

USER SUMMARY TAPE

SHORT FORM DEMOGRAPHIC FILE 2

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EXTERNAL DECIMAL

1971 CENSUS OF CANADA

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SECTION

FILE CONTENT

A

SHORT FORM DEMOGRAPHIC FILE 2 (LEVEL 2)

TABLE 1

TOTAL POPULATION BY SEX (3)

- TOTAL
- MALE
- FEMALE

TABLE 2

TOTAL POPULATION BY MOTHER TONGUE (35) BY SEX (2)

MALES

- | MOTHER TONGUE | |
|---------------------|--|
| -ENGLISH | |
| -FRENCH | |
| -ARABIC | |
| -CHINESE | |
| -CZECH | |
| -DANISH | |
| -ESKIMO | |
| -ESTONIAN | |
| -FINNISH | |
| -FLEMISH | |
| -GAELIC | |
| -GERMAN | |
| -GREEK | |
| -ICELANDIC | |
| -INDIAN | |
| -INDO-PAKISTANI | |
| -ITALIAN | |
| -JAPANESE | |
| -LETTISH | |
| -LITHUANIAN | |
| -MAGYAR (HUNGARIAN) | |
| -NETHERLANDS | |
| -NORWEGIAN | |
| -POLISH | |
| -PORTUGUESE | |
| -ROMANIAN | |
| -RUSSIAN | |
| -SERBO-CROATIAN | |
| -SLOVAK | |
| -SPANISH | |
| -SWEDISH | |
| -UKRAINIAN | |
| -WELSH | |
| -YIDDISH | |
| -OTHER | |

FEMALES
MOTHER TONGUE

- ENGLISH
- FRENCH
- ARABIC
- CHINESE
- CZECH
- DANISH
- ESKIMO
- ESTONIAN
- FINNISH
- FLEMISH
- GAELIC
- GERMAN
- GREEK
- ICELANDIC
- INDIAN
- INDO-PAKISTANI
- ITALIAN
- JAPANESE
- LETTISH
- LITHUANIAN
- MAGYAR (HUNGARIAN)
- NETHERLANDS
- NORWEGIAN
- POLISH
- PORTUGUESE
- ROMANIAN
- RUSSIAN
- SERBO-CROATIAN
- SLOVAK
- SPANISH
- SWEDISH
- UKRAINIAN
- WELSH
- YIDDISH
- OTHER

TABLE 3

TOTAL POPULATION BY MOTHER TONGUE (11) BY AGE (4) BY SEX (2)

MALES
UNDER 20 YEARS

- ENGLISH
- FRENCH
- GERMAN
- ITALIAN
- NETHERLANDS
- POLISH
- SCANDINAVIAN
- UKRAINIAN
- YIDDISH
- ASIAN LANGUAGES
- OTHER

20 TO 34 YEARS-ENGLISH
 -FRENCH
 -GERMAN
 -ITALIAN
 -NETHERLANDS
 -POLISH
 -SCANDINAVIAN
 -UKRAINIAN
 -YIDDISH
 -ASIAN LANGUAGES
 -OTHER

35 TO 64 YEARS-ENGLISH
 -FRENCH
 -GERMAN
 -ITALIAN
 -NETHERLANDS
 -POLISH
 -SCANDINAVIAN
 -UKRAINIAN
 -YIDDISH
 -ASIAN LANGUAGES
 -OTHER

65 AND OVER
 -ENGLISH
 -FRENCH
 -GERMAN
 -ITALIAN
 -NETHERLANDS
 -POLISH
 -SCANDIVANIAN
 -UKRAINIAN
 -YIDDISH
 -ASIAN LANGUAGES
 -OTHER

FEMALES
 UNDER 20 YEARS-ENGLISH
 -FRENCH
 -GERMAN
 -ITALIAN
 -NETHERLANDS
 -POLISH
 -SCANDIVANIAN
 -UKRAINIAN
 -YIDDISH
 -ASIAN LANGUAGES
 -OTHER

20 TO 34 YEARS-ENGLISH
 -FRENCH
 -GERMAN
 -ITALIAN
 -NETHERLANDS
 -POLISH
 -SCANDIVANIAN
 -UKRAINIAN
 -YIDDISH
 -ASIAN LANGUAGES
 -OTHER

35 TO 64 YEARS	-ENGLISH
	-FRENCH
	-GERMAN
	-ITALIAN
	-NETHERLANDS
	-POLISH
	-SCANDINAVIAN
	-UKRAINIAN
	-YIDDISH
	-ASIAN LANGUAGES
	-OTHER
65 AND OVER	-ENGLISH
	-FRENCH
	-GERMAN
	-ITALIAN
	-NETHERLANDS
	-POLISH
	-SCANDINAVIAN
	-UKRAINIAN
	-YIDDISH
	-ASIAN LANGUAGES
	-OTHER

TABLE 4

TOTAL POPULATION BY MARITAL STATUS (5) BY AGE (8) BY SEX (2)

MALES	
SINGLE	- UNDER 15 YEARS
	- 15-19 YEARS
	- 20-24 YEARS
	- 25-34 YEARS
	- 35-44 YEARS
	- 45-54 YEARS
	- 55-64 YEARS
	- 65 YEARS AND OVER
MARRIED	- UNDER 15 YEARS
	- 15-19 YEARS
	- 20-24 YEARS
	- 25-34 YEARS
	- 35-44 YEARS
	- 45-54 YEARS
	- 55-64 YEARS
	- 65 YEARS AND OVER
SEPARATED	- UNDER 15 YEARS
	- 15-19 YEARS
	- 20-24 YEARS
	- 25-34 YEARS
	- 35-44 YEARS
	- 45-54 YEARS
	- 55-64 YEARS
	- 65 YEARS AND OVER

