

ICPSR
Inter-university Consortium for
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Arson Measurement, Analysis, and Prevention
in Massachusetts, 1983–1985

James Alan Fox

ICPSR 9972

ARSON MEASUREMENT, ANALYSIS, AND PREVENTION IN
MASSACHUSETTS, 1983-1985

(ICPSR 9972)

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The original collector of the data, ICPSR, and the relevant funding agency bear no responsibility for uses of this collection or for interpretations or inferences based upon such uses.

DATA COLLECTION DESCRIPTION

James Alan Fox

ARSON MEASUREMENT, ANALYSIS, AND PREVENTION IN MASSACHUSETTS,
1983-1985 (ICPSR 9972)

SUMMARY: These data were gathered to test a model of the socioeconomic and demographic determinants of the crime of arson. Datasets for this analysis were developed by the principal investigator from records of the Massachusetts Fire Incident Reporting System and from population and housing data from the 1980 Census of Massachusetts. The three identically-structured data files include variables such as population size, fire incident reports, employment, income, family structure, housing type, housing quality, housing occupancy, housing availability, race, and age.

UNIVERSE: Arson incidents in metropolitan areas in the United States.

SAMPLING: All residential and vehicular arson incident reports in Massachusetts for the years 1983-1985.

NOTE: (1) Data are aggregated to the census-tract level in the city files, Parts 2 and 3, and to the ZIP code level in Part 1, the state file. (2) The codebook is provided as a Portable Document Format (PDF) file. The PDF file format was developed by Adobe Systems Incorporated and can be accessed using PDF reader software, such as the Adobe Acrobat Reader. Information on how to obtain a copy of the Acrobat Reader is provided through the ICPSR Website on the Internet.

EXTENT OF COLLECTION: 3 data files + machine-readable documentation (PDF) + SAS data definition statements + SPSS data definition statements

EXTENT OF PROCESSING: MDATA.PR/ UNDOCCHK.PR/ REFORM.DOC

DATA FORMAT: Logical Record Length with SAS and SPSS data definition statements

Part 1: Massachusetts ZIP Code
Data
File Structure: rectangular
Cases: 592
Variables: 135
Record Length: 646
Records Per Case: 1

Part 2: Massachusetts Urban
Census Tract Data
File Structure: rectangular
Cases: 389
Variables: 135
Record Length: 623
Records Per Case: 1

Part 3: Boston Census Tract Data
File Structure: rectangular
Cases: 161
Variables: 135
Record Length: 613
Records Per Case: 1

Part 4: Codebook for All
Parts
Record Length: 80

RELATED PUBLICATION:

Fox, J.A. ARSON MEASUREMENT, ANALYSIS, AND PREVENTION (Final Report). Washington, DC: United States Department of Justice. National Institute of Justice, 1991.

U.S. Department of Justice
Office of Justice Programs
National Institute of Justice

NATIONAL INSTITUTE OF JUSTICE

Data Resources Program

Arson Measurement

Analysis And Prevention

James Alan Fox

A User's Guide
To the Machine-Readable Files and Documentation

GENERAL STUDY OVERVIEW

Source: Fox, J.A. (1991). "Arson Measurement Analysis, and Prevention." Final report to the National Institute of Justice.

STUDY IDENTIFICATION

Arson Measurement Analysis, and Prevention

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Award No. 86-IJ-CX-0071

KEY WORDS

Arson, causes of arson, arson prevention.

PURPOSE OF THE STUDY

Arson accounts for more direct property loss than any other crime except burglary. The handful of quantitative studies on arson rates and their correlates vary widely in scope as well as methodological soundness. Chief among the findings of previous research is a consistent correlation between arson rates and indices of "poverty, family dissolution, housing quality, and building vacancy" (Fox, 1991). The present study attempts to replicate the results of earlier research while advancing the level of methodological rigor in the selection of data and analytical technique. The following questions are addressed:

1. What are the substantive and formulaic problems in the calculation of arson rates?
2. What are the distinctive socioeconomic factors that underlie the various measures of employment, income and housing included in U.S. census data?
3. What role do these socioeconomic factors play in explaining arson rates?
4. To what degree do the population demographic variables of race and age explain arson rates when socioeconomic factors are taken into account?

METHODS

Study Design

This project carried out cross-sectional analysis of arson incidence data for the State of Massachusetts, accumulated over a 3 year period, aggregated to the zip code and the census tract level and merged with population summary data from the 1980 U.S. Census. The investigator created 3 data sets for analysis, each with a different geographic coverage: the first covers the entire state of Massachusetts with data aggregated to zip code level to reduce problems of census data suppression and null reports in sparsely populated areas; the second covers the nine largest cities in Massachusetts -- Boston, Brockton, Cambridge, Fall River, Lawrence, Lowell, New Bedford, Springfield and Worcester -- with incidence data aggregated to the census tract; and the third covers the city of Boston, again with aggregation at the census tract level. Incidence report data were checked to determine the reliability of zip code and census tract information provided. Corrections were made, where possible employing the street address information in standard zip code and tract code matching computer programs. Unresolved cases were dropped from the analysis.

The analysis regresses arson rates against socioeconomic, and demographic variables in order to develop explanatory models for residential and vehicular arson. The dependent variables are: (1) residential arsons per 1000 residential buildings, and (2) car arsons per 1000 automobiles. A primary set of three independent, or predictor, variables is derived from a factor analysis of 13 measures of employment, income and housing. These factor variables are designated "urbanness," "poverty" and "housing quality" /1. A secondary set of independent variables is comprised of 2 demographic measures: (1) percent of population which is black and (2) percent of population which is male ages 10-19.

Sources of Information

Data for this study were obtained from two public archive data sources: (1) The Massachusetts Department of Public Safety, Division of Fire Prevention; and (2) the United States Department of Commerce, Bureau of the Census. The Massachusetts fire department began maintaining a computerized database for fire incidence in 1982 using the National Fire Incident Reporting System (NFIRS) developed and promoted by the Federal Emergency Management Agency. NFIRS forms solicit information on both the fire incident and the victims of fire. The incident data includes information on time, location, origin and circumstances, structures or items destroyed, and the methods and resources required to extinguish the fire. The present study used the Massachusetts Fire Incident Reporting System (MFIRS) data tapes for the years 1983-1985 to extract data on residential and

vehicular arson fires. Incident data from these files were aggregated to provide census tract and zip code-level data. Population and housing data were extracted from the 1980 Census of Massachusetts, Summary Count 3A and 3B (STF3A for census tracts and STF3B for zip codes).

Sample

The study uses a total population sample of residential and vehicular arson incident reports in the state of Massachusetts for the years 1983-1985. The 3 year file contained 60,450 such reports, which were aggregated to the analysis units employed in this study.

Response Rates

The Fire Reporting System was designed to collect data on all known fires. Some reports, however, could not be used because of poor recording of the location of the fire. The author estimates that for the nine largest cities at least 88% of the location codes were determined.

Dates of Data Collection

Fire incidence data were collected between January, 1983 and December, 1985. The census data were collected in April 1980.

