



Statistics Canada / Statistique Canada
 Census Field / Secteur du recensement

U S E R S U M M A R Y T A P E

SHORT FORM DEMOGRAPHIC FILE 1

BBBBBBB	1	DDDDDDD	EEEEEEEE	MM	MM	BBBBBBB	0000	1
BBBBBBBB	11	DDDDDDDD	EEEEEEEE	MMM	MMM	BBBBBBBB	000000	11
BB BB	111	DD DD	EE	MMMMMMM	BB BB	00 00		111
BBBBBBB	11	DD DD	EEEEEEE	MM MM MM	BBBBBBB	00 00		11
BBBBBBB	11	DD DD	EEEEEEE	MM MM	BBBBBBB	00 00		11
BB BB	11	DD DD	EE	MM MM	BB BB	00 00		11
BBBBBBBB	111111	DDDDDDDD	EEEEEEEE	MM	MM	BBBBBBBB	000000	111111
BBBBBBB	111111	DDDDDDD	EEEEEEEE	MM	MM	BBBBBBB	0000	111111

EXTERNAL DECIMAL

1971 CENSUS OF CANADA

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.. SECTION ..
..   A      ..
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FILE CONTENT
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SHORT FORM DEMOGRAPHIC FILE 1 (LEVEL 2)

TABLE 1

TOTAL POPULATION BY SEX (3)

TOTAL
MALE
FEMALE

TABLE 2

TOTAL POPULATION BY SINGLE YEARS OF AGE (101) BY SEX (2)

- MALES
- AGE - UNDER 1 YEAR
- 1 YEAR
- 2 YEARS
- 3 YEARS
- 4 YEARS
- 5 YEARS
- 6 YEARS
- 7 YEARS
- 8 YEARS
- 9 YEARS
- 10 YEARS
- 11 YEARS
- 12 YEARS
- 13 YEARS
- 14 YEARS
- 15 YEARS
- 16 YEARS
- 17 YEARS
- .
- .
- .
- .
- .
- .
- 98 YEARS
- 99 YEARS
- 100 YEARS AND OVER

FEMALES
AGE - UNDER 1 YEAR
- 1 YEAR
- 2 YEARS
- 3 YEARS
- 4 YEARS
- 5 YEARS
- 6 YEARS
- 7 YEARS
- 8 YEARS
- 9 YEARS
- 10 YEARS
- 11 YEARS
- 12 YEARS
- 13 YEARS
- 14 YEARS
- 15 YEARS
- 16 YEARS
- 17 YEARS
- 18 YEARS
- .
- .
- .
- .
- .
- .
- 98 YEARS
- 99 YEARS
- 100 YEARS AND OVER

SECTION

B

FILE SPECIFICATIONS

GEOGRAPHIC LEVEL: CENSUS TRACT/ AREA AGGREGATE (CT/AA)

FILE NAME: SHORT FORM DEMOGRAPHIC FILE 1

DATA SET NAME	:	BIDEMB01
CHARACTER MODE	:	EXTERNAL DECIMAL
LOGICAL RECORD LENGTH	:	2,002
BLOCK SIZE	:	4,004
BLOCKING FACTOR	:	2
NUMBER OF RECORDS	:	4,161
NUMBER OF TAPE REELS	:	=1 (9 TRACKS, 1600 B.P.I.)
		=1 (9 TRACKS, 800 B.P.I.)
		=1 (7 TRACKS, 800 B.P.I.)

SEQUENCE:

- 1ST. AA'S NOT CORRESPONDING TO ANY CMA OR CA.
- 2ND. CMA'S AND CA'S WITH CT'S.
- 3RD. CA'S WITH NO CT'S.

1. AA'S ARE ASCENDING ORDER AND DO NOT HAVE ANY INFORMATION IN POSITION 15 TO 20.
2. CMA'S AND CA'S DIVIDED IN CT'S ARE IN ASCENDING ORDER AND THEIR RESPECTIVE AA'S ARE ALSO IN ASCENDING ORDER.
3. CA'S WITH NO CT'S ARE IN ASCENDING ORDER.

NOTE: CMA (001,026) AND SOME CA'S ARE UNIQUELY SUB-DIVIDED INTO CT'S REMAINING CA'S (CODE 051 TO 314) ARE NOT. HENCE, AGGREGATION OF CA'S BY AA'S WILL NOT NECESSARY INCLUDE THE COMPLETE CA.

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.. SECTION ..      DEFINITION OF GEOGRAPHIC REGIONS AND AN
..           ..      EXPLANATION OF GEO-STATISTICAL CODES
..   C       ..
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.. FIELD           1 ..
.. POSITION         1-2 ..      PROVINCE
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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

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

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

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: CENSUS METROPOLITAN AREA AND CENSUS AGGLOMERATION LIST :
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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

POPULATION

50,000-99,999

50,000-99,999

032	BRANTFORD ONT	.	037
038	KINGSTON ONT	.	040
041	OSHAWA ONT	.	042
043	SARNIA ONT	.	044
045	SHAWINIGAN QUE	.	045
047	SYDNEY NS	.	048

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

25,000-49,999

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

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

10,000-24,999

102	ARNPRIOR ONT	.	103
105	CAMPBELLTON NB	.	108
110	COURTENAY BC	.	112
115	FLIN FLON MAN	.	116
118	HAILEYBURY 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	.	

