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Part F

Energy-Related Housing Characteristics

United States and Regions

Annual Housing Survey: 1980

Issued March 1983

U.S. Department of Commerce

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Preface and Acknowledgments

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This report presents data from the Annual Housing Survey, which was sponsored by the U.S. Department of Housing and Urban Development and conducted by the U.S. Bureau of the Census. It was prepared primarily under the direction of Duane T. McGough, Director, Housing and Demographic Analysis Division, Department of Housing and Urban Development, and Arthur F. Young, Chief, Housing Division, Bureau of the Census.

Duane T. McGough, assisted by Paul Burke, Connie Casey, and Kathryn Nelson was responsible for overseeing the Annual Housing Survey and the resultant report on behalf of the Department of Housing and Urban Development.

Within the Bureau of the Census, this report was developed in the Housing Division. It was prepared under the supervision of Leonard J. Norry, Assistant Division Chief, by Edward D. Montfort, Chief, Current Surveys Branch, assisted by Paul P. Harple, Jr., and Jane S. Maynard. Specific activities related to data collection procedures, statistical presentation, organization of the report, and preparation of text materials were performed by Edward Cary Bean, Jr., Walter L. Busse, Mary C. Carroll, Donald Evans, Wallace Fraser, Sheryl H. Furman, Stu Kaufman, Vonda Kiplinger, Richard Kreinsen, Ruby Lewis, Gregg Lindner, Watson Pryor, Stanley J. Rolark, Josephine Ruffin, Georgina Torres, Barbara Williams, Elizabeth Williams, and Jeanne M. Woodward. Important contributions were made by Elmo E. Beach in the planning and coordination of the survey.

The operational aspects of the Annual Housing Survey were coordinated by the Demographic Surveys Division under the direction of Marvin M. Thompson, Chief, by Edward F. Knowles, Assistant Division Chief, and John C. Cannon, assisted by Maria A. Mochulski and Helen S. Montagliani. Systems and processing procedures were performed under the direction of Barry M. Cohen, Assistant Division Chief. The computer programming and processing were performed under the supervision of D. Richard Bartlett, assisted by Peggy Goldsmith, Richard Jaronski, Caroline S. Irwin, Denise Dickerson, and James Dallmann. Angel Marshall, assisted by Larry Beasley, Robert Smith, Jr., Patricia Lauria, and David Montgomery, was responsible for the clerical and keying procedures.

The planning of the sample design, weighting, and computation of sampling variances and standard errors was developed in the Statistical Methods Division, under the supervision of Charles Jones, Chief, and Gary Shapiro, Assistant Division Chief, by Dennis Schwanz, Donald Luery, and Austin Lin. The implementation of the sample selection and computation of sampling variances was performed under the supervision of Robert T. O'Reagan, Assistant Division Chief, by Leonard Baer, Pat Wilson, Florence Abramson, David Diskin, Christine Jorgensen, William Taylor, Robert Jewett, George Train, and Juanita Jones (Data Preparation Division, Jeffersonville, Ind.). The preparation of field sample control and reinterview procedures was performed under the supervision of Robert T. O'Reagan, by John Paletta and Fay Nash. Reinterview design and analysis were conducted under the supervision of Irwin Schreiner, by Dorcas Graham and Phillip Sanchez.

Data collection activities were administered by the Field Division under the supervision of Lawrence T. Love, Acting Chief, by George T. Reiner, Assistant Division Chief, Howard C. Beattie, and William J. Phalen, as well as the directors of the Bureau's regional offices.

Within the Publication Services Division, many individuals made significant contributions in the areas of publication planning and design, editorial review, composition, and printing procurement.

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B	Indicators of Housing and Neighborhood Quality by Financial Characteristics for the United States and Regions: 1980
C	Financial Characteristics of the Housing Inventory for the United States and Regions: 1980
D	Housing Characteristics of Recent Movers for the United States and Regions: 1980
E	Urban and Rural Housing Characteristics for the United States and Regions: 1980
F	Energy-Related Housing Characteristics for the United States and Regions: 1980

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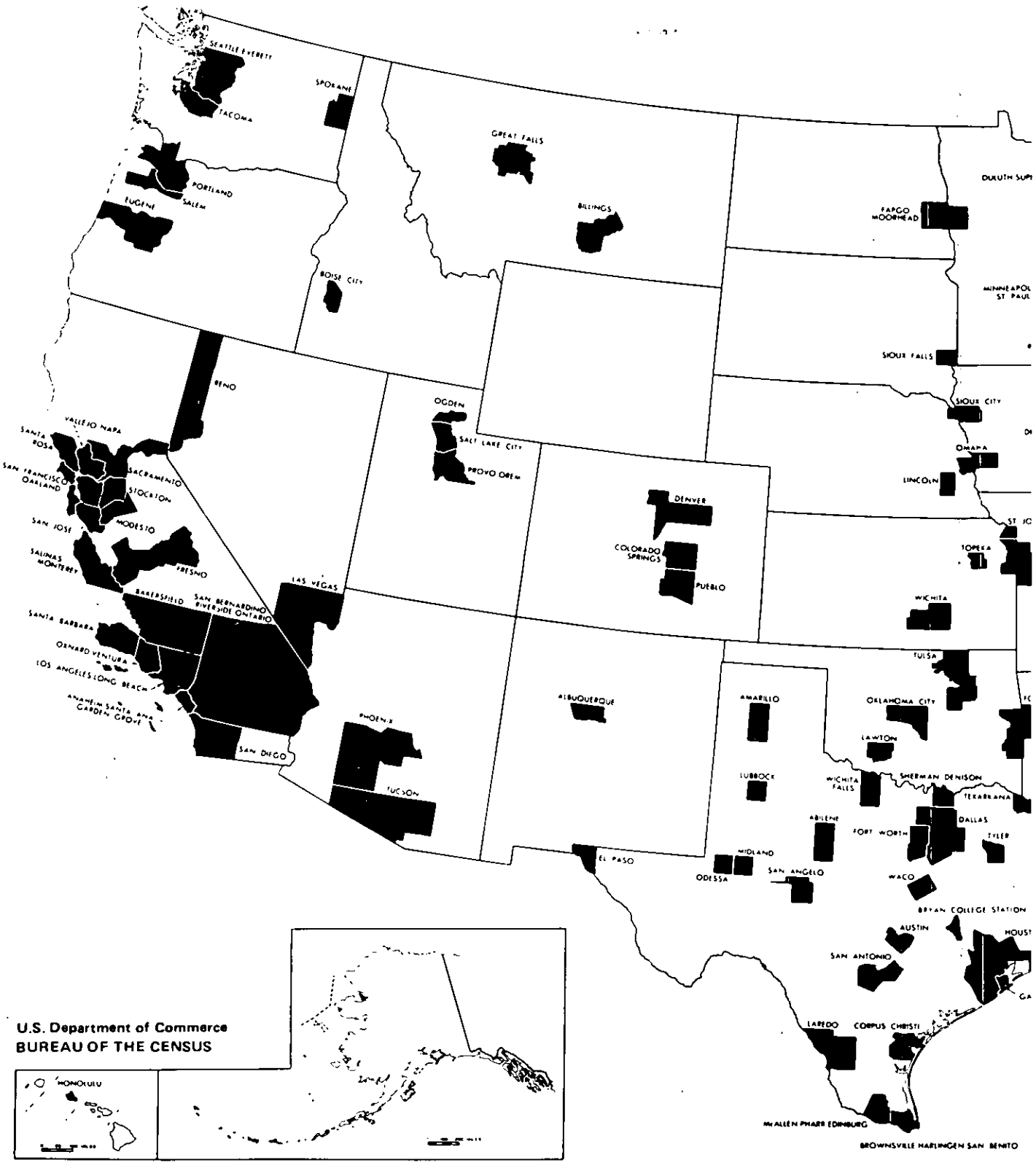

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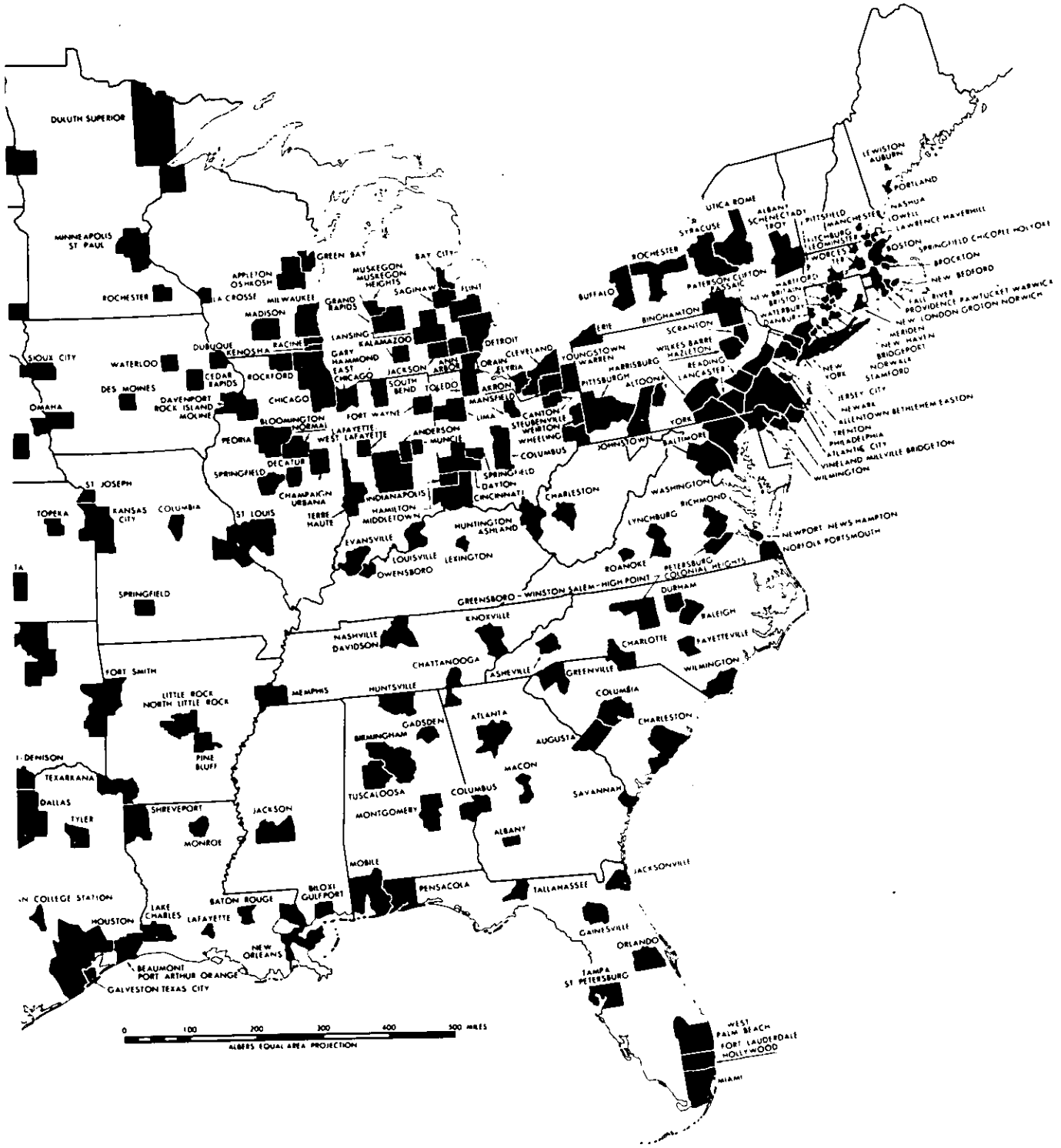
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ROCHESTER
APPLETON OSHKOSH
GREEN BAY
MUSKEGON MUSKEGON HEIGHTS
BAY CITY
SAGINAW
FLINT
LA CROSSE
MILWAUKEE
GRAND RAPIDS
MADISON
LANSING
KALAMAZOO
DETROIT
DUBUQUE
KENOSHA
RACINE
GARY HAMMOND EAST CHICAGO
JACKSON
ANN ARBOR
SIOUX CITY
WATERLOO
CEDAR RAPIDS
ROCKFORD
SOUTH BEND
TOLEDO
ERIE
CLEVELAND LORAIN ELYRIA
AKRON
AKRON
DES MOINES
DAVENPORT ROCK ISLAND MOLINE
CHICAGO
MANSFIELD
OMAHA
BLOOMINGTON NORMAL
FORT WAYNE
LIMA
CANTON STEUBENVILLE WEIRTON WHEELING
PEORIA
LAFAYETTE WEST LAFAYETTE
ANDERSON MUNCIE
DECATUR
SPRINGFIELD
COLUMBUS
ST JOSEPH
CHAMPAIGN URBANA
SPRINGFIELD DAYTON CINCINNATI
TOPEKA
KANSAS CITY
COLUMBIA
ST LOUIS
TERRE HAUTE
INDIANAPOLIS
HAMILTON MIDDLETOWN
EVANSVILLE
HUNTINGTON ASHLAND
LOUISVILLE
LEXINGTON
OWENSBORO
SPRINGFIELD
GREENSBORO - WINSTON SALEM - HIGH POINT
KNOXVILLE
NASHVILLE DAVIDSON
CHATTANOOGA
FORT SMITH
LITTLE ROCK NORTH LITTLE ROCK
MEMPHIS
HUNTSVILLE
GADSDEN
BIRMINGHAM
ATLANTA
PINE BLUFF
TEXARKANA
TUSCALOOSA
COLUMBUS
MACON
DALLAS
TYLER
SHREVEPORT
JACKSON
MONTGOMERY
ALBANY
MONROE
MOBILE
PENSACOLA
TALLAHASSEE
BATON ROUGE
BILOXI GULFPORT
LAKE CHARLES
LAFAYETTE
HOUSTON
NEW ORLEANS
BEAUMONT PORT ARTHUR ORANGE
GALVESTON TEXAS CITY
GAINESVILLE
ORLANDO
TAMPA ST PETERSBURG
JACKSONVILLE
WEST PALM BEACH
FORT LAUDERDALE HOLLYWOOD
MIAMI
CHARLESTON
AUGUSTA
SAVANNAH
COLUMBIA
GREENVILLE
ASHEVILLE
CHARLOTTE
FAYETTEVILLE
WILMINGTON
RALEIGH
DURHAM
ROANOKE
PETERSBURG COLONIAL HEIGHTS
LYNCHBURG
RICHMOND
NEWPORT NEWS HAMPTON
NORFOLK PORTSMOUTH
WASHINGTON
BALTIMORE
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PITTSBURGH
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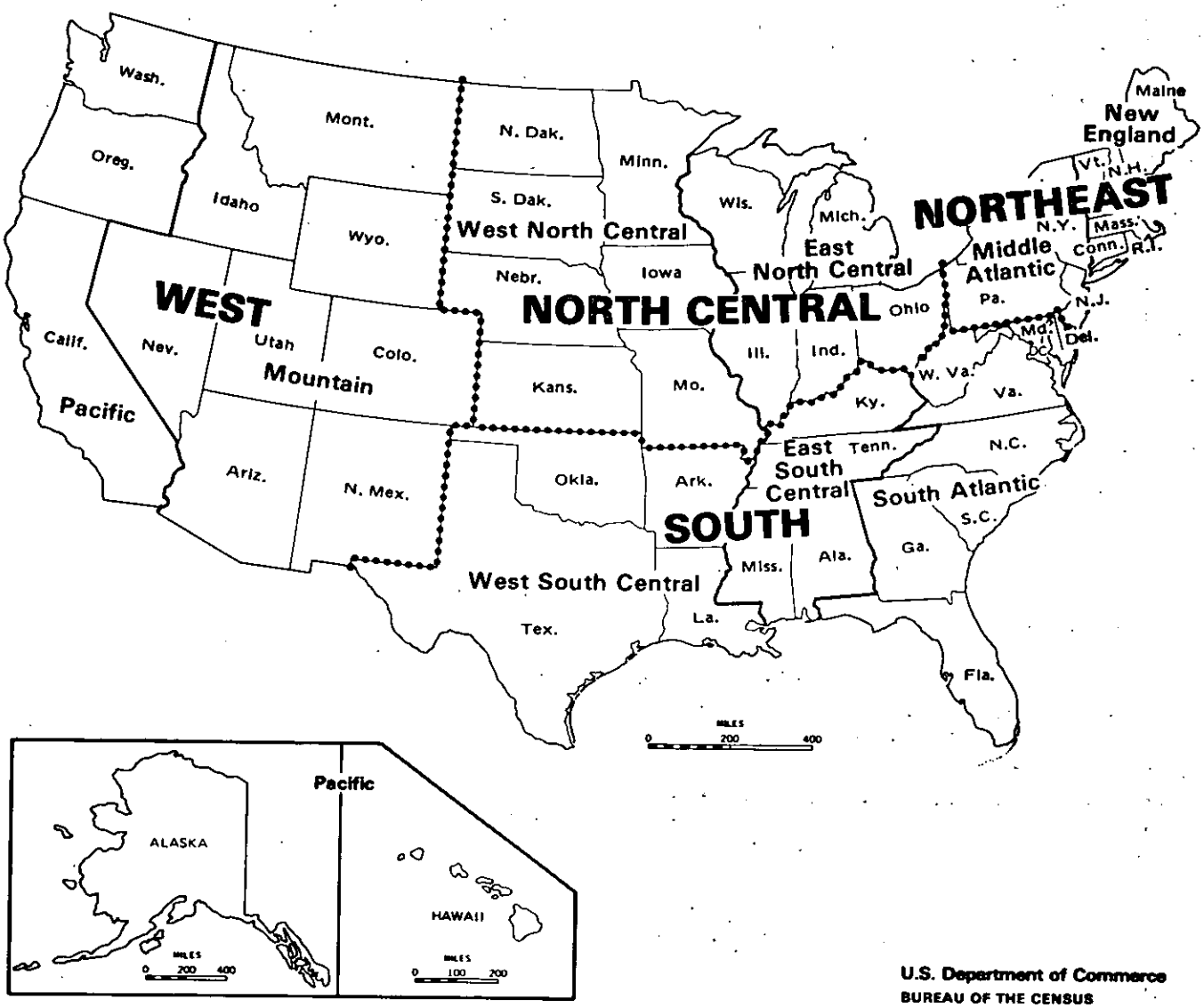
JERSEY CITY
NEWARK
ALLENTOWN BETHLEHEM EASTON
TRENTON
PHILADELPHIA
ATLANTIC CITY
VINELAND MILLVILLE BRIDGETON
WILMINGTON
PATERSON CLIFTON PASSAIC
NEW BRITAIN BRISTOL WATERBURY DANBURY
HARTFORD
MANCHESTER
PITTSFIELD
FITCHBURG LEOMINSTER
WORCESTER
LEWISTON AUBURN
PORTLAND
NASHUA
LOWELL
LAWRENCE HAVERHILL
BOSTON
SPRINGFIELD CHICOPEE HOLYOKE
BROCKTON
NEW BEDFORD
FALL RIVER
PROVIDENCE PAWTUCKET WARWICK
NEW LONDON GROTON NORWICH
MERIDEN
NEW HAVEN
BRIDGEPORT
NORWALK
STAMFORD
0 100 200 300 400 500 MILES
ALBERS EQUAL AREA PROJECTION

Regions and Geographic Divisions of the United States



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GENERAL

This report presents statistics on energy-related housing characteristics from the 1980 Annual Housing Survey for the United States by inside and outside standard metropolitan statistical areas (SMSA's) and each of the four geographic regions.

The Annual Housing Survey was designed to provide a current series of information on the size and composition of the housing inventory, the characteristics of its occupants, the changes in the inventory resulting from new construction and from losses, the indicators of housing and neighborhood quality, the characteristics of recent movers, and the characteristics of urban and rural housing units. The survey, performed for the Department of Housing and Urban Development, is authorized under sections 501 and 502(d), 502(e), and 502(f) of the Housing and Urban Development Act of 1970, Title 12, United States Code 1701z-1 and 1701z-2. The Bureau of the Census is authorized under Title 31, United States Code 686, to perform special work or services for Federal agencies.

The statistics presented in this report are based on information from a sample of housing units. The information for the survey was collected by personal interview from mid-August 1980 through December 1980.

This report series consists of six basic parts (see list on page III) issued jointly by the Department of Housing and Urban Development and the Bureau of the Census. Part A provides data on general housing characteristics, part B on indicators of housing and neighborhood quality cross-classified by financial characteristics, part C on financial characteristics, part D on recent mover households, part E on urban and rural housing characteristics, and part F on energy-related housing characteristics.

The content and procedures of the Annual Housing Survey were determined after consultation with a variety of users of housing data and through field pretesting. A large portion of the subjects covered in this report are the same as those collected in the 1970 Census of Housing; in general, these data are comparable to those shown in the 1970 census reports. In addition, a number of new items were introduced in this survey on subjects such as distance and travel time from home to work for the householder, storm windows and doors, insulation, breakdowns or failures in equipment, the physical condition of the structure, and the neighborhood conditions and services.

More detailed information on the technical and procedural matters covered in the text of this report can be obtained by writing to the Director, Bureau of the Census, Washington, D.C. 20233.

Organization of the text—The text consists of this introduction and appendixes A and B, which appear after the data tables. Appendix A describes the geographic area classifications, provides definitions and explanations of the subjects covered in this report, and contains a facsimile of the questionnaire. Appendix B presents information on sample design, estimation, and accuracy of the data.

Content of the tables—A series of standard tables presents simple distributions and cross-tabulations of the data for occupied housing units for each area shown in this report. The finding guide (following appendix B) lists the characteristics covered in this report and shows the tables in which the various types of statistics appear. The numbers presented in these tables are rounded to the nearest thousand. Table 1 presents characteristics for the United States by inside SMSA's, in/not in central cities, and outside SMSA's; table 2, characteristics for owner- and renter-occupied housing units by income of the

family or primary individual; table 3, characteristics for owner-occupied, one-unit structures by value of property; table 4, characteristics for renter-occupied housing units by gross rent; table 5, characteristics by housing units in structure; table 6, characteristics by number of rooms per housing unit; table 7, characteristics by the year the structure was built; table 8, characteristics by the monthly cost paid for electricity; table 9, characteristics by the monthly cost paid for gas; table 10, characteristics by the yearly cost paid for fuel oil, kerosene, coal, wood, etc.; table 11, the householder's principal means of transportation to work by distance and travel time to work.

The prefix letter "A" has been assigned to the tables for the United States as a whole, "B" to the Northeast Region, "C" to the North Central Region, "D" to the South Region, and "E" to the West Region.

Sample size—The statistics presented in this report are based on a sample of housing units and are, therefore, subject to sampling variability. The designated sample consisted of approximately 80,000 housing units located throughout the United States. The sample was selected from units enumerated in the 1970 census and updated to include units constructed since 1970. Detailed information on the sample design, size of sample, estimation procedure, and sampling variability associated with these data is given in appendix B.

Derived figures (medians, etc.)—Shown in this report are medians, means, and ratios. The median, which is a type of average, is the middle value in a distribution; i.e., the median divides the distribution into two equal parts—one-half the cases fall below the median and one-half the cases exceed the median. Derived figures are not presented (but indicated by three dots . . .) if there are less than 25 sample cases in the distribution or the base.

Medians for rooms and persons are rounded to the nearest tenth, for value and income to the nearest hundred dollars, and for rent and fuel costs to the nearest dollar. Travel time is rounded to the nearest minute, and distance from home to work is rounded to the nearest tenth of a mile. In computing medians for rooms and persons per housing unit, the whole number is used as the midpoint of the interval; for example, the category "4 rooms" is treated as an interval ranging from 3.5 up to 4.5 rooms. In computing median rent, units reported as "no cash rent" are excluded. The medians are generally computed on the basis of the distribution as shown in this report.

When the median falls in the lower terminal category of an open-ended distribution, the method of presentation is to show the initial value of the next category followed by a minus sign; for example, if the median falls in the category "Less than $3,000," it is shown as "$3,000–." When the median falls in the upper terminal category of an open-ended distribution, the method of presentation is to show the initial value of the terminal category followed by a plus sign; e.g., if the median falls in the category "$75,000 or more," it is shown as "$75,000+."

The medians and percents for 1980 are generally computed on the basis of the distributions as shown in the tables. As a result a median or percent for the same characteristic and universe may vary somewhat between tables. The medians and percents shown for 1970 are computed on the basis of distributions as tabulated in 1970, which are sometimes more detailed than the distributions shown in this report.

Symbols—A dash (—) signifies zero. Three dots (. . .) in a data column mean not applicable or that the base of a derived figure is too small for it to be shown.

Boundaries—The data shown in this report relate to the areas as defined for the 1970 census. See appendix A for a discussion of these areas. Additional information and definitions of the 1970 boundaries are given in the 1970 Population Census PC(1)-A reports.

Other reports from the Annual Housing Survey—In addition to the six basic reports in the Annual Housing Survey Series H-150, one or more supplementary reports (Series H-151) may be published for the United States.

A series of reports (H-170) similar to H-150 has been published for 60 selected SMSA's. Data for the SMSA's are based on an independent sample of the 60 SMSA's originally divided into groups of approximately 20 each, with a group interviewed every year on a rotating basis. These SMSA's are no longer surveyed according to the original groups. A listing of the SMSA's by the original groups is included in this introduction. The years for which reports are currently available for individual SMSA's are provided in this listing.

ADDITIONAL DATA

Unpublished tabulations—A large number of tabulations, not included in the Annual Housing Survey published reports, have been prepared to meet special needs of both national (Series H-150 and H-151) and SMSA (Series H-170 and H-171) data users. These unpublished data are available in two forms. Paper photocopies are available for specific tables at the cost of reproduction. Microfiche copies of these unpublished data are also available. An index to the data available can be obtained free of charge. The unpublished index or data may be obtained by contacting the Housing Division, Bureau of the Census, Washington, D.C. 20233.

Public-use computer tapes—For the data users whose needs are not met by available tabulations, the Census Bureau also has available computerized microdata computer tapes (with individual respondent records) from both the SMSA and national samples. Except for names and addresses, the Annual Housing Survey microdata provide essentially all the information obtained from each occupied or vacant housing unit. The Census Bureau's confidentiality guidelines prescribe that individuals and specific addresses remain anonymous.

Confidentiality guidelines further prescribe that individual records cannot be associated with areas having fewer than 250,000 people based on 1970 census results. The national tapes identify the four census regions, each SMSA of 250,000 or

more population (central cities are also identified where possible), metropolitan/nonmetropolitan location, and urban/rural location. The SMSA tapes contain data from all SMSA samples except Saginaw, Mich., which contained less than the 250,000 required 1970 population. Central cities are identified for 42 of the 59 SMSA's.

Microdata computer tapes from the Annual Housing Survey are available on a cost-per-reel basis from the Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233.

Microfiche of published reports—Microfiche copies of national and SMSA published reports are available from Data User Services Division, Customer Services (Microfiche), Bureau of the Census, Washington, D.C. 20233.

DATA COLLECTION PROCEDURES

The 1980 Annual Housing Survey was conducted by interviewers who made personal visits to each sample unit and obtained the information from the occupants or, if the unit was vacant, from informed persons (landlords, rental agents, or knowledgeable neighbors). The information reported by the interviewer reflected the situation at the time of the survey, which began in mid-August 1980 and extended through December 1980.

Data were collected for sample housing units located in the counties and independent cities that make up the 461 sample areas used in current surveys of the Census Bureau. A sample of housing units was selected in these areas from the 1970 census and updated by a sample of addresses from building permits to include housing units added since 1970. Estimates of the counts and characteristics of the 1980 inventory were obtained for these sample units.

A more detailed description of the survey design and sampling procedures can be found in appendix B.

PROCESSING PROCEDURES

The questionnaires used for the 1980 Annual Housing Survey were of the conventional type on which the interviewer recorded the information by marking a precoded check box or

List of SMSA Reports From the Annual Housing Survey by Original Publication Groups

Group A	Years for which reports are published 19–	Group B	Years for which reports are published 19–	Group C	Years for which reports are published 19–
Albany-Schenectady-Troy, N.Y.	74, 77	Atlanta, Ga.	75, 78	Allentown-Bethlehem-Easton, Pa.-N.J.	76
Anaheim-Santa Ana-Garden Grove, Calif.	74, 77	Chicago, Ill.	75	Baltimore, Md.	76
Boston, Mass.	74, 77	Cincinnati, Ohio-Ky.-Ind.	75, 78	Birmingham, Ala.	76
Dallas, Tex.	74, 77	Colorado Springs, Colo.	75, 78	Buffalo, N.Y.	76
Detroit, Mich.	74, 77	Columbus, Ohio	75, 78	Cleveland, Ohio	76
Fort Worth, Tex.	74, 77	Hartford, Conn.	75	Denver, Colo.	76
Los Angeles-Long Beach, Calif.	74, 77	Kansas City, Mo.-Kans.	75, 78	Grand Rapids, Mich.	76
Madison, Wis.*	75, 77	Miami, Fla.	75	Honolulu, Hawaii	76
Memphis, Tenn.-Ark.	74, 77	Milwaukee, Wis.	75	Houston, Tex.	76
Minneapolis-St. Paul, Minn.	74, 77	New Orleans, La.	75, 78	Indianapolis, Ind.	76
Newark, N.J.	74, 77	Newport News-Hampton, Va.	75, 78	Las Vegas, Nev.	76
Orlando, Fla.	74, 77	Paterson-Clifton-Passaic, N.J.	75, 78	Louisville, Ky.-Ind.	76
Phoenix, Ariz.	74, 77	Philadelphia, Pa.-N.J.	75, 78	New York, N.Y.	76
Pittsburgh, Pa.	74, 77	Portland, Oreg.-Wash.	75	Oklahoma City, Okla.	76
Saginaw, Mich.	74, 77	Rochester, N.Y.	75, 78	Omaha, Nebr.-Iowa	76
Salt Lake City, Utah	74, 77	San Antonio, Tex.	75, 78	Providence-Pawtucket-Warwick, R.I.-Mass.	76
Spokane, Wash.	74, 77	San Bernardino-Riverside-Ontario, Calif.	75, 78	Raleigh, N.C.	76
Tacoma, Wash.	74, 77	San Diego, Calif.	75, 78	Sacramento, Calif.	76
Washington, D.C.-Md.-Va.	74, 77	San Francisco-Oakland, Calif.	75, 78	St. Louis, Mo.-Ill.	76
Wichita, Kans.	74, 77	Springfield-Chicopee-Holyoke, Mass.-Conn.	75, 78	Seattle-Everett, Wash.	76

*Included with Group B for the first interview.

by writing in the entries. Census clerks edited and coded the questionnaires. The information from the questionnaires was data keyed directly to magnetic tape which was processed on the Census Bureau's computers through a number of editing and tabulating steps. A facsimile of the questionnaire appears in appendix A.

QUALIFICATIONS OF THE DATA

Since the estimates in this report are based on a sample, they may differ somewhat from the figures that would have been obtained from a complete census, using the same questionnaires, instructions, and interviewers. Particular care should be exercised, therefore, in the interpretation of figures based on relatively small numbers of sample cases as well as small differences between figures. As in any survey work, the results are subject to errors of response and nonreporting and to sampling variability. For a further discussion of accuracy of the data, see appendix B.

The concepts and definitions of most of the items in this report are essentially the same as those used for the 1970 census. The SMSA boundaries are the same as those in the 1970 census. For historical comparisons and boundary changes, refer to the census reports of 1960 and earlier.

In making comparisons between the 1980 survey and 1970 Census of Housing results, differences in the data may reflect such factors as the use of direct interview for 1980 contrasted with the extensive use of self-enumeration in 1970, the sample design, the estimation procedure used, the sampling variability of the estimates, and the processing procedures. See the section on "comparability with 1970 Census of Housing data" in appendix A for further discussion.

In addition, according to the 1970 Census Evaluation and Research Program, the 1970 count of 68.7 million housing units is understated by approximately 1.5 million units which were missed in the 1970 census. See the section on "Estimates of Change in the Inventory" in the Summary of Findings, Series H-150-73A, *General Housing Characteristics,* and Series PHC(E)-5, the *Coverage of Housing in the 1970 Census,* for further discussion.

Statistics on value, rent, and income for both 1970 and 1980 are measured in current dollars (the value at the time the data were collected). Therefore, a significant part of the increase between 1970 and 1980 reflects the 118.3 percent rise in the cost of living during the 10½ year period, as measured by the Consumer Price Index, as well as changes in the housing inventory.

In this report, statistics on income relate to the income of the family or primary individual. Therefore, no data are provided on household income; i.e., income of persons unrelated to the householder is excluded.

Statistics for some of the characteristics shown in this report are based on restricted universes and, therefore, care should be exercised in relating the statistics for one characteristic to another. For example, value is restricted to owner-occupied, one-unit structures on less than 10 acres having no business on the property, and gross rent is restricted to renter-occupied units excluding one-unit structures on 10 acres or more. Therefore, the totals for owner-occupied units in the "value" universe and for renter-occupied units in the "gross rent" universe do not agree with the totals for some of the income universes.

Care should be exercised in the interpretation of differences in the estimated counts of Spanish-origin households between 1970 and 1980. Research indicates that 1970 estimates of Spanish-origin households may be significantly overstated in the South Region and North Central Region. Apparently some respondents in the 1970 census misinterpreted the Spanish-origin category "Central or South American" to mean the central or southern part of the United States. The method of data collection used in the Annual Housing Survey; i.e., personal interviews conducted by trained interviewers, would tend to prevent the reoccurrence of this 1970 census classification error. In addition, differences between the two sets of data may reflect factors such as the sampling variability of both the 1970 estimates from the 5-percent census sample and the 1980 estimates from the Annual Housing Survey sample, as well as the estimation and processing procedures used.

See appendix A for a more detailed discussion of the definitions and qualifications of all items in this report.

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	80 072	54 550	23 832	30 718	25 522
HOUSE HEATING FUEL					
OWNER OCCUPIED	52 516	33 586	11 804	21 782	18 930
UTILITY GAS	29 608	21 667	8 682	12 985	7 941
BOTTLED, TANK, OR LP GAS	3 239	805	58	747	2 434
FUEL OIL	9 274	5 932	1 684	4 248	3 341
KEROSENE, ETC	261	82	26	56	179
ELECTRICITY	8 671	4 609	1 222	3 387	4 062
COAL OR COKE	228	95	21	74	133
WOOD	983	187	24	163	795
SOLAR HEAT	10	6	-	6	4
OTHER FUEL	18	6	3	2	12
NONE	225	198	83	114	28
RENTER OCCUPIED	27 556	20 964	12 027	8 936	6 592
UTILITY GAS	14 790	11 726	6 891	4 835	3 063
BOTTLED, TANK, OR LP GAS	931	236	48	190	693
FUEL OIL	5 226	4 229	2 672	1 557	997
KEROSENE, ETC	108	34	8	26	74
ELECTRICITY	5 536	4 196	2 154	2 041	1 340
COAL OR COKE	100	41	11	30	59
WOOD	394	85	12	74	308
SOLAR HEAT	3	1	-	1	2
OTHER FUEL	79	70	63	6	10
NONE	388	343	167	176	45
WATER HEATING FUEL[1]					
OWNER OCCUPIED	51 770	33 412	11 781	21 631	18 358
UTILITY GAS	27 696	21 479	8 910	12 569	6 217
BOTTLED, TANK, OR LP GAS	2 443	660	46	613	1 783
FUEL OIL	3 284	2 477	698	1 780	807
KEROSENE, ETC	22	10	-	10	12
ELECTRICITY	18 078	8 681	2 102	6 580	9 397
COAL OR COKE	29	13	3	9	16
WOOD	60	17	2	15	44
SOLAR HEAT	52	36	8	27	17
OTHER FUEL	14	8	3	5	6
NONE	90	31	9	22	60
RENTER OCCUPIED	26 907	20 779	11 969	8 810	6 127
UTILITY GAS	14 783	12 248	7 307	4 940	2 535
BOTTLED, TANK, OR LP GAS	661	196	31	166	465
FUEL OIL	3 114	2 849	1 994	854	265
KEROSENE, ETC	6	3	2	1	3
ELECTRICITY	8 140	5 346	2 545	2 801	2 793
COAL OR COKE	17	15	8	7	2
WOOD	6	1	-	1	4
SOLAR HEAT	15	5	3	1	10
OTHER FUEL	49	46	36	10	3
NONE	115	71	42	28	44
COOKING FUEL					
OWNER OCCUPIED	52 516	33 586	11 804	21 782	18 930
UTILITY GAS	18 452	14 350	6 491	7 859	4 102
BOTTLED, TANK, OR LP GAS	3 899	1 169	100	1 069	2 730
FUEL OIL	55	43	23	20	12
KEROSENE, ETC	9	4	-	4	5
ELECTRICITY	29 938	17 975	5 178	12 796	11 963
COAL OR COKE	9	2	-	2	7
WOOD	119	20	3	17	99
OTHER FUEL	15	10	3	7	6
NONE	20	14	5	8	7
RENTER OCCUPIED	27 556	20 964	12 027	8 936	6 592
UTILITY GAS	14 212	12 197	7 973	4 224	2 016
BOTTLED, TANK, OR LP GAS	1 207	374	50	324	833
FUEL OIL	76	66	51	15	10
KEROSENE, ETC	12	3	2	1	8
ELECTRICITY	11 791	8 160	3 839	4 321	3 631
COAL OR COKE	3	-	-	-	3
WOOD	50	13	-	13	37
OTHER FUEL	15	10	7	3	5
NONE	191	142	106	35	49

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
MONTHLY COST PAID FOR ELECTRICITY					
SPECIFIED OWNER OCCUPIED[1]	41 945	28 246	9 844	18 402	13 700
ELECTRICITY PAID FOR	41 914	28 234	9 843	18 391	13 680
LESS THAN $10	307	199	94	106	108
$10 TO $19	3 355	2 243	987	1 257	1 111
$20 TO $29	7 112	4 821	1 905	2 915	2 292
$30 TO $39	7 808	5 367	1 887	3 481	2 441
$40 TO $49	6 085	4 108	1 411	2 698	1 976
$50 TO $59	4 975	3 256	1 020	2 236	1 719
$60 TO $79	6 118	4 067	1 288	2 779	2 051
$80 TO $99	2 555	1 722	500	1 222	834
$100 TO $149	2 748	1 842	577	1 265	906
$150 OR MORE	850	609	175	434	241
MEDIAN	44	43	40	45	44
NO ELECTRICITY USED	32	12	2	10	20
SPECIFIED RENTER OCCUPIED[2]	26 874	20 810	12 022	8 788	6 065
ELECTRICITY PAID FOR	21 609	16 540	9 164	7 375	5 069
LESS THAN $10	1 495	1 244	761	484	251
$10 TO $19	5 368	4 288	2 394	1 894	1 079
$20 TO $29	5 197	4 071	2 378	1 693	1 126
$30 TO $39	3 541	2 621	1 460	1 161	919
$40 TO $49	2 091	1 495	780	715	596
$50 TO $59	1 486	1 078	543	535	408
$60 TO $79	1 380	985	471	513	395
$80 TO $99	475	329	176	152	146
$100 TO $149	441	319	141	177	123
$150 OR MORE	134	109	58	51	25
MEDIAN	27	26	25	27	31
INCLUDED IN RENT	5 208	4 222	2 831	1 391	986
NO ELECTRICITY USED	58	48	27	21	10
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	41 945	28 246	9 844	18 402	13 700
GAS PAID FOR	31 088	22 139	8 484	13 656	8 949
LESS THAN $10	1 741	1 140	422	718	601
$10 TO $14	2 216	1 641	674	967	575
$15 TO $19	2 345	1 728	737	991	616
$20 TO $24	2 964	2 050	851	1 199	913
$25 TO $29	2 675	1 844	733	1 111	831
$30 TO $39	5 587	3 854	1 548	2 306	1 733
$40 TO $49	4 657	3 354	1 237	2 117	1 303
$50 TO $69	5 933	4 287	1 460	2 827	1 647
$70 TO $99	2 089	1 575	603	971	514
$100 OR MORE	881	666	218	448	215
MEDIAN	36	36	35	37	35
NO GAS USED	10 857	6 106	1 361	4 746	4 751
SPECIFIED RENTER OCCUPIED[2]	26 874	20 810	12 022	8 788	6 065
GAS PAID FOR	13 354	10 356	6 257	4 099	2 999
LESS THAN $10	3 185	2 722	1 727	995	463
$10 TO $14	2 070	1 686	1 019	667	385
$15 TO $19	1 521	1 210	686	524	311
$20 TO $24	1 313	958	547	412	355
$25 TO $29	1 001	745	457	288	255
$30 TO $39	1 484	1 040	589	451	444
$40 TO $49	997	710	416	295	287
$50 TO $69	1 091	780	478	301	312
$70 TO $99	451	340	237	104	111
$100 OR MORE	239	164	102	62	76
MEDIAN	19	18	17	18	24
INCLUDED IN RENT	8 159	6 609	3 938	2 671	1 549
NO GAS USED	5 362	3 845	1 827	2 018	1 517

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	41 945	28 246	9 844	18 402	13 700
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR.	10 622	6 877	1 871	5 006	3 746
LESS THAN $100.	1 787	1 170	423	747	617
$100 TO $199.	1 208	720	236	484	487
$200 TO $299.	703	372	126	246	332
$300 TO $399.	697	348	112	236	348
$400 TO $499.	733	428	108	320	305
$500 TO $599.	802	467	133	334	335
$600 TO $699.	837	500	125	375	337
$700 TO $799.	641	453	118	336	187
$800 OR MORE.	3 214	2 417	490	1 928	797
MEDIAN.	523	585	435	636	429
FUELS NOT USED OR FREE.	31 323	21 369	7 973	13 396	9 954
SPECIFIED RENTER OCCUPIED[2]	26 874	20 810	12 022	8 788	6 065
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR.	2 194	1 267	560	707	927
LESS THAN $100.	431	285	170	115	146
$100 TO $199.	275	171	88	82	104
$200 TO $299.	198	80	38	41	119
$300 TO $399.	212	102	46	56	109
$400 TO $499.	203	114	38	76	89
$500 TO $599.	156	75	31	44	81
$600 TO $699.	139	95	35	60	45
$700 TO $799.	126	64	18	46	61
$800 OR MORE.	454	281	94	186	173
MEDIAN.	390	395	256	477	386
INCLUDED IN RENT.	5 885	5 069	3 316	1 753	816
FUELS NOT USED OR FREE.	18 795	14 474	8 146	6 327	4 322
ALL OCCUPIED HOUSING UNITS.	80 072	54 550	23 832	30 718	25 522
HEATING EQUIPMENT					
OWNER OCCUPIED.	52 516	33 586	11 804	21 782	18 930
WARM-AIR FURNACE.	31 569	21 516	7 329	14 188	10 052
HEAT PUMP	1 419	977	182	796	441
STEAM OR HOT WATER.	6 803	5 299	1 994	3 306	1 504
BUILT-IN ELECTRIC UNITS	3 159	1 421	414	1 006	1 738
FLOOR, WALL, OR PIPELESS FURNACE.	3 303	2 086	992	1 094	1 218
ROOM HEATERS WITH FLUE.	2 108	829	364	465	1 279
ROOM HEATERS WITHOUT FLUE	1 694	668	333	336	1 026
FIREPLACES, STOVES, OR PORTABLE HEATERS	2 236	591	114	477	1 645
NONE.	225	198	83	114	28
RENTER OCCUPIED	27 556	20 964	12 027	8 936	6 592
WARM-AIR FURNACE.	10 239	7 812	4 080	3 732	2 427
HEAT PUMP	324	266	75	191	59
STEAM OR HOT WATER.	6 786	6 063	4 154	1 909	722
BUILT-IN ELECTRIC UNITS	2 725	1 973	968	1 005	752
FLOOR, WALL, OR PIPELESS FURNACE.	2 961	2 339	1 235	1 103	622
ROOM HEATERS WITH FLUE.	1 939	1 139	706	433	800
ROOM HEATERS WITHOUT FLUE	1 303	698	493	205	606
FIREPLACES, STOVES, OR PORTABLE HEATERS	890	331	149	183	558
NONE.	388	343	167	176	45
FIREPLACES AND HEATING STOVES					
OWNER OCCUPIED.	52 516	33 586	11 804	21 782	18 930
HOUSING UNITS WITH HEATING EQUIPMENT.	52 291	33 388	11 721	21 667	18 903
WITH FIREPLACE OR HEATING STOVE	24 372	15 687	4 681	11 006	8 684
IN WORKING ORDER.	23 138	14 895	4 270	10 624	8 243
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	18 444	11 641	3 004	8 636	6 803
ALL PURCHASED	5 594	3 958	1 221	2 737	1 636
SOME OR NONE PURCHASED.	12 599	7 520	1 721	5 799	5 079
NOT REPORTED.	250	162	63	100	88
COAL.	224	94	22	72	131
OTHER FUEL.	2 043	1 299	538	761	744
NONE.	2 359	1 823	698	1 126	536
NOT REPORTED.	68	38	8	30	30
NOT IN WORKING ORDER.	1 174	762	397	365	412
NOT REPORTED.	60	30	14	17	30
WITHOUT FIREPLACE OR HEATING STOVE.	27 802	17 617	6 998	10 619	10 186
NOT REPORTED.	117	84	42	43	33
HOUSING UNITS WITH NO HEATING EQUIPMENT	225	198	83	114	28