SUMMARY OF CONTENTS

Description of Variables

The three data files are identically structured and contain the same set of variables. They are:

1. identification variables -- file name, id, zip code, census tract, fire department id;
2. population size variables -- number of persons, population weight, number of cars, cars per 100 population;
3. location dummy variables indicating the cities of Boston, Brockton, Cambridge, Fall river, Lawrence, Lowell, New Bedford, Springfield, and Worcester;
4. fire incident report variables -- e.g., residential arson per 1000 residential buildings, residential arson in 1 & 2 family buildings per 1000 buildings, residential arson in apartments per 1000 rental buildings, vehicular arson per

1000 cars;

5. employment variables -- e.g., labor force participation, percent of unemployed 15+ weeks, unemployment rate;
6. variables on income and family structure -- e.g., mean income, percent of persons below poverty, percent of families with 1 parent;
7. variables on housing types, quality, occupancy and availability - e.g., total number housing units, number households, percent of housing units without complete plumbing, percent of rental units vacant, median owner monthly cost with mortgage;
8. variables relating housing and vehicle density -- e.g., number occupied units with car, percent of occupied units with car;
9. variables on race -- number whites, number blacks, percent white, percent black, percent of Spanish origin; and
10. variables on age -- e.g., percent aged 18-19, percent aged 18-19 and male.

Presence of Common Scales

None.

Unit of Observation

File 1: coverage is the State of Massachusetts; analysis unit is the U.S. postal zip-code area.

File 2: coverage is the 9 largest cities in Massachusetts; analysis unit is the U.S. census tract area.

File 3: coverage is the city of Boston; analysis unit is the U.S. census tract area. Note that File 3 is a subset of File 2.

GEOGRAPHIC COVERAGE

The entire State of Massachusetts, with special focus on the nine largest metropolitan areas including the city of Boston.

EVALUATION

Data Quality

Checks for out-of-range values and missing cases suggest that the data are relatively free of error. There are, however a substantial number of missing data points, especially for race related variables, due to census data suppression in small population groups.

Data Limitations

The data sets lack many computed variables referred to in the report, some of which were employed by the researchers to determine which cases would be included in various analyses, and others of which were key variables in those analyses.

REPORTS AND PUBLICATIONS

Fox, J.A. (1991). "Arson Measurement Analysis, and Prevention."
Final report to the National Institute of Justice.

/1 These variables are not provided in their derived form in the released data set but may be computed from their constituent source variables.

DATA COMPLETENESS REPORT

This section presents information regarding the quality of the data in this Data Set. Tables n.1 and n.2 (where n=1 to 3, and references the file number) indicate the extent and location of out-of-range values, and Tables n.3 and n.4 summarize the incidence of missing data.

FILE 1

Number of Cases: 592
 Number of Variables: 135

 Table 1.1. Distribution of Variables by Percentage of Out-of-Range Values: File 1

Percent of Cases with Out-of-Range Values	Distribution of Variables By Percent Out-of-Range Values	
	Number	Percent
0% (0 cases)	135	100.0%
> 0% to 100% (1 to 592 cases)	0	0.0%
Total	135	100.0%

 Table 1.2. List of Variables With Out-of-Range Values: File 1

None.

 Table 1.3. Distribution of Variables by Percentage of Missing Values: File 1

Percent of Cases with Missing Values	Distribution of Variables By Percent Missing Values	
	Number	Percent
0% (0 cases)	41	30.8%
> 0% to 1% (1 to 5 cases)	1	0.8%

> 1% to 3%	(6 to 17 cases)	37	27.8%
> 3% to 5%	(18 to 29 cases)	36	27.1%
> 5% to 10%	(30 to 59 cases)	1	0.8%
> 10% to 20%	(60 to 118 cases)	8	6.0%
> 20% to 40%	(119 to 236 cases)	2	1.5%
> 40% to 100%	(237 to 592 cases)	7	5.3%
Total		133	100.0%

Note. Calculations based on 133 of the 135 variables. Two variables are excluded because their values are constant for the dataset.

Table 1.4. List of Variables With Over 5% Missing Values (19 Missing Values or More): File 1

Variable Name and Label	Number of Cases
PCTBA Percent of Building fires arson	80
PCTRA Percent of residential fires arson	95
PCTCA Percent of car fires arson	146
AARATE Residential apt.arson per 1000 rental buildings	45
PCTBF1P Percent of black families with 1 parent	276
LFPW White labor force participation	93
LFPB Black labor force participation	367
LFPWM White male labor force participation	94
LFPWF White female labor force participation	94
LFPBM Black male labor force participation	368
LFPBF Black female labor force participation	370
URW White employment rate	94
URWM White male employment rate	95
URWF White female employment rate	95
URB Black employment rate	370
URBM Black male employment rate	374
URBF Black female employment rate	384
PTBLPOVL Percent Blacks below poverty	200

Note. Much of the missing data is due to null reports and census data suppression for zip code areas with very small numbers of a given population. Documentation from the Bureau of the Census (not provided by the author) may indicate appropriate value assignments for the missing data. The variable names used here are those provided in the Codebook.

Number of Cases: 389
 Number of Variables: 135

Table 2.1. Distribution of Variables by Percentage of Out-of-Range Values: File 2

Percent of Cases with Out-of-Range Values	Distribution of Variables By Percent Out-of-Range Values	
	Number	Percent
0% (0 cases)	135	100.0%
> 0% to 100% (1 to 389 cases)	0	0.0%
Total	135	100.0%

Table 2.2. List of Variables With Out-of-Range Values: File 2

None.

Table 2.3. Distribution of Variables by Percentage of Missing Values:
File 2

Percent of Cases with Missing Values	Distribution of Variables By Percent Missing Values	
	Number	Percent
0% (0 cases)	45	33.8%
> 0% to 1% (1 case)	39	29.3%
> 1% to 3% (4 to 11 cases)	28	21.1%
> 3% to 5% (12 to 19 cases)	2	1.5%
> 5% to 10% (20 to 38 cases)	8	6.0%
> 10% to 20% (39 to 77 cases)	2	1.5%
> 20% to 40% (78 to 155 cases)	6	4.5%
> 40% to 100% (156 to 389 cases)	3	2.3%
Total	133	100.0%

Note. Calculations based on 133 of the 135 variables. Two variables are excluded because their values are constant for the dataset.

Table 2.4. List of Variables With Over 5% Missing Values (19 Missing Values or More): File 2

Variable Name and label	Number of Cases	
SAN	Single unit arson fires	245
TAN	One and two unit arson fires	187
PCTBA	Percent of Building fires arson	20
PCTRA	Percent of residential fires arson	24
PCTCA	Percent of car fires arson	22
PCTBF1P	Percent of black families with 1 parent	107
LFPW	White labor force participation	32
LFPB	Black labor force participation	140
LFPWM	White male labor force participation	34
LFPWF	White female labor force participation	32
LFPBM	Black male labor force participation	144
LFPBF	Black female labor force participation	142
URW	White employment rate	35
URWM	White male employment rate	39
URWF	White female employment rate	37
URB	Black employment rate	149
URBM	Black male employment rate	155
URBF	Black female employment rate	162
PTBLPOVL	Percent Blacks below poverty	68

Note. Much of the missing data is due to null reports and census data suppression for tracts with very small numbers of a given population. Documentation from the Bureau of the Census (not provided by the author) may indicate appropriate value assignments for the missing data. The variable names used here are those provided in the Codebook.

File 3

Number of Cases: 161
 Number of Variables: 135

Table 3.1. Distribution of Variables by Percentage of Out-of-Range Values: File 3

Distribution of Variables By

Percent of Cases with Out-of-Range Values	Percent Out-of-Range Values	
	Number	Percent
0% (0 cases)	135	100.0%
> 0% to 100% (1 to 161 cases)	0	0.0%
Total	135	100.0%

Table 3.2. List of Variables With Out-of-Range Values: File 3

None.

