

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

LONG FORM HOUSEHOLD FILE 1

BBBBBBB	2222222	HH	HH	HH	HH	DDDDDDD	BBBBBBB	0000	1
BBBBBBBBB	22222222	HH	HH	HH	HH	DDDDDDDD	BBBBBBBBB	000000	11
BB BB	22	HH	HH	HH	HH	DD DD	BB BB	00 00	111
BBBBBBB	222	HHHHHHHH	HHHHHHHH	DD	DD	BBBBBBB	00 00		11
BBBBBBB	222	HHHHHHHH	HHHHHHHH	DD	DD	BBBBBBB	00 00		11
BB BB	22	HH	HH	HH	HH	DD DD	BB BB	00 00	11
BBBBBBBBB	22222222	HH	HH	HH	HH	DDDDDDDD	BBBBBBBBB	000000	111111
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EXTERNAL DECIMAL

1971 CENSUS OF CANADA

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SECTION

FILE CONTENT

A

LONG FORM HOUSEHOLD FILE 1

(LEVEL 2)

TABLE 1

A - TOTAL HOUSEHOLDS BY INCOME OF HEAD FROM ALL SOURCES (2) BY TYPE OF HOUSEHOLD (3)

TOTAL HOUSEHOLDS	- NO INCOME
	- WITH INCOME
FAMILY HOUSEHOLDS	- NO INCOME
	- WITH INCOME
NON-FAMILY HOUSEHOLDS	- NO INCOME
	- WITH INCOME

B - TOTAL HOUSEHOLDS BY INCOME OF HEAD (5) EXCLUDING INCOME EQUAL TO 0, BY TYPE OF HOUSEHOLD (3)

TOTAL HOUSEHOLDS	- LESS THAN 2000 (INCLUDES LOSS)
	- 2000 - 2999
	- 3000 - 5999
	- 6000 - 9999
	- 10000 AND OVER
FAMILY HOUSEHOLDS	- LESS THAN 2000 (INCLUDES LOSS)
	- 2000 - 2999
	- 3000 - 5999
	- 6000 - 9999
	- 10000 AND OVER
NON-FAMILY HOUSEHOLDS	- LESS THAN 2000 (INCLUDES LOSS)
	- 2000 - 2999
	- 3000 - 5999
	- 6000 - 9999
	- 10000 AND OVER

C - AVERAGE INCOME FROM ALL SOURCES BY TYPE OF HOUSEHOLD (3)

TOTAL
FAMILY HOUSEHOLDS
NON-FAMILY HOUSEHOLDS

D - TOTAL HOUSEHOLDS BY EMPLOYMENT INCOME OF HEAD (2)  
BY TYPE OF HOUSEHOLD (3)

TOTAL HOUSEHOLDS	- NO INCOME
	- WITH INCOME
FAMILY HOUSEHOLDS	- NO INCOME
	- WITH INCOME
NON-FAMILY HOUSEHOLDS	- NO INCOME
	- WITH INCOME

E - TOTAL HOUSEHOLDS BY EMPLOYMENT INCOME OF HEAD (5) EXCLUDING  
INCOME EQUAL TO 0 BY TYPE OF HOUSEHOLD (3)

TOTAL HOUSEHOLDS	- LESS THAN 2000 (INCLUDES LOSS)
	- 2000 - 2999
	- 3000 - 5999
	- 6000 - 9999
	- 10000 AND OVER
FAMILY HOUSEHOLDS	- LESS THAN 2000 (INCLUDES LOSS)
	- 2000 - 2999
	- 3000 - 5999
	- 6000 - 9999
	- 10000 AND OVER
NON-FAMILY HOUSEHOLDS	- LESS THAN 2000 (INCLUDES LOSS)
	- 2000 - 2999
	- 3000 - 5999
	- 6000 - 9999
	- 10000 AND OVER

F - AVERAGE EMPLOYMENT INCOME EXCLUDING INCOME  
EQUAL TO 0 BY TYPE OF HOUSEHOLD (3)