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
FIREPLACES AND HEATING STOVES--CONTINUED					
RENTER OCCUPIED	27 556	20 964	12 027	8 936	6 592
HOUSING UNITS WITH HEATING EQUIPMENT	27 168	20 621	11 860	8 761	6 547
WITH FIREPLACE OR HEATING STOVE	4 173	2 700	1 367	1 333	1 473
IN WORKING ORDER	3 528	2 217	1 051	1 166	1 311
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	2 104	1 219	461	758	886
ALL PURCHASED	694	442	207	234	252
SOME OR NONE PURCHASED	1 326	715	230	486	611
NOT REPORTED	84	62	24	38	22
COAL	70	25	8	17	45
OTHER FUEL	857	585	381	204	272
NONE	464	362	188	173	102
NOT REPORTED	32	26	12	14	6
NOT IN WORKING ORDER	613	458	300	159	155
NOT REPORTED	32	25	17	8	7
WITHOUT FIREPLACE OR HEATING STOVE	22 914	17 855	10 452	7 403	5 059
NOT REPORTED	80	66	41	25	14
HOUSING UNITS WITH NO HEATING EQUIPMENT	388	343	167	176	45
ALL OCCUPIED HOUSING UNITS	80 072	54 550	23 832	30 718	25 522
UNITS OCCUPIED LAST WINTER	69 337	46 982	20 164	26 818	22 355
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	49 790	31 869	11 222	20 647	17 921
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	30 452	10 707	19 745	15 335
NO ADDITIONAL HEAT SOURCE USED	42 235	28 177	9 813	18 364	14 058
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 827	1 873	754	1 118	955
NOT REPORTED	726	402	139	263	323
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	1 417	515	902	2 586
RENTER OCCUPIED	19 547	15 113	8 943	6 171	4 434
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	14 085	8 311	5 774	3 539
NO ADDITIONAL HEAT SOURCE USED	14 852	11 848	6 776	5 073	3 004
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 378	1 934	1 362	571	444
NOT REPORTED	394	303	173	130	91
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	1 028	632	396	895
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	49 790	31 869	11 222	20 647	17 921
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	30 452	10 707	19 745	15 335
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	37 144	25 615	8 668	16 948	11 529
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 818	4 368	1 881	2 487	3 450
1 ROOM	2 418	1 500	619	881	918
2 ROOMS	1 956	1 025	454	571	931
3 ROOMS OR MORE	3 444	1 843	808	1 035	1 601
NOT REPORTED	826	469	158	311	357
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	1 417	515	902	2 586
RENTER OCCUPIED	19 547	15 113	8 943	6 171	4 434
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	14 085	8 311	5 774	3 539
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	13 284	10 962	6 514	4 448	2 322
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 923	2 806	1 620	1 186	1 117
1 ROOM	1 344	1 061	636	425	283
2 ROOMS	1 254	903	467	436	351
3 ROOMS OR MORE	1 325	842	516	325	483
NOT REPORTED	417	317	176	141	99
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	1 028	632	396	895
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	49 790	31 869	11 222	20 647	17 921
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	30 452	10 707	19 745	15 335
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	1 417	515	902	2 586
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	3 348	1 174	438	736	2 174
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	399	142	35	107	257
NOT REPORTED	256	100	41	59	155

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
UNITS OCCUPIED LAST WINTER--CONTINUED					
INSUFFICIENT HEAT--CONTINUED					
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED					
RENTER OCCUPIED	19 547	15 113	8 943	6 171	4 434
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	14 085	8 311	5 774	3 539
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	1 028	632	396	895
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 442	774	476	298	669
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	359	178	117	61	181
NOT REPORTED	121	76	39	37	45
ALL OCCUPIED HOUSING UNITS	80 072	54 550	23 832	30 718	25 522
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	52 516	33 586	11 804	21 782	18 930
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 461	789	197	592	1 672
WITH SELECTED HEATING EQUIPMENT[2]	50 055	32 797	11 607	21 190	17 258
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	45 820	30 208	10 838	19 370	15 612
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	4 116	2 507	724	1 783	1 609
SOLAR HEATING EQUIPMENT	54	25	4	21	29
STOVE, BURNING WOOD OR COAL	1 441	737	127	610	703
FIREPLACE, BURNING WOOD OR COAL	602	396	109	287	206
PORTABLE ELECTRIC HEATER	1 460	1 004	376	628	456
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	308	191	61	130	117
OTHER	400	255	73	182	145
NOT REPORTED	119	83	45	38	36
RENTER OCCUPIED	27 556	20 964	12 027	8 936	6 592
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 278	674	316	358	604
WITH SELECTED HEATING EQUIPMENT[2]	26 278	20 289	11 711	8 578	5 988
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 837	19 235	11 016	8 219	5 602
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 358	985	657	328	373
SOLAR HEATING EQUIPMENT	5	2	-	2	3
STOVE, BURNING WOOD OR COAL	117	45	13	32	72
FIREPLACE, BURNING WOOD OR COAL	40	34	18	16	6
PORTABLE ELECTRIC HEATER	1 034	796	553	243	237
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	102	69	41	27	34
OTHER	88	60	40	20	28
NOT REPORTED	83	70	38	31	13
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]					
OWNER OCCUPIED	51 627	33 346	11 764	21 582	18 281
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	50 973	32 889	11 601	21 287	18 084
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	267	185	54	131	82
NOT REPORTED	387	272	109	163	115
RENTER OCCUPIED	26 776	20 704	11 923	8 781	6 072
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26 453	20 447	11 761	8 686	6 006
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	86	64	33	31	23
NOT REPORTED	237	193	130	64	44
AIR CONDITIONING					
OWNER OCCUPIED	52 516	33 586	11 804	21 782	18 930
WITH AIR CONDITIONING	32 432	21 400	7 589	13 810	11 032
ROOM UNITS	16 686	10 550	4 243	6 308	6 136
1	10 301	6 053	2 291	3 762	4 248
2	4 532	3 065	1 333	1 732	1 467
3	1 317	996	428	568	321
4	369	295	131	164	74
5 OR MORE	167	142	61	82	25
CENTRAL SYSTEM	15 746	10 849	3 347	7 503	4 896
WITH NO AIR CONDITIONING	20 084	12 186	4 215	7 971	7 898

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
AIR CONDITIONING--CONTINUED					
RENTER OCCUPIED	27 556	20 964	12 027	8 936	6 592
WITH AIR CONDITIONING	13 416	10 531	5 492	5 039	2 885
ROOM UNITS	8 174	6 226	3 396	2 830	1 948
1	6 289	4 685	2 563	2 122	1 604
2	1 552	1 257	671	586	295
3	240	207	111	96	33
4	61	50	34	16	11
5 OR MORE	31	27	16	10	5
CENTRAL SYSTEM	5 242	4 305	2 096	2 209	937
WITH NO AIR CONDITIONING	14 140	10 432	6 536	3 897	3 707
SUPPLEMENTAL COOLING EQUIPMENT					
OWNER OCCUPIED	52 516	33 586	11 804	21 782	18 930
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	15 746	10 849	3 347	7 503	4 896
WITH SUPPLEMENTAL EQUIPMENT USED	8 107	5 548	1 569	3 979	2 560
INDIVIDUAL ROOM AIR CONDITIONING UNIT	405	292	93	199	114
AWNINGS	1 050	774	217	558	276
DEHUMIDIFIER	1 463	1 075	226	849	388
CEILING FAN	1 249	820	234	586	429
ATTIC FAN	2 238	1 553	371	1 182	686
WINDOW FAN	586	396	115	281	190
PORTABLE FAN	3 926	2 559	773	1 786	1 367
WITH NO SUPPLEMENTAL EQUIPMENT USED	7 334	5 090	1 708	3 382	2 243
NOT REPORTED	305	211	69	142	94
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	36 770	22 736	8 457	14 279	14 034
RENTER OCCUPIED	27 556	20 964	12 027	8 936	6 592
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 242	4 305	2 096	2 209	937
WITH SUPPLEMENTAL EQUIPMENT USED	1 373	1 040	485	555	333
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	53	29	24	15
AWNINGS	64	49	19	29	16
DEHUMIDIFIER	52	38	9	29	14
CEILING FAN	56	34	18	16	22
ATTIC FAN	81	43	8	34	38
WINDOW FAN	163	115	48	68	48
PORTABLE FAN	1 025	787	379	408	238
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 757	3 173	1 564	1 610	583
NOT REPORTED	112	91	47	44	21
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	22 314	16 659	9 932	6 727	5 655
ALL OCCUPIED HOUSING UNITS	80 072	54 550	23 832	30 718	25 522
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	58 658	36 155	12 492	23 663	22 504
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	49 372	30 850	10 201	20 650	18 522
ALL WINDOWS COVERED	27 736	17 001	4 863	12 138	10 735
SOME WINDOWS COVERED	5 545	3 359	1 241	2 118	2 186
NO WINDOWS COVERED	15 920	10 364	4 043	6 322	5 556
NOT REPORTED	171	126	54	72	45
RENTER OCCUPIED	9 286	5 304	2 291	3 013	3 982
ALL WINDOWS COVERED	2 913	1 483	556	928	1 430
SOME WINDOWS COVERED	1 026	538	235	303	488
NO WINDOWS COVERED	4 952	3 002	1 379	1 623	1 949
NOT REPORTED	396	280	121	159	115
STORM DOORS					
OWNER OCCUPIED	49 372	30 850	10 201	20 650	18 522
ALL DOORS COVERED	25 312	15 584	4 770	10 814	9 728
SOME DOORS COVERED	7 017	4 084	1 414	2 670	2 933
NO DOORS COVERED	16 854	11 046	3 956	7 090	5 808
NOT REPORTED	189	137	61	76	52
RENTER OCCUPIED	9 286	5 304	2 291	3 013	3 982
ALL DOORS COVERED	2 492	1 347	526	821	1 145
SOME DOORS COVERED	978	497	227	271	480
NO DOORS COVERED	5 420	3 181	1 418	1 763	2 240
NOT REPORTED	396	279	121	158	117

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
ATTIC OR ROOF INSULATION					
OWNER OCCUPIED	49 372	30 850	10 201	20 650	18 522
YES	41 331	25 788	7 979	17 809	15 543
NO	6 165	3 781	1 717	2 064	2 383
DON'T KNOW	1 663	1 126	432	694	537
NOT REPORTED	214	155	73	83	58
RENTER OCCUPIED	9 286	5 304	2 291	3 013	3 982
YES	4 107	2 225	817	1 408	1 882
NO	2 663	1 489	738	751	1 174
DON'T KNOW	2 113	1 302	613	689	811
NOT REPORTED	402	288	123	165	114
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	49 372	30 850	10 201	20 650	18 522
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	15 920	10 364	4 043	6 322	5 556
SOME OR ALL WINDOWS COVERED	33 280	20 360	6 104	14 256	12 920
NONE INSTALLED	29 349	18 027	5 367	12 660	11 322
SOME OR ALL INSTALLED	3 809	2 273	709	1 564	1 536
NOT REPORTED	123	60	28	32	62
NOT REPORTED	171	126	54	72	45
STORM DOORS:					
NO DOORS COVERED	16 854	11 046	3 956	7 090	5 808
SOME OR ALL DOORS COVERED	32 329	19 668	6 184	13 484	12 661
NONE INSTALLED	29 706	18 065	5 623	12 441	11 641
SOME OR ALL INSTALLED	2 390	1 466	500	966	924
NOT REPORTED	233	138	61	77	96
NOT REPORTED	189	137	61	76	52
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	6 165	3 781	1 717	2 064	2 383
WITH ATTIC OR ROOF INSULATION	41 331	25 788	7 979	17 809	15 543
NONE ADDED OR INSTALLED	37 302	23 198	7 148	16 050	14 105
SOME OR ALL ADDED OR INSTALLED	3 756	2 405	758	1 647	1 352
NOT REPORTED	272	186	74	112	87
DON'T KNOW	1 663	1 126	432	694	537
NOT REPORTED	214	155	73	83	58
WALL INSULATION:					
NONE ADDED OR INSTALLED	46 356	28 961	9 590	19 371	17 395
SOME OR ALL ADDED OR INSTALLED	2 736	1 694	520	1 174	1 042
NOT REPORTED	280	196	91	105	84
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	39 340	23 940	8 073	15 867	15 400
SOME OR ALL ADDED OR INSTALLED	9 765	6 726	2 050	4 676	3 039
NOT REPORTED	267	184	79	106	83
OTHER INSULATION:					
NONE ADDED OR INSTALLED	45 213	28 246	9 441	18 805	16 967
SOME OR ALL ADDED OR INSTALLED	3 922	2 437	685	1 752	1 485
NOT REPORTED	237	167	75	92	70
RENTER OCCUPIED	9 286	5 304	2 291	3 013	3 982
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	4 952	3 002	1 379	1 623	1 949
SOME OR ALL WINDOWS COVERED	3 939	2 022	791	1 231	1 917
NONE INSTALLED	3 296	1 738	673	1 065	1 558
SOME OR ALL INSTALLED	597	262	100	162	335
NOT REPORTED	46	21	18	4	24
NOT REPORTED	396	280	121	159	115
STORM DOORS:					
NO DOORS COVERED	5 420	3 181	1 418	1 763	2 240
SOME OR ALL DOORS COVERED	3 470	1 845	752	1 092	1 625
NONE INSTALLED	3 173	1 693	683	1 010	1 479
SOME OR ALL INSTALLED	213	107	43	64	105
NOT REPORTED	85	44	26	18	41
NOT REPORTED	396	279	121	158	117

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
RENTER OCCUPIED--CONTINUED					
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	2 663	1 489	738	751	1 174
WITH ATTIC OR ROOF INSULATION	4 107	2 225	817	1 408	1 882
NONE ADDED OR INSTALLED	3 760	2 053	763	1 291	1 707
SOME OR ALL ADDED OR INSTALLED	294	142	43	99	152
NOT REPORTED	53	30	12	18	23
DON'T KNOW	2 113	1 302	613	689	811
NOT REPORTED	402	288	123	165	114
WALL INSULATION:					
NONE ADDED OR INSTALLED	8 537	4 844	2 088	2 756	3 693
SOME OR ALL ADDED OR INSTALLED	185	83	31	53	101
NOT REPORTED	565	377	173	204	188
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	7 868	4 450	1 931	2 519	3 417
SOME OR ALL ADDED OR INSTALLED	849	475	188	287	374
NOT REPORTED	570	379	172	207	191
OTHER INSULATION:					
NONE ADDED OR INSTALLED	8 419	4 780	2 058	2 722	3 639
SOME OR ALL ADDED OR INSTALLED	307	150	62	88	157
NOT REPORTED	560	375	172	203	186
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	49 372	30 850	10 201	20 650	18 522
NO INSULATION ADDED OR INSTALLED	32 707	20 052	6 842	13 210	12 655
WITH INSULATION ADDED OR INSTALLED	15 820	10 293	3 138	7 155	5 527
LESS THAN $50	7 094	4 593	1 301	3 292	2 501
$50 TO $99	1 760	1 089	355	734	671
$100 TO $249	2 312	1 485	433	1 052	827
$250 TO $499	1 667	1 120	345	775	547
$500 TO $999	983	645	230	415	298
$1,000 OR MORE	1 074	723	242	482	351
DON'T KNOW	586	382	143	240	204
NOT REPORTED	383	254	89	166	129
MEDIAN	59	61	71	56	57
NOT REPORTED OR DON'T KNOW	845	506	221	285	340
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 315	721	210	511	594
LESS THAN $50	598	253	69	185	345
$50 TO $99	110	59	21	38	51
$100 TO $249	169	104	22	82	65
$250 TO $499	135	100	34	66	35
$500 TO $999	105	75	22	53	30
$1,000 OR MORE	74	60	17	42	14
DON'T KNOW	40	21	9	12	19
NOT REPORTED	84	49	15	34	35
MEDIAN	50-	119	121	119	50-
ONLY INSTALLED STORM DOORS	815	474	150	323	341
LESS THAN $50	111	54	10	44	58
$50 TO $99	270	131	39	92	139
$100 TO $249	266	173	47	126	93
$250 TO $499	73	51	15	36	22
$500 TO $999	17	15	10	5	2
$1,000 OR MORE	4	3	-	3	1
DON'T KNOW	17	12	5	7	5
NOT REPORTED	56	34	24	11	22
MEDIAN	97	125	137	120	85
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	1 537	956	287	669	581
LESS THAN $50	189	106	22	85	82
$50 TO $99	192	126	31	95	66
$100 TO $249	450	279	78	201	171
$250 TO $499	310	186	61	126	123
$500 TO $999	144	101	42	59	43
$1,000 OR MORE	90	55	16	40	35
DON'T KNOW	86	50	19	31	36
NOT REPORTED	77	53	19	34	25
MEDIAN	202	204	237	191	197

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	80 072	54 550	23 832	30 718	25 522
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	36 185	23 882	7 906	15 976	12 304
DRIVES SELF	26 067	17 613	5 736	11 877	8 455
CARPOOL	6 358	3 894	1 153	2 741	2 464
MASS TRANSPORTATION	1 248	1 184	587	597	65
BICYCLE, MOTORCYCLE, OR MOPED	507	325	122	203	183
TAXICAB	25	16	12	5	9
WALKS ONLY	791	409	194	216	382
OTHER MEANS	85	40	12	28	45
WORKS AT HOME	1 103	401	91	310	702
RENTER OCCUPIED	17 885	13 723	7 367	6 356	4 162
DRIVES SELF	10 585	8 071	3 777	4 294	2 514
CARPOOL	3 049	2 140	1 052	1 088	909
MASS TRANSPORTATION	2 058	2 026	1 653	373	32
BICYCLE, MOTORCYCLE, OR MOPED	418	318	154	164	100
TAXICAB	71	53	44	10	18
WALKS ONLY	1 279	892	570	321	387
OTHER MEANS	40	22	16	6	18
WORKS AT HOME	384	202	100	102	182
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]					
OWNER OCCUPIED	36 185	23 882	7 906	15 976	12 304
HOUSEHOLDER DRIVES ALONE	26 067	17 613	5 736	11 877	8 455
IRREGULAR OR UNUSUAL WORK HOURS	8 503	5 805	1 829	3 975	2 698
IRREGULAR WORK LOCATION	2 349	1 634	528	1 107	715
CAR NEEDED FOR WORK OR ERRANDS	4 075	2 803	997	1 806	1 272
DOESN'T KNOW ANYONE TO RIDE WITH	5 840	3 833	1 167	2 666	2 007
LIKES PRIVACY	1 022	748	284	464	274
OUT OF THE WAY TO PICK UP OTHERS	1 551	1 006	331	675	544
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	242	177	68	109	65
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	617	424	163	261	193
DOESN'T TRUST OTHERS DRIVING	38	26	9	17	12
SOME OTHER REASON	1 748	1 100	341	759	648
NOT REPORTED	83	56	19	37	27
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	10 118	6 269	2 170	4 099	3 849
RENTER OCCUPIED	17 885	13 723	7 367	6 356	4 162
HOUSEHOLDER DRIVES ALONE	10 585	8 071	3 777	4 294	2 514
IRREGULAR OR UNUSUAL WORK HOURS	3 151	2 419	1 102	1 317	732
IRREGULAR WORK LOCATION	731	534	247	288	197
CAR NEEDED FOR WORK OR ERRANDS	1 393	1 066	529	537	327
DOESN'T KNOW ANYONE TO RIDE WITH	2 808	2 123	972	1 151	684
LIKES PRIVACY	587	478	239	240	109
OUT OF THE WAY TO PICK UP OTHERS	644	480	220	261	163
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	143	115	48	67	28
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	277	217	110	107	60
DOESN'T TRUST OTHERS DRIVING	27	20	12	9	7
SOME OTHER REASON	765	576	271	305	189
NOT REPORTED	60	42	29	14	18
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	7 300	5 652	3 590	2 063	1 647
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	36 185	23 882	7 906	15 976	12 304
LESS THAN 1 MILE	2 270	1 034	393	641	1 236
1 TO 4 MILES	7 236	4 354	1 887	2 468	2 882
5 TO 9 MILES	6 879	5 014	2 022	2 993	1 865
10 TO 19 MILES	8 025	6 097	1 755	4 342	1 928
20 TO 29 MILES	3 139	2 199	434	1 764	940
30 TO 49 MILES	1 973	1 173	234	940	799
50 MILES OR MORE	820	437	122	315	383
WORKS AT HOME	1 103	401	91	310	702
NO FIXED PLACE OF WORK	4 741	3 171	968	2 204	1 569
MEDIAN	9.1	9.8	7.8	11.4	7.4

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
DISTANCE FROM HOME TO WORK[1]--CONTINUED					
RENTER OCCUPIED	17 885	13 723	7 367	6 356	4 162
LESS THAN 1 MILE	1 996	1 249	727	522	747
1 TO 4 MILES	4 697	3 510	2 066	1 445	1 186
5 TO 9 MILES	3 694	3 096	1 749	1 347	599
10 TO 19 MILES	3 437	2 876	1 439	1 437	561
20 TO 29 MILES	1 149	924	392	531	225
30 TO 49 MILES	570	408	143	266	162
50 MILES OR MORE	238	140	80	60	98
WORKS AT HOME	384	202	100	102	182
NO FIXED PLACE OF WORK	1 720	1 318	672	646	401
MEDIAN	6.6	7.2	6.4	8.1	4.5
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	36 185	23 882	7 906	15 976	12 304
LESS THAN 15 MINUTES	10 658	6 004	2 250	3 753	4 654
15 TO 29 MINUTES	11 075	8 139	2 884	5 255	2 936
30 TO 44 MINUTES	4 884	3 634	1 031	2 603	1 249
45 TO 59 MINUTES	1 889	1 285	325	960	604
1 HOUR TO 1 HOUR AND 29 MINUTES	1 193	817	235	583	376
1 HOUR AND 30 MINUTES OR MORE	644	430	123	308	213
WORKS AT HOME	1 103	401	91	310	702
NO FIXED PLACE OF WORK	4 741	3 171	968	2 204	1 569
MEDIAN	21.1	22.6	21.1	23.5	16.8
RENTER OCCUPIED	17 885	13 723	7 367	6 356	4 162
LESS THAN 15 MINUTES	6 042	4 073	2 052	2 021	1 969
15 TO 29 MINUTES	5 674	4 658	2 532	2 126	1 016
30 TO 44 MINUTES	2 267	1 946	1 058	888	321
45 TO 59 MINUTES	861	749	429	320	111
1 HOUR TO 1 HOUR AND 29 MINUTES	658	563	375	188	95
1 HOUR AND 30 MINUTES OR MORE	279	214	148	66	64
WORKS AT HOME	384	202	100	102	182
NO FIXED PLACE OF WORK	1 720	1 318	672	646	401
MEDIAN	19.9	21.5	22.4	20.5	15.0-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS	80 072	4 903	12 229	8 230	12 771	10 649	8 969	11 798	6 700	2 652	1 171	15900
HOUSE HEATING FUEL												
OWNER OCCUPIED	52 516	2 155	5 750	4 367	7 217	6 977	6 707	9 814	6 002	2 445	1 082	19800
UTILITY GAS	29 608	1 148	3 132	2 310	3 862	3 761	3 765	5 710	3 700	1 558	662	20800
BOTTLED, TANK, OR LP GAS	3 239	248	558	400	596	455	369	385	156	46	24	13500
FUEL OIL	9 274	342	1 115	813	1 306	1 326	1 120	1 657	1 015	405	174	19000
KEROSENE, ETC	261	24	60	35	62	31	21	17	10	-	-	10900
ELECTRICITY	8 671	284	642	640	1 149	1 212	1 258	1 855	1 021	405	206	21600
COAL OR COKE	228	26	43	26	45	30	25	20	12	2	-	12100
WOOD	983	67	172	124	163	141	111	124	56	16	9	13900
SOLAR HEAT	10	-	4	-	-	-	1	3	2	-	1	...
OTHER FUEL	18	-	2	2	3	4	6	1	1	-	-	...
NONE	225	16	22	19	33	17	30	40	29	15	6	21000
RENTER OCCUPIED	27 556	2 748	6 479	3 862	5 553	3 672	2 263	1 984	699	207	88	10600
UTILITY GAS	14 790	1 551	3 603	2 168	2 947	1 891	1 149	1 017	331	93	39	10100
BOTTLED, TANK, OR LP GAS	931	129	219	144	180	127	69	44	15	4	1	9500
FUEL OIL	5 226	430	1 264	709	1 083	690	428	386	150	60	25	11000
KEROSENE, ETC	108	21	34	16	14	12	9	2	-	-	-	6900
ELECTRICITY	5 536	437	1 086	696	1 147	853	568	493	194	44	20	12400
COAL OR COKE	100	18	29	14	21	9	4	5	1	-	-	7800
WOOD	394	84	118	57	66	44	15	9	1	-	-	6800
SOLAR HEAT	3	-	-	1	-	-	-	2	-	-	-	...
OTHER FUEL	79	10	24	6	14	6	6	6	2	2	3	9500
NONE	388	69	102	52	81	40	13	22	5	4	-	8300
WATER HEATING FUEL[1]												
OWNER OCCUPIED	51 770	2 010	5 511	4 270	7 111	6 908	6 675	9 785	5 981	2 437	1 081	20100
UTILITY GAS	27 696	1 019	2 691	2 107	3 549	3 485	3 609	5 525	3 556	1 524	633	21400
BOTTLED, TANK, OR LP GAS	2 443	161	403	295	419	341	300	304	154	45	21	14300
FUEL OIL	3 284	89	269	248	388	421	415	668	487	201	97	22700
KEROSENE, ETC	22	-	4	3	4	3	4	2	2	1	-	...
ELECTRICITY	18 078	723	2 100	1 582	2 706	2 631	2 324	3 266	1 764	658	324	18700
COAL OR COKE	29	2	2	1	8	3	9	1	2	2	-	...
WOOD	60	4	4	9	11	10	6	5	8	3	-	15900
SOLAR HEAT	52	-	4	1	5	6	5	13	9	3	6	28700
OTHER FUEL	14	2	1	4	4	2	-	1	1	-	-	...
NONE	90	10	33	20	17	6	3	1	-	-	-	7300
RENTER OCCUPIED	26 907	2 561	6 235	3 762	5 491	3 643	2 251	1 974	695	207	86	10800
UTILITY GAS	14 783	1 495	3 544	2 132	2 958	1 925	1 194	1 057	344	93	40	10400
BOTTLED, TANK, OR LP GAS	661	69	144	106	149	89	56	31	13	4	1	10400
FUEL OIL	3 114	236	769	420	636	406	232	232	111	52	21	11000
KEROSENE, ETC	6	-	2	1	3	-	-	-	-	-	-	...
ELECTRICITY	8 140	732	1 690	1 083	1 718	1 204	761	645	226	58	22	11600
COAL OR COKE	17	2	6	4	2	2	1	-	1	-	-	...
WOOD	6	-	3	-	1	1	1	-	-	-	-	...
SOLAR HEAT	15	-	9	1	-	-	-	3	2	-	-	...
OTHER FUEL	49	6	9	2	8	12	6	5	-	-	2	14700
NONE	115	21	58	14	15	5	2	1	-	-	-	5500
COOKING FUEL												
OWNER OCCUPIED	52 516	2 155	5 750	4 367	7 217	6 977	6 707	9 814	6 002	2 445	1 082	19800
UTILITY GAS	18 452	828	2 352	1 734	2 657	2 536	2 301	3 185	1 806	778	275	18300
BOTTLED, TANK, OR LP GAS	3 899	309	752	505	745	534	419	398	186	32	20	12600
FUEL OIL	55	8	11	5	6	2	10	7	5	-	2	13800
KEROSENE, ETC	9	2	2	1	1	2	-	-	-	1	-	...
ELECTRICITY	29 938	980	2 577	2 098	3 789	3 896	3 965	6 217	3 996	1 634	785	22100
COAL OR COKE	9	2	5	1	1	-	-	1	-	-	-	...
WOOD	119	21	46	18	9	6	11	5	3	1	-	6300
OTHER FUEL	15	2	2	4	2	2	-	-	3	-	-	...
NONE	20	3	3	2	8	-	-	2	2	-	-	...
RENTER OCCUPIED	27 556	2 748	6 479	3 862	5 553	3 672	2 263	1 984	699	207	88	10600
UTILITY GAS	14 212	1 552	3 666	2 072	2 795	1 754	1 063	879	296	87	49	9700
BOTTLED, TANK, OR LP GAS	1 207	173	326	194	240	136	75	48	12	2	-	8600
FUEL OIL	76	19	16	2	14	13	7	1	3	-	-	10200
KEROSENE, ETC	12	2	6	-	2	1	-	-	-	-	-	...
ELECTRICITY	11 791	943	2 366	1 559	2 469	1 751	1 110	1 052	386	115	40	12100
COAL OR COKE	3	-	2	1	-	-	-	-	-	-	-	...
WOOD	50	22	16	6	2	1	1	1	-	-	-	3700
OTHER FUEL	15	3	2	3	2	-	2	-	2	-	-	...
NONE	191	34	78	25	28	15	5	3	-	3	-	6200
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[2]	41 945	1 528	4 116	3 136	5 379	5 475	5 528	8 430	5 282	2 147	925	21200
ELECTRICITY PAID FOR	41 914	1 517	4 114	3 130	5 375	5 473	5 526	8 427	5 280	2 147	925	21200
LESS THAN $10	307	38	111	31	41	34	17	16	9	8	3	7500
$10 TO $19	3 355	230	827	447	500	379	340	356	181	73	20	11700
$20 TO $29	7 112	307	1 025	760	1 112	1 007	883	1 159	592	204	63	16700
$30 TO $39	7 808	284	761	608	1 097	1 129	1 103	1 573	868	297	89	20100
$40 TO $49	6 085	176	444	446	787	828	824	1 380	806	291	104	22200
$50 TO $59	4 975	148	317	286	636	696	709	1 088	717	262	115	22800
$60 TO $79	6 118	170	310	307	683	777	899	1 387	979	421	186	24500
$80 TO $99	2 555	63	140	103	225	293	352	642	439	206	92	26600
$100 TO $149	2 748	75	140	100	223	255	323	673	527	278	155	28800
$150 OR MORE	850	25	39	41	73	76	77	154	162	105	97	31100
MEDIAN	44	36	31	35	38	42	45	47	52	57	67	...
NO ELECTRICITY USED	32	11	2	6	3	2	2	2	3	-	-	...

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
MONTHLY COST PAID FOR ELECTRICITY--CONTINUED												
SPECIFIED RENTER OCCUPIED[1]	26 874	2 657	6 331	3 762	5 411	3 595	2 204	1 943	681	204	88	10600
ELECTRICITY PAID FOR	21 609	1 979	4 646	2 965	4 479	3 082	1 889	1 712	601	178	78	11400
LESS THAN $10	1 495	189	385	203	341	186	84	69	17	12	8	9600
$10 TO $19	5 368	564	1 423	792	1 099	693	374	292	99	22	10	9600
$20 TO $29	5 197	502	1 172	727	1 090	726	433	360	143	35	10	10900
$30 TO $39	3 541	299	690	497	767	492	351	304	92	29	19	11900
$40 TO $49	2 091	161	382	261	403	351	228	208	64	22	11	13000
$50 TO $59	1 486	115	244	177	314	244	165	151	50	18	8	13300
$60 TO $79	1 380	93	208	173	258	238	142	165	77	18	8	14200
$80 TO $99	475	31	65	76	87	69	54	69	21	2	-	13700
$100 TO $149	441	17	44	53	94	69	47	74	26	15	2	15900
$150 OR MORE	134	7	32	7	25	15	11	19	12	4	2	14200
MEDIAN	27	24	24	26	27	28	31	34	34	36	35	...
INCLUDED IN RENT	5 208	670	1 665	788	919	513	311	229	77	26	10	8000
NO ELECTRICITY USED	58	8	20	8	14	-	5	2	2	-	-	7400
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	41 945	1 528	4 116	3 136	5 379	5 475	5 528	8 430	5 282	2 147	925	21200
GAS PAID FOR	31 088	1 209	3 183	2 387	3 991	3 943	4 003	6 117	3 932	1-639	685	21000
LESS THAN $10	1 741	83	282	176	248	233	186	273	162	67	32	16800
$10 TO $14	2 216	103	317	187	283	319	287	381	224	80	35	18400
$15 TO $19	2 345	89	285	225	326	299	333	429	245	89	26	19100
$20 TO $24	2 964	105	350	238	380	392	392	538	381	140	48	20200
$25 TO $29	2 675	88	280	268	387	330	368	502	276	119	56	19700
$30 TO $39	5 587	194	599	454	801	710	706	1 150	630	248	94	20200
$40 TO $49	4 657	193	340	312	574	608	623	1 048	649	227	83	22400
$50 TO $69	5 933	219	481	354	693	731	784	1 220	906	385	160	23100
$70 TO $99	2 089	85	166	116	217	234	248	431	324	180	88	24600
$100 OR MORE	881	50	82	58	82	87	76	146	134	104	63	25400
MEDIAN	36	36	31	32	34	35	36	37	41	43	46	...
NO GAS USED	10 857	319	933	749	1 388	1 532	1 524	2 313	1 351	508	240	21700
SPECIFIED RENTER OCCUPIED[1]	26 874	2 657	6 331	3 762	5 411	3 595	2 204	1 943	681	204	88	10600
GAS PAID FOR	13 354	1 324	3 076	1 880	2 711	1 797	1 120	955	350	99	41	10700
LESS THAN $10	3 185	314	699	478	704	426	256	203	64	25	17	10700
$10 TO $14	2 070	199	512	259	418	306	159	149	43	18	6	10800
$15 TO $19	1 521	172	355	212	307	196	126	108	34	9	2	10400
$20 TO $24	1 313	128	305	204	237	171	102	106	48	8	4	10400
$25 TO $29	1 001	107	205	145	214	140	82	65	30	10	4	11000
$30 TO $39	1 484	151	312	226	301	187	129	118	46	10	5	10900
$40 TO $49	997	96	215	127	201	131	112	72	37	5	2	11500
$50 TO $69	1 091	92	267	140	217	152	98	85	30	11	-	11100
$70 TO $99	451	45	142	56	73	55	33	36	11	1	-	9100
$100 OR MORE	239	20	64	33	40	34	22	14	7	3	2	10300
MEDIAN	19	18	19	19	18	18	21	21	23	18	12	...
INCLUDED IN RENT	8 159	898	2 132	1 198	1 562	1 016	564	536	173	55	26	9600
NO GAS USED	5 362	435	1 122	684	1 138	781	520	452	159	50	21	11900
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	41 945	1 528	4 116	3 136	5 379	5 475	5 528	8 430	5 282	2 147	925	21200
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	10 622	362	1 103	793	1 244	1 334	1 323	2 109	1 439	625	290	21800
LESS THAN $100	1 787	72	127	109	126	162	236	411	335	132	78	26500
$100 TO $199	1 208	50	115	73	124	113	144	252	194	103	38	24400
$200 TO $299	703	26	90	50	89	92	84	141	70	44	18	20300
$300 TO $399	697	25	97	73	110	105	78	108	68	28	5	17100
$400 TO $499	733	30	93	66	104	118	107	120	65	23	8	18100
$500 TO $599	802	26	110	66	119	129	105	134	81	26	7	18100
$600 TO $699	837	21	90	66	117	122	115	168	97	33	10	20200
$700 TO $799	641	19	79	44	96	94	82	122	67	30	9	19400
$800 OR MORE	3 214	93	302	248	359	401	371	654	461	208	118	22800
MEDIAN	523	424	526	540	557	560	511	518	479	427	475	...
FUELS NOT USED OR FREE	31 323	1 166	3 013	2 343	4 135	4 141	4 204	6 321	3 843	1 522	635	21000
SPECIFIED RENTER OCCUPIED[1]	26 874	2 657	6 331	3 762	5 411	3 595	2 204	1 943	681	204	88	10600
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 194	236	459	275	425	291	190	193	85	24	16	11500
LESS THAN $100	431	60	72	56	67	60	32	50	24	5	5	12000
$100 TO $199	275	36	61	38	42	38	17	18	20	3	3	10400
$200 TO $299	198	29	51	24	36	29	12	9	4	1	3	9300
$300 TO $399	212	23	50	23	44	24	24	16	6	1	-	11100
$400 TO $499	203	23	52	24	42	25	19	15	3	-	-	10300
$500 TO $599	156	14	33	21	36	24	9	12	5	1	2	11500
$600 TO $699	139	10	36	18	29	13	14	10	7	2	-	11000
$700 TO $799	126	13	26	23	22	12	14	10	2	2	2	10300
$800 OR MORE	454	29	77	50	107	67	49	52	12	9	2	13400
MEDIAN	390	278	388	385	455	378	455	421	188	...	...	...
INCLUDED IN RENT	5 885	555	1 522	839	1 129	760	458	373	158	57	32	10100
FUELS NOT USED OR FREE	18 795	1 865	4 350	2 647	3 857	2 543	1 556	1 377	437	123	39	10700
ALL OCCUPIED HOUSING UNITS	80 072	4 903	12 229	8 230	12 771	10 649	8 969	11 798	6 700	2 652	1 171	15900
HEATING EQUIPMENT												
OWNER OCCUPIED	52 516	2 155	5 750	4 367	7 217	6 977	6 707	9 814	6 002	2 445	1 082	19800
WARM-AIR FURNACE	31 569	1 064	2 744	2 318	4 038	4 123	4 262	6 528	4 094	1 684	712	21800
HEAT PUMP	1 419	36	62	72	132	148	191	368	231	109	69	26800
STEAM OR HOT WATER	6 803	221	623	520	858	863	842	1 363	920	397	197	21900
BUILT-IN ELECTRIC UNITS	3 159	133	270	272	464	522	457	570	308	113	50	19200
FLOOR, WALL, OR PIPELESS FURNACE	3 303	150	579	342	616	531	374	402	216	68	25	14700
ROOM HEATERS WITH FLUE	2 108	177	580	307	380	273	162	151	56	16	6	9900
ROOM HEATERS WITHOUT FLUE	1 694	204	471	253	302	170	116	136	28	9	3	9000
FIREPLACES, STOVES, OR PORTABLE HEATERS	2 236	154	399	264	394	329	271	258	119	34	14	13800
NONE	225	16	22	19	33	17	30	40	29	15	6	21000

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
HEATING EQUIPMENT--CONTINUED												
RENTER OCCUPIED	27 556	2 748	6 479	3 862	5 553	3 672	2 263	1 984	699	207	88	10600
WARM-AIR FURNACE	10 239	854	1 936	1 392	2 155	1 476	1 019	927	347	99	34	12200
HEAT PUMP	324	16	47	40	59	66	42	39	10	5	2	15100
STEAM OR HOT WATER	6 786	598	1 749	929	1 344	890	530	466	174	71	32	10400
BUILT-IN ELECTRIC UNITS	2 725	228	671	361	530	389	248	193	82	15	9	11000
FLOOR, WALL, OR PIPELESS FURNACE	2 961	277	699	438	663	421	212	186	51	8	6	10500
ROOM HEATERS WITH FLUE	1 939	318	589	313	334	196	112	63	10	1	2	7600
ROOM HEATERS WITHOUT FLUE	1 303	221	431	217	221	103	47	50	13	1	1	7000
FIREPLACES, STOVES, OR PORTABLE HEATERS	890	167	255	121	167	92	39	38	6	2	2	7600
NONE	388	69	102	52	81	40	13	22	5	4	-	8300
FIREPLACES AND HEATING STOVES												
OWNER OCCUPIED	52 516	2 155	5 750	4 367	7 217	6 977	6 707	9 814	6 002	2 445	1 082	19800
HOUSING UNITS WITH HEATING EQUIPMENT	52 291	2 140	5 728	4 348	7 184	6 960	6 677	9 774	5 973	2 431	1 076	19800
WITH FIREPLACE OR HEATING STOVE	24 372	883	1 853	1 477	2 601	2 780	3 086	5 199	3 876	1 789	827	24200
IN WORKING ORDER	23 138	811	1 655	1 350	2 398	2 620	2 934	5 004	3 798	1 755	812	24700
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	18 444	575	1 072	909	1 778	2 067	2 416	4 241	3 248	1 480	657	26000
ALL PURCHASED	5 594	180	320	235	445	511	646	1 304	1 087	580	289	28500
SOME OR NONE PURCHASED	12 599	389	731	664	1 306	1 533	1 739	2 900	2 103	874	361	24800
NOT REPORTED	250	7	21	11	27	23	31	38	58	26	8	26100
COAL	224	25	46	29	36	27	16	27	12	5	2	11700
OTHER FUEL	2 043	115	299	181	300	229	217	289	218	129	66	17800
NONE	2 359	94	233	228	282	293	269	430	308	136	86	20900
NOT REPORTED	68	2	4	2	2	5	16	18	13	5	1	26400
NOT IN WORKING ORDER	1 174	69	187	118	200	152	144	187	74	30	13	15400
NOT REPORTED	60	3	11	9	3	8	8	8	4	4	2	17300
WITHOUT FIREPLACE OR HEATING STOVE	27 802	1 249	3 859	2 855	4 566	4 171	3 579	4 554	2 090	636	245	16600
NOT REPORTED	117	8	16	17	17	8	13	21	7	6	4	15300
HOUSING UNITS WITH NO HEATING EQUIPMENT	225	16	22	19	33	17	30	40	29	15	6	21000
RENTER OCCUPIED	27 556	2 748	6 479	3 862	5 553	3 672	2 263	1 984	699	207	88	10600
HOUSING UNITS WITH HEATING EQUIPMENT	27 168	2 679	6 377	3 810	5 472	3 632	2 249	1 962	694	203	88	10700
WITH FIREPLACE OR HEATING STOVE	4 173	407	859	489	796	545	412	401	168	62	34	12100
IN WORKING ORDER	3 528	328	699	392	679	477	359	360	146	56	31	12500
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	2 104	173	325	229	393	323	235	254	115	41	17	14200
ALL PURCHASED	694	65	114	54	100	96	67	112	55	23	8	15700
SOME OR NONE PURCHASED	1 326	96	204	165	278	211	159	132	56	15	10	13500
NOT REPORTED	84	12	6	9	15	15	9	10	4	3	-	15000
COAL	70	15	34	6	10	1	2	1	1	-	-	5400
OTHER FUEL	857	102	246	105	178	86	70	49	11	2	7	9300
NONE	464	37	86	47	91	65	52	51	18	12	6	13400
NOT REPORTED	32	2	7	5	7	2	1	4	1	2	1	...
NOT IN WORKING ORDER	613	74	155	94	110	64	49	37	21	6	3	9500
NOT REPORTED	32	5	5	4	7	3	3	4	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	22 914	2 258	5 503	3 314	4 651	3 085	1 830	1 558	521	141	54	10400
NOT REPORTED	80	14	15	7	25	3	8	3	5	-	-	10900
HOUSING UNITS WITH NO HEATING EQUIPMENT	388	69	102	52	81	40	13	22	5	4	-	8300
ALL OCCUPIED HOUSING UNITS	80 072	4 903	12 229	8 230	12 771	10 649	8 969	11 798	6 700	2 652	1 171	15900
UNITS OCCUPIED LAST WINTER	69 337	3 884	10 415	6 828	10 728	9 191	7 959	10 636	6 151	2 461	1 083	16500
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	49 790	2 047	5 577	4 151	6 863	6 591	6 355	9 219	5 670	2 301	1 016	19700
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	1 686	4 708	3 633	6 175	6 090	5 955	8 801	5 497	2 251	993	20500
NO ADDITIONAL HEAT SOURCE USED	42 235	1 514	4 268	3 322	5 662	5 603	5 502	8 187	5 153	2 098	924	20700
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 827	140	334	231	417	384	366	498	286	125	47	18800
NOT REPORTED	726	33	106	79	96	103	86	116	59	27	21	17400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	360	870	518	688	501	401	419	173	50	23	11800
RENTER OCCUPIED	19 547	1 838	4 838	2 677	3 865	2 601	1 604	1 416	481	160	67	10500
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	1 507	4 221	2 392	3 525	2 435	1 527	1 332	462	156	65	11000
NO ADDITIONAL HEAT SOURCE USED	14 852	1 235	3 468	1 996	2 934	2 116	1 335	1 168	402	137	62	11200
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 378	224	670	349	513	261	157	138	47	16	2	9500
NOT REPORTED	394	49	83	47	78	59	35	26	13	3	2	11200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	330	617	284	340	165	76	84	19	4	2	7200
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	49 790	2 047	5 577	4 151	6 863	6 591	6 355	9 219	5 670	2 301	1 016	19700
WITH SPECIFIED HEATING EQUIPMENT	45 788	1 686	4 708	3 633	6 175	6 090	5 955	8 801	5 497	2 251	993	20500
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	37 144	1 273	3 300	2 735	4 731	4 843	4 927	7 570	4 849	2 027	889	21700
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 818	374	1 281	811	1 342	1 136	930	1 094	577	195	79	15400
1 ROOM	2 418	99	265	179	375	359	316	422	265	97	41	19100
2 ROOMS	1 956	116	393	231	320	280	214	251	97	35	18	13700
3 ROOMS OR MORE	3 444	159	623	401	647	497	399	420	215	62	20	14200
NOT REPORTED	826	39	126	87	102	111	98	137	72	29	25	17600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	360	870	518	688	501	401	419	173	50	23	11800
RENTER OCCUPIED	19 547	1 838	4 838	2 677	3 865	2 601	1 604	1 416	481	160	67	10500
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	1 507	4 221	2 392	3 525	2 435	1 527	1 332	462	156	65	11000
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	13 284	1 048	3 171	1 757	2 609	1 848	1 182	1 099	384	132	55	11300
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 923	406	968	580	831	524	307	213	65	21	9	10100
1 ROOM	1 344	111	328	189	308	191	119	62	25	9	3	10700
2 ROOMS	1 254	137	316	188	253	166	97	72	17	8	2	9800
3 ROOMS OR MORE	1 325	158	323	203	270	167	92	79	24	4	4	9700
NOT REPORTED	417	34	83	56	85	63	38	20	13	3	2	10900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	330	617	284	340	165	76	84	19	4	2	7200

