to the value of the given cell 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 + or-2X65 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 + or-3X140 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</u> Population (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

unanges 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.

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

A1	Problem: Incorrect enumeration area allocation	
	 (a) Alexander, LGD, Man. (SGC 4601071) - 1981 total population reads should read 	2,793 1,908
	(b) Division No. 1, Unorganized, UNO, Man. (SGC 4601094)	
	- 1981 total population reads should read	675 1,560
A2	Problem: Incorrect census subdivision limits	
	(a) Meductic, VL, N.B. (SGC 1310013) - 1981 total population reads should read	234 197
	(b) Canterbury, PAR, N.B. (SGC 1310011) - 1981 total population reads should read	649 686
A3	Problem: Incorrect census subdivision limits	
	(a) Hillsborough Park, VL, P.E.I. (SGC 1102017) - 1981 total population reads should read	1,227 1,036

	(b) East Royalty, VL, P.E.I. (SGC 1102020) - 1981 total population reads should read	1,696 1,863
	(c) Sherwood, VL, P.E.I. (SGC 1102019) - 1981 total population reads should read	5,681 5,705
A4	Problem: Incorrect enumeration area allocation	
	(a) Chicken 224, R, Sask. (SGC 4718828) - 1976 total population reads should read	-A 528
	(b) Chicken 225, R, Sask. (SGC 4718823) - 1976 total population reads should read	528 -
	- 1981 total population reads should read	236 26
	(c) Division No. 18, Unorganized, UNO, Sask.	
	(SGC 4718090) - 1981 total population reads should read	11,991 12,201
A5	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 - 1981 total population should read 	452 494
A6	Problem: Incorrect census consolidated subdivision codes	
	 (a) Alert Bay 1, R, B.C. (SGC 5943801) - CCS code reads should read 	5943029 5943035
	 (b) Alert Bay 1A, R, B.C. (SGC 5943802) - CCS code reads should read 	5943029 5943035
A7	Problem: Incorrect census subdivision limits	
	(a) Jacquet River, VL, N.B. (SGC 1314002) - 1981 total population reads should read	778 887
	 (b) Durham, PAR, N.B. (SGC 1314001) - 1981 total population reads should read 	2,656 2,547

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AO	FIODIEIII: Incorrect census suburvision minuts	
	(a) Norway House 17, R, Man. (SGC 4622058) - 1981 total population reads should read	1,812
	(b) Division No. 22, Unorganized, UNO, Man.	1,976
	(SGC 4622046)	
	- 1981 total population reads should read	2,703 2,539
A9	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.	
	(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 <u>deleted</u>	
A11	Problem: Incorrect enumeration area allocation	
	Montréal, CMA	
	(a) CT 382.01 (code 3122)	
	- 1981 total population reads	3,513
	should read	3,848
	(b) CT 382.02 (code 3123)	
	- 1981 total population reads	5,212
	should read	4,877

A9 Droblem: Incorrect concurs subdivision limits

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		<u></u>				
French only	•••	6,077,695	•••				
Other only ^{1,2}	***	2,495	2,897,730				
English and French ³	103,595	104,650	-,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
English and other ^{2,4}	122,655	235	202,640				
French and other ⁵	•••	9,305	12,945				
English, French and other ³	7,845	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.

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

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, problemfree 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 <u>Profile Series</u> 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. ¹ 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 nonuniversity 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.

¹ 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.

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.

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.

Ethnic Origin

The 1981 ethnic origin question attempts to trace the "roots" of the population of Canada. The data derived from this question reflect respondents' perception of their ethnic background, and the cultural group with which they most closely identify.

The comparability of the 1981 ethnic origin data with that from previous censuses is affected by seven main factors:

- (1) Previous censuses usually traced ethnic origin (racial origin) through the paternal ancestry. ⁽¹⁾ The 1981 Census is the first that does not restrict the tracing of ethnic origin to one side of the family.
- (2) The 1981 Census is the first to allow more than one ethnic origin response per individual (e.g., a response of French and German is valid and is retained for tabulation purposes). Previous censuses reduced all multiple ethnic origin responses down to a single response. For the 1971 Census, if more than one origin was indicated on the questionnaire, one was arbitrarily selected. Thus, in 1971, if 100 people answered both French and German, perhaps 45 would have been assigned French, and the remaining 55, German. In 1981, all 100 people would retain both ethnic origins.
- (3) In 1981, 7.6% of the non-inmate population indicated more than one ethnic origin. It should be noted however, that this percentage excludes combinations of English. Irish, Scottish, Welsh, British, n.o.s., and British, n.e.s. These combinations have been treated as a single response (i.e. British) in the 1981 pre-planned output although they are, in fact, multiples. If counted as multiples, the percentage of the non-inmate population with multiple ethnic origins would be 11.6% in 1981.

On the other hand, French single responses only include those who reported a single French ethnic origin or a single write-in of Québécois, Franco-Ontarian or Acadian. Those who reported both French and Québécois, Franco-Ontarian or Acadian are included in the French multiples.

(4) As 1971 Census processing reduced all multiple responses to a single response, it is not possible to compare 1971 data to 1981 for single responses. This comparison could underestimate the real change. This applies particularly to some European ethnic origins; for example, English, Scottish, Irish, Dutch, Ukrainian, Polish and Jewish registered a negative percentage change.

Similarly, a comparison of 1971 data to single plus multiple responses in 1981 could overestimate the real change.