Table 3.3. Distribution of Variables by Percentage of Missing Values:
File 3

Percent of Cases with Missing Values	Distribution of Variables By Percent Missing Values	
	Number	Percent
0% (0 cases)	64	48.1%
> 0% to 1% (1 case)	8	6.0%
> 1% to 3% (2 to 4 cases)	38	28.6%
> 3% to 5% (5 to 8 cases)	6	4.5%
> 5% to 10% (9 to 16 cases)	1	0.8%
> 10% to 20% (17 to 32 cases)	6	4.5%
> 20% to 40% (33 to 64 cases)	8	6.0%
> 40% to 100% (65 to 161 cases)	2	1.5%
Total	133	100.0%

Note. Calculations based on 133 of the 135 variables. Two variables are excluded because their values are constant for the dataset.

Table 3.4. List of Variables With Over 5% Missing Values (19 Missing Values or More): File 3

Variable Name and Label	Number of Cases
SAN Single unit arson fires	111

TAN	One and two unit arson fires	90
SARATE	Res. arson in single-family units/1000 units	10
PCTBF1P	Percent of black families with 1 parent	56
LFPW	White labor force participation	20
LFPB	Black labor force participation	55
LFPWM	White male labor force participation	22
LFPWF	White female labor force participation	20
LFPBM	Black male labor force participation	57
LFPBF	Black female labor force participation	56
URW	White employment rate	23
URWM	White male employment rate	27
URWF	White female employment rate	25
URB	Black employment rate	59
URBM	Black male employment rate	62
URBF	Black female employment rate	64
PTBLPOVL	Percent Blacks below poverty	37

Note. Much of the missing data is due to null reports and census data suppression for tracts with very small numbers of a given population. Documentation from the Bureau of the Census (not provided by the author) may indicate appropriate value assignments for the missing data. The variable names used here are those provided in the Codebook.

U.S. Department of Justice
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ORIGINAL CODEBOOK

DATA FILE LAYOUT SPECIFICATIONS FOR
DATA SETS JU52, JU53, JU54.

The three files are similarly structured and the variables are ordered identically. The data set JU52 covers the entire state of Massachusetts and is aggregated to the zip code level. The column positions in record 1 differ in the first file from the layout for the other two files. JU53 covers the nine largest cities in Massachusetts and is aggregated to the census tract level. JU54 covers the City of Boston and is also aggregated to the census tract level. For any of the three files the file name variable "FNAME" is a constant unique to that file.

SPECIFICATIONS

Number of cases = 592 for zip code file (JU52W.DAT)
 389 for urban census tract file (JU53W.DAT)
 161 for Boston tract file (JU54W.DAT)

Format = fixed column

Number of records per observation = 17

Missing Code = -9, blank

ABREVIATIONS

Format: the format column in the code book describes the nature of the characters which are valid in a given variable field. Two format codes are used:

Aw = Alphanumeric
Fw.d = Numeric

where Aw indicates a string format in which w indicates the column width used by the a character string, and Fw.d indicates a numeric format in which w is the total number of columns used by a numeric variable and d is the number of decimal places represented within that column width.

Type: the type column describes the nature of the variable and delimits its analytic function.

I = Identifier variable useful for data management purposes
C = Continuous variable with ordinal, interval or ratio level of measurement
B = Binary variable indicating presence (1) or absence (0) of the indicated quality

Massachusetts Zip Code File (N = 592)

KEY (as per ICPSR processing) : R=Record, Cols=Columns, F=Format,
T=Type.

Variable	R	Cols	F	T	Minimum	Maximum	N	Label
FNAME	1	1- 3	A3	I			592	Zip code data file
IDN	1	5-12	F8.2	I	1001.00	12517.00	592	ID
ZIP	1	16-22	F7	I	1001.00	12517.00	592	Zip code
TRACT	1	24-31	F8.2	I	-9.00	-9.00	592	Census tract
FDID	1	33-37	A5	I			592	Fire Department ID
NPERSONS	1	39-46	F8.2	C	.00	65158.00	592	Number of persons
WTPERS	1	48-55	F8.2	C	.00	3.78	592	Population weight
BOST	1	57-64	F8.2	B	.00	1.00	592	Boston dummy
BROC	1	66-73	F8.2	B	.00	1.00	592	Brockton dummy
CAMB	2	1- 8	F8.2	B	.00	1.00	592	Cambridge dummy
FALL	2	10-17	F8.2	B	.00	1.00	592	Fall River dummy
LAWR	2	19-26	F8.2	B	.00	1.00	592	Lawrence dummy
LOWE	2	28-35	F8.2	B	.00	1.00	592	Lowell dummy
NEWB	2	37-44	F8.2	B	.00	1.00	592	New Bedford dummy
SPRI	2	46-53	F8.2	B	.00	1.00	592	Springfield dummy
WORC	2	55-62	F8.2	B	.00	1.00	592	Worcester dummy
BTN	2	64-70	F7	C	0	685	585	Structural-building fires (BF)
BAN	2	72-78	F7	C	0	252	584	Structural arson fires (BA)
RTN	3	1- 7	F7	C	0	505	585	Residential-building fires (RF)
RAN	3	9-15	F7	C	0	180	584	Residential arson fires (RA)
SAN	3	17-23	F7	C	0	25	583	Single units arson fires (SA)
TAN	3	25-31	F7	C	0	43	583	One and two unit arson fires (TA)
AAN	3	33-39	F7	C	0	143	583	Apartment arson fires (AA)
CTN	3	41-47	F7	C	0	1548	585	Car fires (CF)
CAN	3	49-55	F7	C	0	1279	584	Car arson fires (CA)
PCTBA	3	57-64	F8.2	C	.00	1.00	512	Pct of BF arson
PCTRA	3	66-73	F8.2	C	.00	1.00	497	Pct of RA arson
PCTCA	4	1- 8	F8.2	C	.00	1.00	446	Pct of CF arson
RARATE	4	10-17	F8.2	C	.00	392.16	572	RA per 1000 residen- tial buildings
SARATE	4	19-26	F8.2	C	.00	80.00	565	RA in single family units per 1000 units
TARATE	4	28-35	F8.2	C	.00	100.72	565	RA in 1 & 2 family bldgs 1000 buildings
AARATE	4	37-44	F8.2	C	.00	167.83	547	RA in apts per 1000