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
UNITS OCCUPIED LAST WINTER--CONTINUED												
INSUFFICIENT HEAT--CONTINUED												
HOUSING UNIT UNCOMFORTABLY COLD:												
OWNER OCCUPIED	49 790	2 047	5 577	4 151	6 863	6 591	6 355	9 219	5 670	2 301	1 016	19700
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	1 686	4 708	3 633	6 175	6 090	5 955	8 801	5 497	2 251	993	20500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	360	870	518	688	501	401	419	173	50	23	11800
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	3 348	290	701	421	599	424	341	359	152	45	16	12200
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	399	56	130	65	50	40	29	20	7	-	2	7600
NOT REPORTED	256	14	38	33	39	37	31	39	14	5	6	15500
RENTER OCCUPIED	19 547	1 838	4 838	2 677	3 865	2 601	1 604	1 416	481	160	67	10500
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	1 507	4 221	2 392	3 525	2 435	1 527	1 332	462	156	65	11000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	330	617	284	340	165	76	84	19	4	2	7200
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 442	237	449	222	253	133	63	65	14	4	2	7500
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	359	74	130	46	70	23	11	5	1	-	-	6300
NOT REPORTED	121	20	38	16	17	9	2	15	4	-	-	7500
ALL OCCUPIED HOUSING UNITS	80 072	4 903	12 229	8 230	12 771	10 649	8 969	11 798	6 700	2 652	1 171	15900
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	52 516	2 155	5 750	4 367	7 217	6 977	6 707	9 814	6 002	2 445	1 082	19800
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 461	169	421	283	427	346	301	297	148	49	20	14200
WITH SELECTED HEATING EQUIPMENT[2]	50 055	1 986	5 329	4 084	6 790	6 631	6 405	9 517	5 854	2 397	1 062	20200
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	45 820	1 861	5 031	3 836	6 216	6 057	5 787	8 608	5 294	2 151	979	19900
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	4 116	113	284	237	563	558	607	882	550	242	81	22500
SOLAR HEATING EQUIPMENT	54	1	2	2	9	2	9	18	6	2	3	25900
STOVE, BURNING WOOD OR COAL	1 441	37	77	69	174	209	236	338	204	76	21	23300
FIREPLACE, BURNING WOOD OR COAL	602	12	29	18	52	74	99	150	103	48	19	26200
PORTABLE ELECTRIC HEATER	1 460	39	143	109	249	199	171	274	166	80	30	19800
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	308	14	24	24	53	48	47	51	24	18	5	19000
OTHER	400	13	15	24	42	41	60	94	68	30	12	25300
NOT REPORTED	119	12	14	11	11	16	12	27	10	4	3	18800
RENTER OCCUPIED	27 556	2 748	6 479	3 862	5 553	3 672	2 263	1 984	699	207	88	10600
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 278	236	357	173	248	132	53	60	11	7	2	7800
WITH SELECTED HEATING EQUIPMENT[2]	26 278	2 512	6 123	3 690	5 305	3 540	2 210	1 924	688	200	86	10800
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 837	2 386	5 779	3 476	4 982	3 369	2 115	1 812	649	191	80	10800
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 358	111	327	209	302	169	90	103	32	8	6	10500
SOLAR HEATING EQUIPMENT	5	2	1	-	1	1	-	1	-	-	-	...
STOVE, BURNING WOOD OR COAL	117	10	16	18	29	20	10	12	1	-	-	12500
FIREPLACE, BURNING WOOD OR COAL	40	2	5	2	6	11	3	8	5	-	-	17900
PORTABLE ELECTRIC HEATER	1 034	91	271	168	224	115	60	67	24	8	6	9800
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	102	10	18	11	26	19	12	7	-	-	-	12400
OTHER	88	6	24	13	17	5	6	14	2	-	-	10200
NOT REPORTED	83	15	17	5	21	2	5	10	7	2	-	11100
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
OWNER OCCUPIED	51 627	1 999	5 474	4 249	7 089	6 896	6 667	9 771	5 972	2 434	1 076	20100
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	50 973	1 970	5 392	4 206	7 019	6 823	6 600	9 643	5 884	2 382	1 055	20100
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	267	5	23	12	23	26	36	45	50	33	14	27100
NOT REPORTED	387	25	60	30	48	48	31	83	38	18	6	18300
RENTER OCCUPIED	26 776	2 540	6 168	3 747	5 475	3 639	2 250	1 970	694	207	86	10900
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26 453	2 504	6 092	3 696	5 420	3 593	2 220	1 954	682	205	85	10900
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	86	6	13	15	18	15	13	4	2	-	-	12500
NOT REPORTED	237	30	62	36	37	31	16	13	9	2	2	9200
AIR CONDITIONING												
OWNER OCCUPIED	52 516	2 155	5 750	4 367	7 217	6 977	6 707	9 814	6 002	2 445	1 082	19800
WITH AIR CONDITIONING	32 432	1 151	2 846	2 425	4 254	4 296	4 210	6 548	4 116	1 753	832	21500
ROOM UNITS	16 686	640	1 960	1 561	2 572	2 531	2 177	2 924	1 561	553	207	18200
1	10 301	450	1 465	1 099	1 706	1 608	1 277	1 576	796	245	80	16300
2	4 532	144	404	340	664	696	664	929	478	158	55	20100
3	1 317	32	71	87	155	177	156	319	192	87	41	24400
4	369	12	15	25	38	34	61	76	65	27	16	24900
5 OR MORE	167	3	5	10	9	16	19	24	30	36	15	33900
CENTRAL SYSTEM	15 746	511	886	864	1 682	1 766	2 033	3 624	2 555	1 199	625	25400
WITH NO AIR CONDITIONING	20 084	1 004	2 904	1 942	2 963	2 680	2 496	3 266	1 885	693	250	17300
RENTER OCCUPIED	27 556	2 748	6 479	3 862	5 553	3 672	2 263	1 984	699	207	88	10600
WITH AIR CONDITIONING	13 416	963	2 370	1 707	2 874	2 120	1 387	1 312	478	153	52	12900
ROOM UNITS	8 174	621	1 658	1 053	1 750	1 268	797	671	231	91	35	12200
1	6 289	512	1 372	838	1 403	949	564	452	138	45	17	11500
2	1 552	85	234	188	291	269	196	172	77	32	8	14600
3	240	17	28	16	37	39	29	43	11	14	6	17900
4	61	4	17	6	12	11	3	4	2	-	2	11300
5 OR MORE	31	3	7	5	7	-	5	-	3	-	2	...
CENTRAL SYSTEM	5 242	342	712	654	1 124	853	589	641	247	62	17	14100
WITH NO AIR CONDITIONING	14 140	1 785	4 109	2 155	2 680	1 552	876	672	221	54	37	8600

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
OWNER OCCUPIED	52 516	2 155	5 750	4 367	7 217	6 977	6 707	9 814	6 002	2 445	1 082	19800
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	15 746	511	886	864	1 682	1 766	2 033	3 624	2 555	1 199	625	25400
WITH SUPPLEMENTAL EQUIPMENT USED	8 107	222	383	428	837	862	1 079	1 934	1 379	660	325	26300
INDIVIDUAL ROOM AIR CONDITIONING UNIT	405	9	17	19	41	32	43	108	68	48	20	28900
AWNINGS	1 050	23	63	76	164	131	135	218	133	73	33	22500
DEHUMIDIFIER	1 463	50	57	60	137	121	160	329	293	183	73	29500
CEILING FAN	1 249	22	50	50	86	117	172	329	246	95	81	28900
ATTIC FAN	2 238	44	72	80	148	200	316	569	456	237	116	29600
WINDOW FAN	586	15	19	33	38	84	107	126	114	35	16	24900
PORTABLE FAN	3 926	95	205	239	494	459	520	948	613	255	99	24500
WITH NO SUPPLEMENTAL EQUIPMENT USED	7 334	276	484	417	803	868	906	1 632	1 140	518	289	24500
NOT REPORTED	305	14	19	19	42	36	48	59	36	21	11	22400
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	36 770	1 644	4 864	3 503	5 535	5 211	4 673	6 190	3 447	1 246	457	17700
RENTER OCCUPIED	27 556	2 748	6 479	3 862	5 553	3 672	2 263	1 984	699	207	88	10600
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 242	342	712	654	1 124	853	589	641	247	62	17	14100
WITH SUPPLEMENTAL EQUIPMENT USED	1 373	71	173	176	297	235	136	190	80	11	4	14500
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	8	8	6	19	8	7	8	2	2	1	13300
AWNINGS	64	4	12	11	5	8	4	14	7	2	-	15800
DEHUMIDIFIER	52	1	4	4	10	8	2	14	9	1	-	19400
CEILING FAN	56	1	5	8	11	13	3	7	7	-	1	15900
ATTIC FAN	81	9	10	5	14	10	6	19	7	2	-	16800
WINDOW FAN	163	7	18	18	48	20	17	29	6	2	-	14200
PORTABLE FAN	1 025	46	129	137	211	196	108	134	56	5	2	14700
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 757	264	521	464	804	600	435	441	167	50	12	13900
NOT REPORTED	112	6	18	15	23	18	18	11	-	1	2	13600
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	22 314	2 406	5 767	3 208	4 429	2 819	1 673	1 343	452	145	71	9800
ALL OCCUPIED HOUSING UNITS	80 072	4 903	12 229	8 230	12 771	10 649	8 969	11 798	6 700	2 652	1 171	15900
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	58 658	2 982	7 328	5 300	8 599	7 755	7 154	10 060	6 019	2 413	1 049	18300
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	49 372	2 023	5 286	4 008	6 751	6 510	6 345	9 337	5 744	2 345	1 024	20100
ALL WINDOWS COVERED	27 736	1 039	2 476	2 046	3 563	3 678	3 786	5 666	3 509	1 406	567	21400
SOME WINDOWS COVERED	5 545	240	672	493	785	781	680	940	575	263	116	18700
NO WINDOWS COVERED	15 920	734	2 113	1 455	2 378	2 037	1 857	2 699	1 645	664	337	18100
NOT REPORTED	171	9	24	13	25	15	21	32	15	12	4	19500
RENTER OCCUPIED	9 286	959	2 042	1 292	1 848	1 245	809	724	274	68	25	10900
ALL WINDOWS COVERED	2 913	249	550	343	624	437	307	262	110	27	4	12500
SOME WINDOWS COVERED	1 026	94	217	151	208	139	104	84	21	4	6	11200
NO WINDOWS COVERED	4 952	578	1 175	730	936	628	377	349	134	31	14	10000
NOT REPORTED	396	38	100	68	80	41	21	28	9	7	2	9600
STORM DOORS												
OWNER OCCUPIED	49 372	2 023	5 286	4 008	6 751	6 510	6 345	9 337	5 744	2 345	1 024	20100
ALL DOORS COVERED	25 312	980	2 471	1 995	3 419	3 461	3 433	4 986	3 034	1 121	412	20500
SOME DOORS COVERED	7 017	248	688	575	964	1 021	970	1 333	736	322	161	20100
NO DOORS COVERED	16 854	782	2 102	1 427	2 342	2 010	1 917	2 980	1 958	891	446	19400
NOT REPORTED	189	14	24	12	27	18	25	37	16	11	6	20000
RENTER OCCUPIED	9 286	959	2 042	1 292	1 848	1 245	809	724	274	68	25	10900
ALL DOORS COVERED	2 492	222	479	280	539	367	269	230	83	19	4	12500
SOME DOORS COVERED	978	102	178	138	196	141	106	79	29	7	2	11800
NO DOORS COVERED	5 420	597	1 286	806	1 034	691	413	387	154	36	18	10100
NOT REPORTED	396	38	99	68	80	45	21	28	8	7	2	9700
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	49 372	2 023	5 286	4 008	6 751	6 510	6 345	9 337	5 744	2 345	1 024	20100
YES	41 331	1 415	3 693	3 070	5 472	5 438	5 555	8 364	5 242	2 140	941	21400
NO	6 165	464	1 280	742	982	816	590	720	370	138	63	13000
DON'T KNOW	1 663	129	282	180	269	235	169	217	113	54	15	14500
NOT REPORTED	214	15	31	15	28	21	31	35	19	13	5	19200
RENTER OCCUPIED	9 286	959	2 042	1 292	1 848	1 245	809	724	274	68	25	10900
YES	4 107	340	732	493	846	616	453	410	168	33	16	12900
NO	2 663	373	749	397	484	293	164	139	45	16	2	8600
DON'T KNOW	2 113	206	456	334	441	294	168	146	53	10	5	10700
NOT REPORTED	402	40	105	68	77	42	23	29	8	8	2	9500
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	49 372	2 023	5 286	4 008	6 751	6 510	6 345	9 337	5 744	2 345	1 024	20100
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	15 920	734	2 113	1 455	2 378	2 037	1 857	2 699	1 645	664	337	18100
SOME OR ALL WINDOWS COVERED	33 280	1 280	3 148	2 539	4 348	4 458	4 466	6 605	4 084	1 669	683	21000
NONE INSTALLED	29 349	1 127	2 786	2 271	3 839	3 925	3 932	5 813	3 588	1 474	595	20900
SOME OR ALL INSTALLED	3 809	143	345	260	493	518	523	777	474	191	86	21400
NOT REPORTED	123	10	16	8	17	16	11	16	22	4	2	18200
NOT REPORTED	171	9	24	13	25	15	21	32	15	12	4	19500
STORM DOORS:												
NO DOORS COVERED	16 854	782	2 102	1 427	2 342	2 010	1 917	2 980	1 958	891	446	19400
SOME OR ALL DOORS COVERED	32 329	1 228	3 159	2 569	4 383	4 482	4 403	6 320	3 770	1 443	572	20400
NONE INSTALLED	29 706	1 124	2 951	2 422	4 039	4 117	4 067	5 765	3 388	1 307	528	20200
SOME OR ALL INSTALLED	2 390	90	179	126	306	340	308	524	348	130	39	22500
NOT REPORTED	233	13	30	22	38	25	29	30	34	7	6	17900
NOT REPORTED	189	14	24	12	27	18	25	37	16	11	6	20000

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	6 165	464	1 280	742	982	816	590	720	370	138	63	13000
WITH ATTIC OR ROOF INSULATION	41 331	1 415	3 693	3 070	5 472	5 438	5 555	8 364	5 242	2 140	941	21400
NONE ADDED OR INSTALLED	37 302	1 289	3 401	2 866	4 982	4 935	4 970	7 432	4 635	1 939	854	21200
SOME OR ALL ADDED OR INSTALLED	3 756	111	270	189	452	472	553	871	578	189	71	23500
NOT REPORTED	272	16	23	14	38	32	32	62	29	12	15	22100
DON'T KNOW	1 663	129	282	180	269	235	169	217	113	54	15	14500
NOT REPORTED	214	15	31	15	28	21	31	35	19	13	5	19200
WALL INSULATION:												
NONE ADDED OR INSTALLED	46 356	1 906	5 113	3 859	6 409	6 099	5 873	8 644	5 303	2 175	974	19800
SOME OR ALL ADDED OR INSTALLED	2 736	99	142	129	307	385	431	633	412	154	44	23600
NOT REPORTED	280	19	31	19	35	27	41	59	29	15	6	21100
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	39 340	1 741	4 728	3 500	5 680	5 170	4 790	6 880	4 236	1 809	806	18900
SOME OR ALL ADDED OR INSTALLED	9 765	266	529	489	1 037	1 315	1 514	2 400	1 484	521	211	24100
NOT REPORTED	267	16	28	19	34	25	41	57	24	15	7	21400
OTHER INSULATION:												
NONE ADDED OR INSTALLED	45 213	1 917	5 057	3 735	6 294	5 925	5 698	8 401	5 141	2 112	932	19700
SOME OR ALL ADDED OR INSTALLED	3 922	92	201	259	426	561	615	883	578	221	86	23400
NOT REPORTED	237	14	27	14	32	24	31	52	25	13	6	21200
RENTER OCCUPIED	9 286	959	2 042	1 292	1 848	1 245	809	724	274	68	25	10900
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	4 952	578	1 175	730	936	628	377	349	134	31	14	10000
SOME OR ALL WINDOWS COVERED	3 939	343	766	495	832	576	411	346	131	31	10	12200
NONE INSTALLED	3 296	298	617	388	678	495	358	308	116	27	10	12500
SOME OR ALL INSTALLED	597	42	139	102	143	74	47	35	13	4	-	10600
NOT REPORTED	46	2	10	5	11	6	6	3	2	-	-	12700
NOT REPORTED	396	38	100	68	80	41	21	28	9	7	2	9600
STORM DOORS:												
NO DOORS COVERED	5 420	597	1 286	806	1 034	691	413	387	154	36	18	10100
SOME OR ALL DOORS COVERED	3 470	324	657	418	734	509	375	309	112	26	6	12300
NONE INSTALLED	3 173	296	607	376	651	483	341	284	105	24	6	12400
SOME OR ALL INSTALLED	213	19	35	33	57	16	24	20	8	2	-	11800
NOT REPORTED	85	9	15	10	27	10	9	5	-	-	-	11400
NOT REPORTED	396	38	99	68	80	45	21	28	8	7	2	9700
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	2 663	373	749	397	484	293	164	139	45	16	2	8600
WITH ATTIC OR ROOF INSULATION	4 107	340	732	493	846	616	453	410	168	33	16	12900
NONE ADDED OR INSTALLED	3 760	306	677	448	769	564	420	376	152	32	15	12900
SOME OR ALL ADDED OR INSTALLED	294	29	45	40	67	44	27	29	11	1	1	12400
NOT REPORTED	53	4	9	6	10	9	6	5	5	-	-	13700
DON'T KNOW	2 113	206	456	334	441	294	168	146	53	10	5	10700
NOT REPORTED	402	40	105	68	77	42	23	29	8	8	2	9500
WALL INSULATION:												
NONE ADDED OR INSTALLED	8 537	894	1 879	1 168	1 699	1 152	735	672	255	58	23	11000
SOME OR ALL ADDED OR INSTALLED	185	14	32	23	40	26	27	19	5	-	-	12900
NOT REPORTED	565	51	131	101	109	67	48	33	14	10	2	10000
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	7 868	843	1 772	1 092	1 534	1 041	677	600	237	53	20	10700
SOME OR ALL ADDED OR INSTALLED	849	63	140	99	204	136	85	91	23	5	3	13000
NOT REPORTED	570	53	130	101	110	69	48	33	14	10	2	10000
OTHER INSULATION:												
NONE ADDED OR INSTALLED	8 419	883	1 860	1 151	1 657	1 132	738	661	254	58	23	11000
SOME OR ALL ADDED OR INSTALLED	307	26	50	42	82	48	25	29	6	-	-	12200
NOT REPORTED	560	50	132	100	108	65	46	34	14	10	2	10000
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	49 372	2 023	5 286	4 008	6 751	6 510	6 345	9 337	5 744	2 345	1 024	20100
NO INSULATION ADDED OR INSTALLED	32 707	1 506	4 122	2 980	4 783	4 299	3 870	5 595	3 391	1 484	676	18400
WITH INSULATION ADDED OR INSTALLED	15 820	473	1 065	953	1 850	2 102	2 367	3 591	2 269	827	325	23100
LESS THAN $50	7 094	216	563	487	831	964	1 135	1 605	922	299	91	22200
$50 TO $99	1 760	45	109	123	211	257	249	418	233	79	35	22700
$100 TO $249	2 312	54	123	112	283	316	365	503	356	146	56	23700
$250 TO $499	1 667	44	86	81	190	198	224	438	275	86	45	25200
$500 TO $999	943	21	57	50	107	125	134	194	158	72	27	24200
$1,000 OR MORE	1 074	42	52	50	127	151	134	235	168	72	44	24300
DON'T KNOW	586	37	62	37	50	59	75	114	88	44	21	23300
NOT REPORTED	383	14	34	15	52	32	51	85	68	28	6	24500
MEDIAN	59	50-	50-	50-	60	58	50-	61	78	99	160	...
NOT REPORTED OR DON'T KNOW	845	45	98	75	118	110	108	150	85	35	23	19000
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 315	58	149	127	189	178	165	238	125	60	26	18800
LESS THAN $50	598	38	91	77	102	76	89	81	31	12	2	14600
$50 TO $99	110	7	9	10	11	20	13	26	7	5	3	19600
$100 TO $249	169	2	14	13	17	27	28	29	30	9	3	22300
$250 TO $499	135	3	10	12	18	21	9	32	16	11	4	22400
$500 TO $999	105	2	10	8	15	16	9	21	13	7	3	20700
$1,000 OR MORE	74	1	3	-	10	10	7	18	11	7	8	28500
DON'T KNOW	40	2	5	5	4	5	2	9	5	3	-	19300
NOT REPORTED	84	2	9	3	13	3	9	22	12	7	3	26200
MEDIAN	50-	50-	50-	50-	50-	72	50-	92	182	244	...	...

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ONLY INSTALLED STORM DOORS	815	25	63	59	110	121	109	177	100	41	9	21300
LESS THAN $50	111	6	10	10	20	18	11	23	12	1	-	17600
$50 TO $99	270	9	23	19	34	43	48	58	26	10	1	20700
$100 TO $249	266	4	18	22	38	44	28	58	32	16	7	21200
$250 TO $499	73	1	2	2	8	7	7	20	20	6	1	29700
$500 TO $999	17	-	3	-	2	-	5	6	1	-	-	...
$1,000 OR MORE	4	-	-	-	-	1	-	3	-	1	-	...
DON'T KNOW	17	1	1	3	1	4	2	2	2	3	1	...
NOT REPORTED	56	5	4	3	7	5	9	9	9	5	-	22000
MEDIAN	97	...	89	92	94	94	89	107	133	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	1 537	62	137	91	208	161	223	325	224	76	31	22500
LESS THAN $50	189	8	31	13	24	19	29	28	30	5	1	19800
$50 TO $99	192	7	18	13	20	24	25	45	27	13	1	22900
$100 TO $249	450	15	30	23	56	58	81	85	68	27	8	22800
$250 TO $499	310	15	20	11	42	25	45	81	54	7	9	24500
$500 TO $999	144	7	10	13	25	10	11	27	22	14	4	23000
$1,000 OR MORE	90	1	8	7	14	15	9	22	7	3	5	20400
DON'T KNOW	86	7	12	9	16	5	10	15	6	3	2	14800
NOT REPORTED	77	4	8	3	10	5	12	21	10	4	-	23600
MEDIAN	202	216	147	192	225	183	185	224	203	190	...	...
ALL OCCUPIED HOUSING UNITS	80 072	4 903	12 229	8 230	12 771	10 649	8 969	11 798	6 700	2 652	1 171	15900
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	36 185	894	1 244	1 615	4 166	5 231	5 646	8 727	5 457	2 231	975	24400
DRIVES SELF	26 067	595	799	1 087	2 974	3 723	4 101	6 298	4 052	1 661	778	24700
CARPOOL	6 358	119	184	273	682	970	1 068	1 726	942	309	86	24500
MASS TRANSPORTATION	1 248	44	49	74	120	162	130	278	209	131	52	26700
BICYCLE, MOTORCYCLE, OR MOPED	507	2	11	17	56	95	99	137	64	16	9	23600
TAXICAB	25	-	5	4	2	3	3	3	-	-	4	...
WALKS ONLY	791	35	66	58	124	138	110	135	74	37	13	19100
OTHER MEANS	85	2	4	6	9	13	12	18	13	3	3	23300
WORKS AT HOME	1 103	97	126	96	197	127	122	130	103	73	32	16400
RENTER OCCUPIED	17 885	893	2 152	2 524	4 489	3 155	2 028	1 758	620	180	84	13800
DRIVES SELF	10 585	429	1 038	1 389	2 715	1 973	1 311	1 156	405	117	51	14500
CARPOOL	3 049	154	335	417	763	570	371	324	88	17	11	14100
MASS TRANSPORTATION	2 058	118	324	362	529	309	163	158	63	24	8	12100
BICYCLE, MOTORCYCLE, OR MOPED	418	25	64	57	92	80	59	22	17	-	2	13400
TAXICAB	71	9	18	14	12	7	5	3	-	2	2	8700
WALKS ONLY	1 279	116	276	221	289	172	84	73	28	12	8	10500
OTHER MEANS	40	2	7	6	10	2	5	2	2	2	2	12200
WORKS AT HOME	384	41	90	58	78	42	30	20	18	6	2	10200
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]												
OWNER OCCUPIED	36 185	894	1 244	1 615	4 166	5 231	5 646	8 727	5 457	2 231	975	24400
HOUSEHOLDER DRIVES ALONE	26 067	595	799	1 087	2 974	3 723	4 101	6 298	4 052	1 661	778	24700
IRREGULAR OR UNUSUAL WORK HOURS	8 503	188	238	286	879	1 083	1 388	2 164	1 362	578	338	25900
IRREGULAR WORK LOCATION	2 349	54	52	92	251	331	338	561	415	185	71	26000
CAR NEEDED FOR WORK OR ERRANDS	4 075	87	127	132	352	485	589	997	771	359	176	27700
DOESN'T KNOW ANYONE TO RIDE WITH	5 840	139	229	363	833	943	966	1 316	728	241	81	22100
LIKES PRIVACY	1 022	33	25	40	130	151	151	248	152	67	26	24400
OUT OF THE WAY TO PICK UP OTHERS	1 551	30	42	57	209	283	260	369	223	60	17	23000
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	242	7	1	8	25	46	47	68	34	2	3	23600
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	617	13	14	28	63	82	114	139	107	39	18	24700
DOESN'T TRUST OTHERS DRIVING	38	1	4	1	8	10	4	4	3	2	-	17200
SOME OTHER REASON	1 748	37	60	76	209	301	235	415	247	124	45	24100
NOT REPORTED	83	6	8	2	15	8	9	17	9	5	4	21500
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	10 118	299	445	528	1 191	1 508	1 545	2 429	1 405	570	198	23500
RENTER OCCUPIED	17 885	893	2 152	2 524	4 489	3 155	2 028	1 758	620	180	84	13800
HOUSEHOLDER DRIVES ALONE	10 585	429	1 038	1 389	2 715	1 973	1 311	1 156	405	117	51	14500
IRREGULAR OR UNUSUAL WORK HOURS	3 151	108	290	337	779	610	440	385	150	36	15	15500
IRREGULAR WORK LOCATION	731	27	74	82	201	117	93	102	29	5	2	14500
CAR NEEDED FOR WORK OR ERRANDS	1 393	51	112	176	300	254	191	187	74	36	14	16100
DOESN'T KNOW ANYONE TO RIDE WITH	2 808	129	350	471	734	472	303	231	78	26	12	13100
LIKES PRIVACY	587	23	46	74	156	131	70	69	13	3	2	14800
OUT OF THE WAY TO PICK UP OTHERS	644	26	66	95	190	141	58	49	18	-	2	13600
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	143	3	4	23	48	19	25	17	3	-	-	14300
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	277	8	18	31	80	64	43	27	6	1	-	15100
DOESN'T TRUST OTHERS DRIVING	27	4	2	3	6	2	3	2	2	3	-	...
SOME OTHER REASON	765	45	73	91	206	158	74	79	28	7	4	14200
NOT REPORTED	60	6	2	7	16	7	11	8	3	-	-	14800
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	7 300	464	1 115	1 135	1 774	1 182	717	602	215	63	33	12600

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	36 185	894	1 244	1 615	4 166	5 231	5 646	8 727	5 457	2 231	975	24400
LESS THAN 1 MILE	2 270	73	156	150	356	370	329	431	262	101	42	20400
1 TO 4 MILES	7 236	169	281	378	938	1 109	1 181	1 689	976	362	154	23100
5 TO 9 MILES	6 879	140	180	338	825	1 100	1 069	1 669	999	388	171	24000
10 TO 19 MILES	8 025	153	190	270	813	1 191	1 337	2 084	1 262	514	211	25300
20 TO 29 MILES	3 139	73	70	106	302	366	494	884	554	212	78	26800
30 TO 49 MILES	1 973	43	39	58	179	268	350	530	340	115	50	25900
50 MILES OR MORE	820	11	19	24	79	105	135	239	133	52	24	26600
WORKS AT HOME	1 103	97	126	96	197	127	122	130	103	73	32	16400
NO FIXED PLACE OF WORK	4 741	136	183	195	475	595	629	1 072	828	414	214	26500
MEDIAN	9.1	8.2	5.8	7.0	7.7	8.5	9.4	9.9	10.2	10.4	9.9	...
RENTER OCCUPIED	17 885	893	2 152	2 524	4 489	3 155	2 028	1 758	620	180	84	13800
LESS THAN 1 MILE	1 996	147	363	344	501	294	138	149	35	14	11	11400
1 TO 4 MILES	4 697	247	670	728	1 160	838	493	377	131	25	29	13000
5 TO 9 MILES	3 694	158	388	527	1 049	643	424	330	135	31	10	13700
10 TO 19 MILES	3 437	118	312	457	902	639	440	379	138	44	9	14600
20 TO 29 MILES	1 149	44	81	132	271	251	156	154	45	11	2	15900
30 TO 49 MILES	570	35	33	55	147	106	90	73	21	9	2	15700
50 MILES OR MORE	238	8	17	27	56	49	25	44	7	-	4	16100
WORKS AT HOME	384	41	90	58	78	42	30	20	18	6	2	10200
NO FIXED PLACE OF WORK	1 720	97	198	197	326	294	233	233	88	39	15	15700
MEDIAN	6.6	4.8	4.4	5.6	6.8	7.2	8.0	8.4	8.3	9.6	4.1	...
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	36 185	894	1 244	1 615	4 166	5 231	5 646	8 727	5 457	2 231	975	24400
LESS THAN 15 MINUTES	10 658	244	432	539	1 396	1 643	1 701	2 456	1 444	557	246	23200
15 TO 29 MINUTES	11 075	242	306	465	1 230	1 735	1 789	2 797	1 665	596	250	24400
30 TO 44 MINUTES	4 884	85	102	199	482	667	795	1 301	788	331	135	25900
45 TO 59 MINUTES	1 889	45	54	68	193	242	323	494	300	125	44	25400
1 HOUR TO 1 HOUR AND 29 MINUTES	1 193	31	27	36	122	144	190	304	216	83	39	26500
1 HOUR AND 30 MINUTES OR MORE	644	14	14	17	70	78	96	173	114	52	16	26900
WORKS AT HOME	1 103	97	126	96	197	127	122	130	103	73	32	16400
NO FIXED PLACE OF WORK	4 741	136	183	195	475	595	629	1 072	828	414	214	26500
MEDIAN	21.1	20.3	16.8	19.0	19.3	20.3	21.3	22.0	22.4	22.9	22.1	...
RENTER OCCUPIED	17 885	893	2 152	2 524	4 489	3 155	2 028	1 758	620	180	84	13800
LESS THAN 15 MINUTES	6 042	308	844	921	1 498	1 095	640	517	159	31	29	13200
15 TO 29 MINUTES	5 674	259	612	800	1 550	983	644	536	213	54	23	13800
30 TO 44 MINUTES	2 267	94	227	316	575	421	260	245	92	34	4	14300
45 TO 59 MINUTES	861	33	90	105	218	158	124	90	30	8	6	14600
1 HOUR TO 1 HOUR AND 29 MINUTES	658	39	61	91	177	116	77	74	13	5	4	13900
1 HOUR AND 30 MINUTES OR MORE	279	23	30	37	68	48	19	43	7	3	1	13700
WORKS AT HOME	384	41	90	58	78	42	30	20	18	6	2	10200
NO FIXED PLACE OF WORK	1 720	97	198	197	326	294	233	233	88	39	15	15700
MEDIAN	19.9	19.0	17.1	19.0	20.3	19.8	20.6	21.6	21.9	25.2	17.9	...

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE A-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	41 945	850	2 547	4 389	6 156	6 387	4 993	6 399	5 454	4 041	729	51300
HOUSE HEATING FUEL												
UTILITY GAS	25 722	492	1 615	2 720	3 663	3 791	2 891	3 815	3 492	2 736	505	52000
BOTTLED, TANK, OR LP GAS	1 560	134	262	282	271	208	126	106	103	59	9	33800
FUEL OIL	7 024	100	373	785	1 134	1 158	964	1 142	785	502	80	49700
KEROSENE, ETC	146	20	39	32	25	13	9	6	1	1	2	24400
ELECTRICITY	6 555	30	146	430	900	1 108	913	1 246	1 014	656	112	57300
COAL OR COKE	146	12	32	25	35	19	8	9	6	1	-	31100
WOOD	594	53	72	94	109	79	71	66	39	9	1	37100
SOLAR HEAT	9	-	-	-	-	-	2	-	1	6	1	...
OTHER FUEL	10	2	1	1	1	1	2	2	1	-	-	...
NONE	180	7	7	20	17	11	7	7	13	70	20	100900
WATER HEATING FUEL[2]												
UTILITY GAS	24 321	388	1 446	2 445	3 399	3 579	2 770	3 689	3 423	2 679	502	53300
BOTTLED, TANK, OR LP GAS	1 245	75	192	215	226	182	112	110	71	51	11	36200
FUEL OIL	2 574	8	63	140	348	455	391	491	364	274	39	57000
KEROSENE, ETC	7	-	-	-	2	-	2	1	2	1	-	...
ELECTRICITY	13 172	202	710	1 484	2 132	2 131	1 692	2 078	1 559	1 015	168	49700
COAL OR COKE	20	2	3	6	3	-	2	2	1	-	-	...
WOOD	31	1	1	3	3	8	4	3	6	2	-	...
SOLAR HEAT	48	-	-	-	1	-	5	7	13	15	6	95900
OTHER FUEL	3	-	-	-	1	2	-	-	1	-	-	...
NONE	49	13	12	11	6	2	3	2	-	-	1	19900
COOKING FUEL												
UTILITY GAS	15 260	424	1 310	2 023	2 464	2 205	1 608	1 964	1 849	1 206	208	46400
BOTTLED, TANK, OR LP GAS	1 902	172	327	352	345	266	136	150	101	48	4	32900
FUEL OIL	39	1	7	2	7	6	6	7	3	1	-	45300
KEROSENE, ETC	3	-	-	-	-	1	-	-	2	-	-	...
ELECTRICITY	24 669	236	890	1 999	3 333	3 901	3 235	4 278	3 497	2 783	517	56100
COAL OR COKE	5	3	-	2	1	-	-	-	-	-	-	...
WOOD	51	13	10	10	4	7	5	1	1	2	-	23400
OTHER FUEL	7	-	-	1	1	1	2	1	1	2	-	...
NONE	10	2	4	2	2	-	2	-	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	41 914	840	2 545	4 387	6 154	6 384	4 992	6 398	5 450	4 035	729	51300
LESS THAN $10	307	35	40	45	42	35	16	50	18	23	3	38000
$10 TO $19	3 355	189	420	529	493	441	321	378	339	211	34	41000
$20 TO $29	7 112	219	630	1 009	1 189	1 087	814	857	738	502	67	44700
$30 TO $39	7 808	168	503	891	1 294	1 286	933	1 166	912	564	91	48100
$40 TO $49	6 085	89	356	632	926	996	738	956	781	535	76	50600
$50 TO $59	4 975	51	257	471	735	769	635	802	708	474	72	53200
$60 TO $79	6 118	46	202	464	848	992	832	1 075	854	703	103	56100
$80 TO $99	2 555	20	65	188	331	354	339	457	406	350	46	59500
$100 TO $149	2 748	18	56	131	225	336	312	533	529	462	145	68300
$150 OR MORE	850	5	15	25	71	89	53	123	166	211	92	81600
MEDIAN	44	28	33	36	41	43	45	47	48	53	64	...
NO ELECTRICITY USED	32	10	2	2	2	3	1	2	3	6	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	31 088	714	2 173	3 455	4 570	4 564	3 489	4 481	4 009	3 061	573	50200
LESS THAN $10	1 741	58	146	195	274	255	195	239	204	147	29	47800
$10 TO $14	2 216	55	160	280	285	289	218	288	371	238	31	51800
$15 TO $19	2 345	72	179	284	323	292	227	307	318	280	63	51000
$20 TO $24	2 964	85	271	362	391	377	271	380	405	368	53	49900
$25 TO $29	2 675	72	235	287	426	394	306	345	300	252	58	48100
$30 TO $39	5 587	110	377	701	962	936	676	763	584	399	79	46900
$40 TO $49	4 657	77	283	471	740	783	585	730	608	329	51	49700
$50 TO $69	5 933	117	352	600	836	893	690	993	795	581	76	52400
$70 TO $99	2 089	39	112	214	247	239	237	311	318	303	70	58200
$100 OR MORE	881	30	59	61	86	106	85	123	106	162	62	61600
MEDIAN	36	31	32	34	35	36	37	38	36	36	-	...
NO GAS USED	10 857	136	374	934	1 586	1 823	1 504	1 919	1 445	980	156	53800
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	10 622	218	587	1 073	1 453	1 535	1 358	1 743	1 433	1 051	171	53300
LESS THAN $100	1 787	44	66	98	134	200	230	350	355	266	43	65200
$100 TO $199	1 208	21	68	95	134	139	132	186	202	202	30	61200
$200 TO $299	703	26	60	102	92	83	84	86	100	67	4	48700
$300 TO $399	697	33	64	108	124	127	67	66	71	29	8	41500
$400 TO $499	733	26	58	136	145	115	85	98	32	32	5	40100
$500 TO $599	802	15	71	127	182	117	96	107	55	26	5	40500
$600 TO $699	837	17	58	94	125	139	109	148	87	50	11	49000
$700 TO $799	641	10	35	72	106	111	91	100	77	33	3	48600
$800 OR MORE	3 214	26	108	239	411	504	465	602	453	345	62	56900
MEDIAN	523	356	462	496	553	587	584	579	383	285	402	...
FUELS NOT USED OR FREE	31 323	631	1 960	3 316	4 703	4 852	3 635	4 656	4 021	2 990	556	50500
HEATING EQUIPMENT												
WARM-AIR FURNACE	25 813	220	977	2 250	3 768	4 129	3 361	4 220	3 593	2 760	535	54600
HEAT PUMP	1 136	1	5	12	63	131	131	264	267	226	36	72800
STEAM OR HOT WATER	5 209	32	170	366	685	870	712	977	759	552	86	56800
BUILT-IN ELECTRIC UNITS	2 400	12	75	251	448	482	324	387	276	127	19	48600
FLOOR, WALL, OR PIPELESS FURNACE	2 901	48	316	566	515	331	195	284	386	238	23	40200
ROOM HEATERS WITH FLUE	1 543	214	364	405	234	128	63	66	45	19	3	24800
ROOM HEATERS WITHOUT FLUE	1 345	205	441	295	176	110	36	48	22	11	2	20900
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 419	112	191	223	251	196	164	146	93	38	4	37300
NONE	180	7	7	20	17	11	7	7	13	70	20	100900

[1] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE A-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	41 766	843	2 540	4 369	6 139	6 376	4 986	6 392	5 441	3 971	709	51200
WITH FIREPLACE OR HEATING STOVE	20 603	280	715	1 162	1 775	2 286	2 419	3 821	3 978	3 497	671	66500
IN WORKING ORDER	19 605	248	620	1 020	1 606	2 120	2 304	3 700	3 884	3 442	663	67600
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	15 632	142	351	660	1 196	1 635	1 897	3 163	3 310	2 778	500	69200
ALL PURCHASED	5 070	57	107	192	301	480	538	1 007	1 161	1 035	193	72800
SOME OR NONE PURCHASED	10 341	82	237	457	879	1 136	1 326	2 125	2 096	1 705	299	67400
NOT REPORTED	220	4	6	11	16	19	33	31	54	38	8	69900
COAL	161	13	26	34	18	23	14	10	12	7	4	33900
OTHER FUEL	1 645	81	166	200	193	186	136	181	175	234	92	49800
NONE	2 106	10	74	125	189	273	257	327	374	411	66	65700
NOT REPORTED	61	1	2	2	9	2	1	19	12	12	2	71400
NOT IN WORKING ORDER	961	31	93	139	164	165	111	117	86	47	8	43300
NOT REPORTED	37	2	2	3	6	1	4	4	8	7	-	63300
WITHOUT FIREPLACE OR HEATING STOVE	21 073	561	1 825	3 194	4 353	4 078	2 556	2 554	1 448	469	35	41500
NOT REPORTED	90	2	-	13	11	12	12	17	15	5	3	56000
HOUSING UNITS WITH NO HEATING EQUIPMENT	180	7	7	20	17	11	7	7	13	70	20	100900
SPECIFIED OWNER OCCUPIED[1]	41 945	850	2 547	4 389	6 156	6 387	4 993	6 399	5 454	4 041	729	51300
UNITS OCCUPIED LAST WINTER	39 952	822	2 464	4 270	5 930	6 131	4 752	6 037	5 104	3 773	669	50800
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	37 120	512	1 849	3 743	5 505	5 827	4 550	5 851	4 983	3 657	642	52500
NO ADDITIONAL HEAT SOURCE USED	34 322	413	1 611	3 381	5 075	5 402	4 286	5 473	4 663	3 423	596	53000
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 264	69	203	294	347	331	222	307	256	194	42	46600
NOT REPORTED	534	30	34	69	83	94	42	72	64	41	4	45400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 832	310	615	527	424	304	202	186	122	116	27	29300
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	37 120	512	1 849	3 743	5 505	5 827	4 550	5 851	4 983	3 657	642	52500
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	30 036	225	1 035	2 488	4 269	4 895	3 946	5 122	4 299	3 188	570	55300
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 463	259	774	1 184	1 148	823	552	639	601	419	65	38800
1 ROOM	2 020	62	167	278	333	287	241	257	202	167	26	45900
2 ROOMS	1 574	84	221	326	262	188	113	136	128	99	16	35900
3 ROOMS OR MORE	2 869	113	385	580	553	348	198	245	271	153	23	36400
NOT REPORTED	621	28	40	72	89	109	53	90	83	50	7	47500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 832	310	615	527	424	304	202	186	122	116	27	29300
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	37 120	512	1 849	3 743	5 505	5 827	4 550	5 851	4 983	3 657	642	52500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 832	310	615	527	424	304	202	186	122	116	27	29300
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 363	238	491	437	370	265	175	152	109	104	22	30400
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	297	64	89	49	33	17	8	21	7	8	3	19500
NOT REPORTED	173	9	35	40	21	22	19	14	6	4	3	31200
SPECIFIED OWNER OCCUPIED[1]	41 945	850	2 547	4 389	6 156	6 387	4 993	6 399	5 454	4 041	729	51300
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 598	118	199	243	268	207	171	153	106	108	24	38900
WITH SELECTED HEATING EQUIPMENT[3]	40 347	732	2 348	4 145	5 888	6 180	4 822	6 247	5 348	3 933	705	51800
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	36 964	695	2 190	3 849	5 389	5 714	4 364	5 671	4 851	3 598	643	51500
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	3 290	34	157	285	487	456	444	559	480	327	62	55100
SOLAR HEATING EQUIPMENT	46	-	-	2	4	3	9	5	15	8	-	75500
STOVE, BURNING WOOD OR COAL	1 138	9	38	98	175	187	170	204	167	80	11	53700
FIREPLACE, BURNING WOOD OR COAL	500	-	10	23	51	62	66	107	101	72	8	65300
PORTABLE ELECTRIC HEATER	1 133	19	75	113	190	151	128	177	136	117	26	51400
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	257	4	26	34	41	33	36	26	29	21	8	47400
OTHER	338	2	12	25	41	36	48	64	54	46	11	61300
NOT REPORTED	93	3	2	12	12	10	15	16	17	7	-	55800
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	40 836	674	2 395	4 225	6 060	6 292	4 913	6 298	5 340	3 938	701	51600
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	217	-	6	23	14	17	31	26	33	52	15	70100
NOT REPORTED	321	2	15	46	40	46	29	52	53	34	3	53900
AIR CONDITIONING												
WITH AIR CONDITIONING	26 234	301	1 287	2 521	3 889	4 108	3 390	4 245	3 554	2 504	436	53000
ROOM UNITS	13 250	274	1 143	2 039	2 656	2 183	1 537	1 628	1 082	619	88	42300
1	7 944	220	821	1 329	1 651	1 245	880	881	567	303	48	39700
2	3 749	53	259	573	775	695	454	471	292	167	10	43100
3	1 102	2	57	123	191	183	147	182	128	79	11	49700
4	317	-	4	12	30	46	46	69	63	36	11	64500
5 OR MORE	138	-	1	3	8	14	11	24	33	36	8	80700
CENTRAL SYSTEM	12 985	27	144	481	1 233	1 925	1 852	2 617	2 472	1 884	349	64800
WITH NO AIR CONDITIONING	15 711	548	1 260	1 868	2 267	2 279	1 603	2 154	1 900	1 538	293	48400

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	12 985	27	144	481	1 233	1 925	1 852	2 617	2 472	1 884	349	64800
WITH SUPPLEMENTAL EQUIPMENT USED	6 884	14	63	228	612	990	997	1 421	1 361	1 045	154	65700
INDIVIDUAL ROOM AIR CONDITIONING UNIT	353	2	12	18	31	48	43	59	54	68	17	65700
AWNINGS	839	2	6	47	108	150	129	149	140	95	13	58300
DEHUMIDIFIER	1 312	2	7	23	75	185	171	233	325	264	28	72500
CEILING FAN	1 094	2	8	22	59	117	146	261	224	213	43	71100
ATTIC FAN	2 070	2	2	33	150	214	289	437	493	391	58	71800
WINDOW FAN	501	2	5	27	64	73	60	119	90	62	-	62500
PORTABLE FAN	3 187	6	36	138	314	537	505	675	561	376	40	61300
WITH NO SUPPLEMENTAL EQUIPMENT USED	5 859	12	76	244	595	897	807	1 150	1 079	809	191	63900
NOT REPORTED	242	1	6	10	27	38	49	47	32	30	4	58400
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	28 961	823	2 403	3 908	4 923	4 462	3 141	3 782	2 982	2 157	380	45400
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	23 696	284	1 100	2 273	3 701	4 062	3 215	3 974	3 021	1 827	240	51300
SOME WINDOWS COVERED	4 699	141	399	643	763	643	490	629	503	404	83	46300
NO WINDOWS COVERED	13 442	422	1 045	1 457	1 685	1 663	1 274	1 775	1 920	1 795	406	53500
NOT REPORTED	109	3	2	15	8	19	15	22	10	14	1	54700
STORM DOORS												
ALL DOORS COVERED	22 156	286	1 162	2 483	3 903	3 942	3 072	3 529	2 390	1 276	112	48200
SOME DOORS COVERED	5 717	147	432	669	839	889	651	860	714	445	72	48700
NO DOORS COVERED	13 944	413	947	1 220	1 401	1 535	1 254	1 987	2 336	2 305	544	61500
NOT REPORTED	129	3	6	16	13	21	16	22	14	16	1	53200
ATTIC OR ROOF INSULATION												
YES	35 395	381	1 564	3 276	5 248	5 649	4 520	5 785	4 871	3 506	595	53500
NO	5 110	403	822	902	695	533	349	448	431	423	105	36200
DON'T KNOW	1 285	61	150	195	203	179	104	135	133	97	27	41900
NOT REPORTED	155	5	11	16	10	26	20	31	19	15	2	54300
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	13 442	422	1 045	1 457	1 685	1 663	1 274	1 775	1 920	1 795	406	53500
SOME OR ALL WINDOWS COVERED	28 395	425	1 500	2 916	4 463	4 705	3 704	4 603	3 524	2 232	323	50500
NONE INSTALLED	25 075	344	1 278	2 549	3 975	4 219	3 278	4 073	3 159	1 936	265	50500
SOME OR ALL INSTALLED	3 226	79	214	365	481	475	415	508	353	284	51	50000
NOT REPORTED	94	2	7	2	7	12	11	21	13	12	6	63800
NOT REPORTED	109	3	2	15	8	19	15	22	10	14	1	54700
STORM DOORS:												
NO DOORS COVERED	13 944	413	947	1 220	1 401	1 535	1 254	1 987	2 336	2 305	544	61500
SOME OR ALL DOORS COVERED	27 873	433	1 594	3 152	4 742	4 831	3 722	4 389	3 104	1 721	185	48300
NONE INSTALLED	25 561	392	1 469	2 903	4 373	4 507	3 414	3 975	2 823	1 540	166	48100
SOME OR ALL INSTALLED	2 113	41	111	223	339	299	284	376	262	160	18	51500
NOT REPORTED	198	-	14	26	31	24	24	39	18	21	1	51700
NOT REPORTED	129	3	6	16	13	21	16	22	14	16	1	53200
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	5 110	403	822	902	695	533	349	448	431	423	105	36200
WITH ATTIC OR ROOF INSULATION	35 395	381	1 564	3 276	5 248	5 649	4 520	5 785	4 871	3 506	595	53500
NONE ADDED OR INSTALLED	31 802	322	1 397	2 949	4 777	5 149	4 019	5 148	4 373	3 132	536	53300
SOME OR ALL ADDED OR INSTALLED	3 360	57	162	311	453	475	473	600	440	339	51	54700
NOT REPORTED	233	2	5	16	18	25	28	37	58	36	8	69000
DON'T KNOW	1 285	61	150	195	203	179	104	135	133	97	27	41900
NOT REPORTED	155	5	11	16	10	26	20	31	19	15	2	54300
WALL INSULATION:												
NONE ADDED OR INSTALLED	39 330	809	2 403	4 114	5 787	6 019	4 647	5 955	5 124	3 789	682	51100
SOME OR ALL ADDED OR INSTALLED	2 411	38	138	247	346	334	321	406	306	233	42	53200
NOT REPORTED	205	3	6	28	23	34	26	39	23	19	4	53600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	33 045	765	2 153	3 645	4 947	4 952	3 707	4 832	4 180	3 240	625	50200
SOME OR ALL ADDED OR INSTALLED	8 704	81	390	716	1 188	1 404	1 260	1 531	1 252	782	100	54600
NOT REPORTED	197	3	5	28	21	31	26	37	22	19	4	53700
OTHER INSULATION:												
NONE ADDED OR INSTALLED	38 524	816	2 411	4 107	5 747	5 907	4 577	5 784	4 890	3 636	649	50600
SOME OR ALL ADDED OR INSTALLED	3 253	33	132	256	389	452	398	579	544	394	75	59200
NOT REPORTED	168	1	4	25	20	29	18	36	20	11	4	52800
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	27 508	642	1 842	3 034	4 143	4 134	3 065	3 926	3 482	2 715	525	49900
WITH INSULATION ADDED OR INSTALLED	13 787	195	676	1 265	1 939	2 150	1 857	2 365	1 874	1 274	193	53600
LESS THAN $50	6 056	108	333	586	875	1 030	809	1 007	812	462	37	51200
$50 TO $99	1 545	30	95	127	227	253	196	279	201	116	21	52100
$100 TO $249	2 028	31	76	203	269	307	286	353	279	197	28	54500
$250 TO $499	1 495	12	69	126	212	207	202	250	225	172	20	56000
$500 TO $999	833	5	31	68	114	124	121	148	96	106	19	56100
$1,000 OR MORE	961	3	30	79	136	110	136	167	145	120	36	59000
DON'T KNOW	532	5	25	50	52	68	58	100	75	70	30	61300
NOT REPORTED	336	2	16	27	53	51	50	60	42	31	3	53700
MEDIAN	63	50-	50-	53	59	50-	67	67	66	107	220	...
NOT REPORTED OR DON'T KNOW	650	13	30	89	74	103	70	108	98	53	11	52200

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE A-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 065	44	86	128	167	152	115	157	101	88	26	47100
LESS THAN $50	452	39	55	78	78	62	44	48	34	15	-	36900
$50 TO $99	81	2	7	5	12	14	9	17	6	8	1	50300
$100 TO $249	145	2	6	24	17	17	14	26	17	19	4	55400
$250 TO $499	118	1	7	10	20	18	7	23	19	8	6	55400
$500 TO $999	92	-	2	5	13	12	24	12	7	12	7	56400
$1,000 OR MORE	73	-	2	-	13	9	6	12	9	15	7	68100
DON'T KNOW	35	-	2	3	6	7	7	2	4	5	-	48400
NOT REPORTED	69	1	5	3	9	13	6	17	7	7	2	55800
MEDIAN	67	50-	50-	50-	50-	66	90	124	155	220	...	...
ONLY INSTALLED STORM DOORS	722	19	38	91	129	106	93	124	77	38	8	48000
LESS THAN $50	102	5	6	14	31	22	6	13	4	-	1	38500
$50 TO $99	237	7	17	33	45	35	27	41	20	10	2	44700
$100 TO $249	232	6	9	23	33	33	30	50	32	13	2	53600
$250 TO $499	64	-	-	6	6	9	12	9	10	11	1	58500
$500 TO $999	17	-	2	4	-	-	5	2	3	2	-	...
$1,000 OR MORE	4	-	-	-	-	1	2	-	1	1	-	...
DON'T KNOW	15	-	2	5	2	1	2	2	1	-	2	...
NOT REPORTED	51	-	2	6	12	5	10	7	8	1	-	50700
MEDIAN	97	...	...	88	79	89	142	109	151	191	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	1 359	24	65	148	193	218	157	230	171	137	15	52000
LESS THAN $50	162	7	14	33	29	19	14	19	17	9	1	39400
$50 TO $99	172	3	4	20	26	38	15	33	19	14	-	48600
$100 TO $249	401	7	20	32	45	75	55	72	56	38	-	53800
$250 TO $499	270	3	12	33	24	40	35	49	38	32	3	56500
$500 TO $999	130	1	5	7	20	19	14	19	19	23	2	58600
$1,000 OR MORE	80	-	3	12	22	4	12	9	6	8	4	46400
DON'T KNOW	75	1	6	6	14	9	6	13	11	4	4	52600
NOT REPORTED	68	-	1	5	12	14	6	15	4	9	1	52800
MEDIAN	202	...	185	173	193	181	220	200	210	256	...	...