WIDOWED - UNDER 15 YEARS
 - 15-19 YEARS
 - 20-24 YEARS
 - 25-34 YEARS
 - 35-44 YEARS
 - 45-54 YEARS
 - 55-64 YEARS
 - 65 YEARS AND OVER
DIVORCED - UNDER 15 YEARS
 - 15-19 YEARS
 - 20-24 YEARS
 - 25-34 YEARS
 - 35-44 YEARS
 - 45-54 YEARS
 - 55-64 YEARS
 - 65 YEARS AND OVER
FEMALES
SINGLE - UNDER 15 YEARS
 - 15-19 YEARS
 - 20-24 YEARS
 - 25-34 YEARS
 - 35-44 YEARS
 - 45-54 YEARS
 - 55-64 YEARS
 - 65 YEARS AND OVER
MARRIED - UNDER 15 YEARS
 - 15-19 YEARS
 - 20-24 YEARS
 - 25-34 YEARS
 - 35-44 YEARS
 - 45-54 YEARS
 - 55-64 YEARS
 - 65 YEARS AND OVER
SEPARATED - UNDER 15 YEARS
 - 15-19 YEARS
 - 20-24 YEARS
 - 25-34 YEARS
 - 35-44 YEARS
 - 45-54 YEARS
 - 55-64 YEARS
 - 65 YEARS AND OVER
WIDOWED - UNDER 15 YEARS
 - 15-19 YEARS
 - 20-24 YEARS
 - 25-34 YEARS
 - 35-44 YEARS
 - 45-54 YEARS
 - 55-64 YEARS
 - 65 YEARS AND OVER
DIVORCED - UNDER 15 YEARS
 - 15-19 YEARS
 - 20-24 YEARS
 - 25-34 YEARS
 - 35-44 YEARS
 - 45-54 YEARS
 - 55-64 YEARS
 - 65 YEARS AND OVER

SECTION C DEFINITION OF GEOGRAPHIC REGIONS AND AN EXPLANATION OF GEO-STATISTICAL CODES

FIELD POSITION 1 1-2 PROVINCE

CANADA'S POPULATION IS SPREAD OVER 10 PROVINCES AND 2 TERRITORIES; THE TERRITORIES BEING REGARDED AS EQUIVALENT TO THE PROVINCES. THE IDENTIFICATION OF A SINGLE PROVINCE REQUIRES THE CODE OF THE REGION OF CANADA (FIRST DIGIT) AND THEN THE CODE OF THE PROVINCE ITSELF (SECOND DIGIT).

THE 10 PROVINCES AND 2 TERRITORIES ARE REGROUPED INTO 6 REGIONS:

PROVINCE CODE	PROVINCE NAME	REGION CODE	REGION NAME
10	NEWFOUNDLAND	1	ATLANTIC
11	PRINCE EDWARD ISLAND	1	ATLANTIC
12	NOVA SCOTIA	1	ATLANTIC
13	NEW BRUNSWICK	1	ATLANTIC
24	QUEBEC	2	QUEBEC
35	ONTARIO	3	ONTARIO
46	MANITOBA	4	WEST
47	SASKATCHEWAN	4	WEST
48	ALBERTA	4	WEST
59	BRITISH COLUMBIA	5	BRITISH COLUMBIA
60	NORTH WEST TERRITORIES	6	TERRITORIES
61	YUKON	6	TERRITORIES

FIELD POSITION 6 15-17 CENSUS METROPOLITAN AREA AND CENSUS AGGLOMERATION

CENSUS AGGLOMERATION:

STATISTICAL AREA HAVING AN URBAN CENTRE OF OVER 1,000 POPULATION WITH AN ADJACENT BUILT-UP AREA OF AT LEAST 1,000 POPULATION AND A MINIMUM DENSITY OF 1,000 PERSONS PER SQUARE MILE. THE LARGEST URBAN CENTRE AND ITS ADJACENT URBAN PART MUST BE IN TWO DIFFERENT MUNICIPALITIES AND CONSTITUTE A CONTINUOUS BUILT-UP AREA WITH NO SEPARATION GREATER THAN ONE MILE. THE POPULATION OF THE URBANIZED CORE MUST BE AT LEAST 2,000. AREAS WITH AN URBANIZED CORE OF 100,000 OR OVER ARE CENSUS METROPOLITAN AREAS. THE MAIN USE OF CA'S IS TO PROVIDE DATA FOR CLOSELY RELATED URBAN COMMUNITIES SEPARATED FROM EACH OTHER ONLY BY ADMINISTRATIVE LIMITS.

CENSUS AGGLOMERATIONS ARE MADE UP OF COMPLETE MUNICIPALITIES IN ORDER TO ENSURE COMPARABILITY WITH OTHER SOURCES OF INFORMATION. IT IS POSSIBLE, THEREFORE, THAT A CENSUS AGGLOMERATION MAY INCLUDE SOME RURAL POPULATION.

THERE ARE 87 CA'S, DISTRIBUTED AS FOLLOWS:

MARITIMES, 17; QUEBEC, 32; ONTARIO, 22; WESTERN PROVINCES, 16.

VALID CODES: 032-315
SEE OFFICIAL CODES BELOW

CENSUS METROPOLITAN AREA:

THE MAIN LABOUR MARKET AREA OF A CONTINUOUS BUILT-UP AREA HAVING 100,000 OR MORE POPULATION. CMA'S ARE CREATED BY STATISTICS CANADA AND ARE USUALLY KNOWN BY THE NAME OF THEIR LARGEST CITY. THEY CONTAIN WHOLE MUNICIPALITIES (OR CENSUS SUBDIVISIONS).

THE MAIN LABOUR MARKET AREA CORRESPONDS TO A COMMUTING FIELD OR A ZONE WHERE A SIGNIFICANT NUMBER OF PEOPLE ARE ABLE TO TRAVEL ON A DAILY BASIS TO WORK PLACES IN THE MAIN BUILT-UP AREA. A CMA COMPRISES: (1) MUNICIPALITIES COMPLETELY OR PARTLY INSIDE THE CONTINUOUS BUILT-UP AREA AND (2) MUNICIPALITIES LYING WITHIN A 20-MILE RADIUS OF THE LIMITS OF THE CONTINUOUS BUILT-UP AREA, IF (A) THE PERCENTAGE OF LABOUR FORCE IN PRIMARY ACTIVITIES IS SMALLER THAN THE NATIONAL AVERAGE, AND (B) THE PERCENTAGE OF POPULATION INCREASE FOR 1956-1966 IS LARGER THAN THE AVERAGE FOR THE 1966 CMA. WHEN ONLY (A) OR (B) IS MET, MUNICIPALITIES ARE INCLUDED IF THEY ARE ACCESSED BY A PROVINCIAL OR FEDERAL HIGHWAY.