103	ASBESTOS QUE
108	COBOURG 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

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	.	

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

2,000-4,999

2,000-4,999

302	BEAUCEVILLE QUE	.	305
304	DUNVILLE NFLD	.	309
306	FORESTVILLE QUE	.	314
312	PIERREVILLE QUE	.	
315	ROCK ISLAND QUE	.	

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 A 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

DATA SET NAME OF THE FILE.

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.. SECTION ..
..      D   ..
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EXPLANATORY NOTES
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.....
RANDOM ROUNDING
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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 USER 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 COVENTIONALLY 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 DIDIT 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 ROUNDDING 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 ROUNDDING UP OR DOWN IS DETERMINED BY THE REMAINDER (R) OBTAINED WHEN THE NUMBER IS DIVIDED BY FIVE (5). THE PROBABILITY OF ROUNDDING UP TO THE NEXT HIGHER MULTIPLE OF 5 IS R/5 AND THE PROBABILITY OF ROUNDDING DOWN IS 1 - R/5. THE FOLLOWING PROBABILITIES APPLY WITH A BASE 5 ROUNDDING:

LAST DIGIT OF TRUE COUNT	PROBABILITY OF ROUNDDING	
	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 DATA. 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 ----- NUMBER OF MALES IN THE SAMPLE, AGED 35-44	X	NUMBER OF MALES IN THE POPULATION AGED 35-44
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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

E

TECHNICAL DESCRIPTION

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 ..
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SUPPLEMENTARY INFORMATION

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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*                               *
* CENSUS USER INQUIRY SERVICE  *
* USER SUMMARY TAPES          *
* STATISTICS CANADA           *
* OTTAWA, ONTARIO, CANADA     *
* K1A 0T6                      *
*                               *
* 613-996-5254                *
*                               *
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SECTION

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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
8		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

22A	64	70
22B	71	77
22C	78	84

POPULATION BY SEX
TOTAL POPULATION
MALE
FEMALE

TABLE 2

POPULATION BY SINGLE YEARS OF AGE BY SEX

	MALES		POPULATION BY SINGLE YEARS OF AGE BY SEX
	POPULATION	PERCENT	
3	85	91	UNDER 1 YEAR
24	92	98	1 YEAR
25	95	105	2 YEARS
26	106	112	3 YEARS
27	113	119	4 YEARS
28	120	126	5 YEARS
29	127	133	6 YEARS
30	134	140	7 YEARS
31	141	147	8 YEARS
32	148	154	9 YEARS
33	155	161	10 YEARS
34	162	168	11 YEARS
35	169	175	12 YEARS
36	176	182	13 YEARS
37	183	189	14 YEARS
38	190	196	15 YEARS
39	197	203	16 YEARS
40	204	210	17 YEARS
41	211	217	18 YEARS
42	218	224	19 YEARS
43	225	231	20 YEARS
44	232	238	21 YEARS
45	239	245	22 YEARS
46	246	252	23 YEARS
47	253	259	24 YEARS
48	260	266	25 YEARS
49	267	273	26 YEARS
50	274	280	27 YEARS
51	281	287	28 YEARS
52	288	294	29 YEARS
53	295	301	30 YEARS
54	302	308	31 YEARS
55	309	315	32 YEARS
56	316	322	33 YEARS
57	323	329	34 YEARS
58	330	336	35 YEARS
59	337	343	36 YEARS
60	344	350	37 YEARS
61	351	357	38 YEARS
62	358	364	39 YEARS
63	365	371	40 YEARS
64	372	378	41 YEARS
65	379	385	42 YEARS
66	386	392	43 YEARS
67	393	399	44 YEARS
68	400	406	45 YEARS
69	407	413	46 YEARS
70	414	420	47 YEARS
71	421	427	48 YEARS
72	428	434	49 YEARS
73	435	441	50 YEARS
74	442	448	51 YEARS
75	449	455	52 YEARS
76	456	462	53 YEARS