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE A-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]	26 874	1 990	2 488	4 118	4 985	4 487	3 057	1 793	1 604	1 040	1 313	241
HOUSE HEATING FUEL												
UTILITY GAS	14 643	1 059	1 544	2 534	2 850	2 291	1 551	873	794	575	572	233
BOTTLED, TANK, OR LP GAS	735	66	108	153	112	68	43	16	19	11	141	189
FUEL OIL	5 081	293	412	782	1 006	908	580	367	294	178	260	245
KEROSENE, ETC	101	14	20	18	26	4	3	-	2	-	13	176
ELECTRICITY	5 483	402	254	485	888	1 158	838	507	468	249	235	275
COAL OR COKE	81	16	17	20	8	2	3	-	-	-	15	151
WOOD	283	79	56	38	28	13	5	5	1	2	57	130
SOLAR HEAT	3	-	-	-	-	-	2	-	-	-	1	...
OTHER FUEL	79	10	15	19	9	6	6	2	5	6	3	185
NONE	385	51	62	69	60	36	27	23	21	19	16	202
WATER HEATING FUEL[2]												
UTILITY GAS	14 714	1 024	1 464	2 477	2 812	2 378	1 631	936	848	611	533	237
BOTTLED, TANK, OR LP GAS	515	29	80	110	85	54	28	19	11	9	91	196
FUEL OIL	3 098	175	229	466	613	578	360	238	195	151	90	252
KEROSENE, ETC	6	1	1	-	3	1	-	-	-	-	1	...
ELECTRICITY	7 821	511	575	983	1 415	1 450	1 017	589	544	258	479	256
COAL OR COKE	17	-	2	6	-	2	3	-	-	-	3	...
WOOD	5	-	1	1	1	-	-	1	-	-	1	...
SOLAR HEAT	15	6	3	-	-	2	2	-	-	2	1	...
OTHER FUEL	49	6	2	9	8	8	7	4	3	2	1	245
NONE	105	36	19	18	11	1	2	-	-	3	14	123
COOKING FUEL												
UTILITY GAS	14 148	1 062	1 559	2 548	2 803	2 275	1 444	853	657	481	465	229
BOTTLED, TANK, OR LP GAS	999	102	143	183	167	113	57	28	14	14	179	194
FUEL OIL	76	7	7	8	27	13	5	4	2	2	1	226
KEROSENE, ETC	9	3	3	-	2	-	-	-	-	-	1	...
ELECTRICITY	11 407	725	707	1 340	1 975	2 080	1 549	908	931	541	649	265
COAL OR COKE	2	1	-	1	-	-	-	-	-	-	1	...
WOOD	33	20	1	1	1	-	-	-	-	-	9	...
OTHER FUEL	15	2	5	2	-	2	2	-	-	-	1	...
NONE	186	67	61	36	9	4	1	-	-	2	7	118
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	21 609	987	1 736	3 118	4 177	3 897	2 759	1 600	1 459	965	911	254
LESS THAN $10	1 495	196	218	284	292	240	117	73	38	14	24	206
$10 TO $19	5 368	415	579	968	1 117	940	585	270	212	96	184	228
$20 TO $29	5 197	210	448	859	1 131	934	649	336	275	150	203	242
$30 TO $39	3 581	102	263	507	743	662	425	307	208	141	183	255
$40 TO $49	2 091	36	138	229	371	435	319	172	166	111	114	274
$50 TO $59	1 486	13	60	144	265	300	229	156	157	88	74	287
$60 TO $79	1 380	12	25	101	182	244	270	163	192	129	63	317
$80 TO $99	475	2	3	18	52	76	92	63	80	57	32	338
$100 TO $149	441	-	2	8	24	58	68	51	93	110	27	395
$150 OR MORE	134	-	-	1	-	6	5	9	37	68	8	500+
MEDIAN	27	16	21	23	25	27	31	34	39	47	32	...
INCLUDED IN RENT	5 208	993	741	978	808	583	295	191	144	75	399	184
NO ELECTRICITY USED	58	10	10	22	-	7	3	2	2	-	3	168
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	13 354	520	1 243	2 273	2 698	2 220	1 488	866	804	641	602	243
LESS THAN $10	3 185	178	298	589	696	572	348	208	128	81	87	234
$10 TO $14	2 070	113	214	306	458	337	217	147	120	96	63	240
$15 TO $19	1 521	81	149	218	297	256	173	92	115	75	66	246
$20 TO $24	1 313	60	138	241	213	182	155	81	94	68	82	240
$25 TO $29	1 001	42	121	179	193	159	109	53	49	49	48	234
$30 TO $39	1 484	30	157	277	273	226	156	99	99	77	90	242
$40 TO $49	997	11	102	184	203	164	98	58	71	50	56	242
$50 TO $69	1 091	5	53	227	231	170	124	77	66	73	65	248
$70 TO $99	451	-	10	42	103	100	57	34	39	42	25	279
$100 OR MORE	239	-	1	10	30	54	53	18	23	30	20	314
MEDIAN	19	13	18	20	18	18	20	18	22	25	25	...
INCLUDED IN RENT	8 159	1 056	934	1 270	1 367	1 243	828	469	397	169	424	222
NO GAS USED	5 362	413	311	576	920	1 023	741	458	403	229	287	265
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 194	133	182	285	332	328	210	172	171	149	232	257
LESS THAN $100	431	49	34	40	47	53	37	44	48	42	37	275
$100 TO $199	275	36	31	35	31	28	20	14	22	29	30	234
$200 TO $299	198	20	28	41	35	25	7	4	8	3	28	194
$300 TO $399	212	15	30	35	39	23	18	16	6	3	26	216
$400 TO $499	203	6	27	44	40	33	11	11	9	3	19	218
$500 TO $599	156	5	20	36	31	27	10	4	9	4	12	218
$600 TO $699	139	3	6	21	32	29	17	3	4	14	10	253
$700 TO $799	126	-	1	14	24	22	16	18	9	5	16	286
$800 OR MORE	454	-	5	19	53	90	74	58	56	46	53	322
MEDIAN	390	149	295	375	434	510	616	473	415	306	379	...
INCLUDED IN RENT	5 885	490	539	939	1 137	1 027	654	399	291	176	231	237
FUELS NOT USED OR FREE	18 795	1 366	1 767	2 894	3 516	3 132	2 193	1 221	1 142	714	851	241
HEATING EQUIPMENT												
WARM-AIR FURNACE	10 033	437	532	1 184	1 846	1 897	1 356	809	843	584	546	269
HEAT PUMP	322	16	9	13	35	54	48	47	41	43	15	327
STEAM OR HOT WATER	6 752	475	625	1 066	1 377	1 277	789	438	305	225	176	240
BUILT-IN ELECTRIC UNITS	2 694	283	183	333	497	479	345	211	179	69	114	248
FLOOR, WALL, OR PIPELESS FURNACE	2 918	167	263	502	625	452	350	208	173	80	98	237
ROOM HEATERS WITH FLUE	1 836	203	395	524	305	153	74	26	20	14	123	174
ROOM HEATERS WITHOUT FLUE	1 221	212	289	289	164	85	40	18	11	2	110	159
FIREPLACES, STOVES, OR PORTABLE HEATERS	713	147	129	137	75	55	28	13	10	3	116	158
NONE	385	51	62	69	60	36	27	23	21	19	16	202

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE A-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	26 489	1 938	2 426	4 049	4 925	4 451	3 030	1 770	1 583	1 020	1 297	242
WITH FIREPLACE OR HEATING STOVE	3 805	235	343	519	448	459	340	287	348	451	374	268
IN WORKING ORDER	3 187	199	283	411	326	362	276	251	326	420	335	278
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	1 813	111	113	123	145	214	181	161	253	277	236	322
ALL PURCHASED	651	47	43	39	44	54	72	62	98	136	56	348
SOME OR NONE PURCHASED	1 082	62	68	80	99	148	107	90	141	116	171	298
NOT REPORTED	81	2	3	4	2	12	2	9	14	24	8	416
COAL	57	16	12	12	3	1	-	-	3	-	10	132
OTHER FUEL	832	57	138	221	135	84	43	36	20	51	48	194
NONE	453	14	19	53	34	61	49	52	45	85	41	324
NOT REPORTED	32	1	1	2	7	2	4	2	5	7	1	...
NOT IN WORKING ORDER	587	35	61	103	115	93	59	33	19	31	39	232
NOT REPORTED	31	2	-	5	8	5	5	3	3	-	1	...
WITHOUT FIREPLACE OR HEATING STOVE	22 606	1 698	2 076	3 518	4 454	3 971	2 686	1 481	1 235	568	919	239
NOT REPORTED	78	6	7	12	23	21	3	2	-	2	4	227
HOUSING UNITS WITH NO HEATING EQUIPMENT	385	51	62	69	60	36	27	23	21	19	16	202
SPECIFIED RENTER OCCUPIED[1]	26 874	1 990	2 488	4 118	4 985	4 487	3 057	1 793	1 604	1 040	1 313	241
UNITS OCCUPIED LAST WINTER	18 971	1 706	1 986	3 073	3 394	3 136	1 942	1 133	939	592	1 070	232
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	17 269	1 364	1 618	2 724	3 200	3 025	1 878	1 103	914	573	871	238
NO ADDITIONAL HEAT SOURCE USED	14 567	1 190	1 349	2 222	2 638	2 575	1 592	937	799	508	757	240
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 322	139	239	430	495	391	251	150	85	55	86	231
NOT REPORTED	380	34	30	71	67	59	35	16	30	10	27	230
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 702	342	367	349	194	111	64	30	25	20	200	156
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	17 269	1 364	1 618	2 724	3 200	3 025	1 878	1 103	914	573	871	238
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	13 102	1 068	1 059	1 886	2 384	2 445	1 522	894	737	486	621	246
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 765	256	524	771	746	519	316	191	145	75	222	215
1 ROOM	1 310	92	185	257	252	218	113	61	42	30	61	218
2 ROOMS	1 205	82	179	242	238	153	120	70	56	14	52	215
3 ROOMS OR MORE	1 249	81	160	273	256	148	84	60	47	32	109	211
NOT REPORTED	402	40	35	67	70	61	40	17	32	12	28	231
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 702	342	367	349	194	111	64	30	25	20	200	156
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	17 269	1 364	1 618	2 724	3 200	3 025	1 878	1 103	914	573	871	238
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 702	342	367	349	194	111	64	30	25	20	200	156
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 276	260	270	261	139	86	51	20	23	16	150	156
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	318	58	77	69	40	18	6	7	2	3	37	154
NOT REPORTED	108	23	20	19	16	6	8	3	-	-	13	160
SPECIFIED RENTER OCCUPIED[1]	26 874	1 990	2 488	4 118	4 985	4 487	3 057	1 793	1 604	1 040	1 313	241
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 098	198	191	206	135	91	55	35	31	23	132	172
WITH SELECTED HEATING EQUIPMENT[3]	25 776	1 792	2 296	3 912	4 850	4 396	3 002	1 757	1 573	1 017	1 181	243
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 404	1 729	2 159	3 671	4 554	4 166	2 856	1 683	1 522	958	1 107	244
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 292	57	131	229	280	214	136	71	46	56	72	234
SOLAR HEATING EQUIPMENT	2	-	-	1	-	-	-	-	-	-	1	...
STOVE, BURNING WOOD OR COAL	84	2	4	15	16	16	7	3	4	7	10	254
FIREPLACE, BURNING WOOD OR COAL	39	-	1	2	2	6	5	4	6	7	6	...
PORTABLE ELECTRIC HEATER	1 009	38	112	186	226	178	110	55	30	32	41	232
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	95	9	5	23	24	9	11	2	1	3	9	214
OTHER	80	9	10	8	15	6	6	9	5	8	5	236
NOT REPORTED	80	6	6	12	17	16	10	3	5	3	3	244
AIR CONDITIONING												
WITH AIR CONDITIONING	13 170	546	764	1 497	2 320	2 628	1 931	1 151	1 035	664	634	271
ROOM UNITS	7 984	383	667	1 243	1 572	1 450	994	598	435	230	412	247
1	6 146	346	585	1 013	1 312	1 120	733	392	254	95	294	237
2	1 512	27	72	201	222	289	233	167	147	73	80	283
3	236	4	6	15	22	30	26	31	33	49	22	358
4	60	3	3	8	13	9	3	6	2	5	8	242
5 OR MORE	31	2	1	5	3	2	-	2	-	8	8	...
CENTRAL SYSTEM	5 186	163	97	255	748	1 178	937	553	600	434	221	302
WITH NO AIR CONDITIONING	13 705	1 444	1 723	2 621	2 665	1 860	1 126	641	569	376	680	213

[1] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2] EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE A-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 186	163	97	255	748	1 178	937	553	600	434	221	302
WITH SUPPLEMENTAL EQUIPMENT USED	1 355	24	30	67	201	278	214	158	174	138	70	310
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	-	5	5	6	9	11	9	14	8	1	340
AWNINGS	61	5	3	4	6	8	4	6	5	11	9	298
DEHUMIDIFIER	49	-	2	5	4	1	-	6	6	18	7	460
CEILING FAN	58	-	-	-	10	9	5	7	7	9	6	344
ATTIC FAN	77	1	1	2	9	7	5	6	15	14	18	392
WINDOW FAN	161	2	2	10	40	35	22	30	7	10	4	285
PORTABLE FAN	1 016	16	24	51	146	213	181	115	139	89	42	310
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 720	133	65	180	529	870	706	387	416	289	145	301
NOT REPORTED	110	6	2	7	18	30	17	8	9	7	6	282
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	21 689	1 827	2 391	3 864	4 237	3 309	2 120	1 239	1 004	605	1 092	226
SPECIFIED RENTER OCCUPIED[1]	26 874	1 990	2 488	4 118	4 985	4 487	3 057	1 793	1 604	1 040	1 313	241
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 605	512	913	1 345	1 379	1 066	735	492	621	576	967	237
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	2 619	79	203	361	434	381	255	163	193	166	385	255
SOME WINDOWS COVERED	915	37	84	166	174	110	68	56	60	45	117	232
NO WINDOWS COVERED	4 682	363	586	749	694	520	373	252	340	354	452	229
NOT REPORTED	389	33	41	69	77	55	40	22	28	10	13	229
STORM DOORS												
ALL DOORS COVERED	2 232	59	178	308	377	330	227	157	145	113	338	254
SOME DOORS COVERED	900	30	75	138	158	135	79	40	88	41	115	246
NO DOORS COVERED	5 084	392	619	830	761	548	390	275	359	411	500	229
NOT REPORTED	389	32	41	69	82	53	39	21	28	10	13	228
ATTIC OR ROOF INSULATION												
YES	3 751	107	294	453	601	496	351	242	320	318	569	263
NO	2 425	281	392	482	375	205	129	89	120	95	258	192
DON'T KNOW	2 032	93	186	341	324	312	214	136	153	149	125	252
NOT REPORTED	397	32	42	68	78	53	41	26	28	14	15	231

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	80 072	54 889	9 715	3 630	3 028	5 040	3 770
HOUSE HEATING FUEL							
OWNER OCCUPIED	52 516	46 331	2 247	258	158	481	3 041
UTILITY GAS	29 608	26 870	1 332	120	56	120	1 108
BOTTLED, TANK, OR LP GAS	3 239	2 450	21	1	2	-	765
FUEL OIL	9 274	8 076	585	35	15	154	410
KEROSENE, ETC	261	169	5	-	-	-	87
ELECTRICITY	8 671	7 414	287	100	82	184	605
COAL OR COKE	228	226	2	-	-	-	1
WOOD	983	917	7	-	-	-	58
SOLAR HEAT	10	10	-	-	-	-	-
OTHER FUEL	18	18	-	-	-	-	-
NONE	225	182	9	2	2	23	7
RENTER OCCUPIED	27 556	8 558	7 468	3 373	2 870	4 559	728
UTILITY GAS	14 790	5 050	4 698	1 753	1 401	1 647	241
BOTTLED, TANK, OR LP GAS	931	635	64	8	2	9	212
FUEL OIL	5 226	1 140	1 415	578	439	1 549	104
KEROSENE, ETC	108	68	18	2	2	-	19
ELECTRICITY	5 536	1 056	1 157	974	982	1 232	135
COAL OR COKE	100	72	17	2	-	9	-
WOOD	394	370	13	2	2	-	8
SOLAR HEAT	3	1	-	-	2	-	-
OTHER FUEL	79	5	4	9	13	48	-
NONE	388	159	82	45	29	64	9
WATER HEATING FUEL[1]							
OWNER OCCUPIED	51 770	45 655	2 238	258	158	481	2 980
UTILITY GAS	27 696	25 115	1 458	131	58	132	803
BOTTLED, TANK, OR LP GAS	2 443	1 987	23	-	2	1	430
FUEL OIL	3 284	2 780	327	24	10	133	9
KEROSENE, ETC	22	9	-	-	1	-	12
ELECTRICITY	18 078	15 547	425	103	85	208	1 710
COAL OR COKE	29	28	-	-	-	-	1
WOOD	60	59	2	-	-	-	-
SOLAR HEAT	52	51	2	-	-	-	-
OTHER FUEL	14	7	-	-	2	2	3
NONE	90	72	2	-	-	5	12
RENTER OCCUPIED	26 907	8 032	7 409	3 364	2 860	4 530	711
UTILITY GAS	14 783	4 628	4 873	1 880	1 422	1 819	162
BOTTLED, TANK, OR LP GAS	661	454	69	16	4	2	116
FUEL OIL	3 114	246	778	385	348	1 352	5
KEROSENE, ETC	6	4	2	-	-	-	-
ELECTRICITY	8 140	2 649	1 657	1 060	1 062	1 292	420
COAL OR COKE	17	5	3	-	3	7	-
WOOD	6	4	1	-	-	-	1
SOLAR HEAT	15	3	-	3	3	6	-
OTHER FUEL	49	2	5	-	6	35	-
NONE	115	38	21	20	11	18	8
COOKING FUEL							
OWNER OCCUPIED	52 516	46 331	2 247	258	158	481	3 041
UTILITY GAS	18 452	15 761	1 367	103	39	200	981
BOTTLED, TANK, OR LP GAS	3 899	2 776	38	1	2	-	1 082
FUEL OIL	55	43	8	-	-	2	2
KEROSENE, ETC	9	6	1	-	-	-	2
ELECTRICITY	29 938	27 596	833	153	115	276	964
COAL OR COKE	9	9	-	-	-	-	-
WOOD	119	119	-	-	-	-	-
OTHER FUEL	15	9	-	-	2	2	3
NONE	20	11	1	-	-	2	7
RENTER OCCUPIED	27 556	8 558	7 468	3 373	2 870	4 559	728
UTILITY GAS	14 212	3 791	4 612	1 798	1 313	2 450	247
BOTTLED, TANK, OR LP GAS	1 207	753	132	23	4	-	295
FUEL OIL	76	10	16	16	11	21	1
KEROSENE, ETC	12	6	2	2	-	-	2
ELECTRICITY	11 791	3 922	2 682	1 495	1 514	1 996	182
COAL OR COKE	3	3	-	-	-	-	-
WOOD	50	49	-	-	-	-	1
OTHER FUEL	15	5	4	1	-	5	-
NONE	191	18	19	39	28	86	1

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	41 945	41 945	...	...	...	...	...
ELECTRICITY PAID FOR	41 914	41 914	...	...	...	...	...
LESS THAN $10	307	307	...	...	...	...	...
$10 TO $19	3 355	3 355	...	...	...	...	...
$20 TO $29	7 112	7 112	...	...	...	...	...
$30 TO $39	7 808	7 808	...	...	...	...	...
$40 TO $49	6 085	6 085	...	...	...	...	...
$50 TO $59	4 975	4 975	...	...	...	...	...
$60 TO $79	6 118	6 118	...	...	...	...	...
$80 TO $99	2 555	2 555	...	...	...	...	...
$100 TO $149	2 748	2 748	...	...	...	...	...
$150 OR MORE	850	850	...	...	...	...	...
MEDIAN	44	44	...	...	...	...	...
NO ELECTRICITY USED	32	32	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	26 874	7 877	7 468	3 373	2 870	4 559	728
ELECTRICITY PAID FOR	21 609	7 190	6 252	2 497	2 240	2 817	613
LESS THAN $10	1 495	238	470	264	208	292	23
$10 TO $19	5 368	1 258	1 859	722	614	812	103
$20 TO $29	5 197	1 707	1 572	558	506	740	114
$30 TO $39	3 541	1 312	964	361	352	426	126
$40 TO $49	2 091	889	518	195	215	202	72
$50 TO $59	1 486	642	351	156	152	126	59
$60 TO $79	1 380	610	311	146	112	156	45
$80 TO $99	475	235	93	38	43	33	33
$100 TO $149	441	227	84	48	29	21	33
$150 OR MORE	134	72	30	8	10	10	4
MEDIAN	27	33	25	24	25	24	35
INCLUDED IN RENT	5 208	672	1 206	868	629	1 718	116
NO ELECTRICITY USED	58	14	10	9	2	24	-
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	41 945	41 945	...	...	...	...	...
GAS PAID FOR	31 088	31 088	...	...	...	...	...
LESS THAN $10	1 741	1 741	...	...	...	...	...
$10 TO $14	2 216	2 216	...	...	...	...	...
$15 TO $19	2 345	2 345	...	...	...	...	...
$20 TO $24	2 964	2 964	...	...	...	...	...
$25 TO $29	2 675	2 675	...	...	...	...	...
$30 TO $39	5 587	5 587	...	...	...	...	...
$40 TO $49	4 657	4 657	...	...	...	...	...
$50 TO $69	5 933	5 933	...	...	...	...	...
$70 TO $99	2 089	2 089	...	...	...	...	...
$100 OR MORE	881	881	...	...	...	...	...
MEDIAN	36	36	...	...	...	...	...
NO GAS USED	10 857	10 857	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	26 874	7 877	7 468	3 373	2 870	4 559	728
GAS PAID FOR	13 354	5 405	4 389	1 217	752	1 137	454
LESS THAN $10	3 185	588	1 027	490	371	617	93
$10 TO $14	2 070	660	700	223	140	272	75
$15 TO $19	1 521	598	522	162	76	100	63
$20 TO $24	1 313	627	444	93	50	48	51
$25 TO $29	1 001	513	312	69	31	37	40
$30 TO $39	1 484	839	450	62	35	44	55
$40 TO $49	997	586	298	53	18	11	31
$50 TO $69	1 091	605	392	45	24	5	21
$70 TO $99	451	255	163	14	5	2	13
$100 OR MORE	239	135	83	6	2	2	13
MEDIAN	19	27	19	12	10	10-	19
INCLUDED IN RENT	8 159	1 054	1 904	1 345	1 317	2 368	172
NO GAS USED	5 362	1 418	1 175	811	802	1 054	103

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	HOUSING UNITS IN STRUCTURE						
	TOTAL	1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	41 945	41 945	...	...	...	...	...
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	10 622	10 622	...	...	...	...	...
LESS THAN $100	1 787	1 787	...	...	...	...	...
$100 TO $199	1 208	1 208	...	...	...	...	...
$200 TO $299	703	703	...	...	...	...	...
$300 TO $399	697	697	...	...	...	...	...
$400 TO $499	733	733	...	...	...	...	...
$500 TO $599	802	802	...	...	...	...	...
$600 TO $699	837	837	...	...	...	...	...
$700 TO $799	641	641	...	...	...	...	...
$800 OR MORE	3 214	3 214	...	...	...	...	...
MEDIAN	523	523	...	...	...	...	...
FUELS NOT USED OR FREE	31 323	31 323	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	26 874	7 877	7 468	3 373	2 870	4 559	728
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 194	1 427	484	55	21	92	115
LESS THAN $100	431	263	69	24	16	54	5
$100 TO $199	275	179	42	14	5	28	8
$200 TO $299	198	133	40	2	-	2	22
$300 TO $399	212	146	36	3	-	2	24
$400 TO $499	203	143	31	5	-	2	23
$500 TO $599	156	105	36	2	-	-	14
$600 TO $699	139	90	41	2	-	2	5
$700 TO $799	126	85	34	-	-	-	7
$800 OR MORE	454	284	156	3	-	3	7
MEDIAN	390	394	568	123	...	100-	394
INCLUDED IN RENT	5 885	711	1 769	832	671	1 816	86
FUELS NOT USED OR FREE	18 795	5 738	5 215	2 486	2 178	2 651	528
ALL OCCUPIED HOUSING UNITS	80 072	54 889	9 715	3 630	3 028	5 040	3 770
HEATING EQUIPMENT							
OWNER OCCUPIED	52 516	46 331	2 247	258	158	481	3 041
WARM-AIR FURNACE	31 569	27 816	864	121	70	174	2 522
HEAT PUMP	1 419	1 257	49	20	14	53	25
STEAM OR HOT WATER	6 803	5 627	905	56	33	170	13
BUILT-IN ELECTRIC UNITS	3 159	2 770	139	43	38	50	119
FLOOR, WALL, OR PIPELESS FURNACE	3 303	3 090	84	3	-	4	122
ROOM HEATERS WITH FLUE	2 108	1 906	123	9	1	4	65
ROOM HEATERS WITHOUT FLUE	1 694	1 609	46	2	-	-	37
FIREPLACES, STOVES, OR PORTABLE HEATERS	2 236	2 073	27	2	-	3	131
NONE	225	182	9	2	2	23	7
RENTER OCCUPIED	27 556	8 558	7 468	3 373	2 870	4 559	728
WARM-AIR FURNACE	10 239	3 340	2 646	1 278	1 180	1 213	582
HEAT PUMP	324	99	54	24	54	92	1
STEAM OR HOT WATER	6 786	582	2 135	1 019	823	2 225	1
BUILT-IN ELECTRIC UNITS	2 725	509	653	419	436	681	28
FLOOR, WALL, OR PIPELESS FURNACE	2 961	1 244	860	355	249	214	39
ROOM HEATERS WITH FLUE	1 939	962	657	156	78	58	28
ROOM HEATERS WITHOUT FLUE	1 303	939	283	45	15	7	15
FIREPLACES, STOVES, OR PORTABLE HEATERS	890	724	98	31	6	5	25
NONE	388	159	82	45	29	64	9
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	52 516	46 331	2 247	258	158	481	3 041
HOUSING UNITS WITH HEATING EQUIPMENT	52 291	46 149	2 238	256	156	458	3 034
WITH FIREPLACE OR HEATING STOVE	24 372	23 338	550	68	32	50	332
IN WORKING ORDER	23 138	22 215	471	61	32	39	320
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	18 444	17 834	266	37	24	19	263
ALL PURCHASED	5 594	5 386	120	24	14	12	38
SOME OR NONE PURCHASED	12 599	12 202	145	13	10	7	222
NOT REPORTED	250	246	2	-	-	-	2
COAL	224	219	4	-	-	-	2
OTHER FUEL	2 043	1 845	121	15	5	18	40
NONE	2 359	2 250	78	9	3	2	16
NOT REPORTED	68	67	2	-	-	-	-
NOT IN WORKING ORDER	1 174	1 073	78	5	-	9	9
NOT REPORTED	60	51	2	2	-	3	2
WITHOUT FIREPLACE OR HEATING STOVE	27 802	22 711	1 680	188	122	406	2 696
NOT REPORTED	117	99	8	-	2	2	6
HOUSING UNITS WITH NO HEATING EQUIPMENT	225	182	9	2	2	23	7

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES--CONTINUED							
RENTER OCCUPIED	27 556	8 558	7 468	3 373	2 870	4 559	728
HOUSING UNITS WITH HEATING EQUIPMENT	27 168	8 398	7 386	3 328	2 841	4 495	720
WITH FIREPLACE OR HEATING STOVE	4 173	2 651	1 006	240	131	120	25
IN WORKING ORDER	3 528	2 343	771	182	102	107	23
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	2 104	1 649	290	74	35	41	15
ALL PURCHASED	694	493	134	19	19	25	4
SOME OR NONE PURCHASED	1 326	1 094	145	47	13	16	12
NOT REPORTED	84	63	11	7	3	-	-
COAL	70	62	8	-	-	-	-
OTHER FUEL	857	356	342	64	44	47	4
NONE	464	252	125	45	21	18	3
NOT REPORTED	32	24	5	-	2	1	1
NOT IN WORKING ORDER	613	295	222	56	26	11	2
NOT REPORTED	32	12	13	2	3	2	-
WITHOUT FIREPLACE OR HEATING STOVE	22 914	5 724	6 357	3 080	2 703	4 358	692
NOT REPORTED	80	24	23	8	7	16	2
HOUSING UNITS WITH NO HEATING EQUIPMENT	388	159	82	45	29	64	9
ALL OCCUPIED HOUSING UNITS	80 072	54 889	9 715	3 630	3 028	5 040	3 770
UNITS OCCUPIED LAST WINTER	69 337	50 389	7 506	2 528	2 037	3 832	3 046
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	49 790	44 178	2 138	223	130	448	2 673
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	40 447	2 058	218	130	421	2 514
NO ADDITIONAL HEAT SOURCE USED	42 235	37 340	1 893	204	123	377	2 298
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 827	2 484	136	10	4	39	155
NOT REPORTED	726	623	30	3	3	6	61
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	3 731	80	5	-	27	159
RENTER OCCUPIED	19 547	6 211	5 368	2 305	1 907	3 384	373
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	4 807	5 049	2 220	1 873	3 334	339
NO ADDITIONAL HEAT SOURCE USED	14 852	4 035	4 274	1 859	1 643	2 760	280
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 378	647	672	303	204	509	44
NOT REPORTED	394	126	103	59	26	65	15
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	1 403	318	84	33	50	33
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	49 790	44 178	2 138	223	130	448	2 673
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	40 447	2 058	218	130	421	2 514
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	37 144	32 361	1 696	199	115	398	2 374
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 818	7 375	332	15	10	19	66
1 ROOM	2 418	2 227	128	9	5	12	38
2 ROOMS	1 956	1 825	106	2	-	2	22
3 ROOMS OR MORE	3 444	3 323	99	5	5	5	7
NOT REPORTED	826	710	30	3	5	4	73
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	3 731	80	5	-	27	159
RENTER OCCUPIED	19 547	6 211	5 368	2 305	1 907	3 384	373
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	4 807	5 049	2 220	1 873	3 334	339
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	13 284	2 886	3 681	1 776	1 589	3 059	292
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 923	1 789	1 252	381	252	220	30
1 ROOM	1 344	403	473	180	138	136	14
2 ROOMS	1 254	564	424	126	77	52	10
3 ROOMS OR MORE	1 325	822	356	74	36	31	5
NOT REPORTED	417	132	116	64	33	55	17
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	1 403	318	84	33	50	33
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	49 790	44 178	2 138	223	130	448	2 673
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	40 447	2 058	218	130	421	2 514
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	3 731	80	5	-	27	159
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	3 348	3 132	64	2	-	27	124
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	399	372	7	-	-	-	20
NOT REPORTED	256	227	9	4	-	-	16

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED							
RENTER OCCUPIED	19 547	6 211	5 368	2 305	1 907	3 384	373
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	4 807	5 049	2 220	1 873	3 334	339
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	1 403	318	84	33	50	33
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 442	1 037	234	67	27	48	29
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	359	286	53	10	6	2	1
NOT REPORTED	121	81	31	6	-	-	3
ALL OCCUPIED HOUSING UNITS	80 072	54 889	9 715	3 630	3 028	5 040	3 770
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	52 516	46 331	2 247	258	158	481	3 041
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 461	2 255	36	3	2	27	138
WITH SELECTED HEATING EQUIPMENT[2]	50 055	44 076	2 211	254	156	454	2 903
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	45 820	40 242	2 072	234	155	425	2 693
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	4 116	3 733	132	20	2	26	205
SOLAR HEATING EQUIPMENT	54	51	-	-	-	-	2
STOVE, BURNING WOOD OR COAL	1 441	1 360	25	-	-	-	55
FIREPLACE, BURNING WOOD OR COAL	602	569	11	5	2	2	13
PORTABLE ELECTRIC HEATER	1 460	1 235	77	9	-	24	114
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	308	282	12	-	-	-	14
OTHER	400	377	10	5	-	-	9
NOT REPORTED	119	102	8	1	-	3	6
RENTER OCCUPIED	27 556	8 558	7 468	3 373	2 870	4 559	728
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 278	883	180	76	35	69	34
WITH SELECTED HEATING EQUIPMENT[2]	26 278	7 674	7 288	3 297	2 835	4 490	694
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 837	7 098	6 911	3 153	2 753	4 265	658
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 358	556	357	131	76	203	34
SOLAR HEATING EQUIPMENT	5	5	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	117	107	6	-	-	2	2
FIREPLACE, BURNING WOOD OR COAL	40	28	6	5	-	2	-
PORTABLE ELECTRIC HEATER	1 034	337	314	105	66	183	29
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	102	65	17	13	3	1	2
OTHER	88	34	20	10	7	17	-
NOT REPORTED	83	20	20	13	6	22	2
AIR CONDITIONING							
OWNER OCCUPIED	52 516	46 331	2 247	258	158	481	3 041
WITH AIR CONDITIONING	32 432	28 533	1 289	183	118	409	1 899
ROOM UNITS	16 686	14 483	965	61	44	153	981
1	10 301	8 791	568	43	36	54	807
2	4 532	4 019	290	14	3	51	155
3	1 317	1 193	74	4	3	31	11
4	369	336	26	-	-	5	3
5 OR MORE	167	143	7	-	-	12	5
CENTRAL SYSTEM	15 746	14 050	324	123	73	256	919
WITH NO AIR CONDITIONING	20 084	17 797	958	74	40	72	1 142
RENTER OCCUPIED	27 556	8 558	7 468	3 373	2 870	4 559	728
WITH AIR CONDITIONING	13 416	3 597	3 111	1 751	1 903	2 645	408
ROOM UNITS	8 174	2 502	2 240	867	818	1 490	256
1	6 289	1 837	1 746	734	679	1 081	214
2	1 552	529	420	119	122	321	41
3	240	101	48	10	14	67	-
4	61	20	16	5	3	14	2
5 OR MORE	31	15	10	-	-	7	-
CENTRAL SYSTEM	5 242	1 095	870	884	1 085	1 156	152
WITH NO AIR CONDITIONING	14 140	4 960	4 357	1 622	967	1 913	320

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	52 516	46 331	2 247	258	158	481	3 041
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	15 746	14 050	324	123	73	256	919
WITH SUPPLEMENTAL EQUIPMENT USED	8 107	7 431	131	52	17	56	421
INDIVIDUAL ROOM AIR CONDITIONING UNIT	405	379	5	-	-	5	16
AWNINGS	1 050	893	14	9	2	4	128
DEHUMIDIFIER	1 463	1 415	26	6	-	6	10
CEILING FAN	1 249	1 187	23	2	2	8	26
ATTIC FAN	2 238	2 204	24	2	1	-	8
WINDOW FAN	586	532	9	10	2	2	31
PORTABLE FAN	3 926	3 461	76	32	12	40	305
WITH NO SUPPLEMENTAL EQUIPMENT USED	7 334	6 348	188	68	55	199	475
NOT REPORTED	305	271	6	3	2	2	23
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	36 770	32 280	1 923	135	85	225	2 122
RENTER OCCUPIED	27 556	8 558	7 468	3 373	2 870	4 559	728
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 242	1 095	870	884	1 085	1 156	152
WITH SUPPLEMENTAL EQUIPMENT USED	1 373	427	221	215	215	231	64
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	14	15	2	2	34	3
AWNINGS	64	38	5	5	5	8	4
DEHUMIDIFIER	52	34	12	-	-	6	-
CEILING FAN	56	36	6	9	2	2	1
ATTIC FAN	81	73	8	-	-	-	-
WINDOW FAN	163	45	35	31	30	13	8
PORTABLE FAN	1 025	275	166	175	181	179	50
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 757	638	623	667	851	892	86
NOT REPORTED	112	30	26	2	18	32	3
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	22 314	7 463	6 597	2 489	1 786	3 403	576