CARATE	4	46-53	F8.2	C	.00	400.00	571	rental buildings
PCTFAM1P	4	55-62	F8.2	C	.00	100.00	568	CA per 1000 cars
PCTWF1P	4	64-71	F8.2	C	.00	69.57	492	Pct families with 1 parent
PCTBF1P	5	1- 8	F8.2	C	.00	100.00	195	Pct white families with 1 parent
LFP	5	10-17	F8.2	C	23.40	100.00	573	Pct black families with 1 parent
LFPM	5	19-26	F8.2	C	19.37	100.00	572	Labor force participation rate
LFPF	5	28-35	F8.2	C	.00	100.00	573	Male labor force participation
LFPW	5	37-44	F8.2	C	31.22	100.00	499	Female labor force participation
LFPB	5	46-53	F8.2	C	.00	100.00	225	White labor force participation
LFPWM	5	55-62	F8.2	C	.00	100.00	498	Black labor force participation
LFPWF	5	64-71	F8.2	C	.00	100.00	498	White male labor force participation
LFPBM	6	1- 8	F8.2	C	.00	100.00	224	White female labor force participation
LFPBF	6	10-17	F8.2	C	.00	100.00	222	Black male labor force participation
PUN1T4WK	6	19-26	F8.2	C	.00	54.65	573	Black female labor force participation
PUN5T14W	6	28-35	F8.2	C	.00	53.33	573	Pct unemployed 1-4 weeks
PUN15WKS	6	37-44	F8.2	C	.00	28.95	573	Pct unemployed 5-14 weeks
UR	6	46-53	F8.2	C	.00	53.33	572	Pct unemployed 15+ weeks
URM	6	55-62	F8.2	C	.00	36.00	571	Unemployment rate
URF	6	64-71	F8.2	C	.00	100.00	571	Male unemployment rate
URW	7	1- 8	F8.2	C	.00	53.33	498	Female unemployment rate
URWM	7	10-17	F8.2	C	.00	36.00	497	White unemployment rate
URWF	7	19-26	F8.2	C	.00	100.00	497	White male unemployment rate
URB	7	28-35	F8.2	C	.00	100.00	222	White female unemployment rate
URBM	7	37-44	F8.2	C	.00	100.00	218	Black unemployment rate
URBF	7	46-53	F8.2	C	.00	100.00	208	Black male unemployment rate
NUMTHU	7	55-62	F8.2	C	.00	.00	592	Black female unemployment rate
								Total number housing units

NUMHHLDS	7	64-71	F8.2	C	.00	24387.00	592	Number households
NUMYRUN	8	1- 8	F8.2	C	.00	25177.00	592	Number yr-rnd housing units
NUMOCC	8	10-17	F8.2	C	.00	24249.00	592	Occupied housing units
NUMVAC	8	19-26	F8.2	C	.00	2004.00	592	Vacant housing units
PCTVAC	8	28-35	F8.2	C	.00	100.00	582	Pct vacant housing units
BLDGL4FL	8	37-44	F8.2	C	.00	22054.00	592	Buildings under 4 floors
BLDG4FLR	8	46-53	F8.2	C	.00	10706.00	592	Buildings 4+ floors
PCTG4FLR	8	55-62	F8.2	C	.00	98.65	572	Pct buildings 4+ floors
PCNTNKIT	8	64-71	F8.2	C	.00	33.54	572	Pct housing units without compl kitchen
PCNTNBAT	9	1- 8	F8.2	C	.00	46.15	547	Pct rental units without compl bath
PCNTNPLG	9	10-17	F8.2	C	.00	21.05	571	Pct housing units without compl plumbing
PTLPOVL	9	19-26	F8.2	C	.00	66.67	571	Pct persons below poverty
PTWLPOVL	9	28-35	F8.2	C	.00	66.67	497	Pct whites below poverty
PTBLPOVL	9	37-44	F8.2	C	.00	77.27	222	Pct blacks below poverty
TOTPPROM	9	46-53	F8.2	C	18.35	106.98	570	Persons per 100 rooms
NUMTBLDG	9	55-62	F8.2	C	.00	16021.00	582	Total number of residential buildings
NUM1BLDG	9	64-71	F8.2	C	.00	13279.00	582	Number of single unit buildings
NUM2BLDG	10	1- 8	F8.2	C	.00	14230.50	582	Number of one and two unit buildings
NUMOBLDG	10	10-17	F8.2	C	.00	15711.81	582	Occupied residential buildings
NUMVBLDG	10	19-26	F8.2	C	.00	970.43	581	Vacant residential buildings
PCTVBLDG	10	28-35	F8.2	C	.00	55.75	571	Pct vacant buildings
NUMRBLDG	10	37-44	F8.2	C	.00	4085.67	564	Number rental buildings
TOCCHU	10	46-53	F8.2	C	.00	24249.00	592	Occupied housing units
TOCCRU	10	55-62	F8.2	C	.00	18163.00	592	Occupied rental units
PCTBLT79	10	64-71	F8.2	C	.00	16.67	572	Pct yr housing units since 1979
PCTBLT75	11	1- 8	F8.2	C	.00	66.52	572	Pct yr housing units 1975-1978
PCTBLT70	11	10-17	F8.2	C	.00	88.39	572	Pct yr housing units 1970-1974
PCTBLT60	11	19-26	F8.2	C	.00	100.00	572	Pct yr housing units 1960-1969

PCTBLT50	11	28-35	F8.2	C	.00	62.30	572	Pct yr housing units 1950-1959
PCTBLT40	11	37-44	F8.2	C	.00	53.57	572	Pct yr housing units 1940-1949
PCTBLT39	11	46-53	F8.2	C	.00	94.59	572	Pct yr housing units pre 1940
AVEBLT	11	55-62	F8.2	C	5.21	44.10	572	Average age yr housing units
PCTOCC79	11	64-71	F8.2	C	.00	63.95	571	Pct units occupied since 1979
PCTOCC75	12	1- 8	F8.2	C	.00	68.62	571	Pct units occupied since 1975-1979
PCTOCC70	12	10-17	F8.2	C	.00	46.30	571	Pct units occupied since 1970-1974
PCTOCC60	12	19-26	F8.2	C	.00	60.00	571	Pct units occupied since 1960-1969
PCTOCC50	12	28-35	F8.2	C	.00	45.28	571	Pct units occupied since 1950-1959
PCTOCC49	12	37-44	F8.2	C	.00	47.83	571	Pct units occupied since pre 1940
AVEOCC	12	46-53	F8.2	C	1.87	23.00	571	Average occupancy tenure
PTEN75	12	55-62	F8.2	C	.00	100.00	571	Pct occ tenure since 1975
PCTGAS	12	64-71	F8.2	C	.00	90.58	571	Pct occupied units with gas
PCTELEC	13	1- 8	F8.2	C	.00	94.77	571	Pct occupied units with electric
PCTOIL	13	10-17	F8.2	C	.00	100.00	571	Pct occupied units with oil
NUMWCAR	13	19-26	F8.2	C	.00	21947.00	582	Number occupied units with car
PCNTWCAR	13	28-35	F8.2	C	24.48	100.00	571	Pct occupied units with car
NUMCARS	13	37-44	F8.2	C	.00	36615.00	582	Number of cars
CARSPERP	13	46-53	F8.2	C	.00	100.00	573	Cars per 100 popula- tion
VACSALE	13	55-62	F8.2	C	.00	159.00	592	Vacant housing units for sale
VACRENT	13	64-71	F8.2	C	.00	1451.00	592	Vacant housing units for rent
NUMRENTU	14	1- 8	F8.2	C	.00	18163.00	582	Number occupied rental units
PCTRENTU	14	10-17	F8.2	C	.00	100.00	571	Pct occupied units rented
PCTRNTV	14	19-26	F8.2	C	.00	57.14	565	Pct rental units vacant
PCTSALE	14	28-35	F8.2	C	.00	100.00	572	Pct owned units for sale
MDNINC	14	37-44	F8.2	C	.00	47542.00	582	Median income
AVEINC	14	46-53	F8.2	C	2445.00	60586.47	571	Mean income