THERE ARE 22 CMA'S EACH HAVING AN URBANIZED CORE, LARGEST CITY, REMAINDER AND FRINGE, URBAN AND RURAL PARTS.

VALID CODES: BLANK OR 001-026
SEE OFFICIAL CODES BELOW

.....
CENSUS METROPOLITAN AREA AND CENSUS AGGLOMERATION LIST
.....

POPULATION		POPULATION	
100,000 AND MORE.		100,000 AND MORE	
001	CALGARY ALTA	002	CHICOUTIMI-JONQUIERE QUE
003	EDMONTON ALTA	004	HALIFAX NS
005	HAMILTON ONT	006	KITCHENER ONT
007	LONDON ONT	008	MONTREAL QUE
010	OTTAWA-HULL	011	QUEBEC QUE
012	REGINA SASK	013	ST. CATHARINES ONT
014	ST. JOHN'S NFLD	015	SAINT JOHN NB
016	SASKATOON SASK	019	SUDBURY ONT
020	THUNDER BAY ONT	021	TORONTO ONT
023	VANCOUVER BC	024	VICTORIA BC
025	WINDSOR ONT	026	WINNIPEG MAN

POPULATION

50,000-99,999

032	BRANTFORD ONT	•	037
038	KINGSTON ONT	•	040
041	OSHANA ONT	•	042
043	SARNIA ONT	•	044
045	SHAWINIGAN QUE	•	046
047	SYDNEY NS	•	048

25,000-49,999

051	BAIE-COMEAU QUE	•	052
053	CHARLOTTETOWN PEI	•	054
055	DRUMMONDVILLE QUE	•	057
058	GRANBY QUE	•	061
062	KAMLOOPS BC	•	063
065	MEDICINE HAT ALTA	•	067
069	PORT ALBERNI BC	•	071
072	RIMOUSKI QUE	•	073
074	ST-HYACINTHE QUE	•	075
076	ST-JEROME QUE	•	077
078	SYDNEY MINES NS	•	079
080	TIMMINS ONT	•	081
083	VALLEYFIELD QUE	•	084

10,000-24,999

092	ARNPRIOR ONT	•	103
105	CAMPBELLTON NB	•	100
110	COURTENAY BC	•	112
115	FLIN FLON MAN	•	116
118	HAILESBURY ONT	•	119
123	KENORA ONT	•	124
125	LABRADOR CITY NFLD	•	126
129	MAGOG QUE	•	130
132	NEWCASTLE NB	•	133
134	NEW HAMBURG ONT	•	135
137	PEMBROKE ONT	•	139
141	PRINCE RUPERT BC	•	145
148	SMITHS FALLS ONT	•	150
152	TERRACE BC	•	154
155	TRURO NS	•	157
160	WILLIAMS LAKE BC	•	

5,000-9,999

204	BEAUPRE QUE	•	208
206	BLAIRMORE ALTA	•	213
209	CASTLEGAR BC	•	220
215	FERGUS ONT	•	232
223	LA MALBAIE QUE	•	
236	ST. STEPHEN NB	•	

2,000-4,999

302	BEUCEVILLE QUE	•	305
304	DUNVILLE NFLD	•	309
306	FORESTVILLE QUE	•	314
312	PIERREVILLE QUE	•	
315	ROCK ISLAND QUE	•	

POPULATION

50,000-99,999

037	GUELPH ONT
040	MONCTON NB
042	PETERBOROUGH ONT
044	SAULT STE. MARIE ONT
046	SHERBROOKE QUE
048	TROIS-RIVIERES QUE

25,000-49,999

052	BARRIE ONT
054	CHILLIWACK BC
057	FREDERICTON NB
061	JOLIETTE QUE
063	KELOWNA BC
067	NANAIMO BC
071	PRINCE GEORGE BC
073	ROUYN QUE
075	ST-JEAN QUE
077	SOREL QUE
079	THETFORD MINES QUE
081	TRENTON ONT
084	VICTORIAVILLE QUE

10,000-24,999

103	ASBESTOS QUE
100	COBBOURG ONT
112	DOLBEAU QUE
116	GRAND FALLS NFLD
119	HAWKESBURY ONT
124	KENTVILLE NS
126	LACHUTE QUE
130	MIDLAND ONT
133	NEW GLASGOW NS
135	NORTH BATTLEFORD SASK
139	PETAWAWA ONT
145	ST-GEORGES QUE
150	SUMMERSIDE PEI
154	TRAIL BC
157	VAL-D'OR QUE

5,000-9,999

208	CARBONEAR NFLD
213	DONNACONA QUE
220	HAPPY VALLEY NFLD
232	PORT ELGIN ONT

2,000-4,999

305	EAST BROUGHTON STATION QUE
309	HEBERTVILLE-STATION QUE
314	PORTNEUF QUE

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.....
FIELD          7
POSITION 18-20
CENSUS TRACT
.....
    
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ALMOST ALL OF THE CENSUS METROPOLITAN AREAS (CMA) AND CENSUS AGGLOMERATIONS (CA) OF 50,000 POPULATION OR MORE IN 1966 WERE SUBDIVIDED INTO CENSUS TRACTS IN 1971. CENSUS TRACTS ARE SMALL PERMANENT STATISTICAL AREAS DELINEATED BY STATISTICS CANADA ACCORDING TO THE FOLLOWING CRITERIA:

- A POPULATION BETWEEN 2,500 AND 8,000 EXCEPT FOR TRACTS IN THE CENTRAL BUSINESS DISTRICT OR INSTITUTIONAL TRACTS WHICH MAY HAVE A LOWER POPULATION.
- AN AREA THAT IS AS HOMOGENEOUS AS POSSIBLE IN TERMS OF ECONOMIC STATUS AND SOCIAL LIVING CONDITIONS.
- BOUNDARIES THAT FOLLOW PERMANENT AND EASILY RECOGNIZED LINES ON THE GROUND.
- AS MUCH AS POSSIBLE, A COMPACT SHAPE.