TABLE A-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS	80 072	1 151	2 132	7 727	15 197	19 266	16 600	17 999	5.2
HOUSE HEATING FUEL									
OWNER OCCUPIED	52 516	116	344	1 224	6 392	13 905	14 001	16 535	5.8
UTILITY GAS	29 608	57	151	507	3 260	7 898	8 258	9 478	5.8
BOTTLED, TANK, OR LP GAS	3 239	17	49	193	687	991	703	598	5.2
FUEL OIL	9 274	10	64	198	1 006	2 116	2 486	3 392	6.0
KEROSENE, ETC	261	-	2	19	84	80	52	24	4.8
ELECTRICITY	8 671	20	48	233	1 105	2 412	2 152	2 701	5.7
COAL OR COKE	228	-	3	7	28	55	64	71	5.8
WOOD	983	6	17	46	180	281	236	216	5.4
SOLAR HEAT	10	-	-	-	-	4	4	2	...
OTHER FUEL	18	-	-	-	2	2	6	7	...
NONE	225	4	8	20	41	65	40	46	5.1
RENTER OCCUPIED	27 556	1 035	1 788	6 504	8 805	5 362	2 599	1 464	4.0
UTILITY GAS	14 790	430	903	3 311	4 748	3 117	1 519	763	4.1
BOTTLED, TANK, OR LP GAS	931	18	31	108	295	250	130	99	4.5
FUEL OIL	5 226	255	361	1 351	1 472	927	503	359	3.9
KEROSENE, ETC	108	1	5	12	34	28	18	11	4.6
ELECTRICITY	5 536	249	389	1 535	1 990	857	338	178	3.8
COAL OR COKE	100	2	2	14	31	26	13	13	4.6
WOOD	394	9	17	50	125	102	58	33	4.5
SOLAR HEAT	3	-	-	-	3	-	-	-	...
OTHER FUEL	79	20	15	24	15	3	-	3	2.7
NONE	388	51	66	99	93	52	20	6	3.3
WATER HEATING FUEL[1]									
OWNER OCCUPIED	51 770	96	314	1 128	6 182	13 732	13 877	16 441	5.8
UTILITY GAS	27 696	46	125	419	2 898	7 306	7 923	8 979	5.9
BOTTLED, TANK, OR LP GAS	2 443	10	39	105	459	758	560	512	5.3
FUEL OIL	3 284	2	16	74	273	646	875	1 398	6.2
KEROSENE, ETC	22	-	1	2	6	4	4	5	...
ELECTRICITY	18 078	35	131	509	2 510	4 964	4 465	5 465	5.7
COAL OR COKE	29	-	-	-	4	7	11	8	...
WOOD	60	-	-	1	4	9	16	31	6.5+
SOLAR HEAT	52	-	-	1	4	11	10	27	6.5+
OTHER FUEL	14	-	-	4	1	3	2	4	...
NONE	90	2	2	14	23	25	12	13	4.7
RENTER OCCUPIED	26 907	990	1 746	6 371	8 585	5 259	2 525	1 431	4.0
UTILITY GAS	14 783	465	933	3 377	4 642	3 098	1 537	730	4.1
BOTTLED, TANK, OR LP GAS	661	11	25	60	204	192	89	81	4.7
FUEL OIL	3 114	195	259	942	923	496	192	107	3.7
KEROSENE, ETC	6	-	-	-	3	2	1	-	...
ELECTRICITY	8 140	279	507	1 941	2 774	1 441	694	503	4.0
COAL OR COKE	17	-	1	5	3	6	1	2	...
WOOD	6	-	1	-	-	2	1	1	...
SOLAR HEAT	15	-	4	2	4	2	3	-	...
OTHER FUEL	49	16	5	14	9	4	2	1	2.8
NONE	115	24	11	31	23	18	3	6	3.2
COOKING FUEL									
OWNER OCCUPIED	52 516	116	344	1 224	6 392	13 905	14 001	16 535	5.8
UTILITY GAS	18 452	29	103	468	2 550	5 297	5 232	4 773	5.6
BOTTLED, TANK, OR LP GAS	3 899	23	76	270	955	1 127	770	679	5.0
FUEL OIL	55	-	4	4	11	9	15	12	5.3
KEROSENE, ETC	9	1	-	1	2	2	1	2	...
ELECTRICITY	29 938	54	153	468	2 845	7 439	7 953	11 026	6.0
COAL OR COKE	9	-	-	-	1	2	2	4	...
WOOD	119	2	5	6	25	23	25	33	5.4
OTHER FUEL	15	-	1	4	-	5	2	4	...
NONE	20	7	1	3	4	2	2	2	...
RENTER OCCUPIED	27 556	1 035	1 788	6 504	8 805	5 362	2 599	1 464	4.0
UTILITY GAS	14 212	418	1 016	3 598	4 449	2 940	1 290	501	4.0
BOTTLED, TANK, OR LP GAS	1 207	18	51	171	408	303	152	105	4.4
FUEL OIL	76	7	16	16	22	8	4	3	3.4
KEROSENE, ETC	12	-	2	2	5	1	2	-	...
ELECTRICITY	11 791	437	687	2 689	3 893	2 093	1 142	850	4.0
COAL OR COKE	3	-	-	-	2	-	1	-	...
WOOD	50	2	5	12	9	9	7	5	4.0
OTHER FUEL	15	2	-	3	6	3	-	1	...
NONE	191	151	11	13	10	5	2	-	1.5-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE A-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
MONTHLY COST PAID FOR ELECTRICITY									
SPECIFIED OWNER OCCUPIED[1]	41 945	65	191	448	3 632	11 026	12 112	14 470	6.0
ELECTRICITY PAID FOR	41 914	63	190	447	3 626	11 017	12 106	14 465	6.0
LESS THAN $10	307	2	7	33	67	85	58	56	5.0
$10 TO $19	3 355	6	24	103	632	1 114	842	634	5.3
$20 TO $29	7 112	3	41	122	928	2 156	2 062	1 801	5.6
$30 TO $39	7 808	16	39	70	728	2 245	2 388	2 322	5.8
$40 TO $49	6 085	10	18	50	457	1 590	1 791	2 169	6.0
$50 TO $59	4 975	4	20	34	312	1 243	1 498	1 867	6.1
$60 TO $79	6 118	10	23	17	319	1 431	1 817	2 501	6.2
$80 TO $99	2 555	5	8	9	93	574	767	1 099	6.3
$100 TO $149	2 748	6	4	6	69	482	704	1 478	6.5+
$150 OR MORE	850	1	6	4	20	97	183	539	6.5+
MEDIAN	44	44	36	26	32	39	44	51	...
NO ELECTRICITY USED	32	2	1	2	6	9	5	6	...
SPECIFIED RENTER OCCUPIED[2]	26 874	1 027	1 775	6 474	8 673	5 193	2 454	1 279	4.0
ELECTRICITY PAID FOR	21 609	307	994	5 022	7 414	4 556	2 197	1 118	4.1
LESS THAN $10	1 495	62	176	594	429	170	45	19	3.3
$10 TO $19	5 368	104	338	1 763	1 893	862	292	115	3.8
$20 TO $29	5 197	82	238	1 164	1 839	1 123	535	216	4.1
$30 TO $39	3 541	37	97	680	1 241	845	409	232	4.3
$40 TO $49	2 091	9	66	356	713	483	300	164	4.4
$50 TO $59	1 486	3	34	185	574	358	199	133	4.4
$60 TO $79	1 380	6	32	158	474	371	217	122	4.5
$80 TO $99	475	1	8	53	130	161	77	45	4.8
$100 TO $149	441	3	3	43	89	147	105	52	5.1
$150 OR MORE	134	-	1	27	33	35	18	20	4.7
MEDIAN	27	18	19	21	27	31	35	38	...
INCLUDED IN RENT	5 208	703	775	1 437	1 246	632	256	158	3.3
NO ELECTRICITY USED	58	17	7	15	13	5	-	2	2.9
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	41 945	65	191	448	3 632	11 026	12 112	14 470	6.0
GAS PAID FOR	31 088	50	136	347	2 750	8 140	9 132	10 534	5.9
LESS THAN $10	1 741	2	6	42	254	493	491	454	5.6
$10 TO $14	2 216	6	12	54	276	701	660	509	5.6
$15 TO $19	2 345	1	17	45	272	742	708	559	5.6
$20 TO $24	2 964	2	18	38	335	847	886	837	5.8
$25 TO $29	2 675	2	11	37	328	771	777	750	5.7
$30 TO $39	5 587	11	21	51	584	1 583	1 649	1 689	5.8
$40 TO $49	4 657	17	21	36	297	1 264	1 443	1 578	6.0
$50 TO $69	5 933	8	22	32	300	1 282	1 741	2 548	6.3
$70 TO $99	2 089	1	7	10	70	340	581	1 081	6.5+
$100 OR MORE	881	1	1	2	34	118	196	530	6.5+
MEDIAN	36	41	32	23	28	33	36	43	...
NO GAS USED	10 857	16	56	102	882	2 886	2 980	3 937	6.0
SPECIFIED RENTER OCCUPIED[2]	26 874	1 027	1 775	6 474	8 673	5 193	2 454	1 279	4.0
GAS PAID FOR	13 354	154	504	2 709	4 378	3 167	1 657	784	4.3
LESS THAN $10	3 185	100	260	1 062	1 103	435	151	75	3.6
$10 TO $14	2 070	27	102	511	767	442	171	50	4.0
$15 TO $19	1 521	9	45	331	549	355	173	61	4.2
$20 TO $24	1 313	5	24	236	449	330	202	67	4.4
$25 TO $29	1 001	3	32	154	346	267	147	52	4.4
$30 TO $39	1 484	6	21	176	497	454	230	100	4.6
$40 TO $49	997	2	12	90	288	329	173	105	4.8
$50 TO $69	1 091	1	4	98	238	348	245	158	5.1
$70 TO $99	451	-	3	32	95	144	110	68	5.2
$100 OR MORE	239	2	2	19	46	65	56	49	5.3
MEDIAN	19	10-	10-	12	17	25	29	38	...
INCLUDED IN RENT	8 159	602	911	2 384	2 439	1 201	392	231	3.6
NO GAS USED	5 362	271	360	1 382	1 856	825	405	264	3.9

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	41 945	65	191	448	3 632	11 026	12 112	14 470	6.0
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	10 622	20	50	103	788	2 248	2 997	4 418	6.2
LESS THAN $100	1 787	8	3	17	104	322	468	865	6.4
$100 TO $199	1 208	1	5	18	84	267	306	527	6.3
$200 TO $299	703	3	6	14	70	172	171	267	6.0
$300 TO $399	697	2	6	10	101	211	180	187	5.6
$400 TO $499	733	-	5	6	95	218	222	187	5.7
$500 TO $599	802	1	4	17	88	234	257	202	5.7
$600 TO $699	837	-	6	6	66	188	264	308	6.1
$700 TO $799	641	2	3	4	50	143	187	252	6.1
$800 OR MORE	3 214	2	12	11	131	493	943	1 623	6.5+
MEDIAN	523	...	501	331	436	469	558	586	...
FUELS NOT USED OR FREE	31 323	46	141	346	2 844	8 778	9 115	10 053	5.9
SPECIFIED RENTER OCCUPIED[2]	26 874	1 027	1 775	6 474	8 673	5 193	2 454	1 279	4.0
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 194	30	37	219	564	584	429	332	4.9
LESS THAN $100	431	25	15	66	94	122	61	47	4.6
$100 TO $199	275	2	5	60	69	59	52	28	4.5
$200 TO $299	198	-	5	27	67	49	33	17	4.5
$300 TO $399	212	2	4	22	72	50	35	25	4.6
$400 TO $499	203	-	4	16	75	43	40	25	4.6
$500 TO $599	156	-	3	10	44	38	31	30	5.0
$600 TO $699	139	1	-	4	31	49	33	21	5.2
$700 TO $799	126	-	-	3	35	40	27	20	5.1
$800 OR MORE	454	-	1	11	75	132	117	119	5.6
MEDIAN	390	...	155	172	371	425	482	578	...
INCLUDED IN RENT	5 885	331	528	1 734	1 816	967	378	131	3.7
FUELS NOT USED OR FREE	18 795	667	1 210	4 522	6 293	3 642	1 647	815	4.0
ALL OCCUPIED HOUSING UNITS	80 072	1 151	2 132	7 727	15 197	19 266	16 600	17 999	5.2
HEATING EQUIPMENT									
OWNER OCCUPIED	52 516	116	344	1 224	6 392	13 905	14 001	16 535	5.8
WARM-AIR FURNACE	31 569	51	174	510	3 435	8 212	8 603	10 584	5.9
HEAT PUMP	1 419	1	9	37	125	285	323	639	6.3
STEAM OR HOT WATER	6 803	9	21	128	533	1 248	1 968	2 897	6.2
BUILT-IN ELECTRIC UNITS	3 159	11	22	111	417	985	779	836	5.5
FLOOR, WALL, OR PIPELESS FURNACE	3 303	8	30	78	626	1 282	837	442	5.2
ROOM HEATERS WITH FLUE	2 108	8	38	132	454	635	500	341	5.2
ROOM HEATERS WITHOUT FLUE	1 694	6	15	97	377	545	405	250	5.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	2 236	19	27	112	384	648	547	499	5.4
NONE	225	4	8	20	41	65	40	46	5.1
RENTER OCCUPIED	27 556	1 035	1 788	6 504	8 805	5 362	2 599	1 464	4.0
WARM-AIR FURNACE	10 239	154	390	1 913	3 410	2 327	1 259	785	4.3
HEAT PUMP	324	8	17	97	106	42	29	25	3.9
STEAM OR HOT WATER	6 786	445	566	1 972	1 982	1 056	478	287	3.7
BUILT-IN ELECTRIC UNITS	2 725	200	267	814	882	355	140	67	3.6
FLOOR, WALL, OR PIPELESS FURNACE	2 961	64	221	762	1 090	548	209	65	3.9
ROOM HEATERS WITH FLUE	1 939	63	144	398	593	426	214	100	4.1
ROOM HEATERS WITHOUT FLUE	1 303	22	71	309	383	330	136	53	4.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	890	27	46	139	265	225	112	76	4.4
NONE	388	51	66	99	93	52	20	6	3.3
FIREPLACES AND HEATING STOVES									
OWNER OCCUPIED	52 516	116	344	1 224	6 392	13 905	14 001	16 535	5.8
HOUSING UNITS WITH HEATING EQUIPMENT	52 291	112	335	1 203	6 351	13 840	13 961	16 489	5.8
WITH FIREPLACE OR HEATING STOVE	24 372	55	104	277	1 566	4 770	6 665	10 935	6.3
IN WORKING ORDER	23 138	53	101	255	1 451	4 473	6 272	10 534	6.3
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	18 444	47	73	191	1 023	3 404	4 913	8 792	6.4
ALL PURCHASED	5 594	19	17	46	279	914	1 416	2 903	6.5+
SOME OR NONE PURCHASED	12 599	28	55	142	737	2 457	3 418	5 763	6.3
NOT REPORTED	250	-	2	3	7	33	79	126	6.5+
COAL	224	1	3	5	39	55	58	63	5.6
OTHER FUEL	2 043	5	18	43	229	499	566	684	5.9
NONE	2 359	-	7	14	156	506	722	954	6.2
NOT REPORTED	68	-	-	2	4	9	12	41	6.5+
NOT IN WORKING ORDER	1 174	3	2	17	105	288	379	379	5.9
NOT REPORTED	60	-	1	5	10	9	13	22	5.9
WITHOUT FIREPLACE OR HEATING STOVE	27 802	56	230	927	4 761	9 026	7 270	5 532	5.4
NOT REPORTED	117	-	1	-	24	44	26	22	5.3
HOUSING UNITS WITH NO HEATING EQUIPMENT	225	4	8	20	41	65	40	46	5.1

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
FIREPLACES AND HEATING STOVES--CONTINUED									
RENTER OCCUPIED	27 556	1 035	1 788	6 504	8 805	5 362	2 599	1 464	4.0
HOUSING UNITS WITH HEATING EQUIPMENT	27 168	984	1 722	6 404	8 712	5 309	2 578	1 458	4.0
WITH FIREPLACE OR HEATING STOVE	4 173	48	131	462	1 015	1 063	783	670	4.9
IN WORKING ORDER	3 528	41	101	379	854	885	667	601	4.9
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	2 104	25	48	154	420	549	446	463	5.2
ALL PURCHASED	694	8	18	53	153	183	132	146	5.1
SOME OR NONE PURCHASED	1 326	16	27	93	246	356	297	289	5.3
NOT REPORTED	84	-	2	8	20	10	16	27	5.6
COAL	70	-	-	11	29	10	15	6	4.3
OTHER FUEL	857	10	44	149	276	213	107	58	4.3
NONE	464	7	9	64	121	108	86	69	4.8
NOT REPORTED	32	-	1	-	8	5	13	4	...
NOT IN WORKING ORDER	613	5	28	82	146	172	113	67	4.8
NOT REPORTED	32	2	2	2	16	6	2	2	...
WITHOUT FIREPLACE OR HEATING STOVE	22 914	929	1 579	5 930	7 672	4 231	1 788	785	3.9
NOT REPORTED	80	7	12	12	24	16	8	2	3.9
HOUSING UNITS WITH NO HEATING EQUIPMENT	388	51	66	99	93	52	20	6	3.3
ALL OCCUPIED HOUSING UNITS	80 072	1 151	2 132	7 727	15 197	19 266	16 600	17 999	5.2
UNITS OCCUPIED LAST WINTER	69 337	771	1 529	5 645	12 158	17 101	15 340	16 794	5.3
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	49 790	103	317	1 077	5 950	13 213	13 412	15 720	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	76	271	871	5 179	11 991	12 458	14 941	5.9
NO ADDITIONAL HEAT SOURCE USED	42 235	70	241	784	4 741	11 083	11 542	13 772	5.9
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 827	4	22	61	325	688	740	986	5.9
NOT REPORTED	726	2	8	25	113	219	176	183	5.5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	27	46	206	770	1 222	953	778	5.3
RENTER OCCUPIED	19 547	668	1 211	4 568	6 208	3 889	1 928	1 074	4.0
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	611	1 102	4 171	5 637	3 429	1 709	965	4.0
NO ADDITIONAL HEAT SOURCE USED	14 852	536	930	3 532	4 729	2 864	1 432	829	4.0
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 378	67	147	545	760	499	232	126	4.1
NOT REPORTED	394	7	25	93	148	67	45	10	4.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	58	109	397	571	459	220	109	4.2
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	49 790	103	317	1 077	5 950	13 213	13 412	15 720	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	76	271	871	5 179	11 991	12 458	14 941	5.9
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	37 144	65	217	695	3 985	9 669	10 134	12 379	5.9
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 818	9	45	143	1 072	2 093	2 111	2 345	5.8
1 ROOM	2 418	9	21	68	234	462	697	927	6.1
2 ROOMS	1 956	-	24	57	441	522	416	496	5.4
3 ROOMS OR MORE	3 444	-	-	18	396	1 109	998	922	5.7
NOT REPORTED	826	2	8	33	123	229	213	217	5.6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	27	46	206	770	1 222	953	778	5.3
RENTER OCCUPIED	19 547	668	1 211	4 568	6 208	3 889	1 928	1 074	4.0
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	611	1 102	4 171	5 637	3 429	1 709	965	4.0
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	13 284	596	923	3 298	4 153	2 466	1 197	652	3.9
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 923	11	152	775	1 332	887	462	304	4.3
1 ROOM	1 344	11	127	517	315	184	108	82	3.5
2 ROOMS	1 254	-	26	188	663	218	90	69	4.1
3 ROOMS OR MORE	1 325	-	-	70	354	484	264	153	5.0
NOT REPORTED	417	4	27	98	152	77	50	10	4.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	58	109	397	571	459	220	109	4.2
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	49 790	103	317	1 077	5 950	13 213	13 412	15 720	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	76	271	871	5 179	11 991	12 458	14 941	5.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	27	46	206	770	1 222	953	778	5.3
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	3 348	19	40	168	639	1 041	783	657	5.3
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	399	6	4	29	83	91	107	79	5.3
NOT REPORTED	256	2	2	8	48	90	64	42	5.3

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE A-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
UNITS OCCUPIED LAST WINTER--CONTINUED									
INSUFFICIENT HEAT--CONTINUED									
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED									
RENTER OCCUPIED	19 547	668	1 211	4 568	6 208	3 889	1 928	1 074	4.0
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	611	1 102	4 171	5 637	3 429	1 709	965	4.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	58	109	397	571	459	220	109	4.2
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 442	42	86	309	424	344	156	81	4.2
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	359	12	15	73	115	81	48	16	4.2
NOT REPORTED	121	4	9	15	31	34	16	12	4.5
ALL OCCUPIED HOUSING UNITS	80 072	1 151	2 132	7 727	15 197	19 266	16 600	17 999	5.2
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	52 516	116	344	1 224	6 392	13 905	14 001	16 535	5.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 461	23	36	132	426	713	587	545	5.4
WITH SELECTED HEATING EQUIPMENT[2]	50 055	93	308	1 092	5 966	13 192	13 415	15 990	5.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	45 820	78	271	1 017	5 546	12 213	12 357	14 338	5.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	4 116	13	37	75	397	932	1 031	1 631	6.1
SOLAR HEATING EQUIPMENT	54	-	-	-	5	14	6	28	6.5+
STOVE, BURNING WOOD OR COAL	1 441	5	8	14	109	332	378	593	6.2
FIREPLACE, BURNING WOOD OR COAL	602	4	4	8	32	118	152	285	6.4
PORTABLE ELECTRIC HEATER	1 460	4	17	41	189	335	366	508	5.9
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	308	-	3	5	41	83	73	104	5.8
OTHER	400	-	5	9	27	76	97	185	6.3
NOT REPORTED	119	2	-	-	23	47	27	21	5.2
RENTER OCCUPIED	27 556	1 035	1 788	6 504	8 805	5 362	2 599	1 464	4.0
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 278	78	111	238	358	277	133	82	4.1
WITH SELECTED HEATING EQUIPMENT[2]	26 278	957	1 677	6 266	8 446	5 084	2 466	1 382	4.0
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 837	923	1 611	5 977	8 027	4 744	2 285	1 269	4.0
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 358	29	56	264	405	322	170	112	4.3
SOLAR HEATING EQUIPMENT	5	-	-	-	1	2	2	1	...
STOVE, BURNING WOOD OR COAL	117	-	-	6	20	28	34	29	5.6
FIREPLACE, BURNING WOOD OR COAL	40	-	2	2	9	15	8	5	5.0
PORTABLE ELECTRIC HEATER	1 034	24	44	238	323	242	107	55	4.1
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	102	2	6	14	30	26	12	14	4.5
OTHER	88	4	5	10	25	22	11	11	4.5
NOT REPORTED	83	5	10	24	14	18	11	1	3.7
AIR CONDITIONING									
OWNER OCCUPIED	52 516	116	344	1 224	6 392	13 905	14 001	16 535	5.8
WITH AIR CONDITIONING	32 432	67	188	640	3 681	8 542	8 748	10 566	5.8
ROOM UNITS	16 686	33	108	418	2 332	4 839	4 537	4 419	5.6
1	10 301	25	79	349	1 710	3 182	2 601	2 355	5.4
2	4 532	4	19	62	499	1 293	1 382	1 273	5.8
3	1 317	3	7	5	103	287	412	500	6.1
4	369	2	2	2	15	52	110	187	6.5+
5 OR MORE	167	-	-	1	4	24	32	105	6.5+
CENTRAL SYSTEM	15 746	34	80	222	1 349	3 703	4 211	6 147	6.1
WITH NO AIR CONDITIONING	20 084	49	156	584	2 711	5 363	5 254	5 968	5.7
RENTER OCCUPIED	27 556	1 035	1 788	6 504	8 805	5 362	2 599	1 464	4.0
WITH AIR CONDITIONING	13 416	320	720	3 329	4 620	2 550	1 211	666	4.0
ROOM UNITS	8 174	215	506	2 073	2 690	1 558	748	384	4.0
1	6 289	212	448	1 725	2 054	1 104	499	248	3.9
2	1 552	2	57	317	515	379	186	97	4.3
3	240	2	2	26	89	55	42	26	4.5
4	61	-	-	5	25	12	13	6	4.5
5 OR MORE	31	-	-	-	7	8	8	8	...
CENTRAL SYSTEM	5 242	105	214	1 256	1 930	992	463	282	4.0
WITH NO AIR CONDITIONING	14 140	714	1 068	3 174	4 185	2 812	1 388	798	4.0

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE A-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
SUPPLEMENTAL COOLING EQUIPMENT									
OWNER OCCUPIED	52 516	116	344	1 224	6 392	13 905	14 001	16 535	5.8
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	15 746	34	80	222	1 349	3 703	4 211	6 147	6.1
WITH SUPPLEMENTAL EQUIPMENT USED	8 107	20	37	85	601	1 758	2 226	3 380	6.2
INDIVIDUAL ROOM AIR CONDITIONING UNIT	405	3	2	1	19	67	122	193	6.4
AWNINGS	1 050	8	7	21	136	316	289	274	5.6
DEHUMIDIFIER	1 463	5	6	5	89	278	386	694	6.4
CEILING FAN	1 249	-	5	13	56	231	365	579	6.4
ATTIC FAN	2 238	3	10	6	68	343	600	1 208	6.5+
WINDOW FAN	586	-	4	7	35	140	158	243	6.2
PORTABLE FAN	3 926	9	13	54	387	941	1 083	1 439	6.0
WITH NO SUPPLEMENTAL EQUIPMENT USED	7 334	14	37	130	716	1 864	1 894	2 678	6.0
NOT REPORTED	305	-	6	7	32	81	90	89	5.8
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	36 770	82	263	1 002	5 043	10 201	9 791	10 388	5.7
RENTER OCCUPIED	27 556	1 035	1 788	6 504	8 805	5 362	2 599	1 464	4.0
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 242	105	214	1 256	1 930	992	463	282	4.0
WITH SUPPLEMENTAL EQUIPMENT USED	1 373	16	37	263	471	302	160	124	4.3
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	2	2	22	18	13	8	4	4.0
AWNINGS	64	-	1	11	11	14	14	12	5.1
DEHUMIDIFIER	52	-	2	5	5	11	8	22	6.0
CEILING FAN	56	-	-	4	18	14	9	12	4.9
ATTIC FAN	81	-	-	2	9	21	23	27	5.9
WINDOW FAN	163	3	5	32	61	35	13	14	4.2
PORTABLE FAN	1 025	10	32	200	370	230	111	71	4.2
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 757	87	164	963	1 422	673	296	152	4.0
NOT REPORTED	112	2	13	30	36	17	7	5	3.8
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	22 314	930	1 574	5 247	6 875	4 370	2 135	1 183	4.0
ALL OCCUPIED HOUSING UNITS	80 072	1 151	2 132	7 727	15 197	19 266	16 600	17 999	5.2
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	58 658	174	540	1 834	7 985	15 479	15 176	17 471	5.7
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	49 372	100	307	876	5 468	12 950	13 446	16 226	5.9
ALL WINDOWS COVERED	27 736	48	138	322	2 656	6 896	7 684	9 992	6.0
SOME WINDOWS COVERED	5 545	9	34	82	554	1 229	1 441	2 196	6.1
NO WINDOWS COVERED	15 920	42	135	467	2 226	4 764	4 279	4 008	5.6
NOT REPORTED	171	1	-	5	32	61	42	30	5.3
RENTER OCCUPIED	9 286	74	233	958	2 517	2 529	1 730	1 245	4.8
ALL WINDOWS COVERED	2 913	10	33	188	688	813	606	575	5.2
SOME WINDOWS COVERED	1 026	1	14	73	225	257	234	223	5.3
NO WINDOWS COVERED	4 952	54	176	600	1 458	1 374	857	434	4.6
NOT REPORTED	396	10	11	97	146	86	33	14	4.0
STORM DOORS									
OWNER OCCUPIED	49 372	100	307	876	5 468	12 950	13 446	16 226	5.9
ALL DOORS COVERED	25 312	43	109	225	2 295	6 547	7 349	8 746	6.0
SOME DOORS COVERED	7 017	10	46	76	785	1 796	1 774	2 530	5.9
NO DOORS COVERED	16 854	46	152	569	2 352	4 546	4 271	4 917	5.7
NOT REPORTED	189	1	-	6	36	62	52	33	5.3
RENTER OCCUPIED	9 286	74	233	958	2 517	2 529	1 730	1 245	4.8
ALL DOORS COVERED	2 492	6	21	121	553	724	566	500	5.3
SOME DOORS COVERED	978	-	8	39	235	282	208	205	5.2
NO DOORS COVERED	5 420	56	193	701	1 582	1 438	923	529	4.6
NOT REPORTED	396	10	11	97	148	85	34	12	4.0
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	49 372	100	307	876	5 468	12 950	13 446	16 226	5.9
YES	41 331	82	230	603	4 091	10 642	11 337	14 345	5.9
NO	6 165	11	66	206	1 025	1 774	1 624	1 458	5.5
DON'T KNOW	1 663	6	11	62	318	459	433	374	5.4
NOT REPORTED	214	1	-	5	33	75	51	49	5.4
RENTER OCCUPIED	9 286	74	233	958	2 517	2 529	1 730	1 245	4.8
YES	4 107	22	61	306	955	1 136	914	714	5.1
NO	2 663	28	99	346	790	685	426	290	4.6
DON'T KNOW	2 113	15	63	207	626	620	356	227	4.7
NOT REPORTED	402	10	11	98	146	89	35	14	4.1

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL		YEAR STRUCTURE BUILT					
			MARCH 1970 OR EARLIER				
	TOTAL	APRIL 1970 OR LATER	TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS	80 072	18 213	61 859	16 754	13 427	7 430	24 248
HOUSE HEATING FUEL							
OWNER OCCUPIED	52 516	12 568	39 949	11 227	10 158	4 884	13 680
UTILITY GAS	29 608	5 161	24 447	6 669	6 586	3 081	8 112
BOTTLED, TANK, OR LP GAS	3 239	999	2 239	723	417	298	801
FUEL OIL	9 274	971	8 302	1 626	2 010	1 006	3 659
KEROSENE, ETC	261	57	204	81	40	31	51
ELECTRICITY	8 671	5 062	3 610	1 880	888	310	533
COAL OR COKE	228	8	221	17	26	32	145
WOOD	983	248	734	168	132	102	333
SOLAR HEAT	10	8	3	1	2	-	-
OTHER FUEL	18	4	14	4	1	1	8
NONE	225	50	175	58	56	23	38
RENTER OCCUPIED	27 556	5 646	21 910	5 527	3 269	2 546	10 569
UTILITY GAS	14 790	2 079	12 711	3 002	2 059	1 608	6 041
BOTTLED, TANK, OR LP GAS	931	118	813	182	135	109	386
FUEL OIL	5 226	357	4 869	720	595	505	3 049
KEROSENE, ETC	108	11	98	15	16	8	60
ELECTRICITY	5 536	2 999	2 536	1 490	332	189	525
COAL OR COKE	100	2	98	2	10	7	79
WOOD	394	17	377	45	48	47	238
SOLAR HEAT	3	3	-	-	-	-	-
OTHER FUEL	79	13	66	10	2	9	45
NONE	388	46	342	59	72	65	146
WATER HEATING FUEL[1]							
OWNER OCCUPIED	51 770	12 470	39 300	11 117	10 054	4 758	13 372
UTILITY GAS	27 696	4 671	23 025	6 133	6 184	2 852	7 856
BOTTLED, TANK, OR LP GAS	2 443	681	1 762	506	330	212	714
FUEL OIL	3 284	338	2 946	633	706	356	1 252
KEROSENE, ETC	22	14	8	3	2	-	3
ELECTRICITY	18 078	6 712	11 366	3 794	2 801	1 327	3 444
COAL OR COKE	29	1	28	2	-	2	24
WOOD	60	14	46	11	2	1	32
SOLAR HEAT	52	29	24	7	11	-	6
OTHER FUEL	14	5	9	4	2	-	3
NONE	90	6	84	24	14	8	38
RENTER OCCUPIED	26 907	5 626	21 281	5 456	3 190	2 459	10 176
UTILITY GAS	14 783	2 121	12 662	2 980	1 990	1 547	6 144
BOTTLED, TANK, OR LP GAS	661	77	585	120	84	75	305
FUEL OIL	3 114	186	2 928	418	355	311	1 844
KEROSENE, ETC	6	-	6	-	2	1	3
ELECTRICITY	8 140	3 213	4 927	1 912	740	497	1 778
COAL OR COKE	17	-	17	-	-	1	16
WOOD	6	-	6	-	1	1	3
SOLAR HEAT	15	10	5	2	3	-	-
OTHER FUEL	49	11	38	8	2	8	20
NONE	115	8	108	16	12	17	62
COOKING FUEL							
OWNER OCCUPIED	52 516	12 568	39 949	11 227	10 158	4 884	13 680
UTILITY GAS	18 452	2 354	16 098	3 272	3 920	2 237	6 669
BOTTLED, TANK, OR LP GAS	3 899	1 086	2 813	887	499	339	1 088
FUEL OIL	55	10	45	9	10	3	23
KEROSENE, ETC	9	3	5	2	-	-	3
ELECTRICITY	29 938	9 103	20 835	7 035	5 711	2 288	5 801
COAL OR COKE	9	1	8	-	-	-	8
WOOD	119	7	112	13	10	13	77
OTHER FUEL	15	3	12	6	5	-	2
NONE	20	1	19	4	4	3	8

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
COOKING FUEL--CONTINUED							
RENTER OCCUPIED	27 556	5 646	21 910	5 527	3 269	2 546	10 569
UTILITY GAS	14 212	1 394	12 818	2 281	1 897	1 677	6 965
BOTTLED, TANK, OR LP GAS	1 207	141	1 066	251	150	122	543
FUEL OIL	76	13	63	12	9	8	34
KEROSENE, ETC	12	1	11	2	2	1	6
ELECTRICITY	11 791	4 092	7 699	2 968	1 192	712	2 827
COAL OR COKE	3	1	2	-	-	-	2
WOOD	50	-	50	5	5	8	32
OTHER FUEL	15	3	12	3	2	2	5
NONE	191	2	189	6	12	17	155
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	41 945	8 903	33 042	9 140	9 271	4 318	10 313
ELECTRICITY PAID FOR	41 914	8 899	33 015	9 133	9 262	4 317	10 304
LESS THAN $10	307	12	295	25	41	39	190
$10 TO $19	3 355	246	3 108	374	775	529	1 430
$20 TO $29	7 112	854	6 259	1 177	1 690	960	2 432
$30 TO $39	7 808	1 170	6 638	1 571	1 930	960	2 177
$40 TO $49	6 085	1 060	5 025	1 517	1 388	628	1 492
$50 TO $59	4 975	1 113	3 862	1 256	1 145	451	1 009
$60 TO $79	6 118	1 857	4 261	1 623	1 289	440	909
$80 TO $99	2 555	1 029	1 526	641	443	134	309
$100 TO $149	2 748	1 147	1 602	745	448	136	272
$150 OR MORE	850	411	439	204	114	38	82
MEDIAN	44	59	40	48	41	36	35
NO ELECTRICITY USED	32	4	27	7	9	2	9
SPECIFIED RENTER OCCUPIED[2]	26 874	5 607	21 267	5 458	3 203	2 478	10 129
ELECTRICITY PAID FOR	21 609	4 573	17 036	4 367	2 586	1 975	8 108
LESS THAN $10	1 495	195	1 300	329	194	141	637
$10 TO $19	5 368	746	4 622	1 059	646	543	2 374
$20 TO $29	5 197	791	4 406	1 056	626	485	2 239
$30 TO $39	3 541	793	2 748	675	417	324	1 332
$40 TO $49	2 091	603	1 488	414	251	188	634
$50 TO $59	1 486	476	1 010	313	189	127	381
$60 TO $79	1 380	531	849	300	151	92	305
$80 TO $99	475	190	285	93	54	41	98
$100 TO $149	441	209	233	95	43	29	66
$150 OR MORE	134	40	94	32	16	5	41
MEDIAN	27	36	25	27	27	26	24
INCLUDED IN RENT	5 208	1 031	4 177	1 085	610	495	1 987
NO ELECTRICITY USED	58	3	55	6	7	8	35
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	41 945	8 903	33 042	9 140	9 271	4 318	10 313
GAS PAID FOR	31 088	4 777	26 311	6 859	7 244	3 507	8 700
LESS THAN $10	1 741	265	1 476	289	363	229	596
$10 TO $14	2 216	320	1 896	410	577	267	642
$15 TO $19	2 345	356	1 988	477	594	299	618
$20 TO $24	2 964	530	2 434	630	703	383	718
$25 TO $29	2 675	454	2 222	571	683	361	606
$30 TO $39	5 587	896	4 691	1 290	1 375	619	1 408
$40 TO $49	4 657	685	3 972	1 110	1 162	513	1 187
$50 TO $69	5 933	868	5 066	1 358	1 286	578	1 843
$70 TO $99	2 089	299	1 791	498	368	191	734
$100 OR MORE	881	105	776	226	134	68	348
MEDIAN	36	35	36	37	35	33	37
NO GAS USED	10 857	4 126	6 731	2 281	2 027	811	1 613

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	26 874	5 607	21 267	5 458	3 203	2 478	10 129
GAS PAID FOR	13 354	1 327	12 027	2 106	1 875	1 528	6 519
LESS THAN $10	3 185	273	2 912	527	450	363	1 572
$10 TO $14	2 070	227	1 843	341	320	228	954
$15 TO $19	1 521	174	1 348	281	256	179	632
$20 TO $24	1 313	141	1 172	223	177	181	590
$25 TO $29	1 001	107	894	187	114	139	454
$30 TO $39	1 484	179	1 305	233	235	171	666
$40 TO $49	997	107	890	129	138	98	525
$50 TO $69	1 091	82	1 010	121	117	124	648
$70 TO $99	451	25	427	42	40	26	318
$100 OR MORE	239	13	226	21	27	19	159
MEDIAN	19	19	19	18	18	19	21
INCLUDED IN RENT	8 159	1 943	6 216	2 077	901	682	2 556
NO GAS USED	5 362	2 338	3 024	1 275	427	268	1 054
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[2]	41 945	8 903	33 042	9 140	9 271	4 318	10 313
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	10 622	1 827	8 795	2 107	2 290	1 078	3 321
LESS THAN $100	1 787	583	1 204	503	309	96	297
$100 TO $199	1 208	400	807	318	210	74	205
$200 TO $299	703	160	543	157	146	71	169
$300 TO $399	697	111	586	139	155	87	206
$400 TO $499	733	80	653	96	219	82	257
$500 TO $599	802	73	729	132	182	109	306
$600 TO $699	837	99	737	143	192	109	293
$700 TO $799	641	50	591	86	154	98	253
$800 OR MORE	3 214	271	2 943	532	724	351	1 336
MEDIAN	523	182	582	353	558	618	675
FUELS NOT USED OR FREE	31 323	7 076	24 247	7 033	6 982	3 241	6 992
SPECIFIED RENTER OCCUPIED[1]	26 874	5 607	21 267	5 458	3 203	2 478	10 129
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 194	192	2 002	256	283	235	1 228
LESS THAN $100	431	88	343	57	58	50	178
$100 TO $199	275	49	226	38	40	30	119
$200 TO $299	198	11	187	29	27	30	101
$300 TO $399	212	15	197	39	28	16	114
$400 TO $499	203	6	197	25	32	24	116
$500 TO $599	156	6	150	22	22	25	81
$600 TO $699	139	3	137	14	24	17	82
$700 TO $799	126	5	121	11	12	12	85
$800 OR MORE	454	9	445	22	40	32	351
MEDIAN	390	116	424	312	357	347	487
INCLUDED IN RENT	5 885	799	5 086	1 036	663	558	2 829
FUELS NOT USED OR FREE	18 795	4 617	14 179	4 165	2 256	1 685	6 072
ALL OCCUPIED HOUSING UNITS	80 072	18 213	61 859	16 754	13 427	7 430	24 248
HEATING EQUIPMENT							
OWNER OCCUPIED	52 516	12 568	39 949	11 227	10 158	4 884	13 680
WARM-AIR FURNACE	31 569	8 716	22 853	7 574	6 332	2 425	6 522
HEAT PUMP	1 419	1 057	362	194	106	24	38
STEAM OR HOT WATER	6 803	560	6 243	1 130	1 127	605	3 381
BUILT-IN ELECTRIC UNITS	3 159	1 364	1 795	923	399	168	306
FLOOR, WALL, OR PIPELESS FURNACE	3 303	174	3 129	427	1 056	707	939
ROOM HEATERS WITH FLUE	2 108	85	2 023	249	364	313	1 097
ROOM HEATERS WITHOUT FLUE	1 694	83	1 611	236	342	388	646
FIREPLACES, STOVES, OR PORTABLE HEATERS	2 236	478	1 758	436	376	232	713
NONE	225	50	175	58	56	23	38
RENTER OCCUPIED	27 556	5 646	21 910	5 527	3 269	2 546	10 569
WARM-AIR FURNACE	10 239	3 373	6 866	2 511	1 020	580	2 755
HEAT PUMP	324	212	112	72	14	9	17
STEAM OR HOT WATER	6 786	586	6 199	1 000	599	604	3 997
BUILT-IN ELECTRIC UNITS	2 725	1 193	1 532	799	193	122	419
FLOOR, WALL, OR PIPELESS FURNACE	2 961	165	2 795	727	809	507	752
ROOM HEATERS WITH FLUE	1 939	15	1 924	142	233	243	1 305
ROOM HEATERS WITHOUT FLUE	1 303	19	1 285	134	212	291	648
FIREPLACES, STOVES, OR PORTABLE HEATERS	890	36	854	82	116	125	530
NONE	388	46	342	59	72	65	146

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	52 516	12 568	39 949	11 227	10 158	4 884	13 680
HOUSING UNITS WITH HEATING EQUIPMENT	52 291	12 517	39 773	11 169	10 102	4 861	13 642
WITH FIREPLACE OR HEATING STOVE	24 372	6 855	17 516	5 335	4 286	2 046	5 849
IN WORKING ORDER	23 138	6 759	16 379	5 245	4 119	1 884	5 131
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	18 444	5 854	12 589	4 426	3 211	1 351	3 601
ALL PURCHASED	5 594	1 936	3 658	1 467	904	355	933
SOME OR NONE PURCHASED	12 599	3 847	8 753	2 899	2 277	973	2 604
NOT REPORTED	250	72	178	61	30	24	64
COAL	224	22	203	30	32	33	109
OTHER FUEL	2 043	341	1 702	366	342	248	746
NONE	2 359	510	1 848	412	520	250	666
NOT REPORTED	68	31	37	11	13	2	11
NOT IN WORKING ORDER	1 174	79	1 095	80	155	155	705
NOT REPORTED	60	18	42	10	12	7	12
WITHOUT FIREPLACE OR HEATING STOVE	27 802	5 637	22 166	5 813	5 793	2 798	7 762
NOT REPORTED	117	25	91	20	24	16	31
HOUSING UNITS WITH NO HEATING EQUIPMENT	225	50	175	58	56	23	38
RENTER OCCUPIED	27 556	5 646	21 910	5 527	3 269	2 546	10 569
HOUSING UNITS WITH HEATING EQUIPMENT	27 168	5 599	21 568	5 468	3 197	2 481	10 422
WITH FIREPLACE OR HEATING STOVE	4 173	660	3 513	456	443	394	2 220
IN WORKING ORDER	3 528	644	2 884	430	407	332	1 716
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	2 104	390	1 714	310	287	213	903
ALL PURCHASED	694	173	521	115	86	64	256
SOME OR NONE PURCHASED	1 326	189	1 138	180	194	143	621
NOT REPORTED	84	28	56	16	7	6	27
COAL	70	4	67	1	5	7	54
OTHER FUEL	857	98	759	45	68	79	567
NONE	464	146	318	68	40	31	178
NOT REPORTED	32	6	26	5	6	2	14
NOT IN WORKING ORDER	613	14	600	22	34	58	486
NOT REPORTED	32	2	29	4	2	5	18
WITHOUT FIREPLACE OR HEATING STOVE	22 914	4 925	17 989	4 996	2 744	2 078	8 172
NOT REPORTED	80	15	66	15	10	9	31
HOUSING UNITS WITH NO HEATING EQUIPMENT	388	46	342	59	72	65	146
ALL OCCUPIED HOUSING UNITS	80 072	18 213	61 859	16 754	13 427	7 430	24 248
UNITS OCCUPIED LAST WINTER	69 337	14 473	54 864	14 674	12 248	6 692	21 250
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	49 790	11 143	38 648	10 849	9 839	4 745	13 214
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	10 573	35 215	10 148	9 083	4 122	11 862
NO ADDITIONAL HEAT SOURCE USED	42 235	9 890	32 345	9 439	8 374	3 797	10 735
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 827	487	2 340	569	568	262	941
NOT REPORTED	726	196	530	141	141	63	185
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	570	3 433	701	757	624	1 352
RENTER OCCUPIED	19 547	3 330	16 216	3 825	2 408	1 947	8 037
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	3 269	14 355	3 623	2 125	1 586	7 020
NO ADDITIONAL HEAT SOURCE USED	14 852	3 031	11 821	3 241	1 764	1 268	5 549
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 378	151	2 227	302	299	280	1 346
NOT REPORTED	394	87	307	81	63	38	126
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	61	1 862	201	283	361	1 017

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	49 790	11 143	38 648	10 849	9 839	4 745	13 214
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	10 573	35 215	10 148	9 083	4 122	11 862
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	37 144	9 935	27 209	8 969	7 262	2 907	8 071
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 818	426	7 392	1 009	1 660	1 138	3 585
1 ROOM	2 418	234	2 184	401	403	262	1 118
2 ROOMS	1 956	76	1 880	172	382	315	1 011
3 ROOMS OR MORE	3 444	116	3 327	435	875	560	1 457
NOT REPORTED	826	212	613	170	161	77	205
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	570	3 433	701	757	624	1 352
RENTER OCCUPIED	19 547	3 330	16 216	3 825	2 408	1 947	8 037
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	3 269	14 355	3 623	2 125	1 586	7 020
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	13 284	3 015	10 270	2 930	1 402	1 041	4 896
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 923	162	3 761	606	659	512	1 984
1 ROOM	1 344	94	1 251	205	170	153	722
2 ROOMS	1 254	50	1 204	236	217	178	573
3 ROOMS OR MORE	1 325	19	1 306	164	272	181	689
NOT REPORTED	417	93	324	87	64	33	139
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	61	1 862	201	283	361	1 017
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	49 790	11 143	38 648	10 849	9 839	4 745	13 214
WITH SPECIFIED HEATING EQUIPMENT[1]	45 788	10 573	35 215	10 148	9 083	4 122	11 862
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	4 003	570	3 433	701	757	624	1 352
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	3 348	491	2 857	592	649	510	1 107
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	399	43	356	59	65	85	147
NOT REPORTED	256	36	219	50	43	29	97
RENTER OCCUPIED	19 547	3 330	16 216	3 825	2 408	1 947	8 037
WITH SPECIFIED HEATING EQUIPMENT[1]	17 624	3 269	14 355	3 623	2 125	1 586	7 020
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 923	61	1 862	201	283	361	1 017
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 442	54	1 389	165	222	265	737
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	359	6	353	27	36	83	206
NOT REPORTED	121	2	120	9	25	13	73
ALL OCCUPIED HOUSING UNITS	80 072	18 213	61 859	16 754	13 427	7 430	24 248
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	52 516	12 568	39 949	11 227	10 158	4 884	13 680
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 461	529	1 933	494	432	255	751
WITH SELECTED HEATING EQUIPMENT[1]	50 055	12 039	38 016	10 733	9 726	4 629	12 928
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	45 820	10 953	34 867	9 854	8 965	4 279	11 770
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	4 116	1 053	3 063	862	740	339	1 122
SOLAR HEATING EQUIPMENT	54	25	28	13	2	1	12
STOVE, BURNING WOOD OR COAL	1 441	420	1 021	304	234	91	392
FIREPLACE, BURNING WOOD OR COAL	602	211	391	129	105	44	112
PORTABLE ELECTRIC HEATER	1 460	278	1 181	301	292	152	436
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	308	52	256	53	64	26	113
OTHER	400	97	303	98	63	36	106
NOT REPORTED	119	33	86	17	21	11	36

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEAR STRUCTURE BUILT				
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER			
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED	27 556	5 646	21 910	5 527	3 269	2 546	10 569
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 278	82	1 196	141	188	190	676
WITH SELECTED HEATING EQUIPMENT[1]	26 278	5 563	20 714	5 385	3 081	2 356	9 893
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 837	5 414	19 423	5 227	2 888	2 201	9 108
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 358	127	1 231	151	186	139	755
SOLAR HEATING EQUIPMENT	5	-	5	-	-	2	3
STOVE, BURNING WOOD OR COAL	117	9	108	14	12	13	70
FIREPLACE, BURNING WOOD OR COAL	40	7	34	10	10	3	11
PORTABLE ELECTRIC HEATER	1 034	91	942	117	141	109	577
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	102	10	93	8	14	11	59
OTHER	88	13	75	5	12	10	48
NOT REPORTED	83	22	61	7	8	16	30
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[2]							
OWNER OCCUPIED	51 627	12 435	39 192	11 086	10 028	4 749	13 328
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	50 973	12 265	38 708	10 935	9 905	4 681	13 187
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	267	100	167	54	49	19	44
NOT REPORTED	387	69	317	97	74	50	97
RENTER OCCUPIED	26 776	5 608	21 168	5 438	3 175	2 442	10 114
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26 453	5 554	20 898	5 383	3 127	2 398	9 990
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	86	17	70	10	10	10	40
NOT REPORTED	237	37	200	45	38	34	84
AIR CONDITIONING							
OWNER OCCUPIED	52 516	12 568	39 949	11 227	10 158	4 884	13 680
WITH AIR CONDITIONING	32 432	8 864	23 568	7 550	6 600	2 802	6 617
ROOM UNITS	16 686	1 915	14 771	3 167	3 977	2 068	5 559
1	10 301	1 363	8 938	2 052	2 276	1 246	3 364
2	4 532	464	4 068	828	1 204	552	1 484
3	1 317	63	1 253	222	361	189	481
4	369	13	356	47	74	63	172
5 OR MORE	167	11	156	18	62	18	58
CENTRAL SYSTEM	15 746	6 949	8 797	4 382	2 623	734	1 058
WITH NO AIR CONDITIONING	20 084	3 704	16 380	3 678	3 558	2 082	7 063
RENTER OCCUPIED	27 556	5 646	21 910	5 527	3 269	2 546	10 569
WITH AIR CONDITIONING	13 416	4 290	9 126	3 509	1 500	987	3 130
ROOM UNITS	8 174	1 253	6 921	1 981	1 163	883	2 893
1	6 289	992	5 298	1 555	852	659	2 232
2	1 552	218	1 334	357	267	175	535
3	240	35	205	45	36	43	81
4	61	5	56	18	7	3	27
5 OR MORE	31	3	28	5	2	4	17
CENTRAL SYSTEM	5 242	3 036	2 206	1 528	337	103	237
WITH NO AIR CONDITIONING	14 140	1 356	12 784	2 018	1 769	1 559	7 438
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	52 516	12 568	39 949	11 227	10 158	4 884	13 680
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	15 746	6 949	8 797	4 382	2 623	734	1 058
WITH SUPPLEMENTAL EQUIPMENT USED	8 107	3 356	4 751	2 342	1 454	372	584
INDIVIDUAL ROOM AIR CONDITIONING UNIT	405	88	318	152	72	27	67
AWNINGS	1 050	281	770	250	321	86	112
DEHUMIDIFIER	1 463	440	1 024	475	315	107	127
CEILING FAN	1 249	629	620	326	176	33	85
ATTIC FAN	2 238	905	1 334	691	455	80	108
WINDOW FAN	586	229	357	155	91	44	67
PORTABLE FAN	3 926	1 730	2 196	1 154	620	155	267
WITH NO SUPPLEMENTAL EQUIPMENT USED	7 334	3 470	3 863	1 954	1 120	336	453
NOT REPORTED	305	122	183	87	49	26	21
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	36 770	5 619	31 151	6 845	7 535	4 150	12 622