However, certain ethnic groups which have immigrated to Canada in substantial numbers show a large increase from 1971 even when compared to the 1981 single origin; these are groups such as Chinese, Indo-Pakistani, East Asian, Lebanese, Syrian and other Asiatic groups and Spanish (including South and Latin-American).

(1) In censuses from 1911 to 1931, the line of descent of people with Native or mixed Native/Non-native ancestry was traced through the mother's side.

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 illuscration.

Apartments (000's)		Other Multiple (000's)		Single Detached (000's)	
1981	Adj. 1981	1981	Adj. 1981	1981	Adj. 1981
<u></u>	<u> </u>			·, · · · · · · · · · · · · · · · ·	
260	361	130	30	20	19
385	400	53	40	10	8
150	155	36	35	40	41
78	78	24	24	56	56
	1981 260 385 150	1981 Adj. 1981 260 361 385 400 150 155	1981 Adj. 1981 1981 260 361 130 385 400 53 150 155 36	1981 Adj. 1981 1981 Adj. 1981 260 361 130 30 385 400 53 40 150 155 36 35	1981 Adj. 1981 1981 Adj. 1981 1981 1981 260 361 130 30 20 385 400 53 40 10 150 155 36 35 40

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

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.

Population Born Outside Canada and Immigrant Population

All persons born outside Canada are not necessarily immigrants to Canada. Individuals who have reported their place of birth outside Canada, but who are Canadian citizens by birth, are not considered immigrants to Canada. Consequently, they do not have a period of immigration or an age at immigration when they take up permanent residence in Canada. For the 1981 Census product, these persons were categorized as non-immigrants; they did not have to be granted landed immigrant status before taking up permanent residence in Canada. By contrast, in the 1971 Census, all persons born outside Canada were categorized as immigrants and were required to respond to the question on period of immigration.

The refinement introduced in 1981, to incorporate citizenship at birth and to distinguish between Canadians by birth who had a place of birth outside Canada and persons who immigrate to Canada, thus affects the comparability of data from the two censuses. Footnotes to all tables providing statistics on the population born outside Canada indicate how the non-immigrant group has been treated.

While the regular census outputs only provide data on the immigrant population who had a place of birth outside Canada, the 1981 Census also recognizes that some persons born inside Canada may be classified as immigrants because they reported a year of immigration.

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Home Language

Edit and imputation specifications for Mother Tongue and Home Language reduce multiple responses to a single response. In 1981, multiple resolution involved a series of choices based on the frequency of languages reported within the family, whereas the 1971 resolution of multiples was essentially a more arbitrary and deterministic procedure.

When compared to Mother Tongue data, the Home Language data may provide an indication of the extent to which persons still use or no longer use the language they reported as Mother Tongue.

However, depending upon the action of the editing process, cases of identically reported multiple mother tongues and home languages, may result in a certain proportion where Mother Tongue differs from Home Language.

For example, if a respondent indicated a Mother Tongue of English or French, the edited Mother Tongue would be either response, but not both. Similarly, depending on the edit result, the respondent's Home Language may be designated as English or French.

In 1981, the edit and imputation procedure has indicated that there were some 22% of respondents identified with English Mother Tongue and French Home Language who reported an English and French Home Language. Similarly, 11% of the respondents shown with French Mother Tongue and English Home Language reported also a French Home Language. Similar occurrences characterized 1971, but exact proportions are not known.

Users should refer to the 1981 Census Dictionary for a basic description of the differences between 1971 and 1981.

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Official Language

The comparability of 1981 Census Official Language data with those from the 1971 Census is affected by the fact that different processing procedures were applied.

Users should be aware that in 1971, persons who declared an official language as either their home language or their mother tongue were also considered as being able to speak that language, and the response to official language was made to agree. In 1981, this editing convention was maintained only for those who reported an official language as home language.

A major impact of the 1981 processing change, compared to 1971, would appear to be fewer "bilingual" persons and higher numbers of people reporting "neither English nor French".

For example, in Manitoba and Saskatchewan, when 1981 data are compared to 1971 data, figures show a decline in the number of "bilingual" persons. However, when simulations of 1971 processing are applied to 1981 data, both provinces show an increase in the number of persons able to speak both English and French.

Users should refer to the 1981 Census Dictionary for a basic description of the differences between 1971 and 1981.

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- (5) In 1971, everyone who indicated their religion as Jewish was assigned a Jewish ethnic origin regardless of the origin reported. In 1981, although no such assignment occurs, 94% of the non-inmate population with a single Jewish ethnic origin response also reported their religion as Jewish.
- (6) It should also be noted that there may be some apparent anomalies in 1981 data based on a misinterpretation of the ethnic origin question when cross-classified with Place of Birth, Mother Tongue or Religion: by Place of Birth, some tables may include some Native Peoples born in India, Pakistan, Guyana, etc.; by Mother Tongue, some tables may include Native Peoples with Asian Indian mother tongue; and by religion some tables may include some Native Peoples with Eastern Non-christian religions, notably Hindu, Islam and Sikh.
- (7) In 1981, ethnic origin is reported for the total population excluding inmates. Counts from publications of previous censuses include inmates. Inmates represented about 1.1% of the total population in 1981.

Users should refer to the 1981 Census Dictionary for a basic description of the differences between 1971 and 1981. Further details on comparability will be contained in the regular bulletins and User Summary Tape products, as well as Summary Guides and Data Quality reports to be issued during the forthcoming year.