THE BOUNDARIES ARE TO BE CHANGED AS LITTLE AS POSSIBLE ALTHOUGH SOME MODIFICATIONS HAVE TAKEN PLACE AND THE NUMBERING SYSTEM WAS COMPLETELY REVISED IN 1971. CONVERSION TABLES FOR THIS NEW NUMBERING SYSTEM ARE PUBLISHED IN THE CENSUS TRACT BULLETINS.

EACH CENSUS TRACT IS DEFINED BY A THREE DIGIT CMA/CA CODE AND A THREE DIGIT CT CODE. APPROXIMATELY 60 PERCENT OF CANADA'S POPULATION IS INCLUDED IN THE CENSUS TRACTS.

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.....
FIELD          11
POSITION 37
CASPER CONTROL FIELD
.....
    
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ALWAYS 1. THIS CODE IS USED ONLY BY CASPER SOFTWARE PACKAGE.

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.....
FIELD          15
POSITION 44-47
AREA AGGREGATE
.....
    
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AREA AGGREGATES ARE SIMILAR IN PURPOSE TO CENSUS TRACTS BUT COVER THE WHOLE COUNTRY. THEY ARE DELINEATED BY THE SAME STANDARD AS THE CENSUS TRACTS. EACH PROVINCE IS SUBDIVIDED INTO AREA AGGREGATES WHICH DO NOT NECESSARILY CORRESPOND TO ANY OTHER BOUNDARIES. THEY ARE IDENTIFIED BY A FOUR DIGIT CODE CONSECUTIVELY NUMBERING THEM BY PROVINCE IN A SERPENTINE MANNER FROM BOTTOM TO TOP.

ALL CENSUS TRACTS HAVE A COINCIDING AREA AGGREGATE WITH THE SAME BOUNDARIES BUT DIFFERENT CODE NUMBER WITH THE FOLLOWING EXCEPTIONS:

THE CMA CHICOUTIMI-JONQUIERE (QUE.) AND THE CA'S MONCTON (N.B.), SHAWINIGAN (QUE.) AND SIDNEY (N.S.) HAVE NOT BEEN SUBDIVIDED INTO CT'S. THEREFORE, ON THE CT/AA TAPE, THEY HAVE BEEN GIVEN THE CT CODE 999 FOR THE TOTAL CMA/CA CONCERNED. HOWEVER EACH OF THESE URBAN CENTRES HAS BEEN SUBDIVIDED INTO SEVERAL AA'S. FOR EXAMPLE, CHICOUTIMI-JONQUIERE CONSISTS OF THE AA'S 2034 TO 2069 INCLUSIVE, BUT EACH OF THESE AA'S HAS THE CT CODE 999. NORMALLY, EACH CT CORRESPONDS TO A SINGLE AA.

IT SHOULD ALSO BE NOTED THAT THERE IS NO CORRESPONDENCE BETWEEN AREA AGGREGATE BOUNDARIES AND CENSUS AGGLOMERATIONS NOT SUBDIVIDED INTO CENSUS TRACTS.

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.....  
: FIELD          19      :  
: POSITION        51-58   : DATA SET NAME  
:.....
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DATA SET NAME OF THE FILE.

SECTION

EXPLANATORY NOTES

D

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 SUCH DISCLOSURE TO RELATE THE PARTICULARS OBTAINED TO ANY INDIVIDUAL PERSON, BUSINESS OR ORGANIZATION" (SECTION 16(1)(B), STATISTICS ACT 1970). THE DEVELOPMENT OF NEW DATA STORAGE SYSTEMS AND FLEXIBLE, GENERALIZED RETRIEVAL SOFTWARE, AND THE SIZE OF THE 1971 CENSUS TABULATION AND PUBLICATION PROGRAM HAVE MADE 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 1971 CENSUS TABULATIONS (INCLUDING US SUMMARY TAPES). THE RANDOM ROUNDING IS ON A BASE 5 SO ALL FIGURES APPEARING IN TABULATIONS OR PUBLICATIONS WILL BE MULTIPLES OF 5. I.E., THE UNIT DIGIT IS EITHER '0' OR '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 ZERO OR A FIVE) IS DETERMINED BY CHANCE RATHER THAN BY RULES BASED ON THE VALUE OF THE NUMBER. THIS ASPECT OF THE PROCESS INTRODUCES SUFFICIENT UNCERTAINTY INTO THE LAST DIGIT OF THE NUMBER TO PROVIDE THE NECESSARY PROTECTION AGAINST DIRECT AND RESIDUAL DISCLOSURE. IT IS THEREFORE IMPOSSIBLE TO ATTRIBUTE INFORMATION TO AN IDENTIFIABLE INDIVIDUAL DIRECTLY BY MANIPULATION OF SEVERAL TABLES. THE COUNT FOR ALL DATA CELLS (INCLUDING TOTALS) IS COMPUTED PRIOR TO ROUNDING AND CONSEQUENTLY THE TOTALS (INDEPENDENTLY ROUNDED) MAY NOT EXACTLY AGREE WITH THE SUM OF ROUNDED ELEMENTS WHICH ARE INCLUDED IN THE TOTALS. THE RANDOM FEATURE PREVENTS THE DERIVATION OF THE ORIGINAL FIGURES BY COMPARING TABLE CELLS WITH THE INDEPENDENT ROUNDED TOTALS AND ALSO MAKES THE SUM OF ROUNDED NUMBERS AN UNBIASED ESTIMATE OF THE SUM OF THE ORIGINAL NUMBERS.