NWH	14	55-62	F8.2	C	.00	61628.00	592	Number whites
NBL	14	64-71	F8.2	C	.00	26148.00	592	Number blacks
PCTWH	15	1- 8	F8.2	C	4.46	100.00	583	Pct white
PCTBL	15	10-17	F8.2	C	.00	90.52	583	Pct black
PCTSP	15	19-26	F8.2	C	.00	55.91	583	Pct spanish origin
PGT1PPRM	15	28-35	F8.2	C	.00	40.00	571	Pct units with > 1 person per room
MDNWMORT	15	37-44	F8.2	C	.00	751.00	583	Median owner monthly cost with mortgage
MDNNMORT	15	46-53	F8.2	C	.00	251.00	583	Median owner monthly cost no mortgage
MEANRENT	15	55-62	F8.2	C	1.20	502.94	548	Mean monthly rent
PCT0709	15	64-71	F8.2	C	.00	25.00	573	Pct aged 7-9
PCT1013	16	1- 8	F8.2	C	.00	14.81	573	Pct aged 10-13
PCT1415	16	10-17	F8.2	C	.00	12.57	573	Pct aged 14-15
PCT1617	16	19-26	F8.2	C	.00	12.29	573	Pct aged 16-17
PCT1819	16	28-35	F8.2	C	.00	47.40	573	Pct aged 18-19
PCT0709M	16	37-44	F8.2	C	.00	25.00	573	Pct aged 7-9 and male
PCT1013M	16	46-53	F8.2	C	.00	11.29	573	Pct aged 10-13 and male
PCT1415M	16	55-62	F8.2	C	.00	12.50	573	Pct aged 14-15 and male
PCT1617M	16	64-71	F8.2	C	.00	7.40	573	Pct aged 16-17 and male
PCT1819M	17	1- 8	F8.2	C	.00	27.49	573	Pct aged 18-19 and male
PCT1019M	17	10-17	F8.2	C	.00	27.49	573	Pct aged 10-19 male
DENSITY1	17	19-26	F8.2	C	1.17	201.74	572	Persons per building
DENSITY2	17	28-35	F8.2	C	1.00	6.00	572	Units per building

Massachusetts Urban Census Tract File (N = 389)

KEY (as per ICPSR processing) : R=Record, Cols=Columns, F=Format,
T=Type.

Variable	R	Cols	F	T	Minimum	Maximum	N	Label
FNAME	1	1- 3	A3	I			389	Census tract data file
IDN	1	5-12	F8.2	I	1.00	8026.02	389	ID
ZIP	1	14-21	F8.2	I	-9.00	-9.00	389	Zip code
TRACT	1	23-30	F8.2	I	1.00	8026.02	389	Census tract
FDID	1	32-36	A3	I			389	Fire Department ID
NPERSONS	1	38-45	F8.2	C	.00	11072.00	389	Number of persons
WTPERS	1	47-54	F8.2	C	.00	2.87	389	Population weight
BOST	1	56-63	F8.2	B	.00	1.00	389	Boston dummy
BROC	1	65-72	F8.2	B	.00	1.00	389	Brockton dummy
CAMB	2	1- 8	F8.2	B	.00	1.00	389	Cambridge dummy
FALL	2	10-17	F8.2	B	.00	1.00	389	Fall River dummy
LAWR	2	19-26	F8.2	B	.00	1.00	389	Lawrence dummy
LOWE	2	28-35	F8.2	B	.00	1.00	389	Lowell dummy
NEWB	2	37-44	F8.2	B	.00	1.00	389	New Bedford dummy
SPRI	2	46-53	F8.2	B	.00	1.00	389	Springfield dummy
WORC	2	55-62	F8.2	B	.00	1.00	389	Worcester dummy
BTN	2	64-70	F7	C	0	172	389	Structural-building fires (BF)
BAN	2	72-78	F7	C	0	50	389	Structural arson fires (BA)
RTN	3	1- 7	F7	C	0	98	387	Residential-building fires (RF)
RAN	3	9-15	F7	C	0	34	388	Residential arson fires (RA)
SAN	3	17-23	F7	C	0	7	144	Single units arson fires (SA)
TAN	3	25-31	F7	C	0	16	202	One and two unit arson fires (TA)
AAN	3	33-39	F7	C	0	31	388	Apartment arson fires (AA)
CTN	3	41-47	F7	C	0	270	389	Car fires (CF)
CAN	3	49-55	F7	C	0	248	388	Car arson fires (CA)
PCTBA	3	57-64	F8.2	C	.00	.83	369	Pct of BF arson
PCTRA	3	66-73	F8.2	C	.00	.78	365	Pct of RA arson
PCTCA	4	1- 8	F8.2	C	.00	1.00	367	Pct of CF arson
RARATE	4	10-17	F8.2	C	.00	341.46	385	RA per 1000 residen- tial buildings
SARATE	4	19-26	F8.2	C	.00	217.39	375	RA in single family units per 1000 units
TARATE	4	28-35	F8.2	C	.00	352.94	379	RA in 1 & 2 family bldgs 1000 buildings
AARATE	4	37-44	F8.2	C	.00	133.46	375	RA in apts per 1000 rental buildings

CARATE	4	46-53	F8.2	C	.00	1933.33	385	CA per 1000 cars
PCTFAM1P	4	55-62	F8.2	C	.00	100.00	383	Pct families with 1 parent
PCTWF1P	4	64-71	F8.2	C	.00	100.00	342	Pct white families with 1 parent
PCTBF1P	5	1- 8	F8.2	C	.00	100.00	204	Pct black families with 1 parent
LFP	5	10-17	F8.2	C	.00	78.94	388	Labor force participation
LFPM	5	19-26	F8.2	C	.00	100.00	388	Male labor force participation
LFPF	5	28-35	F8.2	C	.00	82.94	388	Female labor force participation
LFPW	5	37-44	F8.2	C	.00	90.49	357	White labor force participation
LFPB	5	46-53	F8.2	C	.00	100.00	249	Black labor force participation
LFPWM	5	55-62	F8.2	C	.00	100.00	355	White male labor force participation
LFPWF	5	64-71	F8.2	C	.00	100.00	357	White female labor force participation
LFPBM	6	1- 8	F8.2	C	.00	100.00	245	Black male labor force participation
LFPBF	6	10-17	F8.2	C	.00	100.00	247	Black female labor force participation
PUN1T4WK	6	19-26	F8.2	C	.00	56.33	387	Pct unemployed 1-4 weeks
PUN5T14W	6	28-35	F8.2	C	.00	100.00	387	Pct unemployed 5-14 weeks
PUN15WKS	6	37-44	F8.2	C	.00	550.00	387	Pct unemployed 15+ weeks
UR	6	46-53	F8.2	C	.00	23.72	387	Unemployment rate
URM	6	55-62	F8.2	C	.00	33.04	387	Male unemployment rate
URF	6	64-71	F8.2	C	.00	31.78	386	Female unemployment rate
URW	7	1- 8	F8.2	C	.00	54.17	354	White unemployment rate
URWM	7	10-17	F8.2	C	.00	77.42	350	White male unemployment rate
URWF	7	19-26	F8.2	C	.00	100.00	352	White female unemployment rate
URB	7	28-35	F8.2	C	.00	100.00	240	Black unemployment rate
URBM	7	37-44	F8.2	C	.00	100.00	234	Black male unemployment rate
URBF	7	46-53	F8.2	C	.00	100.00	227	Black female unemployment rate
NUMTHU	7	55-62	F8.2	C	.00	5418.00	389	Total number housing units
NUMHHLDS	7	64-71	F8.2	C	.00	5217.00	389	Number households
NUMYRUN	8	1- 8	F8.2	C	.00	5418.00	389	Number yr-rnd housing