TOTAL
FAMILY HOUSEHOLDS
NON-FAMILY HOUSEHOLDS

TABLE 2

TENANT-OCCUPIED NON-FARM DWELLINGS BY AVERAGE CASH RENT (8)  
 BY TYPE OF DWELLING (4) BY TYPE OF HOUSEHOLD (3)

TOTAL HOUSEHOLDS	
SINGLE DETACHED	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
SINGLE ATTACHED	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
APARTMENT	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
MOBILE	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
FAMILY HOUSEHOLDS	
SINGLE DETACHED	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
SINGLE ATTACHED	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER

APARTMENT	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
MOBILE	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
NON-FAMILY HOUSEHOLDS	
SINGLE DETACHED	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
SINGLE ATTACHED	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
APARTMENT	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER
MOBILE	
AVERAGE CASH RENT	- 0 - 39 (INCLUDES NO CASH RENT)
	- 40 - 59
	- 60 - 79
	- 80 - 99
	- 100 - 139
	- 140 - 179
	- 180 - 229
	- 230 AND OVER

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.. SECTION ..
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## FILE SPECIFICATIONS

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

FILE NAME: LONG FORM HOUSEHOLD FILE 1

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DATA SET NAME       : B2HHDB01
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.)

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## 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.

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:

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	OSHAWA 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

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	•	

## 5,000-9,999

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

## 2,000-4,999

302	BEAUCEVILLE QUE	•	
304	DUNVILLE NFLD	•	305
306	FORESTVILLE QUE	•	309
312	PIERREVILLE QUE	•	314
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	TETFORD MINES QUE
081	TRENTON ONT
084	VICTORIAVILLE QUE

## 10,000-24,999

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	PETAUAWA ONT
145	ST-GEORGES QUE
150	SUMMERSIDE PEI
154	TRAIL BC
157	VAL-D'OR QUE

## 5,000-9,999

208	CARBONAR 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 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 :  
: :  
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DATA SET NAME OF THE FILE.

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.. SECTION ..
..      D    ..
.....
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 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 486 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 :  
: .....  
.....

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

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 ..
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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:

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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)