THE PROBABILITY OF ROUNDING UP OR DOWN IS DETERMINED BY THE REMAINDER (R) OBTAINED WHEN THE NUMBER IS DIVIDED BY FIVE (5). THE PROBABILITY OF ROUNDING UP TO THE NEXT HIGHER MULTIPLE OF 5 IS $R/5$ AND THE PROBABILITY OF ROUNDING DOWN IS $1 - R/5$. THE FOLLOWING PROBABILITIES APPLY WITH A BASE 5 ROUNDING:

LAST DIGIT OF TRUE COUNT

PROBABILITY OF ROUNDING
UP DOWN

0 OR 5	0	0
1 OR 6	.2	.8
2 OR 7	.4	.6
3 OR 8	.6	.4
4 OR 9	.8	.2

THIS PROCESS ENSURES THAT NO INDIVIDUAL DATA CELL DIFFERS FROM THE TRUE ORIGINAL COUNT BY MORE THAN 4. FOR EXAMPLE, A COMPUTED COUNT OF 485 WILL APPEAR IN A TABLE AS 485 WITH A PROBABILITY OF .8 AND AS 490 WITH A PROBABILITY OF .2.

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 ALTHOUGH INDIVIDUAL DATA CELLS CONTAINING THESE SMALL NUMBERS MAY LOSE THEIR PRECISION, THEY DO NOT LOSE THEIR STATISTICAL VALUE AND AGGREGATIONS CAN BE USED WITH CONFIDENCE.

SINCE MANY APPLICATIONS OF CENSUS DATA INVOLVE USING SMALL BUILDING-BLOCKS (E.G. ENUMERATION AREAS OR CENSUS TRACTS) TO CREATE LARGER USER DEFINED AREAS, IT IS NECESSARY TO RE-AGGREGATE DATA WHICH HAVE BEEN ROUNDED. RE-AGGREGATION CAN BE IN TWO FORMS: THE FIRST, PREVIOUSLY MENTIONED, INVOLVES AGGREGATING SMALL GEOGRAPHICAL AREAS INTO LARGER AREAS; THE SECOND, AGGREGATING OR GROUPING RESPONSES TO A PARTICULAR QUESTION WITHIN A GEOGRAPHICAL AREA. FOR EXAMPLE, FOR ANY GEOGRAPHICAL AREA, THE POPULATION FROM AGE 6 TO 16, INCLUSIVE, CAN BE AGGREGATED FROM SINGLE YEARS OF AGE COUNTS.

SINCE PROBABILITY IS INVOLVED IN ROUNDING, THE POTENTIAL ERROR ARISING FROM SUMMING A SERIES OF ROUNDED NUMBERS CAN BE EXPRESSED IN TERMS OF PROBABILITY. THE EXPECTED VALUE OF THE ERROR, AND THE VARIANCE CAN BE PRECISELY STATED IN TERMS OF THE NUMBER OF DATA CELLS THAT WERE ADDED AND SUBTRACTED TO PRODUCE A TOTAL. IT IS IMPORTANT TO NOTE THAT THE SAME RELATIONSHIP APPLIES TO BOTH SUBTRACTION AND ADDITION.

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WEIGHTING

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INFORMATION DERIVED FROM THE LONG FORM (2B) WAS COLLECTED ON A 33 1/3% SAMPLE BASIS. THEREFORE, THE WEIGHTED POPULATION FOR A GIVEN GEOGRAPHICAL AREA MAY DIFFER FROM THAT SHOWN FOR DATA COLLECTED ON A 100% BASIS. THESE DISCREPANCIES DO NOT INDICATE ANY ERRORS IN THE PROCESSING AND PRODUCTION OF SAMPLE DATA, BUT REFLECT THE VARIABILITY ASSOCIATED WITH A SAMPLE AND ARE THE RESULT OF PROCEDURES USED TO WEIGHT THE SAMPLE TO OBTAIN ESTIMATES FROM THE TOTAL POPULATION. IN ALL INSTANCES THE TOTAL POPULATION (BUT NOT NECESSARILY THE INHERENT DISTRIBUTION) FOR CANADA, THE PROVINCES AND CENSUS DIVISIONS, FOR SAMPLE AND 100% DATA WILL COINCIDE, SINCE THE WEIGHTING FACTORS USED RESPECTED CENSUS DIVISION BOUNDARIES. MINOR DIFFERENCES MAY OCCUR FOR VARIABLES USED AS CONTROLS IN THE WEIGHTING PROCESS, WITH SOMEWHAT GREATER DIFFERENCES FOR VARIABLES NOT USED AS CONTROLS.

WHEN DATA ARE COLLECTED ON A SAMPLE BASIS, IT IS NECESSARY TO ENSURE THAT STATISTICAL COMPENSATION IS MADE FOR ANY IRREGULARITIES WHICH MAY OCCUR IN THE COLLECTION PHASE. THE WEIGHTING SYSTEM USED IN THE 1971 CENSUS IS KNOWN AS THE RAKING RATIO ESTIMATION PROCEDURE (RREP) AND IS AN ITERATIVE PROCEDURE DESIGNED TO ENSURE THAT SAMPLE ESTIMATES FOR CERTAIN BASIC SUB-GROUPS AGREE WITH THE CORRESPONDING POPULATION TOTALS. RATIO ESTIMATION IS A TECHNIQUE WHICH USES KNOWLEDGE OF SUPPLEMENTARY INFORMATION ABOUT THE POPULATION BEING SAMPLED IN ORDER TO IMPROVE THE RELIABILITY OF ESTIMATES MADE FROM THE SAMPLE. IN THE CASE OF THE CENSUS, THERE IS CONSIDERABLE SUPPLEMENTARY INFORMATION ABOUT THE TOTAL POPULATION FROM THE COMPLETE COUNT.

• THE RREP TAKES MAXIMUM ADVANTAGE OF THIS SUPPLEMENTARY INFORMATION.