									units
NUMOCC	8	10-17	F8.2	C	.00	5223.00	389		Occupied housing units
NUMVAC	8	19-26	F8.2	C	.00	1025.00	389		Vacant housing units
PCTVAC	8	28-35	F8.2	C	.00	75.70	386		Pct vacant housing units
BLDGL4FL	8	37-44	F8.2	C	.00	3170.00	389		Buildings under 4 floors
BLDG4FLR	8	46-53	F8.2	C	.00	4333.00	389		Buildings 4+ floors
PCTG4FLR	8	55-62	F8.2	C	.00	100.00	385		Pct buildings 4+ floors
PCNTNKIT	8	64-71	F8.2	C	.00	100.00	385		Pct housing units without compl kitchen
PCNTNBAT	9	1- 8	F8.2	C	.00	29.44	375		Pct rental units without compl bath
PCNTNPLG	9	10-17	F8.2	C	.00	26.34	385		Pct housing units without compl plumbing
PTLPOVL	9	19-26	F8.2	C	.00	66.36	387		Pct persons below poverty
PTWLPOVL	9	28-35	F8.2	C	.00	77.47	356		Pct whites below poverty
PTBLPOVL	9	37-44	F8.2	C	.00	100.00	244		Pct blacks below poverty
TOTPPROM	9	46-53	F8.2	C	21.66	89.39	385		Persons per 100 rooms
NUMTBLDG	9	55-62	F8.2	C	.00	2384.60	388		Total number or residential buildings
NUM1BLDG	9	64-71	F8.2	C	.00	2176.00	388		Number of single unit buildings
NUM2BLDG	10	1- 8	F8.2	C	.00	2298.50	388		Number of one and two unit buildings
NUMOBLDG	10	10-17	F8.2	C	.00	2337.26	388		Occupied residential buildings
NUMVBLDG	10	19-26	F8.2	C	.00	180.83	388		Vacant residential buildings
PCTVBLDG	10	28-35	F8.2	C	.00	76.73	385		Pct vacant buildings
NUMRBLDG	10	37-44	F8.2	C	.00	980.14	378		Number rental buildings
TOCCHU	10	46-53	F8.2	C	.00	5223.00	389		Occupied housing units
TOCCRU	10	55-62	F8.2	C	.00	4960.00	389		Occupied rental units
PCTBLT79	10	64-71	F8.2	C	.00	41.74	385		Pct yr housing units since 1979
PCTBLT75	11	1- 8	F8.2	C	.00	37.48	385		Pct yr housing units 1975-1978
PCTBLT70	11	10-17	F8.2	C	.00	55.89	385		Pct yr housing units 1970-1974
PCTBLT60	11	19-26	F8.2	C	.00	88.91	385		Pct yr housing units 1960-1969
PCTBLT50	11	28-35	F8.2	C	.00	83.01	385		Pct yr housing units 1950-1959
PCTBLT40	11	37-44	F8.2	C	.00	65.40	385		Pct yr housing units

PCTBLT39	11	46-53	F8.2	C	.84	99.09	385	1940-1949	Pct yr housing units pre 1940	
AVEBLT	11	55-62	F8.2	C	11.86	44.89	385	Average age yr housing units		
PCTOCC79	11	64-71	F8.2	C	3.65	69.39	385	Pct units occupied since 1979		
PCTOCC75	12	1- 8	F8.2	C	.00	70.09	385	Pct units occupied since 1975-1979		
PCTOCC70	12	10-17	F8.2	C	.00	37.61	385	Pct units occupied since 1970-1974		
PCTOCC60	12	19-26	F8.2	C	.00	52.17	385	Pct units occupied since 1960-1969		
PCTOCC50	12	28-35	F8.2	C	.00	28.90	385	Pct units occupied since 1950-1959		
PCTOCC49	12	37-44	F8.2	C	.00	35.29	385	Pct units occupied since pre 1940		
AVEOCC	12	46-53	F8.2	C	3.01	18.05	385	Average occupancy tenure		
PTEN75	12	55-62	F8.2	C	17.48	87.85	385	Pct occ tenure since 1975		
PCTGAS	12	64-71	F8.2	C	.00	89.85	385	Pct occupied units with gas		
PCTELEC	13	1- 8	F8.2	C	.00	50.19	385	Pct occupied units with electric		
PCTOIL	13	10-17	F8.2	C	5.97	100.00	385	Pct occupied units with oil		
NUMWCAR	13	19-26	F8.2	C	.00	2957.00	388	Number occupied units with car		
PCNTWCAR	13	28-35	F8.2	C	14.91	100.00	385	Pct occupied units with car		
NUMCARS	13	37-44	F8.2	C	.00	4609.75	388	Number of cars		
CARSPERP	13	46-53	F8.2	C	.00	60.42	387	Cars per 100 population		
VACSALE	13	55-62	F8.2	C	.00	92.00	389	Vacant housing units for sale		
VACRENT	13	64-71	F8.2	C	.00	904.00	389	Vacant housing units for rent		
NUMRENTU	14	1- 8	F8.2	C	.00	4960.00	388	Number occupied rental units		
PCTRENTU	14	10-17	F8.2	C	1.92	100.00	385	Pct occupied units rented		
PCTRNTV	14	19-26	F8.2	C	.00	73.98	385	Pct rental units vacant		
PCTSALE	14	28-35	F8.2	C	.00	6.96	385	Pct owned units for sale		
MDNINC	14	37-44	F8.2	C	.00	44095.00	388	Median income		
AVEINC	14	46-53	F8.2	C	6240.59	42607.95	385	Mean income		
NWH	14	55-62	F8.2	C	.00	9477.00	389	Number whites		
NBL	14	64-71	F8.2	C	.00	5415.00	389	Number blacks		
PCTWH	15	1- 8	F8.2	C	.65	100.00	388	Pct white		

PCTBL	15	10-17	F8.2	C	.00	97.24	388	Pct black
PCTSP	15	19-26	F8.2	C	.00	69.16	388	Pct spanish origin
PGT1PPRM	15	28-35	F8.2	C	.00	27.96	385	Pct units with > 1 person per room
MDNWMORT	15	37-44	F8.2	C	.00	751.00	378	Median owner monthly cost with mortgage
MDNNMORT	15	46-53	F8.2	C	.00	251.00	378	Median owner monthly cost no mortgage
MEANRENT	15	55-62	F8.2	C	71.52	421.56	384	Mean monthly rent
PCT0709	15	64-71	F8.2	C	.00	9.38	388	Pct aged 7-9
PCT1013	16	1- 8	F8.2	C	.00	15.03	388	Pct aged 10-13
PCT1415	16	10-17	F8.2	C	.00	12.81	388	Pct aged 14-15
PCT1617	16	19-26	F8.2	C	.00	20.00	388	Pct aged 16-17
PCT1819	16	28-35	F8.2	C	.00	62.91	388	Pct aged 18-19
PCT0709M	16	37-44	F8.2	C	.00	8.36	388	Pct aged 7-9 and male
PCT1013M	16	46-53	F8.2	C	.00	8.56	388	Pct aged 10-13 and male
PCT1415M	16	55-62	F8.2	C	.00	5.16	388	Pct aged 14-15 and male
PCT1617M	16	64-71	F8.2	C	.00	20.00	388	Pct aged 16-17 and male
PCT1819M	17	1- 8	F8.2	C	.00	27.26	388	Pct aged 18-19 and male
PCT1019M	17	10-17	F8.2	C	.00	27.26	388	Pct aged 10-19 male
DENSITY1	17	19-26	F8.2	C	2.48	268.04	385	Persons per building
DENSITY2	17	28-35	F8.2	C	1.00	6.00	385	Units per building

Boston Census Tract File (N = 161)

KEY (as per ICPSR processing) : R=Record, Cols=Columns, F=Format,
T=Type.