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT--CONTINUED							
RENTER OCCUPIED	27 556	5 646	21 910	5 527	3 269	2 546	10 569
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 242	3 036	2 206	1 528	337	103	237
WITH SUPPLEMENTAL EQUIPMENT USED	1 373	716	658	410	139	29	79
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	30	39	19	8	1	10
AWNINGS	64	24	40	17	11	1	12
DEHUMIDIFIER	52	16	37	18	11	2	6
CEILING FAN	56	27	29	16	7	2	5
ATTIC FAN	81	23	57	23	25	3	6
WINDOW FAN	163	93	71	39	12	4	15
PORTABLE FAN	1 025	541	484	321	93	22	49
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 757	2 272	1 485	1 089	186	71	139
NOT REPORTED	112	49	63	29	12	4	18
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	22 314	2 609	19 704	3 998	2 932	2 442	10 332
ALL OCCUPIED HOUSING UNITS	80 072	18 213	61 859	16 754	13 427	7 430	24 248
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	58 658	13 021	45 638	12 244	11 446	5 986	15 962
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	49 372	11 849	37 523	10 731	9 906	4 711	12 175
ALL WINDOWS COVERED	27 736	6 804	20 932	5 636	5 359	2 530	7 408
SOME WINDOWS COVERED	5 585	783	4 762	1 050	966	551	2 194
NO WINDOWS COVERED	15 920	4 193	11 727	4 022	3 559	1 615	2 532
NOT REPORTED	171	69	102	23	22	15	41
RENTER OCCUPIED	9 286	1 172	8 115	1 512	1 540	1 276	3 787
ALL WINDOWS COVERED	2 913	396	2 517	448	422	301	1 347
SOME WINDOWS COVERED	1 026	68	958	114	124	120	600
NO WINDOWS COVERED	4 952	612	4 339	863	936	806	1 734
NOT REPORTED	396	95	301	87	58	49	106
STORM DOORS							
OWNER OCCUPIED	49 372	11 849	37 523	10 731	9 906	4 711	12 175
ALL DOORS COVERED	25 312	4 311	21 001	5 166	5 576	2 668	7 592
SOME DOORS COVERED	7 017	2 093	4 924	1 540	1 076	521	1 786
NO DOORS COVERED	16 854	5 367	11 487	4 003	3 230	1 506	2 748
NOT REPORTED	189	78	111	22	23	15	50
RENTER OCCUPIED	9 286	1 172	8 115	1 512	1 540	1 276	3 787
ALL DOORS COVERED	2 492	240	2 253	337	392	305	1 220
SOME DOORS COVERED	978	133	844	133	141	108	462
NO DOORS COVERED	5 420	704	4 717	954	947	817	1 999
NOT REPORTED	396	95	301	89	61	46	106
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	49 372	11 849	37 523	10 731	9 906	4 711	12 175
YES	41 331	11 011	30 319	9 524	8 445	3 591	8 759
NO	6 165	468	5 697	825	1 107	913	2 852
DON'T KNOW	1 663	295	1 369	355	323	183	507
NOT REPORTED	214	75	139	28	30	24	57
RENTER OCCUPIED	9 286	1 172	8 115	1 512	1 540	1 276	3 787
YES	4 107	708	3 400	775	710	498	1 416
NO	2 663	121	2 542	286	392	399	1 466
DON'T KNOW	2 113	248	1 865	362	373	332	798
NOT REPORTED	402	94	308	90	65	46	106

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	49 372	11 849	37 523	10 731	9 906	4 711	12 175
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	15 920	4 193	11 727	4 022	3 559	1 615	2 532
SOME OR ALL WINDOWS COVERED	33 280	7 587	25 694	6 686	6 325	3 081	9 602
NONE INSTALLED	29 349	6 662	22 688	5 925	5 691	2 685	8 388
SOME OR ALL INSTALLED	3 809	880	2 928	739	620	383	1 186
NOT REPORTED	123	45	78	23	14	13	28
NOT REPORTED	171	69	102	23	22	15	41
STORM DOORS:							
NO DOORS COVERED	16 854	5 367	11 487	4 003	3 230	1 506	2 748
SOME OR ALL DOORS COVERED	32 329	6 404	25 925	6 706	6 652	3 190	9 378
NONE INSTALLED	29 706	5 551	24 155	6 223	6 221	2 966	8 745
SOME OR ALL INSTALLED	2 390	807	1 583	444	378	187	574
NOT REPORTED	233	46	187	38	53	37	59
NOT REPORTED	189	78	111	22	23	15	50
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	6 165	468	5 697	825	1 107	913	2 852
WITH ATTIC OR ROOF INSULATION	41 331	11 011	30 319	9 524	8 485	3 591	8 759
NONE ADDED OR INSTALLED	37 302	10 045	27 258	8 726	7 644	3 209	7 679
SOME OR ALL ADDED OR INSTALLED	3 756	872	2 884	740	755	361	1 029
NOT REPORTED	272	95	177	58	47	21	51
DON'T KNOW	1 663	295	1 369	355	323	183	507
NOT REPORTED	214	75	139	28	30	24	57
WALL INSULATION:							
NONE ADDED OR INSTALLED	46 356	11 091	35 265	10 305	9 386	4 436	11 137
SOME OR ALL ADDED OR INSTALLED	2 736	661	2 075	391	474	249	960
NOT REPORTED	280	97	183	35	45	25	78
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	39 340	9 469	29 871	8 626	7 976	3 797	9 471
SOME OR ALL ADDED OR INSTALLED	9 765	2 282	7 483	2 076	1 884	888	2 634
NOT REPORTED	267	98	169	29	45	26	70
OTHER INSULATION:							
NONE ADDED OR INSTALLED	45 213	10 556	34 656	9 911	9 241	4 399	11 105
SOME OR ALL ADDED OR INSTALLED	3 922	1 208	2 714	794	631	288	1 001
NOT REPORTED	237	84	153	26	34	23	69
RENTER OCCUPIED	9 286	1 172	8 115	1 512	1 540	1 276	3 787
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	4 952	612	4 339	863	936	806	1 734
SOME OR ALL WINDOWS COVERED	3 939	464	3 475	562	585	421	1 946
NONE INSTALLED	3 296	420	2 876	507	447	338	1 584
SOME OR ALL INSTALLED	597	36	561	52	93	78	338
NOT REPORTED	46	8	38	4	5	5	24
NOT REPORTED	396	95	301	87	58	49	106
STORM DOORS:							
NO DOORS COVERED	5 420	704	4 717	954	947	817	1 999
SOME OR ALL DOORS COVERED	3 470	373	3 097	470	532	413	1 682
NONE INSTALLED	3 173	340	2 833	442	474	378	1 539
SOME OR ALL INSTALLED	213	26	187	19	46	27	96
NOT REPORTED	85	8	77	9	12	9	47
NOT REPORTED	396	95	301	89	61	46	106
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	2 663	121	2 542	286	392	399	1 466
WITH ATTIC OR ROOF INSULATION	4 107	708	3 400	775	710	498	1 416
NONE ADDED OR INSTALLED	3 760	673	3 087	730	654	444	1 259
SOME OR ALL ADDED OR INSTALLED	294	27	267	35	44	46	142
NOT REPORTED	53	8	45	11	12	7	15
DON'T KNOW	2 113	248	1 865	362	373	332	798
NOT REPORTED	402	94	308	90	65	48	106
WALL INSULATION:							
NONE ADDED OR INSTALLED	8 537	1 024	7 513	1 384	1 431	1 192	3 506
SOME OR ALL ADDED OR INSTALLED	185	23	162	13	26	17	106
NOT REPORTED	565	125	440	116	83	67	174

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED--CONTINUED							
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	7 868	970	6 898	1 287	1 337	1 103	3 170
SOME OR ALL ADDED OR INSTALLED	849	77	772	108	121	105	439
NOT REPORTED	570	125	445	117	82	68	178
OTHER INSULATION:							
NONE ADDED OR INSTALLED	8 419	1 014	7 404	1 348	1 426	1 180	3 451
SOME OR ALL ADDED OR INSTALLED	307	33	275	52	32	29	161
NOT REPORTED	560	125	435	112	82	67	174
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	49 372	11 849	37 523	10 731	9 906	4 711	12 175
NO INSULATION ADDED OR INSTALLED	32 707	7 711	24 995	7 227	6 708	3 223	7 837
WITH INSULATION ADDED OR INSTALLED	15 820	3 865	11 955	3 345	3 055	1 409	4 145
LESS THAN $50	7 094	1 748	5 346	1 534	1 386	625	1 801
$50 TO $99	1 760	429	1 331	392	346	148	445
$100 TO $249	2 312	606	1 706	469	428	210	600
$250 TO $499	1 667	358	1 310	389	321	168	432
$500 TO $999	943	188	755	178	199	83	295
$1,000 OR MORE	1 074	254	820	206	195	90	329
DON'T KNOW	586	190	396	96	87	58	154
NOT REPORTED	383	92	291	82	92	27	90
MEDIAN	59	55	61	56	57	62	66
NOT REPORTED OR DON'T KNOW	845	272	573	160	142	78	193
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 315	271	1 045	294	237	135	379
LESS THAN $50	598	86	512	118	104	67	223
$50 TO $99	110	35	75	23	22	10	19
$100 TO $249	169	47	122	38	32	16	37
$250 TO $499	135	30	105	39	19	15	32
$500 TO $999	105	26	78	24	17	10	28
$1,000 OR MORE	74	12	62	25	21	7	9
DON'T KNOW	40	9	31	6	7	4	13
NOT REPORTED	84	25	59	21	15	6	17
MEDIAN	50-	95	50-	83	58	50-	50-
ONLY INSTALLED STORM DOORS	815	297	518	173	144	43	158
LESS THAN $50	111	39	73	25	12	8	28
$50 TO $99	270	96	174	60	54	14	46
$100 TO $249	266	107	159	54	52	8	45
$250 TO $499	73	30	43	14	10	5	14
$500 TO $999	17	1	16	3	7	2	5
$1,000 OR MORE	4	1	3	3	-	-	-
DON'T KNOW	17	4	13	3	1	3	6
NOT REPORTED	56	20	37	11	9	3	15
MEDIAN	97	103	95	95	104	86	93
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	1 537	288	1 249	312	356	145	436
LESS THAN $50	189	42	146	26	35	19	66
$50 TO $99	192	45	147	36	51	13	47
$100 TO $249	450	91	358	101	93	43	120
$250 TO $499	310	49	261	77	78	35	71
$500 TO $999	144	20	124	29	40	10	45
$1,000 OR MORE	90	2	89	15	22	6	46
DON'T KNOW	86	22	64	13	18	12	21
NOT REPORTED	77	18	59	13	20	7	20
MEDIAN	202	161	212	218	217	205	205

TABLE A-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	41 945	307	3 355	7 112	7 808	6 085	4 975	6 118	2 555	2 748	850	32	44
HOUSE HEATING FUEL													
ELECTRICITY	6 555	10	84	280	442	544	768	1 623	1 072	1 313	420	-	73
OTHER THAN ELECTRICITY	35 211	296	3 259	6 819	7 338	5 516	4 177	4 451	1 470	1 425	429	32	39
UTILITY GAS	25 722	216	2 528	5 184	5 318	3 919	2 931	3 191	1 054	1 043	325	14	38
BOTTLED, TANK, OR LP GAS	1 560	11	128	282	329	273	204	183	58	74	15	2	41
FUEL OIL	7 024	51	504	1 169	1 501	1 180	936	981	326	288	83	5	42
KEROSENE, ETC	146	3	14	19	34	18	17	19	12	8	2	-	41
COAL OR COKE	146	6	19	42	28	23	12	11	-	3	-	3	31
WOOD	594	8	63	122	122	99	76	65	18	10	3	7	37
SOLAR HEAT	9	-	3	-	3	1	1	-	2	-	-	-	...
OTHER FUEL	10	-	-	2	3	2	1	1	-	-	-	-	...
NONE	180	2	11	14	29	26	30	44	14	10	1	-	53
WATER HEATING FUEL[3]													
ELECTRICITY	13 172	42	476	1 215	1 782	1 713	1 741	2 705	1 446	1 577	475	-	57
OTHER FUEL	28 250	230	2 769	5 762	5 931	4 328	3 200	3 385	1 100	1 156	369	20	38
NONE	49	2	18	7	6	6	7	-	-	2	-	1	24
COOKING FUEL													
ELECTRICITY	24 669	85	1 231	3 274	4 252	3 639	3 169	4 286	1 946	2 103	683	-	49
OTHER FUEL	17 267	222	2 123	3 836	3 555	2 444	1 804	1 832	608	646	167	30	36
NONE	10	-	-	2	2	2	2	-	2	-	-	2	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	5 709	5	46	202	336	435	656	1 489	982	1 182	376	-	75
ALL OTHER FUEL COMBINATIONS	20 568	89	1 292	3 320	4 218	3 435	2 756	3 023	1 063	1 039	333	-	44
NONE	15 669	213	2 016	3 590	3 255	2 215	1 562	1 606	510	528	141	32	36
HEATING EQUIPMENT													
WARM-AIR FURNACE	25 813	136	1 794	4 276	5 069	3 875	3 157	3 766	1 520	1 668	546	6	44
HEAT PUMP	1 136	-	7	21	36	68	129	296	222	260	96	-	81
STEAM OR HOT WATER	5 209	30	385	1 029	1 116	866	659	651	199	211	56	6	40
BUILT-IN ELECTRIC UNITS	2 400	4	30	142	188	235	310	639	366	386	101	-	69
FLOOR, WALL, OR PIPELESS FURNACE	2 901	57	520	703	568	384	234	252	92	71	17	3	33
ROOM HEATERS WITH FLUE	1 543	39	281	374	293	220	129	123	35	40	10	-	32
ROOM HEATERS WITHOUT FLUE	1 345	22	190	289	247	190	148	152	48	40	16	3	36
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 419	18	135	264	263	221	178	195	60	63	7	14	41
NONE	180	2	11	14	29	26	30	44	14	10	1	-	53
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	41 766	305	3 344	7 098	7 780	6 059	4 945	6 074	2 541	2 739	849	32	43
WITH FIREPLACE OR HEATING STOVE	20 603	122	1 386	3 144	3 631	2 982	2 591	3 223	1 360	1 578	570	15	46
IN WORKING ORDER	19 605	110	1 278	2 921	3 438	2 844	2 462	3 121	1 318	1 539	559	15	46
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	15 632	66	839	2 219	2 717	2 306	2 020	2 619	1 101	1 285	448	11	48
ALL PURCHASED	5 070	28	267	681	780	731	615	905	407	471	183	3	51
SOME OR NONE PURCHASED	10 341	37	565	1 505	1 890	1 544	1 373	1 691	677	790	260	8	47
NOT REPORTED	220	1	7	33	47	31	33	24	17	24	5	-	47
COAL	161	8	21	37	34	20	11	16	6	5	2	2	34
OTHER FUEL	1 645	19	183	309	290	246	170	211	89	85	44	-	41
NONE	2 106	18	231	349	390	266	255	264	118	154	61	1	42
NOT REPORTED	61	-	4	7	8	6	6	11	5	9	4	2	57
NOT IN WORKING ORDER	961	11	102	219	190	134	124	97	37	37	11	-	37
NOT REPORTED	37	1	6	3	3	4	5	5	6	2	-	-	51
WITHOUT FIREPLACE OR HEATING STOVE	21 073	182	1 950	3 947	4 133	3 057	2 342	2 844	1 171	1 158	273	16	41
NOT REPORTED	90	2	7	8	16	21	11	7	10	2	6	-	45
HOUSING UNITS WITH NO HEATING EQUIPMENT	180	2	11	14	29	26	30	44	14	10	1	-	53
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 598	20	146	278	292	247	208	239	74	73	8	14	42
WITH SELECTED HEATING EQUIPMENT[4]	40 347	288	3 209	6 834	7 517	5 838	4 766	5 879	2 482	2 675	842	18	44
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	36 964	265	3 008	6 395	6 860	5 291	4 342	5 337	2 250	2 446	753	18	43
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	3 290	23	189	435	635	528	408	536	223	227	86	-	46
SOLAR HEATING EQUIPMENT	46	-	3	9	7	10	2	5	-	6	3	-	43
STOVE, BURNING WOOD OR COAL	1 138	5	57	121	244	199	134	205	86	68	18	-	46
FIREPLACE, BURNING WOOD OR COAL	500	2	18	46	76	77	89	94	32	46	22	-	53
PORTABLE ELECTRIC HEATER	1 133	13	79	174	233	175	128	155	75	76	27	-	44
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	257	3	15	43	57	41	35	37	9	12	5	-	42
OTHER	338	-	20	60	46	49	36	59	25	29	14	-	48
NOT REPORTED	93	-	12	4	22	19	17	6	9	2	3	-	44
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	40 836	263	3 198	6 881	7 619	5 958	4 862	6 001	2 514	2 692	826	20	44
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	217	-	17	33	27	26	30	38	17	19	9	-	52
NOT REPORTED	321	7	27	55	63	52	39	46	12	18	2	-	42

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	MONTHLY COST PAID FOR ELECTRICITY										
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	26 234	65	1 066	3 054	4 284	3 909	3 621	4 918	2 167	2 398	742	9	52
ROOM UNITS	13 250	51	842	2 279	2 724	2 253	1 736	1 929	674	631	128	5	43
1	7 944	46	678	1 578	1 744	1 329	910	1 004	329	268	55	1	39
2	3 749	4	140	533	743	649	558	632	216	227	42	4	46
3	1 102	-	19	136	187	193	188	192	90	73	24	-	51
4	317	-	2	29	33	62	52	74	30	34	2	-	56
5 OR MORE	138	1	3	3	17	20	27	26	9	29	4	-	58
CENTRAL SYSTEM	12 985	14	224	776	1 560	1 657	1 886	2 990	1 493	1 767	614	4	62
WITH NO AIR CONDITIONING	15 711	242	2 289	4 058	3 524	2 175	1 353	1 200	388	350	108	22	33
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	12 985	14	224	776	1 560	1 657	1 886	2 990	1 493	1 767	614	4	62
WITH SUPPLEMENTAL EQUIPMENT USED	6 884	9	103	372	844	916	1 046	1 620	789	853	329	2	62
INDIVIDUAL ROOM AIR CONDITIONING UNIT	353	-	3	15	46	40	52	75	42	52	27	-	65
AWNINGS	839	-	29	75	162	121	142	174	56	59	21	-	52
DEHUMIDIFIER	1 312	-	22	101	226	228	229	244	108	110	43	2	53
CEILING FAN	1 094	-	7	26	80	92	163	280	144	193	110	-	72
ATTIC FAN	2 070	2	22	85	239	292	332	533	231	283	90	-	62
WINDOW FAN	501	2	15	43	89	69	73	106	41	50	14	-	54
PORTABLE FAN	3 187	5	43	162	392	406	484	770	400	396	129	-	63
WITH NO SUPPLEMENTAL EQUIPMENT USED	5 859	5	118	371	676	722	812	1 320	678	876	279	2	63
NOT REPORTED	242	-	3	32	41	19	28	49	26	38	7	-	59
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	28 961	293	3 130	6 337	6 248	4 428	3 089	3 128	1 062	982	235	28	37
PERSONS													
1 PERSON	5 543	193	1 276	1 542	998	478	389	381	132	115	46	14	28
2 PERSONS	13 052	80	1 280	2 654	2 731	1 851	1 528	1 615	579	591	137	7	38
3 PERSONS	7 871	17	378	1 145	1 521	1 299	970	1 232	561	575	171	2	46
4 PERSONS	8 513	14	224	1 095	1 487	1 359	1 128	1 578	711	673	239	6	51
5 PERSONS	4 138	4	120	432	657	643	575	772	324	483	126	2	53
6 PERSONS	1 763	-	44	149	263	312	237	329	151	192	85	1	54
7 PERSONS OR MORE	1 065	-	34	95	152	143	149	230	98	120	45	-	57
MEDIAN	2.8	1.5-	1.8	2.3	2.6	3.0	3.1	3.4	3.5	3.6	3.8	...	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	23 696	123	1 653	4 048	4 768	3 644	2 996	3 358	1 328	1 355	411	14	43
SOME WINDOWS COVERED	4 699	52	485	904	913	652	530	634	242	244	82	2	40
NO WINDOWS COVERED	13 442	132	1 249	2 149	2 110	1 764	1 436	2 113	975	1 143	354	15	45
NOT REPORTED	109	1	8	12	17	26	13	13	10	7	2	-	46
STORM DOORS													
ALL DOORS COVERED	22 156	127	1 717	4 007	4 607	3 523	2 761	2 990	1 076	1 051	288	11	42
SOME DOORS COVERED	5 717	49	364	837	982	842	734	979	395	407	123	4	47
NO DOORS COVERED	13 944	130	1 266	2 249	2 198	1 696	1 462	2 134	1 074	1 283	435	17	46
NOT REPORTED	129	1	8	19	21	24	19	15	10	7	5	-	45
ATTIC OR ROOF INSULATION													
YES	35 395	198	2 391	5 635	6 546	5 218	4 342	5 436	2 302	2 517	787	23	45
NO	5 110	97	806	1 174	996	672	471	498	175	169	46	7	34
DON'T KNOW	1 285	11	148	282	241	161	146	167	67	48	13	2	37
NOT REPORTED	155	1	10	22	25	34	16	17	12	15	4	-	45
SPECIFIED RENTER OCCUPIED[3]	26 874	1 495	5 368	5 197	3 541	2 091	1 486	1 380	475	441	134	5 266	27
HOUSE HEATING FUEL													
ELECTRICITY	5 483	177	512	728	776	602	525	604	229	229	52	1 048	40
OTHER THAN ELECTRICITY	21 006	1 297	4 806	4 402	2 716	1 466	935	760	243	210	80	4 088	25
UTILITY GAS	14 643	1 019	3 573	2 996	1 791	1 002	624	551	180	153	49	2 705	24
BOTTLED, TANK, OR LP GAS	735	20	115	148	135	78	67	47	19	19	10	79	33
FUEL OIL	5 081	228	1 019	1 155	674	336	210	135	41	31	21	1 231	25
KEROSENE, ETC	101	6	15	19	30	8	12	4	1	-	-	7	32
COAL OR COKE	81	7	19	13	17	11	3	2	-	1	-	8	27
WOOD	283	13	54	64	64	27	17	18	3	7	-	18	30
SOLAR HEAT	3	-	1	-	-	-	2	-	-	-	-	-	...
OTHER FUEL	79	5	10	8	6	3	2	4	-	-	-	41	25
NONE	385	21	49	66	48	23	26	16	3	2	2	130	28
WATER HEATING FUEL[4]													
ELECTRICITY	7 821	234	859	1 213	1 200	902	752	766	290	266	57	1 282	37
OTHER FUEL	18 416	1 223	4 342	3 847	2 257	1 151	712	597	185	172	74	3 856	24
NONE	105	7	18	18	10	6	2	-	-	-	-	44	23
COOKING FUEL													
ELECTRICITY	11 407	499	1 790	1 963	1 596	1 142	903	902	301	311	81	1 918	33
OTHER FUEL	15 281	987	3 568	3 232	1 943	948	582	477	174	130	53	3 188	24
NONE	186	9	10	2	2	1	2	1	-	-	-	160	...

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE A-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	4 485	107	377	587	660	523	461	552	206	196	41	775	42
ALL OTHER FUEL COMBINATIONS	8 309	458	1 584	1 609	1 149	761	561	432	134	150	45	1 426	28
NONE	14 080	930	3 406	3 002	1 732	807	465	397	135	95	48	3 065	24
HEATING EQUIPMENT													
WARM-AIR FURNACE	10 033	309	1 620	1 763	1 400	954	737	714	280	266	73	1 917	32
HEAT PUMP	322	8	24	27	32	47	42	48	26	23	4	42	51
STEAM OR HOT WATER	6 752	438	1 602	1 450	758	324	161	133	21	24	17	1 823	23
BUILT-IN ELECTRIC UNITS	2 694	130	379	462	423	258	184	214	72	57	16	498	33
FLOOR, WALL, OR PIPELESS FURNACE	2 918	345	880	597	310	169	118	86	21	24	11	357	21
ROOM HEATERS WITH FLUE	1 836	154	446	385	254	116	76	57	21	9	3	314	24
ROOM HEATERS WITHOUT FLUE	1 221	58	244	296	180	119	93	70	20	23	8	109	28
FIREPLACES, STOVES, OR PORTABLE HEATERS	713	32	124	150	135	81	50	41	10	13	1	77	31
NONE	385	21	49	66	48	23	26	16	3	2	2	130	28
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	26 489	1 474	5 319	5 131	3 493	2 068	1 461	1 364	472	439	133	5 136	27
WITH FIREPLACE OR HEATING STOVE	3 805	162	714	819	606	373	246	265	106	99	31	385	30
IN WORKING ORDER	3 187	138	591	661	509	304	216	236	94	95	26	318	31
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	1 813	61	311	359	292	198	134	165	58	64	21	151	33
ALL PURCHASED	651	15	117	123	102	58	54	65	23	32	12	50	34
SOME OR NONE PURCHASED	1 082	44	181	222	176	135	75	90	31	27	7	93	32
NOT REPORTED	81	2	13	15	14	5	4	10	4	5	2	8	35
COAL	57	4	16	15	7	7	1	6	-	-	-	2	25
OTHER FUEL	832	56	184	201	132	59	42	31	14	11	1	101	26
NONE	453	17	75	77	71	39	37	32	22	18	5	61	34
NOT REPORTED	32	-	5	10	7	1	2	1	-	2	-	4	...
NOT IN WORKING ORDER	587	24	118	144	93	66	27	29	11	4	5	64	27
NOT REPORTED	31	-	6	14	3	3	3	-	1	-	-	2	...
WITHOUT FIREPLACE OR HEATING STOVE	22 606	1 310	4 599	4 291	2 871	1 689	1 208	1 098	366	340	102	4 732	26
NOT REPORTED	78	2	6	21	16	6	6	1	-	-	-	19	30
HOUSING UNITS WITH NO HEATING EQUIPMENT	385	21	49	66	48	23	26	16	3	2	2	130	28
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 098	53	173	217	183	104	76	56	13	15	2	207	30
WITH SELECTED HEATING EQUIPMENT[3]	25 776	1 442	5 195	4 980	3 358	1 987	1 411	1 324	462	426	132	5 059	27
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 404	1 379	4 949	4 688	3 156	1 837	1 335	1 248	427	399	124	4 861	27
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 292	60	228	275	191	138	73	72	35	27	7	186	29
SOLAR HEATING EQUIPMENT	2	-	-	-	-	1	-	-	-	-	-	1	...
STOVE, BURNING WOOD OR COAL	84	2	5	17	14	15	6	13	3	3	1	5	40
FIREPLACE, BURNING WOOD OR COAL	39	-	4	2	7	2	5	3	2	3	2	8	...
PORTABLE ELECTRIC HEATER	1 009	44	208	220	148	106	47	46	21	17	4	149	27
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	95	6	8	21	14	12	12	5	2	6	-	9	35
OTHER	80	8	5	17	11	5	4	8	6	1	-	15	32
NOT REPORTED	80	4	17	17	11	11	3	4	-	-	1	12	27
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 901	1 443	5 130	4 986	3 410	2 039	1 443	1 351	469	438	130	5 063	27
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	86	3	15	19	9	5	2	5	1	-	-	26	26
NOT REPORTED	234	9	51	56	38	9	18	6	4	-	-	44	26
AIR CONDITIONING													
WITH AIR CONDITIONING	13 170	417	1 999	2 313	1 964	1 370	1 069	1 061	387	371	100	2 118	34
ROOM UNITS	7 984	345	1 577	1 705	1 309	763	546	466	137	107	37	991	28
1	6 146	311	1 338	1 360	980	518	347	309	80	64	22	819	27
2	1 512	29	215	300	282	202	149	120	50	28	11	125	35
3	236	3	16	27	35	29	45	28	8	11	4	29	47
4	60	2	5	13	11	12	3	3	-	2	-	8	35
5 OR MORE	31	-	3	5	1	2	2	5	-	2	-	11	...
CENTRAL SYSTEM	5 186	73	421	608	655	607	523	596	249	264	63	1 126	44
WITH NO AIR CONDITIONING	13 705	1 078	3 369	2 884	1 577	721	417	319	89	70	34	3 148	23
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 186	73	421	608	655	607	523	596	249	264	63	1 126	44
WITH SUPPLEMENTAL EQUIPMENT USED	1 355	13	85	145	189	183	149	183	90	83	20	215	47
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	2	6	5	4	8	1	7	3	3	2	27	45
AWNINGS	61	-	3	8	13	5	5	7	3	2	-	14	38
DEHUMIDIFIER	49	2	-	3	10	6	2	6	-	3	2	15	...
CEILING FAN	54	-	-	11	14	2	2	4	8	4	1	9	38
ATTIC FAN	77	-	2	10	7	13	7	8	9	4	-	18	47
WINDOW FAN	161	3	12	18	24	30	16	23	9	12	1	10	45
PORTABLE FAN	1 016	6	68	101	143	142	119	149	64	58	15	150	47
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 720	58	317	444	448	413	366	406	159	180	39	891	43
NOT REPORTED	110	2	20	20	17	11	8	7	-	1	4	21	32
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	21 689	1 422	4 946	4 589	2 886	1 484	963	784	226	177	71	4 139	25

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	9 662	915	2 520	1 653	927	422	288	221	53	30	23	2 609	20
2 PERSONS	7 829	374	1 579	1 645	1 132	683	460	419	135	112	37	1 254	27
3 PERSONS	4 183	95	703	851	648	416	290	297	121	100	29	634	32
4 PERSONS	2 837	57	327	572	459	311	249	226	90	114	27	406	35
5 PERSONS	1 286	32	138	250	213	120	115	122	43	46	6	199	35
6 PERSONS	591	9	55	129	91	79	40	63	17	23	5	79	36
7 PERSONS OR MORE	488	12	45	98	71	61	45	32	18	16	7	85	36
MEDIAN	2.0	1.5-	1.6	2.1	2.2	2.4	2.5	2.7	2.9	3.3	2.7	1.5	...
SPECIFIED RENTER OCCUPIED[2]	26 874	1 495	5 368	5 197	3 541	2 091	1 486	1 380	475	441	134	5 266	27
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 605	261	1 361	1 821	1 438	961	701	655	268	260	77	802	33
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	2 619	51	349	524	518	325	221	198	79	73	25	254	34
SOME WINDOWS COVERED	915	25	182	203	166	109	66	72	25	18	6	64	32
NO WINDOWS COVERED	4 682	162	775	1 031	709	483	391	366	151	161	39	414	32
NOT REPORTED	389	23	74	63	44	45	23	19	13	9	6	70	29
STORM DOORS													
ALL DOORS COVERED	2 232	45	314	478	417	283	180	175	53	53	12	223	34
SOME DOORS COVERED	900	13	132	192	176	104	80	74	36	33	10	51	35
NO DOORS COVERED	5 084	180	841	1 093	799	530	419	385	166	165	49	457	32
NOT REPORTED	389	23	74	59	46	45	23	20	13	10	6	71	31
ATTIC OR ROOF INSULATION													
YES	3 751	85	438	720	651	495	349	335	140	153	41	344	36
NO	2 425	81	468	633	411	231	160	143	51	40	13	194	28
DON'T KNOW	2 032	71	377	407	328	188	169	159	66	58	16	192	32
NOT REPORTED	397	23	77	62	47	46	23	19	13	9	6	71	30

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	41 945	1 741	2 216	2 345	2 964	2 675	5 587	4 657	5 933	2 089	881	10 857	36
HOUSE HEATING FUEL													
GAS	27 282	906	1 568	1 858	2 498	2 413	5 196	4 443	5 647	1 969	785	-	38
UTILITY GAS	25 722	857	1 466	1 763	2 369	2 292	4 937	4 275	5 265	1 809	689	-	37
BOTTLED, TANK, OR LP GAS	1 560	48	102	95	129	121	259	168	381	160	96	-	41
OTHER THAN GAS	14 484	819	637	480	460	255	389	211	286	120	95	10 733	18
FUEL OIL	7 024	562	452	328	282	155	210	112	151	80	58	4 632	17
KEROSENE, ETC	146	13	14	6	7	5	6	4	2	2	4	82	18
ELECTRICITY	6 555	170	124	107	128	78	141	87	111	32	27	5 550	23
COAL OR COKE	146	19	12	4	12	6	4	1	3	1	2	84	16
WOOD	594	54	33	33	32	10	26	8	17	5	3	374	18
SOLAR HEAT	9	1	-	2	-	-	2	-	-	-	-	5	...
OTHER FUEL	10	-	2	-	-	-	-	-	1	-	2	5	...
NONE	180	17	11	7	6	7	3	3	1	-	1	125	14
WATER HEATING FUEL[3]													
GAS	25 566	895	1 628	1 923	2 439	2 243	4 750	3 987	5 143	1 809	748	-	37
UTILITY GAS	24 321	856	1 532	1 819	2 293	2 135	4 570	3 867	4 889	1 685	675	-	37
BOTTLED, TANK, OR LP GAS	1 245	39	96	103	147	108	180	120	254	124	74	-	36
OTHER FUEL	15 855	795	548	375	473	408	775	626	742	269	126	10 719	29
NONE	49	7	6	3	4	5	5	2	6	1	1	8	24
COOKING FUEL													
GAS	17 162	1 090	1 437	1 475	1 643	1 449	2 869	2 369	3 102	1 183	544	-	35
UTILITY GAS	15 260	773	1 166	1 307	1 452	1 311	2 641	2 240	2 853	1 056	460	-	36
BOTTLED, TANK, OR LP GAS	1 902	317	271	168	191	138	228	129	249	127	83	-	25
OTHER FUEL	24 774	651	777	869	1 320	1 224	2 718	2 288	2 830	906	335	10 855	37
NONE	10	-	2	-	-	3	-	-	2	-	2	3	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	13 559	433	849	1 035	1 227	1 170	2 480	2 105	2 761	1 045	453	-	37
ALL OTHER FUEL COMBINATIONS	17 039	1 158	1 314	1 277	1 680	1 470	3 051	2 515	3 132	1 027	416	-	35
NONE	11 347	150	52	33	56	35	56	37	40	17	12	10 857	21
HEATING EQUIPMENT													
WARM-AIR FURNACE	25 813	787	1 110	1 264	1 847	1 825	4 166	3 704	4 561	1 432	538	4 578	38
HEAT PUMP	1 136	30	21	22	16	9	2	12	9	5	-	1 010	17
STEAM OR HOT WATER	5 209	346	261	206	225	166	368	397	765	480	250	1 747	44
BUILT-IN ELECTRIC UNITS	2 400	56	36	27	18	16	22	17	15	4	4	2 184	17
FLOOR, WALL, OR PIPELESS FURNACE	2 901	203	412	457	434	320	429	217	187	53	30	159	23
ROOM HEATERS WITH FLUE	1 543	94	110	117	161	116	254	130	193	50	27	291	31
ROOM HEATERS WITHOUT FLUE	1 345	71	153	156	176	178	247	135	150	45	15	19	27
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 419	137	101	88	80	39	98	41	52	21	15	745	20
NONE	180	17	11	7	6	7	3	3	1	-	1	125	14
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	41 766	1 725	2 205	2 338	2 958	2 668	5 585	4 654	5 933	2 089	880	10 733	36
WITH FIREPLACE OR HEATING STOVE	20 603	829	1 005	1 039	1 355	1 168	2 334	2 025	2 887	1 085	509	6 366	37
IN WORKING ORDER	19 605	775	957	988	1 291	1 122	2 191	1 894	2 708	1 026	469	6 184	36
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	15 632	581	655	739	955	856	1 664	1 490	2 164	774	359	5 395	37
ALL PURCHASED	5 070	166	189	211	337	297	568	557	747	324	150	1 523	40
SOME OR NONE PURCHASED	10 341	397	464	515	609	541	1 057	911	1 375	443	204	3 824	36
NOT REPORTED	220	17	2	12	9	18	38	21	42	7	5	48	37
COAL	161	10	11	5	12	7	12	6	10	7	7	75	28
OTHER FUEL	1 645	90	118	132	142	129	285	183	248	105	42	172	34
NONE	2 106	93	169	113	175	128	223	207	277	137	62	521	35
NOT REPORTED	61	2	4	-	7	2	6	9	8	2	-	22	39
NOT IN WORKING ORDER	961	54	46	50	61	47	140	128	172	58	38	166	39
NOT REPORTED	37	-	2	-	3	-	3	3	8	-	2	15	...
WITHOUT FIREPLACE OR HEATING STOVE	21 073	886	1 194	1 295	1 599	1 497	3 232	2 618	3 036	999	369	4 349	35
NOT REPORTED	90	9	6	4	3	3	19	11	9	5	2	18	35
HOUSING UNITS WITH NO HEATING EQUIPMENT	180	17	11	7	6	7	3	3	1	-	1	125	14
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 598	154	112	95	86	46	100	44	53	21	17	870	20
WITH SELECTED HEATING EQUIPMENT[4]	40 347	1 587	2 103	2 250	2 877	2 629	5 487	4 613	5 881	2 068	864	9 987	36
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	36 964	1 452	1 935	2 101	2 689	2 434	5 137	4 324	5 463	1 914	801	8 716	36
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	3 290	131	161	142	178	190	332	276	410	155	60	1 254	36
SOLAR HEATING EQUIPMENT	46	3	1	2	8	3	2	4	-	1	-	22	...
STOVE, BURNING WOOD OR COAL	1 138	51	51	42	41	46	100	64	94	40	18	592	34
FIREPLACE, BURNING WOOD OR COAL	500	6	22	29	18	27	44	53	88	29	10	173	43
PORTABLE ELECTRIC HEATER	1 133	39	68	39	80	87	138	122	152	63	20	326	36
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	257	18	19	14	12	13	42	19	40	3	9	69	34
OTHER	338	19	11	22	27	15	24	25	56	21	5	114	37
NOT REPORTED	93	5	8	7	11	5	18	13	7	-	3	17	31
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	40 836	1 664	2 142	2 261	2 858	2 617	5 443	4 534	5 823	2 058	867	10 569	36
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	217	8	9	5	20	12	26	32	18	5	3	79	35
NOT REPORTED	321	11	25	26	32	20	54	48	44	15	4	41	34

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	26 234	948	1 275	1 286	1 788	1 718	3 606	2 974	3 849	1 326	582	6 883	37
ROOM UNITS	13 250	589	726	758	967	884	1 885	1 432	1 882	697	303	3 126	35
1	7 944	350	429	469	585	533	1 166	883	1 093	370	166	1 898	35
2	3 749	160	227	195	255	245	525	389	577	214	60	901	36
3	1 102	56	52	73	86	74	153	105	149	78	41	236	35
4	317	18	9	18	23	28	31	36	47	24	26	59	41
5 OR MORE	138	5	9	4	18	4	10	19	16	11	10	32	41
CENTRAL SYSTEM	12 985	359	549	528	821	833	1 720	1 542	1 967	629	279	3 757	38
WITH NO AIR CONDITIONING	15 711	793	940	1 059	1 176	958	1 982	1 683	2 085	763	299	3 974	34
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	12 985	359	549	528	821	833	1 720	1 542	1 967	629	279	3 757	38
WITH SUPPLEMENTAL EQUIPMENT USED	6 884	190	272	254	440	467	928	874	1 142	312	143	1 861	39
INDIVIDUAL ROOM AIR CONDITIONING UNIT	353	12	19	22	23	15	42	41	63	22	13	80	41
AWNINGS	839	30	34	29	59	59	157	125	151	34	15	146	38
DEHUMIDIFIER	1 312	25	13	20	58	80	191	248	325	84	36	233	46
CEILING FAN	1 099	49	44	41	88	80	118	74	129	33	10	427	32
ATTIC FAN	2 070	32	53	53	116	124	266	297	354	131	44	601	43
WINDOW FAN	501	11	16	18	21	31	99	62	82	21	15	125	38
PORTABLE FAN	3 187	108	153	148	226	233	427	390	453	120	56	872	36
WITH NO SUPPLEMENTAL EQUIPMENT USED	5 859	164	266	264	359	356	771	642	778	301	129	1 828	37
NOT REPORTED	242	6	11	10	22	10	22	26	47	16	7	68	43
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	28 961	1 382	1 667	1 817	2 142	1 842	3 867	3 114	3 967	1 460	602	7 100	35
PERSONS													
1 PERSON	5 543	437	433	438	450	443	815	504	561	168	67	1 226	29
2 PERSONS	13 052	564	762	800	1 004	957	1 837	1 441	1 612	505	188	3 381	34
3 PERSONS	7 871	288	390	424	530	453	1 052	917	1 126	377	160	2 155	37
4 PERSONS	8 513	260	354	372	560	470	1 076	970	1 418	477	203	2 354	39
5 PERSONS	4 138	112	162	168	237	208	498	512	725	300	134	1 082	43
6 PERSONS	1 763	49	62	102	116	93	195	217	302	146	67	414	42
7 PERSONS OR MORE	1 065	31	53	42	65	52	114	97	189	116	61	245	45
MEDIAN	2.8	2.3	2.4	2.4	2.5	2.4	2.6	2.9	3.2	3.5	3.6	2.9	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	23 696	837	726	745	1 148	1 235	3 102	3 066	4 091	1 440	600	6 705	42
SOME WINDOWS COVERED	4 699	179	233	223	303	249	621	563	731	296	113	1 188	38
NO WINDOWS COVERED	13 442	722	1 249	1 370	1 500	1 189	1 846	1 017	1 101	341	165	2 942	26
NOT REPORTED	109	3	8	6	12	2	19	11	11	13	2	22	35
STORM DOORS													
ALL DOORS COVERED	22 156	737	702	728	1 107	1 194	3 080	3 032	3 995	1 365	561	5 657	42
SOME DOORS COVERED	5 717	221	230	265	362	353	780	622	804	316	132	1 631	37
NO DOORS COVERED	13 944	780	1 276	1 345	1 479	1 122	1 705	992	1 122	396	188	3 540	26
NOT REPORTED	129	4	8	7	16	6	23	11	13	12	-	29	33
ATTIC OR ROOF INSULATION													
YES	35 395	1 326	1 620	1 733	2 354	2 152	4 683	4 101	5 117	1 764	714	9 830	37
NO	5 110	325	500	477	479	422	720	429	594	239	130	795	29
DON'T KNOW	1 285	86	87	127	111	97	160	113	199	74	34	198	32
NOT REPORTED	155	5	8	8	19	3	25	13	23	12	3	35	36
SPECIFIED RENTER OCCUPIED[3]	26 874	3 185	2 070	1 521	1 313	1 001	1 484	997	1 091	451	239	13 520	19
HOUSE HEATING FUEL													
GAS	15 378	1 913	1 460	1 159	1 026	843	1 335	915	1 019	398	208	5 102	22
UTILITY GAS	14 643	1 851	1 401	1 105	968	783	1 239	849	920	363	160	5 005	22
BOTTLED, TANK, OR LP GAS	735	62	59	54	58	60	96	66	100	35	48	97	32
OTHER THAN GAS	11 111	1 220	591	347	275	145	144	77	69	50	30	8 162	12
FUEL OIL	5 081	1 000	463	250	214	91	97	40	42	29	19	2 836	11
KEROSENE, ETC	101	13	10	4	6	5	2	-	1	-	3	56	14
ELECTRICITY	5 483	161	92	76	40	36	39	29	22	18	5	4 966	15
COAL OR COKE	81	7	10	2	2	3	2	3	2	1	-	50	...
WOOD	283	34	9	13	11	10	4	5	3	2	3	188	16
SOLAR HEAT	3	-	-	1	-	-	-	-	-	-	-	2	...
OTHER FUEL	79	5	7	-	1	-	-	-	-	-	-	66	...
NONE	385	51	19	15	12	13	6	5	3	3	2	256	13
WATER HEATING FUEL[4]													
GAS	15 230	2 028	1 488	1 206	1 012	804	1 184	841	904	386	194	5 183	21
UTILITY GAS	14 714	1 985	1 447	1 159	956	766	1 118	801	855	366	158	5 102	21
BOTTLED, TANK, OR LP GAS	515	42	41	47	56	38	66	40	49	20	36	81	28
OTHER FUEL	11 007	1 099	543	283	258	145	248	133	164	54	38	8 043	13
NONE	105	16	5	4	3	4	4	3	2	-	2	61	16
COOKING FUEL													
GAS	15 147	2 749	1 683	1 194	977	738	1 025	696	786	337	171	4 791	18
UTILITY GAS	14 148	2 530	1 569	1 116	871	667	927	634	715	307	127	4 686	17
BOTTLED, TANK, OR LP GAS	999	218	114	78	106	72	98	62	71	31	44	105	21
OTHER FUEL	11 541	433	386	327	335	263	459	300	306	112	68	8 553	25
NONE	186	3	2	1	1	-	-	1	-	2	-	176	...