TO TAKE AN OVER-SIMPLIFIED EXAMPLE, SUPPOSE ONE WISHES TO ESTIMATE THE NUMBER OF MALES AGED 35-44 WITH AN INCOME IN EXCESS OF \$20,000. THE SIMPLEST WAY TO ESTIMATE THIS NUMBER WOULD BE TO COUNT HOW MANY SUCH PERSONS THERE WERE IN THE SAMPLE AND MULTIPLY BY 3 TO ALLOW FOR THE ONE IN THREE SAMPLE. HOWEVER, ONE CAN DO BETTER THAN THIS BY UTILISING THE KNOWN POPULATION TOTAL OF MALES AGED 35-44 OBTAINED FROM THE SHORT FORM DATA. A BETTER ESTIMATE WOULD BE

NUMBER OF MALES IN THE
SAMPLE AGED 35-44 WITH
INCOME \$20,000

X

NUMBER OF MALES IN
THE POPULATION AGED
35-44

NUMBER OF MALES IN THE
SAMPLE, AGED 35-44

IT CAN BE SHOWN THAT THIS ESTIMATOR IS MORE RELIABLE THAN THE SIMPLE ONE. THE SECOND ESTIMATOR ALLOWS FOR THE FACT THAT THE NUMBER OF MALES AGED 35-44 IN THE SAMPLE WILL NOT BE EXACTLY ONE THIRD OF THE NUMBER OF MALES AGED 35-44 IN THE POPULATION. THE RREP ENSURES THAT SAMPLE ESTIMATES AND THE POPULATION COUNTS AGREE ALMOST EXACTLY PRIOR TO THEIR TABULATION.

SECTION

TECHNICAL DESCRIPTION

E

CHARACTERISTICS:	9 TRACK 1600 B.P.I.	9 TRACK 800 B.P.I.	7 TRACK
LABELS:	IBM STANDARD OR UNLABELLED	IBM STANDARD OR UNLABELLED	IBM STANDARD OR UNLABELLED
DENSITY:	1600 B.P.I.	800 B.P.I.	556/800 B.P.I.
TRACK UTILISATION:	8 DATA 1 PARITY	8 DATA 1 PARITY	6 DATA 1 PARITY
RECORDING LANGUAGE:	EBCDIC	EBCDIC	BCD
DECIMAL REPRESENTATION:	ZONED DECIMAL PACKED DECIMAL	ZONED DECIMAL PACKED DECIMAL	ZONED DECIMAL PACKED DECIMAL
SIGN REPRESENTATION:	SIGNED NUMERIC WITH SIGN ON THE RIGHT SIDE. (USED WITH ALL COBOL, ASSEMBLER, PL1 BASED PROGRAMS). ONLY THE NEGATIVE VALUES ARE SIGNED.		
INTERBLOCK GAP:	0.6 INCHES	0.6 INCHES	0.75 INCHES
LENGTH:	2400 FEET	2400 FEET	2400 FEET

TERMINOLOGY:

B.P.I. : BYTES PER INCH (1 BYTE = 8 BITS)

EBCDIC : EXTENDED BINARY-CODED-DECIMAL INTERCHANGE CODE

BCD : BINARY-CODED-DECIMAL

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SECTION
F
.....
SUPPLEMENTARY INFORMATION
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FOR MORE INFORMATION, PLEASE CONSULT THE FOLLOWING PUBLICATIONS:

- BRACKSTONE, G.J., THE 1971 CENSUS WEIGHTING PROCEDURES, STATISTICS CANADA, DECEMBER 1971.
- MURPHY, DR. E., THE RANDOM ROUNDING TECHNIQUE FOR GUARDING AGAINST ILLEGAL DISCLOSURE IN PUBLISHED CENSUS TABLES, STATISTICS CANADA, MAY 29TH, 1972.
- PHILLIPS, J.L., CONFIDENTIALITY PROCEDURES IN STATPAK VERSION 3, STATISTICS CANADA, APRIL 1972.
- PHILLIPS, J.L., SAFEGUARDING AGAINST DISCLOSURE IN STATPAK VERSION 3, STATISTICS CANADA, DECEMBER 1972.
- STINSON, J.G., EFFECTS OF RANDOM ROUNDING ON USER AGGREGATED DATA, STATISTICS CANADA, FEBRUARY 1973.
- THE CENSUS GEOGRAPHIC CODE: HIERARCHY AND DOCUMENTATION, PH-GEOG-2, STATISTICS CANADA.
- DICTIONARY OF THE 1971 CENSUS TERMS, CATALOGUE 12-540, STATISTICS CANADA.
- POPULATION AND HOUSING RESEARCH MEMORANDUM NO. PH-METH-2, STATISTICS CANADA.

OFFICIAL LISTS, 1971 CENSUS:

- SERIES 1, PART 1A: ATLANTIC PROVINCES
- SERIES 1, PART 1B: QUEBEC
- SERIES 1, PART 1C: ONTARIO
- SERIES 1, PART 1D: WESTERN PROVINCES
- SERIES 1, PART 2 : CENSUS TRACTS, METROPOLITAN AREAS
- SERIES 1, PART 3 : CENSUS AGGLOMERATIONS
- SERIES 1, PART 4A: AREA AGGREGATES (ATLANTIC PROVINCES)
- SERIES 1, PART 4B: AREA AGGREGATES (QUEBEC)
- SERIES 1, PART 4C: AREA AGGREGATES (ONTARIO)
- SERIES 1, PART 4D: AREA AGGREGATES (WESTERN PROVINCES)

FOR FURTHER DETAILS, CONTACT:

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*****
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* CENSUS USER INQUIRY SERVICE
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*
* 613-996-5254
*
*****

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SECTION

G

RECORD DESCRIPTION

FIELD	FIELD NAME	SIZE	POSITION	DESCRIPTION
1		2	1 - 2	PROVINCE
2		3	3 - 5	BLANK
3		3	6 - 8	BLANK
4		3	9 - 11	BLANK
5		3	12 - 14	BLANK
6		3	15 - 17	CENSUS METROPOLITAN AREA AND- CENSUS AGGLOMERATION
7		3	18 - 20	CENSUS TRACT
		5	21 - 25	BLANK
9		6	26 - 31	BLANK
10		5	32 - 36	BLANK
11		1	37	CASPER CONTROL FIELD
12		2	38 - 39	BLANK
13		2	40 - 41	BLANK
14		2	42 - 43	BLANK
15		4	44 - 47	AREA AGGREGATE
16		1	48	BLANK
17		1	49	BLANK
18		1	50	BLANK
19		8	51 - 58	DATA SET NAME
20		1	59	BLANK
21		2	60 - 61	BLANK
22		2	62 - 63	BLANK