Variable	R	Cols	F	T	Minimum	Maximum	N	Label
FNAME	1	1- 3	A3	I			161	Boston data file
IDN	1	5-12	F8.2	I	1.00	1501.00	161	ID
ZIP	1	14-21	F8.2	I	-9.00	-9.00	161	Zip code
TRACT	1	23-30	F8.2	I	1.00	1501.00	161	Census tract
FDID	1	32-36	A5	I			161	Fire Department ID
NPERSONS	1	38-45	F8.2	C	300.00	11072.00	161	Number of persons
WTPERS	1	47-54	F8.2	C	.08	2.92	161	Population weight
BOST	1	56-63	F8.2	B	1.00	1.00	161	Boston dummy
BROC	1	65-72	F8.2	B	.00	.00	161	Brockton dummy
CAMB	2	1- 8	F8.2	B	.00	.00	161	Cambridge dummy
FALL	2	10-17	F8.2	B	.00	.00	161	Fall River dummy
LAWR	2	19-26	F8.2	B	.00	.00	161	Lawrence dummy
LOWE	2	28-35	F8.2	B	.00	.00	161	Lowell dummy
NEWB	2	37-44	F8.2	B	.00	.00	161	New Bedford dummy
SPRI	2	46-53	F8.2	B	.00	.00	161	Springfield dummy
WORC	2	55-62	F8.2	B	.00	.00	161	Worcester dummy
BTN	2	64-70	F7	C	5	146	161	Structural-building fires (BF)
BAN	2	72-78	F7	C	0	46	161	Structural arson fires (BA)
RTN	3	1- 7	F7	C	2	93	160	Residential-building fires (RF)
RAN	3	9-15	F7	C	0	34	161	Residential arson fires (RA)
SAN	3	17-23	F7	C	0	5	50	Single units arson fires (SA)
TAN	3	25-31	F7	C	0	7	71	One and two unit arson fires (TA)
AAN	3	33-39	F7	C	0	31	161	Apartment arson fires (AA)
CTN	3	41-47	F7	C	2	270	161	Car fires (CF)
CAN	3	49-55	F7	C	1	248	161	Car arson fires (CA)
PCTBA	3	57-64	F8.2	C	.00	.60	155	Pct of BF arson
PCTRA	3	66-73	F8.2	C	.00	.75	154	Pct of RA arson
PCTCA	4	1- 8	F8.2	C	.00	1.00	155	Pct of CF arson
RARATE	4	10-17	F8.2	C	.00	111.59	159	RA per 1000 residen- tial buildings
SARATE	4	19-26	F8.2	C	.00	217.39	151	RA in single family units per 1000 units
TARATE	4	28-35	F8.2	C	.00	70.92	155	RA in 1 & 2 family bldgs 1000 buildings
AARATE	4	37-44	F8.2	C	.00	133.46	153	RA in apts per 1000

CARATE	4	46-53	F8.2	C	1.07	1933.33	159	rental buildings
PCTFAM1P	4	55-62	F8.2	C	.00	100.00	159	CA per 1000 cars
PCTWF1P	4	64-71	F8.2	C	.00	100.00	137	Pct families with 1 parent
PCTBF1P	5	1- 8	F8.2	C	.00	100.00	85	Pct white families with 1 parent
LFP	5	10-17	F8.2	C	.00	78.94	161	Pct black families with 1 parent
LFPM	5	19-26	F8.2	C	.00	100.00	161	Labor force participation rate
LFPF	5	28-35	F8.2	C	.00	82.94	161	Male labor force participation
LFPW	5	37-44	F8.2	C	.00	90.49	141	Female labor force participation
LFPB	5	46-53	F8.2	C	.00	100.00	106	White labor force participation
LFPWM	5	55-62	F8.2	C	.00	100.00	139	Black labor force participation
LFPWF	5	64-71	F8.2	C	.00	100.00	141	White male labor force participation
LFPBM	6	1- 8	F8.2	C	.00	100.00	104	White female labor force participation
LFPBF	6	10-17	F8.2	C	.00	100.00	105	Black male labor force participation
PUN1T4WK	6	19-26	F8.2	C	.00	56.33	160	Black female labor force participation
PUN5T14W	6	28-35	F8.2	C	2.29	100.00	160	Pct unemployed 1-4 weeks
PUN15WKS	6	37-44	F8.2	C	2.26	550.00	160	Pct unemployed 5-14 weeks
UR	6	46-53	F8.2	C	.00	23.72	160	Pct unemployed 15+ weeks
URM	6	55-62	F8.2	C	.00	33.04	160	Unemployment rate
URF	6	64-71	F8.2	C	.00	18.35	159	Male unemployment rate
URW	7	1- 8	F8.2	C	.00	54.17	138	Female unemployment rate
URWM	7	10-17	F8.2	C	.00	77.42	134	White unemployment rate
URWF	7	19-26	F8.2	C	.00	100.00	136	White male unemployment rate
URB	7	28-35	F8.2	C	.00	29.17	102	White female unemployment rate
URBM	7	37-44	F8.2	C	.00	58.33	99	Black unemployment rate
URBF	7	46-53	F8.2	C	.00	100.00	97	Black male unemployment rate
NUMTHU	7	55-62	F8.2	C	.00	5418.00	161	Black female unemployment rate
								Total number housing units

NUMHHLDS	7	64-71	F8.2	C	.00	5217.00	161	Number households
NUMYRUN	8	1- 8	F8.2	C	.00	5418.00	161	Number yr-rnd housing units
NUMOCC	8	10-17	F8.2	C	.00	5223.00	161	Occupied housing units
NUMVAC	8	19-26	F8.2	C	.00	1025.00	161	Vacant housing units
PCTVAC	8	28-35	F8.2	C	.83	75.70	159	Pct vacant housing units
BLDGL4FL	8	37-44	F8.2	C	.00	2993.00	161	Buildings under 4 floors
BLDG4FLR	8	46-53	F8.2	C	.00	4333.00	161	Buildings 4+ floors
PCTG4FLR	8	55-62	F8.2	C	.00	94.21	159	Pct buildings 4+ floors
PCNTNKIT	8	64-71	F8.2	C	.00	12.72	159	Pct housing units without compl kitchen
PCNTNBAT	9	1- 8	F8.2	C	.00	28.05	153	Pct rental units without compl bath
PCNTNPLG	9	10-17	F8.2	C	.00	17.78	159	Pct housing units without compl plumbing
PTLPOVL	9	19-26	F8.2	C	1.67	54.47	160	Pct persons below poverty
PTWLPOVL	9	28-35	F8.2	C	.00	77.47	140	Pct whites below poverty
PTBLPOVL	9	37-44	F8.2	C	.00	100.00	103	Pct blacks below poverty
TOTPPROM	9	46-53	F8.2	C	21.66	84.59	159	2 Persons per 100 rooms
NUMTBLDG	9	55-62	F8.2	C	.00	2065.50	161	Total number or residential buildings
NUM1BLDG	9	64-71	F8.2	C	.00	1629.00	161	Number of single unit buildings
NUM2BLDG	10	1- 8	F8.2	C	.00	1884.50	161	Number of one and two unit buildings
NUMOBLDG	10	10-17	F8.2	C	.00	2023.31	161	Occupied residential buildings
NUMVBLDG	10	19-26	F8.2	C	.00	180.83	161	Vacant residential buildings
PCTVBLDG	10	28-35	F8.2	C	.15	76.73	159	Pct vacant buildings
NUMRBLDG	10	37-44	F8.2	C	.00	980.14	155	Number rental buildings
TOCCHU	10	46-53	F8.2	C	.00	5223.00	161	Occupied housing units
TOCCRU	10	55-62	F8.2	C	.00	4960.00	161	Occupied rental units
PCTBLT79	10	64-71	F8.2	C	.00	10.99	159	Pct yr housing units since 1979
PCTBLT75	11	1- 8	F8.2	C	.00	30.16	159	Pct yr housing units 1975-1978
PCTBLT70	11	10-17	F8.2	C	.00	36.84	159	Pct yr housing units 1970-1974
PCTBLT60	11	19-26	F8.2	C	.00	88.91	159	Pct yr housing units