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE A-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	9 877	1 372	1 019	798	662	542	810	579	670	279	136	3 009	21
ALL OTHER FUEL COMBINATIONS	10 261	1 780	1 029	710	633	443	658	405	413	166	98	3 928	17
NONE	6 737	33	23	13	19	16	16	13	9	6	5	6 584	22
HEATING EQUIPMENT													
WARM-AIR FURNACE	10 033	636	597	497	535	446	787	543	571	256	125	5 041	27
HEAT PUMP	322	8	6	3	4	1	2	-	3	1	2	291	...
STEAM OR HOT WATER	6 752	1 306	587	315	208	109	128	101	166	73	46	3 713	11
BUILT-IN ELECTRIC UNITS	2 694	83	40	26	12	15	9	10	8	5	2	2 484	12
FLOOR, WALL, OR PIPELESS FURNACE	2 918	683	490	347	232	145	194	97	88	18	20	605	14
ROOM HEATERS WITH FLUE	1 836	175	162	132	137	135	187	131	151	57	25	544	26
ROOM HEATERS WITHOUT FLUE	1 221	151	133	153	144	113	145	94	85	25	11	167	23
FIREPLACES, STOVES, OR PORTABLE HEATERS	713	92	37	33	29	24	26	16	17	13	8	419	17
NONE	385	51	19	15	12	13	6	5	3	3	2	256	13
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	26 489	3 134	2 051	1 506	1 301	988	1 479	992	1 088	448	238	13 264	19
WITH FIREPLACE OR HEATING STOVE	3 805	367	287	240	258	216	305	229	248	115	59	1 480	25
IN WORKING ORDER	3 187	289	234	212	216	176	248	190	191	81	49	1 302	24
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	1 813	134	128	119	118	81	128	102	99	33	19	852	23
ALL PURCHASED	651	39	53	50	42	36	52	30	35	10	7	297	23
SOME OR NONE PURCHASED	1 082	89	71	63	72	41	70	65	62	23	12	513	23
NOT REPORTED	81	7	4	6	3	4	6	6	3	-	-	42	23
COAL	57	6	3	9	5	-	-	-	3	1	-	30	...
OTHER FUEL	832	106	62	55	66	69	90	63	68	30	20	203	26
NONE	453	43	36	26	26	22	28	22	20	16	10	205	23
NOT REPORTED	32	-	4	3	2	4	3	3	-	1	-	11	...
NOT IN WORKING ORDER	587	72	52	28	42	37	53	37	56	34	10	166	27
NOT REPORTED	31	6	2	1	-	3	4	2	1	-	-	12	...
WITHOUT FIREPLACE OR HEATING STOVE	22 606	2 758	1 756	1 262	1 039	764	1 174	761	840	331	175	11 744	18
NOT REPORTED	78	8	8	3	4	8	-	2	-	2	3	40	19
HOUSING UNITS WITH NO HEATING EQUIPMENT	385	51	19	15	12	13	6	5	3	3	2	256	13
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 098	143	56	48	41	37	32	21	20	16	9	675	16
WITH SELECTED HEATING EQUIPMENT[3]	25 776	3 042	2 014	1 473	1 272	964	1 452	976	1 071	435	230	12 846	19
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 404	2 861	1 882	1 399	1 155	892	1 358	918	1 009	397	211	12 322	19
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 292	165	126	70	112	65	95	58	62	33	18	488	21
SOLAR HEATING EQUIPMENT	2	-	-	-	-	-	-	-	-	-	-	2	-
STOVE, BURNING WOOD OR COAL	84	4	5	3	7	4	7	5	3	2	1	43	27
FIREPLACE, BURNING WOOD OR COAL	39	2	5	-	2	2	2	-	2	2	-	24	...
PORTABLE ELECTRIC HEATER	1 009	143	98	60	93	49	73	46	45	24	13	367	21
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	95	11	7	9	7	6	13	8	8	3	1	23	27
OTHER	80	6	13	-	4	7	-	3	6	3	3	35	24
NOT REPORTED	80	16	7	4	5	6	-	-	-	5	2	36	14
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 901	3 064	1 994	1 472	1 255	939	1 425	964	1 056	432	224	13 076	19
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	86	8	7	2	4	2	3	5	2	3	4	45	23
NOT REPORTED	234	51	30	13	11	8	4	4	11	5	3	94	13
AIR CONDITIONING													
WITH AIR CONDITIONING	13 170	1 301	824	650	556	441	735	466	441	156	93	7 507	20
ROOM UNITS	7 984	1 077	608	435	392	306	533	338	334	116	73	3 772	19
1	6 146	841	457	341	295	241	392	247	236	78	55	2 963	18
2	1 512	189	124	77	89	56	108	76	86	29	14	665	22
3	236	30	23	9	6	8	29	11	8	5	3	103	23
4	60	13	2	6	-	2	2	3	3	2	2	26	...
5 OR MORE	31	5	2	3	2	-	2	1	-	2	-	15	...
CENTRAL SYSTEM	5 186	224	217	215	164	135	203	127	107	41	20	3 734	22
WITH NO AIR CONDITIONING	13 705	1 884	1 246	872	757	560	749	532	651	295	147	6 013	18
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 186	224	217	215	164	135	203	127	107	41	20	3 734	22
WITH SUPPLEMENTAL EQUIPMENT USED	1 355	62	53	57	63	37	77	53	37	22	6	888	24
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	-	1	2	1	1	2	5	1	-	-	55	...
AWNINGS	61	5	3	3	5	3	7	1	1	3	-	30	...
DEHUMIDIFIER	49	-	-	-	3	1	9	3	10	3	-	20	...
CEILING FAN	54	3	3	-	5	4	-	4	4	2	-	29	...
ATTIC FAN	77	2	2	3	5	4	8	8	7	3	-	36	36
WINDOW FAN	161	14	10	5	3	1	11	3	4	4	1	105	18
PORTABLE FAN	1 016	43	39	45	48	28	57	35	21	12	5	684	23
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 720	153	157	148	98	97	122	69	68	17	12	2 780	21
NOT REPORTED	110	10	7	9	3	1	4	5	2	2	2	66	17
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	21 689	2 961	1 854	1 307	1 149	866	1 282	870	985	411	220	9 786	18

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	9 662	1 469	610	437	334	267	354	195	201	83	40	5 671	13
2 PERSONS	7 829	947	661	423	386	285	397	285	278	108	57	4 002	18
3 PERSONS	4 183	374	366	285	253	160	314	204	228	78	57	1 866	22
4 PERSONS	2 837	232	274	181	162	155	236	149	184	87	36	1 141	24
5 PERSONS	1 286	104	96	94	91	70	98	79	97	51	28	479	26
6 PERSONS	591	34	39	59	52	47	42	46	56	28	6	180	27
7 PERSONS OR MORE	488	26	24	41	35	18	44	38	48	16	15	182	32
MEDIAN	2.0	1.6	2.1	2.3	2.3	2.3	2.5	2.6	2.8	2.9	2.9	1.8	...
SPECIFIED RENTER OCCUPIED[2]	26 874	3 185	2 070	1 521	1 313	1 001	1 484	997	1 091	451	239	13 520	19
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 605	681	735	662	677	552	894	617	626	268	148	2 746	26
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	2 619	156	121	127	171	129	291	233	278	106	69	939	34
SOME WINDOWS COVERED	915	47	59	41	57	66	99	96	92	45	26	287	34
NO WINDOWS COVERED	4 682	443	529	463	434	342	479	271	241	106	51	1 323	22
NOT REPORTED	389	35	26	31	15	15	24	16	15	11	2	197	21
STORM DOORS													
ALL DOORS COVERED	2 232	119	89	104	153	111	256	222	251	112	58	758	36
SOME DOORS COVERED	900	57	49	42	60	57	122	93	84	38	30	267	34
NO DOORS COVERED	5 084	469	571	487	449	369	492	285	275	107	57	1 522	22
NOT REPORTED	389	36	25	29	15	15	24	16	15	11	2	198	21
ATTIC OR ROOF INSULATION													
YES	3 751	265	246	212	287	210	423	281	308	122	72	1 325	29
NO	2 425	213	254	240	198	210	241	186	161	81	34	607	25
DON'T KNOW	2 032	168	209	179	175	120	206	133	139	54	40	609	24
NOT REPORTED	397	35	25	31	17	12	24	18	17	11	2	204	21

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	41 945	1 787	1 208	703	697	733	802	837	641	3 214	31 323	523
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	7 910	252	343	362	516	645	730	760	577	2 981	743	696
FUEL OIL	7 024	189	264	257	421	582	687	729	554	2 946	394	733
COAL OR COKE	146	10	8	16	32	23	17	8	10	8	14	399
KEROSENE, ETC	146	13	10	25	22	22	12	12	4	14	12	384
WOOD	594	40	61	64	41	19	14	11	9	13	323	253
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	33 856	1 533	863	341	181	87	72	77	63	232	30 406	122
UTILITY GAS	25 722	1 100	596	224	105	66	48	51	48	176	23 307	118
BOTTLED, TANK, OR LP GAS	1 560	75	42	29	19	4	10	8	6	21	1 347	174
ELECTRICITY	6 555	357	221	88	56	16	13	18	10	35	5 741	123
SOLAR HEAT	9	-	3	-	1	-	-	-	-	-	5	...
OTHER FUEL	10	2	1	1	-	-	-	-	-	-	6	...
NONE	180	2	1	-	-	2	-	-	-	1	174	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	25 813	1 218	739	368	385	441	522	480	338	1 140	20 180	424
HEAT PUMP	1 136	82	29	15	12	2	-	5	-	9	981	100-
STEAM OR HOT WATER	5 209	98	73	66	76	136	159	257	257	1 926	2 161	800+
BUILT-IN ELECTRIC UNITS	2 400	103	82	39	25	6	4	2	4	13	2 121	144
FLOOR, WALL, OR PIPELESS FURNACE	2 901	83	58	38	45	33	19	9	8	27	2 582	250
ROOM HEATERS WITH FLUE	1 543	58	68	51	61	67	64	54	18	57	1 043	416
ROOM HEATERS WITHOUT FLUE	1 345	45	28	8	7	2	4	1	3	10	1 237	133
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 419	99	130	119	85	44	30	29	11	31	843	250
NONE	180	2	1	-	-	2	-	-	-	1	174	...
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	41 766	1 785	1 207	703	697	732	802	837	641	3 213	31 149	523
WITH FIREPLACE OR HEATING STOVE	20 603	1 600	1 025	554	454	402	436	465	318	1 822	13 528	378
IN WORKING ORDER	19 605	1 573	1 018	543	441	381	419	445	299	1 741	12 744	366
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	15 632	1 477	953	483	359	295	332	357	242	1 442	9 691	316
ALL PURCHASED	5 070	950	616	264	150	91	119	114	80	461	2 226	176
SOME OR NONE PURCHASED	10 341	508	330	215	206	199	210	236	159	972	7 306	528
NOT REPORTED	220	20	7	4	3	5	3	7	4	9	159	302
COAL	161	21	16	21	24	11	10	4	5	19	29	330
OTHER FUEL	1 645	45	24	19	35	41	27	34	12	60	1 349	463
NONE	2 106	28	23	20	22	33	47	50	40	212	1 632	736
NOT REPORTED	61	2	2	1	-	2	3	-	1	7	44	...
NOT IN WORKING ORDER	961	19	7	10	13	22	16	20	18	76	761	671
NOT REPORTED	37	8	-	1	-	-	-	-	-	4	24	...
WITHOUT FIREPLACE OR HEATING STOVE	21 073	184	178	147	241	330	365	371	323	1 378	17 557	684
NOT REPORTED	90	2	4	3	2	-	2	1	-	13	63	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	180	2	1	-	-	2	-	-	-	1	174	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	40 836	1 728	1 162	659	656	707	772	809	629	3 168	30 547	530
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	217	15	9	10	4	-	2	6	1	9	161	237
NOT REPORTED	321	5	6	4	12	3	6	7	3	16	261	519
AIR CONDITIONING												
WITH AIR CONDITIONING	26 234	1 152	749	377	348	360	362	385	325	1 706	20 469	470
ROOM UNITS	13 250	372	294	205	198	270	265	274	261	1 423	9 688	664
1	7 944	220	179	142	140	190	174	161	136	728	5 873	593
2	3 749	95	83	51	47	56	57	87	88	432	2 754	725
3	1 102	38	23	10	9	17	22	16	30	169	766	800+
4	317	11	2	2	2	6	6	4	5	65	213	800+
5 OR MORE	138	7	6	-	-	1	6	5	2	30	81	800+
CENTRAL SYSTEM	12 985	780	456	172	149	91	97	111	64	283	10 782	170
WITH NO AIR CONDITIONING	15 711	635	458	326	349	373	440	451	316	1 508	10 854	565
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	12 985	780	456	172	149	91	97	111	64	283	10 782	170
WITH SUPPLEMENTAL EQUIPMENT USED	6 884	429	245	95	90	49	47	61	28	164	5 675	171
INDIVIDUAL ROOM AIR CONDITIONING UNIT	353	16	14	7	5	2	2	-	1	17	288	225
AWNINGS	839	34	17	5	13	9	6	6	7	34	708	369
DEHUMIDIFIER	1 312	71	36	27	14	7	15	15	6	54	1 065	258
CEILING FAN	1 094	86	50	25	9	7	8	6	4	11	889	133
ATTIC FAN	2 070	152	88	37	34	21	25	29	13	70	1 600	193
WINDOW FAN	501	37	13	6	9	8	2	1	2	11	413	154
PORTABLE FAN	3 187	191	125	28	41	19	23	20	11	53	2 676	151
WITH NO SUPPLEMENTAL EQUIPMENT USED	5 859	347	208	74	56	41	45	47	34	112	4 893	165
NOT REPORTED	242	4	3	2	3	-	4	2	1	7	214	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	28 961	1 007	752	532	547	643	705	726	576	2 931	20 541	603
PERSONS												
1 PERSON	5 543	192	129	80	110	119	136	117	109	386	4 165	543
2 PERSONS	13 052	540	346	234	240	262	277	301	213	942	9 697	520
3 PERSONS	7 871	365	221	127	138	126	148	144	123	612	5 867	517
4 PERSONS	8 513	400	301	154	116	109	138	141	104	641	6 409	474
5 PERSONS	4 138	184	135	68	57	71	65	75	58	365	3 061	535
6 PERSONS	1 763	66	45	20	25	35	22	40	17	169	1 325	616
7 PERSONS OR MORE	1 065	41	31	19	11	10	16	18	18	101	800	624
MEDIAN	2.8	2.9	3.1	2.8	2.5	2.4	2.4	2.5	2.5	2.9	2.8	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
	TOTAL	LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	23 696	962	614	407	435	507	583	597	496	2 606	16 490	616
SOME WINDOWS COVERED	4 699	204	153	88	98	108	102	143	88	407	3 308	543
NO WINDOWS COVERED	13 442	619	441	207	162	119	115	94	55	192	11 436	186
NOT REPORTED	109	2	-	1	2	-	2	3	2	8	90	...
STORM DOORS												
ALL DOORS COVERED	22 156	783	525	347	409	476	560	618	489	2 425	15 525	635
SOME DOORS COVERED	5 717	304	189	133	116	128	146	94	84	467	4 054	469
NO DOORS COVERED	13 944	697	493	222	171	128	94	121	65	312	11 640	191
NOT REPORTED	129	3	-	1	2	2	2	3	2	10	104	...
ATTIC OR ROOF INSULATION												
YES	35 395	1 604	1 072	603	589	630	681	728	558	2 776	26 155	518
NO	5 110	151	111	87	88	84	95	83	71	329	4 010	530
DON'T KNOW	1 285	28	23	11	18	18	23	20	10	98	1 037	619
NOT REPORTED	155	5	3	2	2	2	3	5	2	12	121	...
SPECIFIED RENTER OCCUPIED[3]	26 874	431	275	198	212	203	156	139	126	454	24 680	390
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	5 545	158	152	144	174	185	133	120	111	411	3 959	489
FUEL OIL	5 081	110	103	98	127	155	110	110	103	388	3 778	553
COAL OR COKE	81	3	11	9	9	8	5	2	2	6	28	349
KEROSENE, ETC	101	4	5	14	18	11	12	2	5	13	16	413
WOOD	283	41	34	24	20	10	7	6	1	4	137	193
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	20 944	272	122	54	38	17	22	19	15	44	20 339	124
UTILITY GAS	14 643	165	61	36	29	9	17	19	10	33	14 264	140
BOTTLED, TANK, OR LP GAS	735	23	19	10	4	3	2	-	3	7	663	166
ELECTRICITY	5 483	84	42	7	5	4	3	1	2	3	5 332	100-
SOLAR HEAT	3	-	-	-	-	-	-	-	-	-	3	-
OTHER FUEL	79	-	-	-	-	2	-	-	-	-	77	...
NONE	385	1	1	-	-	1	1	-	-	-	382	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	10 033	154	96	70	95	108	64	59	57	172	9 159	421
HEAT PUMP	322	1	1	1	-	2	1	-	-	-	318	...
STEAM OR HOT WATER	6 752	79	46	23	24	29	25	47	41	218	6 220	683
BUILT-IN ELECTRIC UNITS	2 694	42	14	2	1	1	1	1	2	2	2 628	100-
FLOOR, WALL, OR PIPELESS FURNACE	2 918	25	15	13	9	5	8	8	6	10	2 821	267
ROOM HEATERS WITH FLUE	1 836	41	28	39	43	36	39	16	17	42	1 537	398
ROOM HEATERS WITHOUT FLUE	1 221	19	15	5	4	2	5	1	1	1	1 169	148
FIREPLACES, STOVES, OR PORTABLE HEATERS	713	71	58	46	36	21	13	8	2	11	447	208
NONE	385	1	1	-	-	1	1	-	-	-	382	...
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	26 489	430	274	198	212	202	155	139	126	454	24 298	390
WITH FIREPLACE OR HEATING STOVE	3 805	278	166	90	89	77	68	47	43	135	2 812	258
IN WORKING ORDER	3 187	266	161	83	80	72	63	40	39	117	2 265	240
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	1 813	232	137	60	56	43	41	27	27	77	1 112	186
ALL PURCHASED	651	139	81	40	29	21	18	8	9	29	276	159
SOME OR NONE PURCHASED	1 082	88	52	20	22	19	22	17	17	44	782	253
NOT REPORTED	81	5	5	1	5	4	2	2	1	4	54	...
COAL	57	6	9	7	11	8	4	1	3	2	6	331
OTHER FUEL	832	14	3	10	10	16	13	8	8	22	730	493
NONE	453	12	10	4	3	5	5	2	1	15	395	371
NOT REPORTED	32	2	2	2	-	-	-	2	-	1	22	...
NOT IN WORKING ORDER	587	10	4	7	7	5	5	6	4	17	522	480
NOT REPORTED	31	2	-	-	2	-	1	-	-	2	25	...
WITHOUT FIREPLACE OR HEATING STOVE	22 606	151	107	107	122	125	87	93	83	319	21 411	486
NOT REPORTED	78	2	2	1	-	-	-	-	-	-	74	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	385	1	1	-	-	1	1	-	-	-	382	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 901	370	223	163	186	190	140	133	120	437	23 938	420
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	86	5	1	-	2	-	-	-	-	2	78	...
NOT REPORTED	234	2	4	1	1	-	-	1	-	-	225	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE A-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	13 170	161	104	66	73	66	52	39	38	160	12 409	365
ROOM UNITS	7 984	84	70	62	64	57	47	35	35	146	7 383	436
1	6 146	63	53	49	51	40	40	25	22	104	5 698	417
2	1 512	17	11	11	11	13	7	5	10	28	1 398	449
3	236	3	3	2	2	3	-	2	2	12	207	...
4	60	-	3	-	-	-	-	2	2	2	52	...
5 OR MORE	31	-	-	-	-	-	-	2	-	1	28	...
CENTRAL SYSTEM	5 186	78	34	5	9	9	5	3	2	14	5 026	106
WITH NO AIR CONDITIONING	13 705	270	171	132	138	137	104	101	88	294	12 271	404
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	5 186	78	34	5	9	9	5	3	2	14	5 026	106
WITH SUPPLEMENTAL EQUIPMENT USED	1 355	31	14	2	2	4	4	3	1	7	1 286	122
INDIVIDUAL ROOM AIR CONDITIONING UNIT	68	-	1	-	-	-	-	-	-	2	65	...
AWNINGS	61	-	1	-	-	-	-	-	-	-	60	...
DEHUMIDIFIER	49	2	-	-	-	-	2	2	-	1	42	...
CEILING FAN	54	4	1	-	-	-	-	2	-	-	47	...
ATTIC FAN	77	3	1	-	-	-	-	-	-	2	70	...
WINDOW FAN	161	4	2	-	-	1	1	-	-	2	151	...
PORTABLE FAN	1 016	28	11	2	2	3	4	2	1	3	961	100-
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 720	47	20	2	7	5	2	-	-	5	3 634	100-
NOT REPORTED	110	-	-	1	-	1	-	-	2	2	106	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	21 689	354	241	194	202	194	151	136	123	440	19 654	414
PERSONS												
1 PERSON	9 662	131	72	55	62	46	40	34	27	66	9 126	315
2 PERSONS	7 829	121	78	57	63	58	43	31	35	126	7 216	379
3 PERSONS	4 183	74	48	39	33	40	22	29	23	98	3 778	423
4 PERSONS	2 837	63	41	21	30	38	30	23	21	89	2 481	461
5 PERSONS	1 286	25	24	16	11	11	13	13	10	34	1 129	428
6 PERSONS	591	12	7	8	2	2	2	5	6	23	523	604
7 PERSONS OR MORE	488	6	6	2	10	5	5	3	3	19	427	512
MEDIAN	2.0	2.2	2.3	2.3	2.2	2.4	2.4	2.6	2.5	2.9	1.9	...
SPECIFIED RENTER OCCUPIED[2]	26 874	431	275	198	212	203	156	139	126	454	24 680	390
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 605	268	186	154	170	166	119	95	92	291	7 063	394
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	2 619	72	53	46	57	74	51	51	53	182	1 980	533
SOME WINDOWS COVERED	915	29	13	24	29	23	23	10	22	59	684	490
NO WINDOWS COVERED	4 682	157	120	83	79	68	44	31	17	49	4 032	257
NOT REPORTED	389	10	-	1	5	2	1	2	-	1	367	...
STORM DOORS												
ALL DOORS COVERED	2 232	42	38	35	54	59	43	50	46	163	1 702	585
SOME DOORS COVERED	900	28	15	22	19	23	21	12	16	44	701	470
NO DOORS COVERED	5 084	189	134	97	93	83	54	33	30	84	4 288	277
NOT REPORTED	389	8	-	1	5	2	-	-	1	1	372	...
ATTIC OR ROOF INSULATION												
YES	3 751	131	93	64	73	81	62	53	58	164	2 971	435
NO	2 425	80	62	61	61	48	41	22	18	83	1 948	357
DON'T KNOW	2 032	47	31	28	29	37	15	19	15	43	1 768	388
NOT REPORTED	397	10	-	1	7	-	-	2	1	1	376	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-11. HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE, MOTOR-CYCLE, OR MOPED	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME
HOUSING UNITS WITH EMPLOYED HOUSEHOLDERS[1]	54 070	36 652	9 407	3 306	926	96	2 070	125	1 487
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	36 185	26 067	6 358	1 248	507	25	791	85	1 103
LESS THAN 1 MILE	2 270	1 357	144	8	56	3	685	16	-
1 TO 4 MILES	7 236	5 873	846	201	212	10	77	18	-
5 TO 9 MILES	6 879	5 419	1 061	289	93	7	3	7	-
10 TO 19 MILES	8 025	5 796	1 781	358	84	-	-	7	-
20 TO 29 MILES	3 139	1 988	942	177	32	-	-	-	-
30 TO 49 MILES	1 973	1 086	744	128	15	-	-	-	-
50 MILES OR MORE	820	506	293	19	3	-	-	-	-
WORKS AT HOME	1 103	-	-	-	-	-	-	-	1 103
NO FIXED PLACE OF WORK	4 741	4 042	548	69	13	6	27	36	-
MEDIAN	9.1	8.5	14.8	12.5	4.6	...	1.0-	2.7	-
RENTER OCCUPIED	17 885	10 585	3 049	2 058	418	71	1 279	40	384
LESS THAN 1 MILE	1 996	699	129	57	67	6	1 030	8	-
1 TO 4 MILES	4 697	3 024	637	584	194	50	194	13	-
5 TO 9 MILES	3 694	2 383	641	574	85	3	5	2	-
10 TO 19 MILES	3 437	2 151	727	522	37	-	-	-	-
20 TO 29 MILES	1 149	662	330	140	16	-	-	-	-
30 TO 49 MILES	570	334	189	43	5	-	-	-	-
50 MILES OR MORE	238	141	86	10	1	-	-	-	-
WORKS AT HOME	384	-	-	-	-	-	-	-	384
NO FIXED PLACE OF WORK	1 720	1 191	311	127	13	11	50	17	-
MEDIAN	6.6	7.0	9.7	7.8	3.8	2.9	1.0-	...	-
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	36 185	26 067	6 358	1 248	507	25	791	85	1 103
LESS THAN 15 MINUTES	10 658	8 603	1 158	33	215	11	621	17	-
15 TO 29 MINUTES	11 075	8 396	2 142	207	195	7	118	11	-
30 TO 44 MINUTES	4 884	3 153	1 334	316	56	2	17	5	-
45 TO 59 MINUTES	1 889	1 025	638	199	19	-	2	6	-
1 HOUR TO 1 HOUR AND 29 MINUTES	1 193	527	371	282	8	-	3	2	-
1 HOUR AND 30 MINUTES OR MORE	644	322	166	142	2	-	4	8	-
WORKS AT HOME	1 103	-	-	-	-	-	-	-	1 103
NO FIXED PLACE OF WORK	4 741	4 042	548	69	13	6	27	36	-
MEDIAN	21.1	19.3	27.2	47.5	17.5	...	15.0-	25.5	-
RENTER OCCUPIED	17 885	10 585	3 049	2 058	418	71	1 279	40	384
LESS THAN 15 MINUTES	6 042	4 043	769	112	203	38	865	11	-
15 TO 29 MINUTES	5 674	3 635	1 100	475	151	18	289	6	-
30 TO 44 MINUTES	2 267	1 103	496	573	38	3	52	2	-
45 TO 59 MINUTES	861	343	195	301	10	-	12	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	658	159	126	362	3	-	9	-	-
1 HOUR AND 30 MINUTES OR MORE	279	112	53	107	-	-	3	4	-
WORKS AT HOME	384	-	-	-	-	-	-	-	384
NO FIXED PLACE OF WORK	1 720	1 191	311	127	13	11	50	17	-
MEDIAN	19.9	17.7	23.2	39.9	15.0-	15.0-	15.0-	...	-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	17 264	13 575	5 867	7 708	3 689
HOUSE HEATING FUEL					
OWNER OCCUPIED	10 480	7 778	2 277	5 501	2 702
UTILITY GAS	4 392	3 573	1 228	2 345	819
BOTTLED, TANK, OR LP GAS	86	47	2	46	39
FUEL OIL	4 997	3 639	957	2 682	1 358
KEROSENE, ETC	85	29	2	28	56
ELECTRICITY	641	380	68	312	261
COAL OR COKE	105	66	17	49	39
WOOD	170	43	5	37	128
SOLAR HEAT	2	1	-	1	2
OTHER FUEL	-	-	-	-	-
NONE	1	-	-	-	1
RENTER OCCUPIED	6 784	5 797	3 590	2 208	986
UTILITY GAS	2 536	2 183	1 340	843	353
BOTTLED, TANK, OR LP GAS	40	18	7	12	21
FUEL OIL	3 574	3 129	2 068	1 061	446
KEROSENE, ETC	29	9	-	9	20
ELECTRICITY	528	412	156	256	116
COAL OR COKE	30	25	6	18	5
WOOD	29	7	-	7	22
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	13	12	12	-	2
NONE	5	3	2	2	2
WATER HEATING FUEL[1]					
OWNER OCCUPIED	10 409	7 762	2 276	5 486	2 647
UTILITY GAS	4 850	4 109	1 484	2 625	741
BOTTLED, TANK, OR LP GAS	258	100	3	97	158
FUEL OIL	2 876	2 210	628	1 583	666
KEROSENE, ETC	14	6	-	6	8
ELECTRICITY	2 331	1 305	157	1 148	1 027
COAL OR COKE	27	13	3	9	14
WOOD	36	7	-	7	28
SOLAR HEAT	6	4	-	4	2
OTHER FUEL	-	-	-	-	-
NONE	11	7	2	6	4
RENTER OCCUPIED	6 721	5 766	3 571	2 195	955
UTILITY GAS	2 801	2 449	1 468	981	351
BOTTLED, TANK, OR LP GAS	85	30	-	30	55
FUEL OIL	2 848	2 612	1 882	730	236
KEROSENE, ETC	1	-	-	-	1
ELECTRICITY	928	623	182	441	305
COAL OR COKE	14	13	8	5	1
WOOD	2	-	-	-	2
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	15	15	12	3	1
NONE	27	24	19	5	3
COOKING FUEL					
OWNER OCCUPIED	10 480	7 778	2 277	5 501	2 702
UTILITY GAS	4 556	3 940	1 712	2 229	615
BOTTLED, TANK, OR LP GAS	805	352	12	340	453
FUEL OIL	25	22	11	12	2
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	5 059	3 456	543	2 913	1 604
COAL OR COKE	5	1	-	1	4
WOOD	28	4	-	4	23
OTHER FUEL	3	2	-	2	1
NONE	-	-	-	-	-
RENTER OCCUPIED	6 784	5 797	3 590	2 208	986
UTILITY GAS	4 678	4 321	3 051	1 270	357
BOTTLED, TANK, OR LP GAS	223	95	5	90	127
FUEL OIL	37	36	35	2	1
KEROSENE, ETC	3	1	-	1	2
ELECTRICITY	1 769	1 286	448	838	483
COAL OR COKE	1	-	-	-	1
WOOD	1	-	-	-	1
OTHER FUEL	7	7	5	2	-
NONE	65	51	46	5	14

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
MONTHLY COST PAID FOR ELECTRICITY					
SPECIFIED OWNER OCCUPIED[1]	8 307	6 246	1 506	4 740	2 061
ELECTRICITY PAID FOR	8 299	6 244	1 506	4 738	2 056
LESS THAN $10	47	28	9	19	19
$10 TO $19	590	443	159	285	147
$20 TO $29	1 554	1 124	294	830	430
$30 TO $39	1 738	1 260	309	951	478
$40 TO $49	1 357	1 038	259	779	320
$50 TO $59	994	754	187	567	240
$60 TO $79	1 033	822	157	665	210
$80 TO $99	408	331	56	275	77
$100 TO $149	452	349	68	281	103
$150 OR MORE	126	94	9	85	32
MEDIAN	41	42	39	43	38
NO ELECTRICITY USED	8	3	-	3	5
SPECIFIED RENTER OCCUPIED[2]	6 728	5 773	3 590	2 183	956
ELECTRICITY PAID FOR	5 151	4 413	2 607	1 805	738
LESS THAN $10	217	180	97	83	36
$10 TO $19	1 452	1 232	716	516	220
$20 TO $29	1 548	1 357	879	479	190
$30 TO $39	916	787	485	302	128
$40 TO $49	452	385	204	181	67
$50 TO $59	238	204	97	106	35
$60 TO $79	202	160	75	84	43
$80 TO $99	39	32	20	12	7
$100 TO $149	60	51	21	30	9
$150 OR MORE	27	24	12	12	3
MEDIAN	25	25	25	26	25
INCLUDED IN RENT	1 567	1 350	976	374	218
NO ELECTRICITY USED	11	11	7	4	-
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	8 307	6 246	1 506	4 740	2 061
GAS PAID FOR	5 481	4 385	1 278	3 107	1 096
LESS THAN $10	503	343	79	264	160
$10 TO $14	402	310	97	213	92
$15 TO $19	320	248	87	161	72
$20 TO $24	361	298	95	203	64
$25 TO $29	249	206	65	141	43
$30 TO $39	640	513	176	337	126
$40 TO $49	750	586	155	431	164
$50 TO $69	1 221	999	252	746	222
$70 TO $99	668	570	193	377	98
$100 OR MORE	366	312	78	234	54
MEDIAN	43	44	42	45	38
NO GAS USED	2 826	1 861	228	1 633	965
SPECIFIED RENTER OCCUPIED[2]	6 728	5 773	3 590	2 183	956
GAS PAID FOR	3 524	3 129	2 111	1 017	396
LESS THAN $10	1 138	1 042	735	307	96
$10 TO $14	594	563	428	134	32
$15 TO $19	356	329	213	117	27
$20 TO $24	291	256	164	92	35
$25 TO $29	180	154	103	51	26
$30 TO $39	252	203	122	81	49
$40 TO $49	223	172	94	78	51
$50 TO $69	271	218	129	88	53
$70 TO $99	145	130	84	45	15
$100 OR MORE	74	62	38	24	12
MEDIAN	15	14	13	17	26
INCLUDED IN RENT	2 255	1 985	1 250	735	270
NO GAS USED	949	659	229	430	290

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	8 307	6 246	1 506	4 740	2 061
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	4 471	3 191	592	2 599	1 279
LESS THAN $100	180	135	19	116	45
$100 TO $199	160	102	18	85	57
$200 TO $299	149	83	23	60	66
$300 TO $399	215	114	18	96	101
$400 TO $499	304	205	33	172	99
$500 TO $599	334	196	39	157	138
$600 TO $699	391	232	47	185	160
$700 TO $799	366	267	53	213	99
$800 OR MORE	2 373	1 857	343	1 515	515
MEDIAN	800+	800+	800+	800+	683
FUELS NOT USED OR FREE	3 836	3 055	914	2 141	781
SPECIFIED RENTER OCCUPIED[2]	6 728	5 773	3 590	2 183	956
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	793	542	225	317	251
LESS THAN $100	85	72	59	13	13
$100 TO $199	60	49	29	20	11
$200 TO $299	39	26	10	16	13
$300 TO $399	58	42	15	27	16
$400 TO $499	64	35	11	23	29
$500 TO $599	53	26	6	19	28
$600 TO $699	68	47	12	35	21
$700 TO $799	80	42	12	31	37
$800 OR MORE	287	203	70	133	84
MEDIAN	655	645	394	716	679
INCLUDED IN RENT	3 491	3 215	2 258	957	276
FUELS NOT USED OR FREE	2 444	2 016	1 106	909	429
ALL OCCUPIED HOUSING UNITS	17 264	13 575	5 867	7 708	3 689
HEATING EQUIPMENT					
OWNER OCCUPIED	10 480	7 778	2 277	5 501	2 702
WARM-AIR FURNACE	4 533	3 282	823	2 458	1 252
HEAT PUMP	69	60	6	53	10
STEAM OR HOT WATER	4 775	3 935	1 326	2 609	840
BUILT-IN ELECTRIC UNITS	483	262	49	213	221
FLOOR, WALL, OR PIPELESS FURNACE	79	35	7	29	43
ROOM HEATERS WITH FLUE	162	86	49	38	76
ROOM HEATERS WITHOUT FLUE	13	8	5	3	5
FIREPLACES, STOVES, OR PORTABLE HEATERS	364	110	12	98	255
NONE	1	-	-	-	1
RENTER OCCUPIED	6 784	5 797	3 590	2 208	986
WARM-AIR FURNACE	1 517	1 181	541	640	336
HEAT PUMP	18	17	6	11	1
STEAM OR HOT WATER	4 266	3 890	2 667	1 223	376
BUILT-IN ELECTRIC UNITS	454	347	134	213	107
FLOOR, WALL, OR PIPELESS FURNACE	48	15	-	15	33
ROOM HEATERS WITH FLUE	353	279	198	80	74
ROOM HEATERS WITHOUT FLUE	38	30	21	9	8
FIREPLACES, STOVES, OR PORTABLE HEATERS	85	36	21	15	49
NONE	5	3	2	2	2
FIREPLACES AND HEATING STOVES					
OWNER OCCUPIED	10 480	7 778	2 277	5 501	2 702
HOUSING UNITS WITH HEATING EQUIPMENT	10 479	7 778	2 277	5 501	2 702
WITH FIREPLACE OR HEATING STOVE	4 730	3 261	521	2 739	1 469
IN WORKING ORDER	4 479	3 064	455	2 610	1 415
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	3 716	2 493	308	2 184	1 223
ALL PURCHASED	1 168	794	124	670	374
SOME OR NONE PURCHASED	2 510	1 669	177	1 492	841
NOT REPORTED	38	30	7	23	8
COAL	63	45	5	40	18
OTHER FUEL	214	129	54	75	86
NONE	475	392	86	306	83
NOT REPORTED	11	6	2	4	5
NOT IN WORKING ORDER	239	189	63	126	50
NOT REPORTED	12	7	3	3	5
WITHOUT FIREPLACE OR HEATING STOVE	5 727	4 497	1 751	2 746	1 231
NOT REPORTED	22	20	5	15	2
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	-	1

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
FIREPLACES AND HEATING STOVES--CONTINUED					
RENTER OCCUPIED	6 784	5 797	3 590	2 208	986
HOUSING UNITS WITH HEATING EQUIPMENT	6 779	5 794	3 588	2 206	985
WITH FIREPLACE OR HEATING STOVE	697	496	277	219	201
IN WORKING ORDER	552	373	204	169	179
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	233	128	35	93	104
ALL PURCHASED	79	42	18	24	37
SOME OR NONE PURCHASED	144	81	13	68	63
NOT REPORTED	9	6	5	1	4
COAL	9	5	-	5	5
OTHER FUEL	252	192	141	51	60
NONE	54	44	26	17	10
NOT REPORTED	4	4	2	2	-
NOT IN WORKING ORDER	135	114	69	46	21
NOT REPORTED	10	9	5	4	1
WITHOUT FIREPLACE OR HEATING STOVE	6 064	5 280	3 296	1 984	784
NOT REPORTED	18	18	15	3	-
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	3	2	2	2
ALL OCCUPIED HOUSING UNITS	17 264	13 575	5 867	7 708	3 689
UNITS OCCUPIED LAST WINTER	15 582	12 258	5 216	7 042	3 324
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	10 102	7 502	2 182	5 320	2 600
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	7 385	2 165	5 220	2 348
NO ADDITIONAL HEAT SOURCE USED	9 054	6 882	1 986	4 896	2 172
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	550	417	152	265	132
NOT REPORTED	129	86	28	59	43
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	117	17	100	253
RENTER OCCUPIED	5 480	4 756	3 033	1 723	724
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	4 698	2 996	1 702	684
NO ADDITIONAL HEAT SOURCE USED	4 319	3 747	2 282	1 466	572
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	985	882	660	222	103
NOT REPORTED	78	69	54	15	9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	58	37	20	40
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	10 102	7 502	2 182	5 320	2 600
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	7 385	2 165	5 220	2 348
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 411	6 601	1 913	4 688	1 810
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 200	704	235	469	496
1 ROOM	525	368	128	240	156
2 ROOMS	304	168	60	108	135
3 ROOMS OR MORE	372	168	47	121	204
NOT REPORTED	121	80	17	63	42
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	117	17	100	253
RENTER OCCUPIED	5 480	4 756	3 033	1 723	724
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	4 698	2 996	1 702	684
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 689	4 178	2 661	1 518	510
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	619	454	290	164	165
1 ROOM	252	189	112	78	63
2 ROOMS	155	113	71	41	42
3 ROOMS OR MORE	212	152	107	45	60
NOT REPORTED	74	66	45	21	9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	58	37	20	40
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	10 102	7 502	2 182	5 320	2 600
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	7 385	2 165	5 220	2 348
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	117	17	100	253
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	314	95	14	81	220
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	10	2	8	15
NOT REPORTED	30	12	2	10	18

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
UNITS OCCUPIED LAST WINTER--CONTINUED					
INSUFFICIENT HEAT--CONTINUED					
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED					
RENTER OCCUPIED	5 480	4 756	3 033	1 723	724
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	4 698	2 996	1 702	684
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	58	37	20	40
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	64	30	14	15	34
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	23	18	16	2	5
NOT REPORTED	11	10	7	3	1
ALL OCCUPIED HOUSING UNITS	17 264	13 575	5 867	7 708	3 689
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	10 480	7 778	2 277	5 501	2 702
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	365	110	12	98	255
WITH SELECTED HEATING EQUIPMENT[2]	10 115	7 668	2 265	5 403	2 447
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 048	6 910	2 113	4 797	2 138
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 046	741	143	597	305
SOLAR HEATING EQUIPMENT	7	5	-	5	2
STOVE, BURNING WOOD OR COAL	431	264	32	233	167
FIREPLACE, BURNING WOOD OR COAL	95	71	18	54	24
PORTABLE ELECTRIC HEATER	359	291	87	205	68
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	99	79	7	72	20
OTHER	95	63	7	56	32
NOT REPORTED	21	17	9	9	4
RENTER OCCUPIED	6 784	5 797	3 590	2 208	986
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	90	39	23	16	51
WITH SELECTED HEATING EQUIPMENT[2]	6 694	5 758	3 567	2 191	935
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 208	5 328	3 254	2 075	879
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	464	409	302	108	54
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	17	14	2	12	4
FIREPLACE, BURNING WOOD OR COAL	6	3	3	-	3
PORTABLE ELECTRIC HEATER	404	363	281	82	42
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	18	16	7	10	1
OTHER	22	17	10	7	5
NOT REPORTED	22	21	12	9	2
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]					
OWNER OCCUPIED	10 391	7 751	2 275	5 476	2 641
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	10 266	7 665	2 246	5 419	2 602
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	47	30	13	16	17
NOT REPORTED	78	56	15	41	22
RENTER OCCUPIED	6 694	5 742	3 552	2 190	952
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 605	5 660	3 485	2 175	945
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	16	10	6	4
NOT REPORTED	70	67	58	9	3
AIR CONDITIONING					
OWNER OCCUPIED	10 480	7 778	2 277	5 501	2 702
WITH AIR CONDITIONING	5 333	4 486	1 418	3 068	847
ROOM UNITS	4 330	3 674	1 243	2 432	656
1	2 317	1 901	604	1 297	416
2	1 304	1 138	427	711	166
3	448	405	123	282	43
4	180	159	56	103	21
5 OR MORE	80	70	32	38	10
CENTRAL SYSTEM	1 003	812	175	637	191
WITH NO AIR CONDITIONING	5 147	3 292	859	2 432	1 856

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
AIR CONDITIONING--CONTINUED					
RENTER OCCUPIED	6 784	5 797	3 590	2 208	986
WITH AIR CONDITIONING	2 576	2 356	1 228	1 127	220
ROOM UNITS	2 222	2 025	1 094	931	197
1	1 518	1 364	739	626	154
2	572	533	273	260	39
3	96	94	60	34	2
4	21	20	15	6	1
5 OR MORE	15	13	8	5	2
CENTRAL SYSTEM	354	331	134	196	23
WITH NO AIR CONDITIONING	4 208	3 442	2 361	1 080	766
SUPPLEMENTAL COOLING EQUIPMENT					
OWNER OCCUPIED	10 480	7 778	2 277	5 501	2 702
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 003	812	175	637	191
WITH SUPPLEMENTAL EQUIPMENT USED	478	382	71	310	97
INDIVIDUAL ROOM AIR CONDITIONING UNIT	35	29	12	17	6
AWNINGS	81	72	21	50	9
DEHUMIDIFIER	151	120	19	101	31
CEILING FAN	22	20	4	16	2
ATTIC FAN	214	175	15	160	39
WINDOW FAN	41	28	3	25	13
PORTABLE FAN	110	73	15	57	37
WITH NO SUPPLEMENTAL EQUIPMENT USED	472	387	85	302	85
NOT REPORTED	52	43	19	24	9
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	9 477	6 966	2 102	4 864	2 511
RENTER OCCUPIED	6 784	5 797	3 590	2 208	986
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	354	331	134	196	23
WITH SUPPLEMENTAL EQUIPMENT USED	73	69	34	35	4
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	25	21	4	2
AWNINGS	-	-	-	-	-
DEHUMIDIFIER	2	2	-	2	-
CEILING FAN	-	-	-	-	-
ATTIC FAN	2	2	-	2	-
WINDOW FAN	6	6	2	5	-
PORTABLE FAN	38	35	11	23	4
WITH NO SUPPLEMENTAL EQUIPMENT USED	264	245	89	156	19
NOT REPORTED	17	17	11	6	-
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 430	5 467	3 455	2 011	963
ALL OCCUPIED HOUSING UNITS	17 264	13 575	5 867	7 708	3 689
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 196	7 326	1 765	5 561	2 870
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	9 201	6 673	1 546	5 127	2 528
ALL WINDOWS COVERED	7 677	5 570	1 240	4 331	2 107
SOME WINDOWS COVERED	1 159	831	229	602	328
NO WINDOWS COVERED	343	253	76	177	90
NOT REPORTED	22	18	2	16	4
RENTER OCCUPIED	995	653	219	435	342
ALL WINDOWS COVERED	591	369	98	270	222
SOME WINDOWS COVERED	187	114	37	77	73
NO WINDOWS COVERED	165	122	61	61	43
NOT REPORTED	52	49	23	26	3
STORM DOORS					
OWNER OCCUPIED	9 201	6 673	1 546	5 127	2 528
ALL DOORS COVERED	7 232	5 309	1 210	4 099	1 923
SOME DOORS COVERED	1 252	881	217	664	371
NO DOORS COVERED	695	466	117	349	229
NOT REPORTED	23	17	2	15	6
RENTER OCCUPIED	995	653	219	435	342
ALL DOORS COVERED	556	362	95	267	194
SOME DOORS COVERED	154	91	30	61	63
NO DOORS COVERED	234	154	71	83	80
NOT REPORTED	51	46	23	24	5