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## FOR FURTHER DETAILS, CONTACT:

```

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

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SECTION	RECORD DESCRIPTION
G	

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

DESCRIPTION

FIELD FIELD NAME SIZE POSITION

	TABLE 1A		TOTAL OCC. DWLS/HH TYPE/HEAD INCCME/SOURCE
23	7	64	TCTAL HOUSEHOLDS
24	7	71	TOTAL HOUSEHOLDS BY INCCME OF HEAD
25	7	78	INCOME FROM ALL SOURCES--NO INCCME
			-WITH INCCME
26	7	85	FAMILY HOUSEHOLDS
27	7	92	TOTAL HOUSEHOLDS BY INCCME OF HEAD
28	7	99	INCOME FROM ALL SOURCES--NO INCCME
			-WITH INCCME
29	7	106	NCN-FAMILY HOUSEHCLDS
30	7	113	TOTAL HOUSEHOLDS BY INCCME OF HEAD
31	7	120	INCOME FROM ALL SOURCES--NO INCCME
			-WITH INCCME
			OCC. DWLS/HH TYPE/INCCME (EXCL=C INC.)
			TOTAL HOUSEHOLDS
32	7	127	< 2000(INCL. LOSS)
33	7	134	-2000-2999
34	7	141	-3000-5999
35	7	148	-6000-9999
36	7	155	-10000 AND OVER
37	7	162	FAMILY HOUSEHOLDS
38	7	169	< 2000(INCL. LOSS)
39	7	176	-2000-2999
40	7	183	-3000-5999
41	7	190	-6000-9999
			-10000 AND OVER
42	7	197	NCN-FAMILY HOUSEHCLDS
43	7	204	< 2000(INCL. LOSS)
44	7	211	-2000-2999
45	7	218	-3000-5999
46	7	225	-6000-9999
			-10000 AND OVER
47	7	232	OCC. DWLS/HH TYPE/AVER. INCCME (ALL SOURCES)
48	7	239	AV. INC.(ALL SOURCES)-TCTAL
49	7	246	-FAMILY HOUSEHOLDS
			-NCN FAMILY HHOLDS
			CCC. DWLS/HH TYPE/HEAD EMPLOYMENT INCOME
			TOTAL HOUSEHOLDS
50	7	253	TOTAL HOUSEHOLDS BY INCCME OF HEAD
51	7	260	INCOME FROM EMPLOYMENT--NO INCCME
52	7	267	-WITH INCCME
53	7	274	FAMILY HOUSEHOLDS
54	7	281	TOTAL HOUSEHOLDS BY INCCME OF HEAD
55	7	288	INCOME FROM EMPLOYMENT--NO INCCME
			-WITH INCCME
56	7	295	NCN-FAMILY HOUSEHOLDS
57	7	302	TOTAL HOUSEHOLDS BY INCCME OF HEAD
58	7	309	INCOME FROM EMPLOYMENT--NO INCCME
			-WITH INCCME
			CCC. DWLS/HH TYPE/AVER. EMP. INC.(EXCL=0)
			TOTAL HOUSEHOLDS
59	7	316	< 2000(INCL. LOSS)
60	7	323	-2000-2999
61	7	330	-3000-5999
62	7	337	-6000-9999
63	7	344	-10000 AND OVER

DESCRIPTION

FIELD FIELD NAME SIZE POSITION

FAMILY HOUSEHOLDS  
 < 2000(INCL. LOSS)  
 -2000-2599  
 -3000-5559  
 -6000-9599  
 -10000 AND OVER  
 NCN-FAMILY HOUSEHOLDS  
 < 2000(INCL. LOSS)  
 -2000-2599  
 -3000-5559  
 -6000-9599  
 -10000 AND OVER  
 CCC. DWLS/HH TYPE/AVER. EMPL. INC.  
 AV. EMPL. INC. -TOTAL  
 -FAMILY HOUSEHOLDS  
 -NON FAMILY HOUSEHOLDS

64 7 351 - 357  
 65 7 358 - 364  
 66 7 365 - 371  
 67 7 372 - 378  
 68 7 379 - 385  
 69 7 386 - 392  
 70 7 393 - 399  
 71 7 400 - 406  
 72 7 407 - 413  
 73 7 414 - 420  
 TABLE IF  
 74 7 421 - 427  
 75 7 428 - 434  
 76 7 435 - 441

TTL. OCC. DWLG/HH TYPE/CASH RNT/HEAD INCGM

TABLE 2

TCTAL HOUSEHOLDS  
 SINGLE DETACHED  
 TENANT-OCCUPIED NCN-FARM DWELLINGS  
 AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)  
 -40-59  
 -60-79  
 -80-99  
 -100-139  
 -140-179  
 -180-229  
 -230 AND OVER

77 7 442 - 448  
 78 7 449 - 455  
 79 7 456 - 462  
 80 7 463 - 469  
 81 7 470 - 476  
 82 7 477 - 483  
 83 7 484 - 490  
 84 7 491 - 497  
 85 7 498 - 504

SINGLE ATTACHED  
 TENANT-OCCUPIED NCN-FARM DWELLINGS  
 AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)  
 -40-59  
 -60-79  
 -80-99  
 -100-139  
 -140-179  
 -180-229  
 -230 AND OVER

86 7 505 - 511  
 87 7 512 - 518  
 88 7 519 - 525  