PCTBLT50	11	28-35	F8.2	C	.00	83.01	159	1960-1969 Pct yr housing units 1950-1959
PCTBLT40	11	37-44	F8.2	C	.00	65.40	159	Pct yr housing units 1940-1949
PCTBLT39	11	46-53	F8.2	C	.84	99.09	159	Pct yr housing units pre 1940
AVEBLT	11	55-62	F8.2	C	15.31	44.89	159	Average age yr housing units
PCTOCC79	11	64-71	F8.2	C	4.26	65.89	159	Pct units occupied since 1979
PCTOCC75	12	1- 8	F8.2	C	13.02	70.09	159	Pct units occupied since 1975-1979
PCTOCC70	12	10-17	F8.2	C	4.43	37.61	159	Pct units occupied since 1970-1974
PCTOCC60	12	19-26	F8.2	C	.00	46.20	159	Pct units occupied since 1960-1969
PCTOCC50	12	28-35	F8.2	C	.00	22.88	159	Pct units occupied since 1950-1959
PCTOCC49	12	37-44	F8.2	C	.00	35.29	159	Pct units occupied since pre 1940
AVEOCC	12	46-53	F8.2	C	3.01	18.05	159	Average occupancy tenure
PTEN75	12	55-62	F8.2	C	20.57	87.65	159	Pct occ tenure since 1975
PCTGAS	12	64-71	F8.2	C	4.17	81.45	159	Pct occupied units with gas
PCTELEC	13	1- 8	F8.2	C	.00	46.25	159	Pct occupied units with electric
PCTOIL	13	10-17	F8.2	C	5.97	85.21	159	Pct occupied units with oil
NUMWCAR	13	19-26	F8.2	C	.00	2957.00	161	Number occupied units with car
PCNTWCAR	13	28-35	F8.2	C	19.23	92.24	159	Pct occupied units with car
NUMCARS	13	37-44	F8.2	C	.00	3749.50	161	Number of cars
CARSPERP	13	46-53	F8.2	C	.00	52.09	161	Cars per 100 popula- tion
VACSALE	13	55-62	F8.2	C	.00	92.00	161	Vacant housing units for sale
VACRENT	13	64-71	F8.2	C	.00	904.00	161	Vacant housing units for rent
NUMRENTU	14	1- 8	F8.2	C	.00	4960.00	161	Number occupied rental units
PCTRENTU	14	10-17	F8.2	C	7.45	100.00	159	Pct occupied units rented
PCTRNTV	14	19-26	F8.2	C	.00	73.98	159	Pct rental units vacant
PCTSALE	14	28-35	F8.2	C	.00	6.96	159	Pct owned units for sale
MDNINC	14	37-44	F8.2	C	.00	23227.00	161	Median income

AVEINC	14	46-53	F8.2	C	6985.07	30840.78	159	Mean income
NWH	14	55-62	F8.2	C	17.00	9477.00	161	Number whites
NBL	14	64-71	F8.2	C	.00	5415.00	161	Number blacks
PCTWH	15	1- 8	F8.2	C	.65	100.00	161	Pct white
PCTBL	15	10-17	F8.2	C	.00	97.24	161	Pct black
PCTSP	15	19-26	F8.2	C	.00	64.66	161	Pct spanish origin
PGT1PPRM	15	28-35	F8.2	C	.00	27.96	159	Pct units with > 1 person per room
MDNWMORT	15	37-44	F8.2	C	.00	751.00	155	Median owner monthly cost with mortgage
MDNNMORT	15	46-53	F8.2	C	.00	251.00	155	Median owner monthly cost no mortgage
MEANRENT	15	55-62	F8.2	C	71.52	421.56	159	Mean monthly rent
PCT0709	15	64-71	F8.2	C	.00	9.19	161	Pct aged 7-9
PCT1013	16	1- 8	F8.2	C	.00	15.03	161	Pct aged 10-13
PCT1415	16	10-17	F8.2	C	.00	12.81	161	Pct aged 14-15
PCT1617	16	19-26	F8.2	C	.00	20.00	161	Pct aged 16-17
PCT1819	16	28-35	F8.2	C	.00	52.97	161	Pct aged 18-19
PCT0709M	16	37-44	F8.2	C	.00	8.36	161	Pct aged 7-9 and male
PCT1013M	16	46-53	F8.2	C	.00	8.56	161	Pct aged 10-13 and male
PCT1415M	16	55-62	F8.2	C	.00	5.16	161	Pct aged 14-15 and male
PCT1617M	16	64-71	F8.2	C	.00	20.00	161	Pct aged 16-17 and male
PCT1819M	17	1- 8	F8.2	C	.00	24.73	161	Pct aged 18-19 and male
PCT1019M	17	10-17	F8.2	C	1.34	25.77	161	Pct aged 10-19 male
DENSITY1	17	19-26	F8.2	C	2.69	39.59	159	Persons per building
DENSITY2	17	28-35	F8.2	C	1.07	6.00	159	Units per building

Additional Clarification of Arson Variable Definitions

NPERSONS	This population count can be zero (not often, however).
PCTBA	This is BAN over BTN, the percentage of total building fires that is arson. Thus, base is the total number of building fires.
PCTRA	This is RAN over RTN, the percentage of total residential fires that is arson. Thus, base is the total number of residential fires.
PCTCA	This is CAN over CTN, the percentage of total vehicular fires that is arson. Thus, base is the total number of vehicular fires.
LFP	The Census Bureau definition of labor force participation is the number of employed and unemployed persons aged 16 and over divided by the number of persons aged 16 and over.
NUMTHU	In the data set/ year-round units (NUMYRUN), that is non-seasonal units were used for defining various housing characteristics.
PCTBLT	These variables constitute a percentage distribution of the age of housing. Thus, for example, PCTBLT60, represents the percentage of year-round housing units built between 1960 and 1969.
PCTOCC	These variables constitute a percentage distribution of housing tenure for occupied housing units. That is, how long the current residents of an occupied housing unit have lived there. Thus for example PCTOCC60, represents the percentage of year-round housing units having been occupied since 1960-1969 by current occupants.
AVEOCC	Average length of occupancy (in years) of current occupants of occupied housing units.
PTEN75	$PCTOCC75 + PCTOCC79$.
NUMCARS	This can be zero.
AVEINC	Excludes non-populated areas.
MEANRENT	Monthly mean rent.