TABLE 1	TOTAL POPULATION BY SEX
23	7 64 70
24	7 71 77
25	7 78 84

TABLE 2 TOTAL POPULATION BY MOTHER TONGUE AND SEX

TABLE 2	MALES	FEMALES
26	85	91
27	92	98
28	95	105
29	106	112
30	113	119
31	120	126
32	127	133
33	134	140
34	141	147
35	148	154
36	155	161
37	162	168
38	169	176
39	176	182
40	183	189
41	190	196
42	197	203
43	204	210
44	211	217
45	218	224
46	225	231
47	232	239
48	239	246
49	246	252
50	253	259
51	260	266
52	267	273
53	274	280
54	281	287
55	288	294
56	295	301
57	302	308
58	309	315
59	316	322
60	323	329
61	330	336
62	337	343
63	344	350
64	351	357
65	358	364
66	365	371
67	372	378
68	379	385
69	386	392
70	393	399

- ENGLISH
- FRENCH
- ARABIC
- CHINESE
- CZECH
- DANISH
- ESKIMO
- ESTONIAN
- FINNISH
- FLEMISH
- GAELIC
- GERMAN
- GREEK
- ICELANDIC
- INDIAN
- INDO-PAKISTANI
- ITALIAN
- JAPANESE
- LETTISH
- LITHUANIAN
- MAGYAR (HUNGARIAN)
- NETHERLANDS
- NORWEGIAN
- POLISH
- PORTUGUESE
- ROMANIAN
- RUSSIAN
- SERBO-CROATIAN
- SLOVAK
- SPANISH
- SWEDISH
- UKRAINIAN
- WELSH
- YIDDISH
- OTHER
- FEMALES
- ENGLISH
- FRENCH
- ARABIC
- CHINESE
- CZECH
- DANISH
- ESKIMO
- ESTONIAN
- FINNISH
- FLEMISH

FIELD FIELD NAME SIZE POSITION

DESCRIPTION

BIDEM502/C02

FIELD	FIELD NAME	SIZE	POSITION	DESCRIPTION
71	400	7	406	GAELIC
72	407	7	413	GERMAN
73	414	7	420	GREEK
74	421	7	427	ICELANDIC
75	428	7	434	INDIAN
76	435	7	441	INDO-PAKISTANI
77	442	7	448	ITALIAN
78	449	7	455	JAPANESE
79	456	7	462	LETTS
80	463	7	469	LITHUANIAN
81	470	7	476	MAGYAR (HUNGARIAN)
82	477	7	483	NETHERLANDS
83	484	7	490	NORWEGIAN
84	491	7	497	POLISH
85	498	7	504	PORTUGUESE
86	505	7	511	ROMANIAN
87	512	7	518	RUSSIAN
88	526	7	532	SERBO-CROATIAN
89	533	7	539	SLOVAK
90	540	7	546	SPANISH
91	547	7	553	SWEDISH
92	554	7	560	UKRAINIAN
93	561	7	567	WELSH
94	568	7	574	YIDDISH
95	568	7	574	OTHER

TABLE 3

POPULATION BY MOTHER TONGUE BY AGE BY SEX

FIELD	FIELD NAME	SIZE	POSITION	DESCRIPTION
96	575	7	581	UNDER 20 YEARS
97	582	7	588	ENGLISH
98	585	7	595	FRENCH
99	596	7	602	GERMAN
100	603	7	609	ITALIAN
101	610	7	616	NETHERLANDS
102	617	7	623	POLISH
103	624	7	630	SCANDINAVIAN
104	631	7	637	UKRAINIAN
105	638	7	644	YIDDISH
106	648	7	651	ASIAN LANGUAGES
107	652	7	658	OTHER
108	655	7	665	20 TO 34 YEARS
109	666	7	672	ENGLISH
110	673	7	679	FRENCH
111	680	7	686	GERMAN
112	687	7	693	ITALIAN
113	694	7	700	NETHERLANDS
114	701	7	707	POLISH
115	708	7	714	SCANDINAVIAN
116	715	7	721	UKRAINIAN
117	722	7	728	YIDDISH
118	729	7	735	ASIAN LANGUAGES
119	738	7	742	OTHER

VALES

UNDER 20 YEARS

20 TO 34 YEARS

35 TO 64 YEARS

- ENGLISH
- FRENCH
- GERMAN
- ITALIAN
- NETHERLANDS
- POLISH
- SCANDINAVIAN
- UKRAINIAN
- YIDDISH
- ASIAN LANGUAGES
- OTHER
- ENGLISH
- FRENCH
- GERMAN
- ITALIAN
- NETHERLANDS
- POLISH
- SCANDINAVIAN
- UKRAINIAN
- YIDDISH
- ASIAN LANGUAGES
- OTHER
- ENGLISH
- FRENCH

FIELD FIELD NAME SIZE POSITION

DESCRIPTION

BIDEMECC/C02

FIELD	FIELD NAME	SIZE	POSITION	DESCRIPTION
120	743	7	749	GERMAN
121	750	7	756	ITALIAN
122	757	7	763	NETHERLANDS
123	764	7	770	POLISH
124	771	7	777	SCANDINAVIAN
125	778	7	784	UKRAINIAN
126	785	7	791	YIDDISH
127	792	7	798	ASIAN LANGUAGES
128	799	7	805	OTHER
65 YEARS AND OVER				
129	806	7	812	ENGLISH
130	813	7	819	FRENCH
131	820	7	826	GERMAN
132	827	7	833	ITALIAN
133	834	7	840	NETHERLANDS
134	841	7	847	POLISH
135	848	7	854	SCANDINAVIAN
136	853	7	861	UKRAINIAN
137	858	7	868	YIDDISH
138	865	7	875	ASIAN LANGUAGES
139	876	7	882	OTHER