 89 7 526 - 532  
 90 7 533 - 539  
 91 7 540 - 546  
 92 7 547 - 553  
 93 7 554 - 560  
 94 7 561 - 567

APARTMENT  
 TENANT-OCCUPIED NCN-FARM DWELLINGS  
 AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)  
 -40-59  
 -60-79  
 -80-99  
 -100-139  
 -140-179  
 -180-229  
 -230 AND OVER

95 7 568 - 574  
 96 7 575 - 581  
 97 7 582 - 588  
 98 7 589 - 595  
 99 7 596 - 602  
 100 7 603 - 609  
 101 7 610 - 616  
 102 7 617 - 623  
 103 7 624 - 630

MOBILE  
 TENANT-OCCUPIED NCN-FARM DWELLINGS  
 AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)  
 -40-59  
 -60-79  
 -80-99  
 -100-139

104 7 631 - 637  
 105 7 638 - 644  
 106 7 645 - 651  
 107 7 652 - 658  
 108 7 659 - 665  
 109 7 666 - 672

FIELD	FIELD NAME	SIZE	PC	POSITION	DESCRIPTION
110		7	673	-	-140-175
111		7	680	-	-180-225
112		7	687	-	-230 AND OVER
	FAMILY HOUSEHOLDS				
	SINGLE DETACHED				
113		7	694	-	TENANT-OCUPIED NON-FARM DWELLINGS
114		7	701	-	AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)
115		7	708	-	-40-59
116		7	715	-	-60-79
117		7	722	-	-80-99
118		7	729	-	-100-135
119		7	736	-	-140-175
120		7	743	-	-180-225
121		7	750	-	-230 AND OVER
	SINGLE ATTACHED				
122		7	757	-	TENANT-OCUPIED NON-FARM DWELLINGS
123		7	764	-	AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)
124		7	771	-	-40-59
125		7	778	-	-60-79
126		7	785	-	-80-99
127		7	792	-	-100-135
128		7	799	-	-140-175
129		7	806	-	-180-225
130		7	813	-	-230 AND OVER
	APARTMENT				
131		7	820	-	TENANT-OCUPIED NON-FARM DWELLINGS
132		7	827	-	AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)
133		7	834	-	-40-59
134		7	841	-	-60-79
135		7	848	-	-80-99
136		7	855	-	-100-135
137		7	862	-	-140-175
138		7	869	-	-180-225
139		7	876	-	-230 AND OVER
	MOBILE				
140		7	883	-	TENANT-OCUPIED NON-FARM DWELLINGS
141		7	890	-	AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)
142		7	897	-	-40-59
143		7	904	-	-60-79
144		7	911	-	-80-99
145		7	918	-	-100-135
146		7	925	-	-140-175
147		7	932	-	-180-225
148		7	939	-	-230 AND OVER
	NON-FAMILY HOUSEHOLDS				
	SINGLE DETACHED				
149		7	946	-	TENANT-OCUPIED NON-FARM DWELLINGS
150		7	953	-	AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)
151		7	960	-	-40-59
152		7	967	-	-60-79
153		7	974	-	-80-99
154		7	981	-	-100-135
155		7	988	-	-140-175
156		7	995	-	-180-225
157		7	1002	-	-230 AND OVER
	SINGLE ATTACHED				
158		7	1009	-	TENANT-OCUPIED NON-FARM DWELLINGS

DESCRIPTION

PC POSITION

FIELD NAME SIZE

FIELD	NAME	SIZE	PC POSITION	DESCRIPTION
159		7	1016	AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)
160		7	1023	-40-59
161		7	1030	-60-79
162		7	1037	-80-99
163		7	1044	-100-139
164		7	1051	-140-179
165		7	1058	-180-229
166		7	1065	-230 AND OVER
167		7	1072	APARTMENT
168		7	1079	TENANT-OCCUPIED NON-FARM DWELLINGS
169		7	1086	AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)
170		7	1093	-40-59
171		7	1100	-60-79
172		7	1107	-80-99
173		7	1114	-100-139
174		7	1121	-140-179
175		7	1128	-180-229
		7	1134	-230 AND OVER
176		7	1135	MOBILE
177		7	1142	TENANT-OCCUPIED NON-FARM DWELLINGS
178		7	1149	AVERAGE CASH RENT-0-39(INCL. NO CASH RENT)
179		7	1156	-40-59
180		7	1163	-60-79
181		7	1170	-80-99
182		7	1177	-100-139
183		7	1184	-140-179
184		7	1191	-180-229
185		805	1198	-230 AND OVER
			2002	ZERCES FILL CELLS