FIELD FIELD NAME SIZE POSITION

DESCRIPTION

FIELD	FIELD NAME	SIZE	POSITION	DESCRIPTION
77	463	7	469	54 YEARS
78	470	7	476	55 YEARS
79	477	7	483	56 YEARS
80	484	7	490	57 YEARS
81	491	7	497	58 YEARS
82	498	7	504	59 YEARS
83	505	7	511	60 YEARS
84	512	7	518	61 YEARS
85	519	7	525	62 YEARS
86	526	7	532	63 YEARS
87	533	7	539	64 YEARS
88	540	7	546	65 YEARS
89	547	7	553	66 YEARS
90	554	7	560	67 YEARS
91	561	7	567	68 YEARS
92	568	7	574	69 YEARS
93	575	7	581	70 YEARS
94	582	7	588	71 YEARS
95	589	7	595	72 YEARS
96	596	7	602	73 YEARS
97	603	7	609	74 YEARS
98	610	7	616	75 YEARS
99	617	7	623	76 YEARS
100	624	7	630	77 YEARS
101	631	7	637	78 YEARS
102	638	7	644	79 YEARS
103	645	7	651	80 YEARS
104	652	7	658	81 YEARS
105	659	7	665	82 YEARS
106	666	7	672	83 YEARS
107	673	7	679	84 YEARS
108	680	7	686	85 YEARS
109	687	7	693	86 YEARS
110	694	7	700	87 YEARS
111	701	7	707	88 YEARS
112	708	7	714	89 YEARS
113	715	7	721	90 YEARS
114	722	7	728	91 YEARS
115	729	7	735	92 YEARS
116	736	7	742	93 YEARS
117	743	7	749	94 YEARS
118	750	7	756	95 YEARS
119	757	7	763	96 YEARS
120	764	7	770	97 YEARS
121	771	7	777	98 YEARS
122	778	7	784	99 YEARS
123	785	7	791	100 YEARS
124	792	7	798	UNDER 1 YEAR
125	799	7	805	1 YEAR
126	806	7	812	2 YEARS
127	813	7	819	3 YEARS
128	820	7	826	4 YEARS
129	827	7	833	5 YEARS
130	834	7	840	6 YEARS
131	841	7	847	7 YEARS
132	848	7	854	8 YEARS

FEMALES
100 YEARS AND OVER

UNDER 1 YEAR

FIELD FIELD NAME SIZE POSITION

DESCRIPTION

81DEMB01/C01

FIELD	FIELD NAME	SIZE	POSITION	DESCRIPTION
133		7	855	9 YEARS
134		7	862	10 YEARS
135		7	869	11 YEARS
136		7	876	12 YEARS
137		7	883	13 YEARS
138		7	890	14 YEARS
139		7	897	15 YEARS
140		7	904	16 YEARS
141		7	911	17 YEARS
142		7	918	18 YEARS
143		7	925	19 YEARS
144		7	932	20 YEARS
145		7	939	21 YEARS
146		7	946	22 YEARS
147		7	953	23 YEARS
148		7	960	24 YEARS
149		7	967	25 YEARS
150		7	974	26 YEARS
151		7	981	27 YEARS
152		7	988	28 YEARS
153		7	995	29 YEARS
154		7	1002	30 YEARS
155		7	1009	31 YEARS
156		7	1016	32 YEARS
157		7	1023	33 YEARS
158		7	1030	34 YEARS
159		7	1037	35 YEARS
160		7	1044	36 YEARS
161		7	1051	37 YEARS
162		7	1058	38 YEARS
163		7	1065	39 YEARS
164		7	1072	40 YEARS
165		7	1079	41 YEARS
166		7	1086	42 YEARS
167		7	1093	43 YEARS
168		7	1100	44 YEARS
169		7	1107	45 YEARS
170		7	1114	46 YEARS
171		7	1121	47 YEARS
172		7	1128	48 YEARS
173		7	1135	49 YEARS
174		7	1142	50 YEARS
175		7	1149	51 YEARS
176		7	1156	52 YEARS
177		7	1163	53 YEARS
178		7	1170	54 YEARS
179		7	1177	55 YEARS
180		7	1184	56 YEARS
181		7	1191	57 YEARS
182		7	1198	58 YEARS
183		7	1205	59 YEARS
184		7	1212	60 YEARS
185		7	1219	61 YEARS
186		7	1226	62 YEARS
187		7	1233	63 YEARS
188		7	1240	64 YEARS
189		7	1247	65 YEARS

FIELD	FIELD NAME	SIZE	POSITION	DESCRIPTION
190		7	1254	66 YEARS
191		7	1261	67 YEARS
192		7	1268	68 YEARS
193		7	1275	69 YEARS
194		7	1282	70 YEARS
195		7	1289	71 YEARS
196		7	1296	72 YEARS
197		7	1303	73 YEARS
198		7	1310	74 YEARS
199		7	1317	75 YEARS
200		7	1324	76 YEARS
201		7	1331	77 YEARS
202		7	1338	78 YEARS
203		7	1345	79 YEARS
204		7	1352	80 YEARS
205		7	1359	81 YEARS
206		7	1366	82 YEARS
207		7	1373	83 YEARS
208		7	1380	84 YEARS
209		7	1387	85 YEARS
210		7	1394	86 YEARS
211		7	1401	87 YEARS
212		7	1408	88 YEARS
213		7	1415	89 YEARS
214		7	1422	90 YEARS
215		7	1429	91 YEARS
216		7	1436	92 YEARS
217		7	1443	93 YEARS
218		7	1450	94 YEARS
219		7	1457	95 YEARS
220		7	1464	96 YEARS
221		7	1471	97 YEARS
222		7	1478	98 YEARS
223		7	1485	99 YEARS
224		7	1492	100 YEARS
225		504	1499	ZERDES FILL CELLS AND OVER