FEMALES UNDER 20 YEARS

140	883	7	889	ENGLISH
141	890	7	896	FRENCH
142	897	7	903	GERMAN
143	904	7	910	ITALIAN
144	911	7	917	NETHERLANDS
145	918	7	924	POLISH
146	925	7	931	SCANDINAVIAN
147	932	7	938	UKRAINIAN
148	935	7	945	YIDDISH
149	946	7	952	ASIAN LANGUAGES
150	953	7	959	OTHER
20 TO 34 YEARS				
151	960	7	966	ENGLISH
152	967	7	973	FRENCH
153	974	7	980	GERMAN
154	981	7	987	ITALIAN
155	988	7	994	NETHERLANDS
156	995	7	1001	POLISH
157	1002	7	1008	SCANDINAVIAN
158	1009	7	1015	UKRAINIAN
159	1016	7	1022	YIDDISH
160	1023	7	1029	ASIAN LANGUAGES
161	1030	7	1036	OTHER
35 TO 64 YEARS				
162	1037	7	1043	ENGLISH
163	1044	7	1050	FRENCH
164	1051	7	1057	GERMAN
165	1058	7	1064	ITALIAN
166	1065	7	1071	NETHERLANDS
167	1072	7	1078	POLISH
168	1079	7	1085	SCANDINAVIAN
169	1086	7	1092	UKRAINIAN
170	1093	7	1099	YIDDISH
171	1100	7	1106	ASIAN LANGUAGES

FIELD FIELD NAME SIZE POSITION

DESCRIPTION

BIDEMEO2/C02

172	7	1107	-	1113
173	7	1114	-	1120
174	7	1121	-	1127
175	7	1128	-	1134
176	7	1135	-	1141
177	7	1142	-	1148
178	7	1149	-	1155
179	7	1156	-	1162
180	7	1163	-	1169
181	7	1170	-	1176
182	7	1177	-	1183
183	7	1184	-	1190

OTHER
65 YEARS AND OVER

ENGLISH
FRENCH
GERMAN
ITALIAN
NETHERLANDS
POLISH
SCANDINAVIAN
UKRAINIAN
YIDDISH
ASIAN LANGUAGES
OTHER

TABLE 4

POPULATION BY MARITAL STATUS BY AGE BY SEX

MALES
SINGLE

UNDER 15 YEARS
15 TO 19 YEARS
20 TO 24 YEARS
25 TO 34 YEARS
35 TO 44 YEARS
45 TO 54 YEARS
55 TO 64 YEARS
65 YEARS AND OVER

MARRIED

UNDER 15 YEARS
15 TO 19 YEARS
20 TO 24 YEARS
25 TO 34 YEARS
35 TO 44 YEARS
45 TO 54 YEARS
55 TO 64 YEARS
65 YEARS AND OVER

SEPARATED

UNDER 15 YEARS
15 TO 19 YEARS
20 TO 24 YEARS
25 TO 34 YEARS
35 TO 44 YEARS
45 TO 54 YEARS
55 TO 64 YEARS
65 YEARS AND OVER

WIDOWED

UNDER 15 YEARS
15 TO 19 YEARS
20 TO 24 YEARS
25 TO 34 YEARS
35 TO 44 YEARS
45 TO 54 YEARS
55 TO 64 YEARS
65 YEARS AND OVER

DIVORCED

UNDER 15 YEARS
15 TO 19 YEARS

184	7	1191	-	1197
185	7	1198	-	1204
186	7	1205	-	1211
187	7	1212	-	1218
188	7	1219	-	1225
189	7	1226	-	1232
190	7	1233	-	1239
191	7	1240	-	1246
192	7	1247	-	1253
193	7	1254	-	1260
194	7	1261	-	1267
195	7	1268	-	1274
196	7	1275	-	1281
197	7	1282	-	1288
198	7	1289	-	1295
199	7	1296	-	1302
200	7	1303	-	1309
201	7	1310	-	1316
202	7	1317	-	1323
203	7	1324	-	1330
204	7	1331	-	1337
205	7	1338	-	1344
206	7	1345	-	1351
207	7	1352	-	1358
208	7	1359	-	1365
209	7	1366	-	1372
210	7	1373	-	1379
211	7	1380	-	1386
212	7	1387	-	1393
213	7	1394	-	1400
214	7	1401	-	1407
215	7	1408	-	1414
216	7	1415	-	1421
217	7	1422	-	1428

FIELD FIELD NAME SIZE POSITION

DESCRIPTION

B1DEMB02/C02

218 1429 - 1435
 219 1436 - 1442
 220 1443 - 1449
 221 1450 - 1456
 222 1457 - 1463
 223 1464 - 1470

FEMALES

SINGLE

224 1471 - 1477
 225 1478 - 1484
 226 1485 - 1491
 227 1492 - 1498
 228 1499 - 1505
 229 1506 - 1512
 230 1513 - 1519
 231 1520 - 1526

MARRIED

232 1527 - 1533
 233 1534 - 1540
 234 1541 - 1547
 235 1548 - 1554
 236 1555 - 1561
 237 1562 - 1568
 238 1569 - 1575
 239 1576 - 1582

SEPARATED

240 1583 - 1589
 241 1590 - 1596
 242 1597 - 1603
 243 1604 - 1610
 244 1611 - 1617
 245 1618 - 1624
 246 1625 - 1631
 247 1632 - 1638

WIDOWED

248 1639 - 1645
 249 1646 - 1652
 250 1653 - 1659
 251 1660 - 1666
 252 1667 - 1673
 253 1674 - 1680
 254 1681 - 1687
 255 1688 - 1694

DIVORCED

256 1695 - 1701
 257 1702 - 1708
 258 1709 - 1715
 259 1716 - 1722
 260 1723 - 1729
 261 1730 - 1736
 262 1737 - 1743
 263 1744 - 1750
 264 1751 - 1757

ZERGES FILL CELLS