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
ATTIC OR ROOF INSULATION					
OWNER OCCUPIED	9 201	6 673	1 546	5 127	2 528
YES	7 792	5 616	1 133	4 483	2 176
NO	1 076	785	328	457	291
DON'T KNOW	309	253	83	169	57
NOT REPORTED	24	19	2	18	5
RENTER OCCUPIED	995	653	219	435	342
YES	502	285	52	233	216
NO	230	153	78	75	77
DON'T KNOW	212	167	66	100	46
NOT REPORTED	50	48	23	25	2
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	9 201	6 673	1 546	5 127	2 528
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	343	253	76	177	90
SOME OR ALL WINDOWS COVERED	8 836	6 402	1 468	4 933	2 434
NONE INSTALLED	7 951	5 779	1 331	4 448	2 172
SOME OR ALL INSTALLED	868	606	130	476	262
NOT REPORTED	16	16	7	9	-
NOT REPORTED	22	18	2	16	4
STORM DOORS:					
NO DOORS COVERED	695	466	117	349	229
SOME OR ALL DOORS COVERED	8 484	6 190	1 427	4 763	2 293
NONE INSTALLED	7 954	5 798	1 326	4 472	2 156
SOME OR ALL INSTALLED	495	359	89	269	137
NOT REPORTED	35	34	12	22	1
NOT REPORTED	23	17	2	15	6
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	1 076	785	328	457	291
WITH ATTIC OR ROOF INSULATION	7 792	5 616	1 133	4 483	2 176
NONE ADDED OR INSTALLED	6 949	4 986	1 011	3 975	1 963
SOME OR ALL ADDED OR INSTALLED	809	606	113	493	204
NOT REPORTED	33	24	9	15	9
DON'T KNOW	309	253	83	169	57
NOT REPORTED	24	19	2	18	5
WALL INSULATION:					
NONE ADDED OR INSTALLED	8 388	6 079	1 410	4 669	2 309
SOME OR ALL ADDED OR INSTALLED	766	559	126	433	207
NOT REPORTED	47	35	11	25	12
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	6 800	4 824	1 138	3 686	1 975
SOME OR ALL ADDED OR INSTALLED	2 362	1 819	401	1 418	542
NOT REPORTED	40	29	7	22	10
OTHER INSULATION:					
NONE ADDED OR INSTALLED	8 177	5 941	1 395	4 546	2 235
SOME OR ALL ADDED OR INSTALLED	984	700	144	557	283
NOT REPORTED	41	31	7	24	10
RENTER OCCUPIED	995	653	219	435	342
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	165	122	61	61	43
SOME OR ALL WINDOWS COVERED	778	483	135	347	295
NONE INSTALLED	677	421	116	305	256
SOME OR ALL INSTALLED	96	57	16	41	39
NOT REPORTED	5	5	3	2	-
NOT REPORTED	52	49	23	26	3
STORM DOORS:					
NO DOORS COVERED	234	154	71	83	80
SOME OR ALL DOORS COVERED	710	453	125	327	257
NONE INSTALLED	662	424	116	309	238
SOME OR ALL INSTALLED	36	20	7	13	17
NOT REPORTED	11	9	3	6	2
NOT REPORTED	51	46	23	24	5

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
RENTER OCCUPIED--CONTINUED					
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	230	153	78	75	77
WITH ATTIC OR ROOF INSULATION	502	285	52	233	216
NONE ADDED OR INSTALLED	453	263	46	217	190
SOME OR ALL ADDED OR INSTALLED	43	20	6	14	22
NOT REPORTED	6	2	-	2	4
DON'T KNOW	212	167	66	100	46
NOT REPORTED	50	48	23	25	2
WALL INSULATION:					
NONE ADDED OR INSTALLED	881	568	179	390	313
SOME OR ALL ADDED OR INSTALLED	44	24	13	11	20
NOT REPORTED	69	61	27	33	9
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	786	504	163	341	282
SOME OR ALL ADDED OR INSTALLED	137	88	28	59	50
NOT REPORTED	71	62	27	34	9
OTHER INSULATION:					
NONE ADDED OR INSTALLED	885	570	182	388	315
SOME OR ALL ADDED OR INSTALLED	42	22	10	12	21
NOT REPORTED	68	62	27	34	6
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	9 201	6 673	1 546	5 127	2 528
NO INSULATION ADDED OR INSTALLED	5 550	3 971	971	3 000	1 579
WITH INSULATION ADDED OR INSTALLED	3 538	2 617	550	2 067	921
LESS THAN $50	1 476	1 056	199	857	420
$50 TO $99	353	253	59	194	100
$100 TO $249	549	400	70	330	149
$250 TO $499	434	330	77	253	104
$500 TO $999	256	202	43	158	54
$1,000 OR MORE	267	218	56	162	49
DON'T KNOW	135	108	25	83	27
NOT REPORTED	70	51	21	30	18
MEDIAN	76	83	94	80	59
NOT REPORTED OR DON'T KNOW	112	85	25	60	27
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	250	159	34	126	90
LESS THAN $50	101	44	5	39	58
$50 TO $99	11	5	2	3	6
$100 TO $249	39	32	-	32	6
$250 TO $499	32	30	13	17	1
$500 TO $999	22	15	4	11	7
$1,000 OR MORE	22	19	7	12	2
DON'T KNOW	11	7	2	5	4
NOT REPORTED	12	7	2	5	6
MEDIAN	103	211	...	172	50-
ONLY INSTALLED STORM DOORS	125	86	22	64	38
LESS THAN $50	10	4	-	4	5
$50 TO $99	23	15	4	11	8
$100 TO $249	54	41	5	36	13
$250 TO $499	18	13	5	8	5
$500 TO $999	5	5	3	2	-
$1,000 OR MORE	-	-	-	-	-
DON'T KNOW	3	3	-	3	1
NOT REPORTED	12	6	5	1	6
MEDIAN	161	173	...	162	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	310	218	35	184	92
LESS THAN $50	40	26	3	22	14
$50 TO $99	37	26	2	24	11
$100 TO $249	98	67	12	55	32
$250 TO $499	44	27	2	25	17
$500 TO $999	32	27	3	23	5
$1,000 OR MORE	33	26	5	21	7
DON'T KNOW	13	8	2	7	5
NOT REPORTED	12	12	5	6	1
MEDIAN	199	206	...	206	184

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	17 264	13 575	5 867	7 708	3 689
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	7 293	5 444	1 433	4 011	1 849
DRIVES SELF	4 937	3 658	796	2 861	1 279
CARPOOL	1 262	892	215	677	369
MASS TRANSPORTATION	584	552	302	250	32
BICYCLE, MOTORCYCLE, OR MOPED	85	67	23	45	18
TAXICAB	4	3	3	-	1
WALKS ONLY	245	164	77	87	82
OTHER MEANS	5	3	-	3	2
WORKS AT HOME	171	104	17	87	66
RENTER OCCUPIED	4 101	3 481	1 964	1 517	620
DRIVES SELF	1 958	1 574	619	955	384
CARPOOL	558	435	172	263	123
MASS TRANSPORTATION	1 013	1 004	843	162	9
BICYCLE, MOTORCYCLE, OR MOPED	55	42	26	16	14
TAXICAB	25	23	18	5	3
WALKS ONLY	410	340	247	94	70
OTHER MEANS	6	3	3	-	3
WORKS AT HOME	74	60	36	23	14
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]					
OWNER OCCUPIED	7 293	5 444	1 433	4 011	1 849
HOUSEHOLDER DRIVES ALONE	4 937	3 658	796	2 861	1 279
IRREGULAR OR UNUSUAL WORK HOURS	1 506	1 113	236	877	393
IRREGULAR WORK LOCATION	489	366	70	295	123
CAR NEEDED FOR WORK OR ERRANDS	654	492	112	379	162
DOESN'T KNOW ANYONE TO RIDE WITH	1 307	958	201	757	349
LIKES PRIVACY	225	182	57	126	43
OUT OF THE WAY TO PICK UP OTHERS	288	217	50	167	71
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	49	35	11	24	14
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	92	54	15	39	37
DOESN'T TRUST OTHERS DRIVING	2	1	-	1	2
SOME OTHER REASON	313	231	43	188	82
NOT REPORTED	11	7	-	7	4
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	2 356	1 786	637	1 149	570
RENTER OCCUPIED	4 101	3 481	1 964	1 517	620
HOUSEHOLDER DRIVES ALONE	1 958	1 574	619	955	384
IRREGULAR OR UNUSUAL WORK HOURS	528	424	161	262	104
IRREGULAR WORK LOCATION	129	105	51	54	24
CAR NEEDED FOR WORK OR ERRANDS	218	172	51	122	46
DOESN'T KNOW ANYONE TO RIDE WITH	589	459	176	283	130
LIKES PRIVACY	126	104	38	66	22
OUT OF THE WAY TO PICK UP OTHERS	130	110	54	56	21
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	28	27	7	20	1
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	47	40	10	30	7
DOESN'T TRUST OTHERS DRIVING	7	5	5	-	2
SOME OTHER REASON	141	117	61	56	24
NOT REPORTED	14	11	5	6	2
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	2 143	1 907	1 345	562	236
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	7 293	5 444	1 433	4 011	1 849
LESS THAN 1 MILE	506	330	119	212	175
1 TO 4 MILES	1 377	1 031	347	685	346
5 TO 9 MILES	1 317	1 053	304	749	264
10 TO 19 MILES	1 657	1 315	354	961	343
20 TO 29 MILES	707	537	99	438	170
30 TO 49 MILES	470	321	59	262	149
50 MILES OR MORE	161	86	16	71	75
WORKS AT HOME	171	104	17	87	66
NO FIXED PLACE OF WORK	927	666	119	546	261
MEDIAN	9.6	9.6	8.0	10.4	9.5

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
DISTANCE FROM HOME TO WORK[1]--CONTINUED					
RENTER OCCUPIED	4 101	3 481	1 964	1 517	620
LESS THAN 1 MILE	517	408	280	129	109
1 TO 4 MILES	1 059	887	523	365	171
5 TO 9 MILES	762	664	333	331	99
10 TO 19 MILES	905	804	454	350	101
20 TO 29 MILES	294	259	131	128	36
30 TO 49 MILES	135	114	56	58	21
50 MILES OR MORE	33	22	13	9	12
WORKS AT HOME	74	60	36	23	14
NO FIXED PLACE OF WORK	321	264	139	125	57
MEDIAN	6.8	7.1	6.4	7.9	4.8
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	7 293	5 444	1 433	4 011	1 849
LESS THAN 15 MINUTES	1 950	1 354	366	988	596
15 TO 29 MINUTES	2 161	1 688	442	1 246	473
30 TO 44 MINUTES	1 106	879	257	622	227
45 TO 59 MINUTES	428	328	83	244	101
1 HOUR TO 1 HOUR AND 29 MINUTES	377	292	112	180	84
1 HOUR AND 30 MINUTES OR MORE	173	133	37	96	41
WORKS AT HOME	171	104	17	87	66
NO FIXED PLACE OF WORK	927	666	119	546	261
MEDIAN	23.0	23.7	24.6	23.4	20.2
RENTER OCCUPIED	4 101	3 481	1 964	1 517	620
LESS THAN 15 MINUTES	1 192	912	428	483	281
15 TO 29 MINUTES	1 227	1 044	529	515	183
30 TO 44 MINUTES	587	542	341	202	45
45 TO 59 MINUTES	301	284	195	89	17
1 HOUR TO 1 HOUR AND 29 MINUTES	316	307	241	67	9
1 HOUR AND 30 MINUTES OR MORE	82	68	56	12	15
WORKS AT HOME	74	60	36	23	14
NO FIXED PLACE OF WORK	321	264	139	125	57
MEDIAN	23.1	24.6	28.2	20.8	15.0-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS	17 264	821	2 759	1 784	2 692	2 297	1 927	2 581	1 528	608	268	16300
HOUSE HEATING FUEL												
OWNER OCCUPIED	10 480	260	1 041	859	1 333	1 430	1 345	2 087	1 342	549	235	21200
UTILITY GAS	4 392	94	445	331	518	571	563	924	580	274	91	22100
BOTTLED, TANK, OR LP GAS	86	5	10	14	11	16	11	16	3	1	-	16000
FUEL OIL	4 997	131	515	422	661	707	628	949	629	233	122	20500
KEROSENE, ETC	85	4	14	12	28	12	9	5	1	-	-	12200
ELECTRICITY	641	12	25	43	77	86	97	148	101	33	20	24000
COAL OR COKE	105	8	14	13	19	16	15	11	8	2	-	14500
WOOD	170	6	17	25	18	22	23	35	18	6	2	19500
SOLAR HEAT	2	-	-	-	-	-	1	-	1	-	1	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	1	-	-	-	1	-	-	-	-	-	-	...
RENTER OCCUPIED	6 784	561	1 718	924	1 359	867	582	494	186	59	32	10700
UTILITY GAS	2 536	243	682	362	489	301	208	179	55	11	6	9800
BOTTLED, TANK, OR LP GAS	40	2	8	5	12	6	4	2	-	-	-	11700
FUEL OIL	3 574	270	857	482	749	479	298	263	113	45	19	11200
KEROSENE, ETC	29	4	10	4	5	3	2	2	-	-	-	...
ELECTRICITY	528	34	139	66	90	69	62	45	17	2	4	11400
COAL OR COKE	30	2	5	4	10	4	3	2	1	-	-	...
WOOD	29	5	8	2	5	5	2	2	1	-	-	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	5	-	-	-	3	-	-	2	3	...
NONE	5	-	5	-	-	-	-	-	-	-	-	...
WATER HEATING FUEL[1]												
OWNER OCCUPIED	10 409	250	1 023	846	1 322	1 421	1 340	2 083	1 339	549	235	21300
UTILITY GAS	4 850	95	490	374	596	609	632	1 016	646	284	108	22100
BOTTLED, TANK, OR LP GAS	258	11	38	31	44	43	29	33	25	3	2	15600
FUEL OIL	2 876	80	230	224	330	378	369	588	418	173	86	22700
KEROSENE, ETC	14	-	3	1	3	2	4	1	-	-	-	...
ELECTRICITY	2 331	59	254	208	337	378	290	438	242	86	39	19100
COAL OR COKE	27	2	2	1	6	3	9	1	2	2	-	...
WOOD	36	2	2	6	6	7	6	2	6	1	-	17800
SOLAR HEAT	6	-	-	-	-	-	1	3	2	-	1	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	11	2	4	2	1	2	1	1	-	-	-	...
RENTER OCCUPIED	6 721	551	1 693	916	1 350	865	578	493	184	59	32	10700
UTILITY GAS	2 801	237	719	400	550	347	267	209	56	9	6	10400
BOTTLED, TANK, OR LP GAS	85	6	16	11	24	12	8	5	2	1	-	12000
FUEL OIL	2 848	223	713	382	577	368	209	206	102	47	21	10900
KEROSENE, ETC	1	-	1	-	-	-	-	-	-	-	-	...
ELECTRICITY	928	77	218	118	192	132	91	72	23	2	4	11300
COAL OR COKE	14	2	5	2	2	2	1	-	1	-	-	...
WOOD	2	-	1	-	1	1	-	-	-	-	-	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	15	2	2	-	3	4	2	2	-	-	2	...
NONE	27	5	19	2	1	-	-	-	-	-	-	...
COOKING FUEL												
OWNER OCCUPIED	10 480	260	1 041	859	1 333	1 430	1 345	2 087	1 342	549	235	21200
UTILITY GAS	4 556	109	535	416	579	602	556	890	549	234	85	20300
BOTTLED, TANK, OR LP GAS	805	31	126	110	156	106	100	108	58	5	6	14300
FUEL OIL	25	1	5	2	4	2	6	4	2	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	5 059	114	362	328	592	719	681	1 081	728	309	145	23000
COAL OR COKE	5	1	2	-	1	-	-	1	-	-	-	...
WOOD	28	4	10	3	2	1	2	3	3	-	-	...
OTHER FUEL	3	-	-	-	-	-	-	-	3	-	-	...
NONE	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 784	561	1 718	924	1 359	867	582	494	186	59	32	10700
UTILITY GAS	4 678	403	1 231	642	923	583	385	321	123	41	27	10300
BOTTLED, TANK, OR LP GAS	223	22	51	33	51	30	21	11	3	-	-	10500
FUEL OIL	37	8	8	2	3	10	5	-	-	-	-	9300
KEROSENE, ETC	3	1	2	-	1	-	-	-	-	-	-	...
ELECTRICITY	1 769	114	397	242	367	240	167	162	59	17	5	11800
COAL OR COKE	1	-	-	1	-	-	-	-	-	-	-	...
WOOD	1	-	-	-	-	1	-	-	-	-	-	...
OTHER FUEL	7	2	2	-	-	-	2	-	2	-	-	...
NONE	65	11	28	3	14	3	3	-	-	2	-	6000
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[2]	8 307	189	744	599	953	1 083	1 090	1 783	1 180	485	201	22700
ELECTRICITY PAID FOR	8 299	188	744	597	953	1 083	1 089	1 783	1 178	485	201	22700
LESS THAN $10	47	5	23	7	2	6	-	3	1	-	-	6200
$10 TO $19	590	25	157	98	93	66	66	46	23	11	2	10800
$20 TO $29	1 554	44	226	177	233	231	186	286	117	43	11	17100
$30 TO $39	1 738	33	134	128	256	269	247	366	216	60	31	21000
$40 TO $49	1 357	35	75	83	116	179	189	375	213	73	18	25000
$50 TO $59	994	13	62	37	99	132	150	223	185	67	25	25200
$60 TO $79	1 033	20	31	42	90	122	135	245	208	97	42	28100
$80 TO $99	408	6	15	11	25	34	64	99	82	50	23	30000
$100 TO $149	452	4	13	10	26	36	40	112	110	67	34	33600
$150 OR MORE	126	2	7	4	13	7	12	25	23	18	14	31900
MEDIAN	41	35	28	31	35	38	42	45	51	57	66	...
NO ELECTRICITY USED	8	2	-	2	-	-	2	-	3	-	-	...

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
MONTHLY COST PAID FOR ELECTRICITY--CONTINUED												
SPECIFIED RENTER OCCUPIED[1]	6 728	558	1 705	919	1 344	859	577	489	185	59	32	10700
ELECTRICITY PAID FOR	5 151	384	1 147	687	1 056	715	492	434	160	49	28	11700
LESS THAN $10	217	21	60	32	53	27	7	9	2	2	3	9500
$10 TO $19	1 452	123	413	207	326	181	92	67	38	2	3	9800
$20 TO $29	1 548	131	344	202	307	214	153	128	50	16	2	11600
$30 TO $39	916	53	154	121	210	121	117	104	22	7	6	13100
$40 TO $49	452	32	81	53	74	83	61	46	12	6	5	14100
$50 TO $59	238	10	41	28	41	32	29	37	14	2	5	14900
$60 TO $79	202	10	33	22	34	33	18	23	14	13	3	15500
$80 TO $99	39	2	4	5	5	9	3	6	4	-	-	16600
$100 TO $149	60	1	8	11	2	13	7	12	3	1	2	18100
$150 OR MORE	27	1	9	5	4	2	4	2	-	1	-	...
MEDIAN	25	23	23	25	24	26	29	31	27	36	...	...
INCLUDED IN RENT	1 567	172	553	232	289	144	84	55	23	10	5	7800
NO ELECTRICITY USED	11	2	5	-	-	-	2	-	2	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	8 307	189	744	599	953	1 083	1 090	1 783	1 180	485	201	22700
GAS PAID FOR	5 481	123	562	421	651	684	709	1 151	746	329	126	22300
LESS THAN $10	503	20	73	53	71	65	60	77	49	24	13	17800
$10 TO $14	402	11	53	46	44	50	59	78	35	14	11	19700
$15 TO $19	320	10	43	32	43	48	29	61	35	15	3	18300
$20 TO $24	361	4	41	44	38	53	35	79	44	13	10	20100
$25 TO $29	249	3	22	26	41	36	45	44	23	5	5	19600
$30 TO $39	640	18	83	39	109	95	81	124	57	25	10	18800
$40 TO $49	750	22	54	53	80	102	98	208	91	33	8	23200
$50 TO $69	1 221	14	98	73	131	137	180	264	218	84	21	24300
$70 TO $99	668	10	53	34	67	71	88	153	112	57	21	25600
$100 OR MORE	366	9	21	22	27	27	34	63	82	58	23	31800
MEDIAN	43	36	34	32	37	39	44	45	53	58	52	...
NO GAS USED	2 826	66	202	178	302	399	381	632	434	156	75	23500
SPECIFIED RENTER OCCUPIED[1]	6 728	558	1 705	919	1 344	859	577	489	185	59	32	10700
GAS PAID FOR	3 524	303	859	482	701	462	325	248	99	29	16	10800
LESS THAN $10	1 138	88	250	170	232	158	90	83	42	13	13	11300
$10 TO $14	598	62	163	66	113	74	55	34	16	10	2	10300
$15 TO $19	356	35	92	55	70	40	33	24	5	2	-	9800
$20 TO $24	291	19	72	36	56	33	40	24	10	2	-	11600
$25 TO $29	180	17	43	31	39	20	19	6	3	-	2	9900
$30 TO $39	252	25	60	41	45	29	22	21	8	2	-	10000
$40 TO $49	223	28	51	22	45	29	28	17	2	-	-	11100
$50 TO $69	271	13	66	36	65	42	20	21	6	2	-	11600
$70 TO $99	145	12	33	20	27	26	11	13	3	-	-	11400
$100 OR MORE	74	4	28	6	10	10	7	6	3	-	-	9700
MEDIAN	15	15	16	15	15	14	17	16	12	...	...	...
INCLUDED IN RENT	2 255	190	631	310	437	270	170	155	60	21	11	10000
NO GAS USED	949	65	215	127	206	127	83	86	26	9	5	11700
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	8 307	189	744	599	953	1 083	1 090	1 783	1 180	485	201	22700
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	4 471	114	416	339	509	626	577	915	623	236	114	22000
LESS THAN $100	180	2	13	8	16	23	21	38	47	8	4	26800
$100 TO $199	160	4	14	12	10	18	28	39	23	8	4	23900
$200 TO $299	149	5	12	7	15	24	26	36	14	6	2	22100
$300 TO $399	215	5	22	23	26	37	30	44	24	3	2	19400
$400 TO $499	304	8	41	26	34	49	48	55	27	13	2	19400
$500 TO $599	334	5	35	29	52	60	47	58	37	8	1	18700
$600 TO $699	391	8	32	35	56	59	58	83	50	5	4	20400
$700 TO $799	366	10	35	27	59	56	48	67	39	19	5	19600
$800 OR MORE	2 373	67	212	170	241	300	270	495	361	165	90	23600
MEDIAN	800+	800+	800+	800+	777	776	762	800+	800+	800+	800+	...
FUELS NOT USED OR FREE	3 836	75	328	260	444	456	513	867	557	248	87	23500
SPECIFIED RENTER OCCUPIED[1]	6 728	558	1 705	919	1 344	859	577	489	185	59	32	10700
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	793	71	154	102	170	103	80	67	32	10	3	12000
LESS THAN $100	85	13	14	13	14	12	8	6	5	-	-	11100
$100 TO $199	60	7	13	11	10	7	2	2	5	2	-	9800
$200 TO $299	39	4	10	5	12	2	3	-	2	-	2	10500
$300 TO $399	58	5	13	7	14	5	7	5	2	-	-	11800
$400 TO $499	64	7	10	7	10	14	10	5	-	-	-	13600
$500 TO $599	53	6	12	4	15	7	4	3	2	-	-	11600
$600 TO $699	68	4	20	9	14	5	6	3	5	2	-	10200
$700 TO $799	80	9	17	12	14	5	8	9	2	2	2	10700
$800 OR MORE	287	18	45	35	66	45	32	33	7	5	-	13500
MEDIAN	655	521	627	649	665	679	703	792	...	...	...	...
INCLUDED IN RENT	3 491	277	898	471	678	467	293	240	99	45	24	10700
FUELS NOT USED OR FREE	2 444	210	654	345	497	289	205	182	55	4	5	10100
ALL OCCUPIED HOUSING UNITS	17 264	821	2 759	1 784	2 692	2 297	1 927	2 581	1 528	608	268	16300
HEATING EQUIPMENT												
OWNER OCCUPIED	10 480	260	1 041	859	1 333	1 430	1 345	2 087	1 342	549	235	21200
WARM-AIR FURNACE	4 533	102	478	385	589	655	594	895	532	223	81	20500
HEAT PUMP	69	-	2	-	3	1	7	26	12	10	9	33500
STEAM OR HOT WATER	4 775	121	439	375	586	605	603	959	673	279	135	22200
BUILT-IN ELECTRIC UNITS	483	11	21	35	64	72	66	107	76	21	9	22900
FLOOR, WALL, OR PIPELESS FURNACE	79	2	18	9	16	10	5	10	4	4	-	13300
ROOM HEATERS WITH FLUE	162	9	44	17	26	24	15	19	7	2	-	12200
ROOM HEATERS WITHOUT FLUE	13	1	3	1	1	4	-	3	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	364	14	36	37	47	60	55	69	36	10	2	19100
NONE	1	-	-	-	1	-	-	-	-	-	-	...

[1] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
HEATING EQUIPMENT--CONTINUED												
RENTER OCCUPIED	6 784	561	1 718	924	1 359	867	582	494	186	59	32	10700
WARM-AIR FURNACE	1 517	131	356	224	321	187	130	121	38	7	3	10800
HEAT PUMP	18	-	-	-	2	5	5	5	-	-	-	...
STEAM OR HOT WATER	4 266	312	1 080	573	846	576	360	314	127	50	27	11000
BUILT-IN ELECTRIC UNITS	454	31	125	63	76	56	47	37	15	2	2	10500
FLOOR, WALL, OR PIPELESS FURNACE	48	8	16	3	8	4	6	2	1	-	-	6900
ROOM HEATERS WITH FLUE	353	61	101	52	71	34	26	8	2	-	-	7900
ROOM HEATERS WITHOUT FLUE	38	2	13	2	13	-	2	3	2	-	-	10500
FIREPLACES, STOVES, OR PORTABLE HEATERS	85	15	23	8	21	5	8	4	2	-	-	8500
NONE	5	-	5	-	-	-	-	-	-	-	-	...
FIREPLACES AND HEATING STOVES												
OWNER OCCUPIED	10 480	260	1 041	859	1 333	1 430	1 345	2 087	1 342	549	235	21200
HOUSING UNITS WITH HEATING EQUIPMENT	10 479	260	1 041	859	1 332	1 430	1 345	2 087	1 342	549	235	21200
WITH FIREPLACE OR HEATING STOVE	4 730	105	298	296	441	586	630	1 032	811	354	177	25100
IN WORKING ORDER	4 479	96	271	267	412	551	588	980	791	351	171	25600
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	3 716	75	188	186	315	454	491	834	694	325	155	26800
ALL PURCHASED	1 168	15	67	52	91	143	136	269	222	108	65	28000
SOME OR NONE PURCHASED	2 510	60	116	128	223	304	350	563	471	208	87	26300
NOT REPORTED	38	-	5	6	1	7	5	2	1	9	3	20000
COAL	63	2	12	9	6	6	4	14	7	3	-	17400
OTHER FUEL	214	6	35	21	36	37	25	32	16	3	3	16200
NONE	475	14	34	51	54	53	66	100	71	19	14	22400
NOT REPORTED	11	-	2	-	1	1	2	1	4	1	-	...
NOT IN WORKING ORDER	239	7	27	24	29	33	42	50	19	3	5	19800
NOT REPORTED	12	2	-	5	-	2	-	2	2	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	5 727	154	740	562	886	840	714	1 051	528	194	59	18100
NOT REPORTED	22	-	3	2	6	4	2	4	2	1	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	-	1	-	-	-	-	-	-	...
RENTER OCCUPIED	6 784	561	1 718	924	1 359	867	582	494	186	59	32	10700
HOUSING UNITS WITH HEATING EQUIPMENT	6 779	561	1 714	924	1 359	867	582	494	186	59	32	10700
WITH FIREPLACE OR HEATING STOVE	697	65	145	71	153	99	82	52	20	7	3	12200
IN WORKING ORDER	552	51	114	56	124	84	64	37	17	5	-	12200
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	233	12	32	15	50	46	31	31	13	3	-	15800
ALL PURCHASED	79	6	11	1	13	21	5	15	6	2	-	17200
SOME OR NONE PURCHASED	144	4	21	14	34	25	24	13	7	2	-	14900
NOT REPORTED	9	2	-	-	4	-	2	2	-	-	-	...
COAL	9	1	5	2	-	-	-	-	1	-	-	...
OTHER FUEL	252	35	67	31	58	31	23	5	2	-	-	9300
NONE	54	3	10	6	14	7	9	1	2	2	-	12900
NOT REPORTED	4	-	-	2	2	-	1	-	-	-	-	...
NOT IN WORKING ORDER	135	12	31	14	25	14	17	14	3	2	3	12100
NOT REPORTED	10	2	-	2	3	-	2	2	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	6 064	494	1 565	848	1 203	767	497	441	166	52	29	10500
NOT REPORTED	18	2	3	5	3	2	3	-	-	-	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	5	-	-	-	-	-	-	-	-	...
ALL OCCUPIED HOUSING UNITS	17 264	821	2 759	1 784	2 692	2 297	1 927	2 581	1 528	608	268	16300
UNITS OCCUPIED LAST WINTER	15 582	661	2 447	1 579	2 386	2 087	1 766	2 388	1 435	580	252	16700
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	10 102	250	1 018	826	1 301	1 374	1 307	1 989	1 287	528	222	21100
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	236	979	789	1 256	1 312	1 253	1 919	1 250	519	220	21200
NO ADDITIONAL HEAT SOURCE USED	9 054	219	898	724	1 179	1 215	1 173	1 791	1 172	476	208	21300
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	550	13	60	45	67	72	64	109	71	38	9	21300
NOT REPORTED	129	5	21	20	10	25	16	19	8	4	2	16900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	14	39	37	46	62	54	70	36	9	2	18900
RENTER OCCUPIED	5 480	411	1 429	754	1 085	713	459	399	149	52	30	10700
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	400	1 398	743	1 058	708	454	393	146	52	30	10700
NO ADDITIONAL HEAT SOURCE USED	4 319	307	1 075	602	849	585	382	321	125	42	30	11000
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	985	91	304	134	199	111	65	58	16	8	-	9200
NOT REPORTED	78	2	19	7	10	12	7	14	5	2	-	15500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	11	31	10	27	5	5	6	3	-	-	9000
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	10 102	250	1 018	826	1 301	1 374	1 307	1 989	1 287	528	222	21100
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	236	979	789	1 256	1 312	1 253	1 919	1 250	519	220	21200
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 411	198	796	642	1 048	1 116	1 081	1 722	1 133	469	205	21900
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 200	32	166	132	198	175	156	174	109	46	12	17100
1 ROOM	525	11	55	40	91	85	66	68	70	30	9	18900
2 ROOMS	304	9	50	45	36	47	43	48	15	9	3	16400
3 ROOMS OR MORE	372	12	61	47	72	43	47	57	24	7	1	14500
NOT REPORTED	121	6	16	15	9	21	16	23	8	4	2	18200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	14	39	37	46	62	54	70	36	9	2	18900
RENTER OCCUPIED	5 480	411	1 429	754	1 085	713	459	399	149	52	30	10700
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	400	1 398	743	1 058	708	454	393	146	52	30	10700
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 689	335	1 219	648	915	615	392	353	135	47	30	10800
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	619	61	166	88	130	80	52	33	6	3	-	9800
1 ROOM	252	23	59	33	49	43	22	15	5	3	-	11200
2 ROOMS	155	12	51	20	33	13	15	10	-	-	-	9100
3 ROOMS OR MORE	212	27	56	34	48	23	14	8	2	-	-	9000
NOT REPORTED	74	3	14	7	13	14	10	7	5	2	-	14800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	11	31	10	27	5	5	6	3	-	-	9000

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
UNITS OCCUPIED LAST WINTER--CONTINUED												
INSUFFICIENT HEAT--CONTINUED												
HOUSING UNIT UNCOMFORTABLY COLD:												
OWNER OCCUPIED	10 102	250	1 018	826	1 301	1 374	1 307	1 989	1 287	528	222	21100
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	236	979	789	1 256	1 312	1 253	1 919	1 250	519	220	21200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	14	39	37	46	62	54	70	36	9	2	18900
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	314	11	30	31	37	53	48	63	32	8	2	19500
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	1	6	4	6	5	2	3	-	-	-	...
NOT REPORTED	30	2	3	3	3	5	5	5	5	1	-	...
RENTER OCCUPIED	5 480	411	1 429	754	1 085	713	459	399	149	52	30	10700
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	400	1 398	743	1 058	708	454	393	146	52	30	10700
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	11	31	10	27	5	5	6	3	-	-	9000
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	64	6	21	9	15	5	4	3	3	-	-	8800
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	23	3	8	2	10	-	2	-	-	-	-	...
NOT REPORTED	11	3	2	-	2	-	-	3	-	-	-	...
ALL OCCUPIED HOUSING UNITS	17 264	821	2 759	1 784	2 692	2 297	1 927	2 581	1 528	608	268	16300
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	10 480	260	1 041	859	1 333	1 430	1 345	2 087	1 342	549	235	21200
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	365	14	36	37	48	60	55	69	36	10	2	19000
WITH SELECTED HEATING EQUIPMENT[2]	10 115	246	1 005	822	1 285	1 370	1 290	2 018	1 305	539	234	21300
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 048	224	946	774	1 165	1 230	1 145	1 777	1 121	455	211	20800
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 046	22	58	44	118	134	145	239	179	83	23	25000
SOLAR HEATING EQUIPMENT	7	-	1	-	-	1	1	4	-	-	1	...
STOVE, BURNING WOOD OR COAL	431	8	20	19	41	61	58	104	80	31	9	25800
FIREPLACE, BURNING WOOD OR COAL	95	5	4	1	6	5	19	22	20	9	4	28400
PORTABLE ELECTRIC HEATER	359	7	24	16	52	47	45	77	54	26	11	23700
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	99	1	6	3	10	17	16	23	13	8	3	24000
OTHER	95	1	5	6	10	7	13	20	20	13	-	28100
NOT REPORTED	21	-	1	4	3	6	-	2	5	1	-	...
RENTER OCCUPIED	6 784	561	1 718	924	1 359	867	582	494	186	59	32	10700
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	90	15	28	8	21	5	8	4	2	-	-	7600
WITH SELECTED HEATING EQUIPMENT[2]	6 694	546	1 690	916	1 338	862	575	490	185	59	32	10700
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 208	502	1 554	847	1 250	808	540	456	173	53	26	10800
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	464	41	130	69	82	55	34	32	10	5	6	9600
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	17	2	4	-	3	3	2	3	1	-	-	...
FIREPLACE, BURNING WOOD OR COAL	6	-	3	2	-	2	-	-	-	-	-	...
PORTABLE ELECTRIC HEATER	404	37	111	64	70	42	27	32	9	5	6	9500
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	18	2	4	1	4	5	2	-	-	-	-	...
OTHER	22	-	8	4	4	2	3	-	-	-	-	...
NOT REPORTED	22	4	7	-	7	-	-	2	2	2	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
OWNER OCCUPIED	10 391	248	1 019	845	1 322	1 419	1 339	2 079	1 337	549	234	21300
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	10 266	243	1 003	838	1 306	1 404	1 329	2 054	1 320	541	229	21300
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	47	-	5	2	6	7	7	4	7	5	5	23100
NOT REPORTED	78	5	12	5	10	8	3	21	10	3	-	18900
RENTER OCCUPIED	6 694	546	1 673	914	1 349	865	578	493	184	59	32	10800
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 605	540	1 660	895	1 338	848	567	487	180	59	31	10800
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	-	-	3	3	6	6	2	-	-	-	...
NOT REPORTED	70	7	13	16	8	11	5	4	4	-	2	9800
AIR CONDITIONING												
OWNER OCCUPIED	10 480	260	1 041	859	1 333	1 430	1 345	2 087	1 342	549	235	21200
WITH AIR CONDITIONING	5 333	103	384	341	569	684	678	1 181	828	393	173	24300
ROOM UNITS	4 330	87	331	302	496	582	568	972	631	262	98	23200
1	2 317	48	231	206	312	337	271	508	282	100	22	20500
2	1 304	29	81	72	128	177	191	311	209	81	25	24300
3	448	5	12	15	38	52	62	98	94	46	26	29000
4	180	5	5	5	11	15	28	41	39	17	14	30200
5 OR MORE	80	-	2	4	7	2	16	14	8	17	10	31600
CENTRAL SYSTEM	1 003	16	52	38	72	102	110	209	197	131	75	30300
WITH NO AIR CONDITIONING	5 147	157	657	519	764	746	667	906	514	155	62	18200
RENTER OCCUPIED	6 784	561	1 718	924	1 359	867	582	494	186	59	32	10700
WITH AIR CONDITIONING	2 576	123	380	304	528	404	344	303	122	43	25	14600
ROOM UNITS	2 222	107	352	268	457	343	296	241	101	36	21	14200
1	1 518	84	263	188	345	237	198	136	53	7	6	13200
2	572	20	75	70	97	84	83	78	40	20	5	16400
3	96	3	5	6	10	18	10	22	6	10	6	23200
4	21	-	3	3	4	5	-	4	-	-	2	...
5 OR MORE	15	-	5	-	2	-	5	-	2	-	2	...
CENTRAL SYSTEM	354	16	28	36	71	60	47	62	22	6	5	17100
WITH NO AIR CONDITIONING	4 208	438	1 338	620	831	463	239	191	64	16	7	8600

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
OWNER OCCUPIED	10 480	260	1 041	859	1 333	1 430	1 345	2 087	1 342	549	235	21200
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 003	16	52	38	72	102	110	209	197	131	75	30300
WITH SUPPLEMENTAL EQUIPMENT USED	478	9	19	19	25	46	62	97	99	71	32	31200
INDIVIDUAL ROOM AIR CONDITIONING UNIT	35	1	1	1	2	2	3	8	7	11	-	35600
AWNINGS	81	2	7	2	9	13	4	16	14	9	6	27600
DEHUMIDIFIER	151	1	7	8	9	13	14	30	35	25	10	33400
CEILING FAN	22	-	-	-	-	4	3	9	3	2	2	...
ATTIC FAN	214	6	2	6	6	22	34	48	44	28	19	31700
WINDOW FAN	41	-	2	3	3	3	8	9	7	3	2	26500
PORTABLE FAN	110	2	6	5	7	9	8	27	23	22	2	31600
WITH NO SUPPLEMENTAL EQUIPMENT USED	472	7	28	20	43	48	40	107	88	52	39	29600
NOT REPORTED	52	-	5	-	4	7	8	6	10	8	4	27300
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	9 477	244	988	821	1 260	1 328	1 235	1 877	1 145	418	160	20400
RENTER OCCUPIED	6 784	561	1 718	924	1 359	867	582	494	186	59	32	10700
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	356	16	28	36	71	60	47	62	22	6	5	17100
WITH SUPPLEMENTAL EQUIPMENT USED	73	3	2	11	21	9	12	11	3	-	-	14600
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	3	-	2	10	6	3	-	2	-	-	...
AWNINGS	-	-	-	-	-	-	-	-	-	-	-	-
DEHUMIDIFIER	2	-	-	-	2	-	-	-	-	-	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	2	-	-	-	2	-	-	-	-	-	-	...
WINDOW FAN	6	-	-	-	2	-	1	3	-	-	-	...
PORTABLE FAN	38	-	2	10	6	3	9	8	1	-	-	16600
WITH NO SUPPLEMENTAL EQUIPMENT USED	264	13	26	23	44	51	33	46	19	6	3	17600
NOT REPORTED	17	-	-	2	6	-	2	5	-	-	2	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 430	545	1 690	888	1 288	807	535	432	165	53	28	10400
ALL OCCUPIED HOUSING UNITS	17 264	821	2 759	1 784	2 692	2 297	1 927	2 581	1 528	608	268	16300
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 196	308	1 064	837	1 349	1 344	1 298	1 979	1 272	526	219	20800
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	9 201	224	868	702	1 130	1 209	1 192	1 893	1 246	519	217	22000
ALL WINDOWS COVERED	7 677	173	678	554	916	992	997	1 649	1 080	449	191	22600
SOME WINDOWS COVERED	1 159	33	140	117	153	178	155	183	126	54	19	18800
NO WINDOWS COVERED	343	18	44	31	61	38	35	57	38	15	7	17400
NOT REPORTED	22	1	5	-	1	1	5	4	3	2	-	...
RENTER OCCUPIED	995	83	196	135	219	135	107	86	25	7	2	11900
ALL WINDOWS COVERED	591	49	93	78	142	91	62	55	18	4	-	12700
SOME WINDOWS COVERED	187	12	43	28	37	18	28	15	5	2	-	11400
NO WINDOWS COVERED	165	20	45	24	28	21	13	12	2	-	-	9100
NOT REPORTED	52	3	14	6	13	5	4	5	-	1	2	11300
STORM DOORS												
OWNER OCCUPIED	9 201	224	868	702	1 130	1 209	1 192	1 893	1 246	519	217	22000
ALL DOORS COVERED	7 232	154	658	543	911	951	945	1 508	1 019	385	158	22100
SOME DOORS COVERED	1 252	41	120	97	133	192	160	257	134	84	34	21300
NO DOORS COVERED	695	29	85	62	85	66	81	122	91	48	25	21300
NOT REPORTED	23	1	5	-	1	1	5	6	2	2	-	...
RENTER OCCUPIED	995	83	196	135	219	135	107	86	25	7	2	11900
ALL DOORS COVERED	556	40	94	72	133	83	60	55	15	5	-	12700
SOME DOORS COVERED	154	20	32	21	28	15	17	14	6	1	-	10700
NO DOORS COVERED	234	20	56	37	48	32	26	12	4	-	-	10400
NOT REPORTED	51	3	14	6	11	6	4	5	-	1	2	11300
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	9 201	224	868	702	1 130	1 209	1 192	1 893	1 246	519	217	22000
YES	7 792	169	633	543	918	1 015	1 025	1 668	1 145	466	210	23000
NO	1 076	38	183	121	174	156	121	172	70	35	4	15700
DON'T KNOW	309	16	47	38	37	37	38	48	29	15	3	17200
NOT REPORTED	24	1	6	-	1	1	7	4	2	3	-	...
RENTER OCCUPIED	995	83	196	135	219	135	107	86	25	7	2	11900
YES	502	29	81	64	131	68	58	49	17	4	-	12900
NO	230	27	54	39	37	28	25	16	4	-	-	9600
DON'T KNOW	212	24	46	26	42	34	21	16	4	-	-	11200
NOT REPORTED	50	3	14	6	10	6	2	5	-	3	2	11000
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	9 201	224	868	702	1 130	1 209	1 192	1 893	1 246	519	217	22000
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	343	18	44	31	61	38	35	57	38	15	7	17400
SOME OR ALL WINDOWS COVERED	8 836	206	819	671	1 068	1 171	1 152	1 832	1 206	502	210	22100
NONE INSTALLED	7 951	179	751	607	982	1 064	1 029	1 627	1 065	454	194	21900
SOME OR ALL INSTALLED	868	27	66	59	86	106	120	201	141	47	17	23800
NOT REPORTED	16	-	2	5	-	1	3	4	-	2	-	...
NOT REPORTED	22	1	5	-	1	1	5	4	3	2	-	...
STORM DOORS:												
NO DOORS COVERED	695	29	85	62	85	66	81	122	91	48	25	21300
SOME OR ALL DOORS COVERED	8 484	194	778	640	1 044	1 142	1 105	1 765	1 153	469	192	22000
NONE INSTALLED	7 954	183	748	611	1 000	1 068	1 031	1 624	1 071	436	183	21800
SOME OR ALL INSTALLED	495	11	25	23	43	68	71	136	81	31	7	25500
NOT REPORTED	35	1	5	6	1	6	4	5	2	2	3	18300
NOT REPORTED	23	1	5	-	1	1	5	6	2	2	-	...

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 076	38	183	121	174	156	121	172	70	35	4	15700
WITH ATTIC OR ROOF INSULATION	7 792	169	633	543	918	1 015	1 025	1 668	1 145	466	210	23000
NONE ADDED OR INSTALLED	6 949	147	595	502	846	898	915	1 437	996	422	191	22700
SOME OR ALL ADDED OR INSTALLED	809	21	32	38	71	110	106	228	147	43	14	26200
NOT REPORTED	33	1	5	3	1	7	4	4	2	2	5	...
DON'T KNOW	309	16	47	38	37	37	38	48	29	15	3	17200
NOT REPORTED	24	1	6	-	1	1	7	4	2	3	-	...
WALL INSULATION:												
NONE ADDED OR INSTALLED	8 388	200	833	667	1 059	1 095	1 056	1 682	1 117	476	203	21600
SOME OR ALL ADDED OR INSTALLED	766	24	26	30	68	113	126	206	122	39	12	24800
NOT REPORTED	47	1	8	5	3	1	10	5	8	4	2	22600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	6 800	184	719	602	902	911	856	1 252	824	374	176	20500
SOME OR ALL ADDED OR INSTALLED	2 362	39	141	97	227	297	327	635	417	142	39	25800
NOT REPORTED	40	1	8	3	2	1	8	6	5	4	2	23300
OTHER INSULATION:												
NONE ADDED OR INSTALLED	8 177	210	820	648	1 050	1 074	1 008	1 627	1 082	462	196	21400
SOME OR ALL ADDED OR INSTALLED	984	14	41	51	78	134	176	258	159	54	20	25000
NOT REPORTED	41	1	7	3	2	1	8	8	5	4	2	24100
RENTER OCCUPIED	995	83	196	135	219	135	107	86	25	7	2	11900
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	165	20	45	24	28	21	13	12	2	-	-	9100
SOME OR ALL WINDOWS COVERED	778	60	137	106	178	110	90	69	23	6	-	12400
NONE INSTALLED	677	55	114	95	150	98	80	60	22	3	-	12500
SOME OR ALL INSTALLED	96	5	21	10	27	10	10	9	1	2	-	12100
NOT REPORTED	5	-	2	-	2	2	-	-	-	-	-	...
NOT REPORTED	52	3	14	6	13	5	4	5	-	1	2	11300
STORM DOORS:												
NO DOORS COVERED	234	20	56	37	48	32	26	12	4	-	-	10400
SOME OR ALL DOORS COVERED	710	60	126	92	161	98	77	69	21	6	-	12400
NONE INSTALLED	662	57	118	87	148	94	73	63	20	4	-	12400
SOME OR ALL INSTALLED	36	2	6	4	8	2	4	7	2	2	-	13800
NOT REPORTED	11	2	2	2	5	2	-	-	-	-	-	...
NOT REPORTED	51	3	14	6	11	6	4	5	-	1	2	11300
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	230	27	54	39	37	28	25	16	4	-	-	9600
WITH ATTIC OR ROOF INSULATION	502	29	81	64	131	68	58	49	17	4	-	12900
NONE ADDED OR INSTALLED	453	26	75	61	120	57	53	40	17	4	-	12700
SOME OR ALL ADDED OR INSTALLED	43	2	6	3	10	10	4	7	1	-	-	15400
NOT REPORTED	6	2	-	-	1	1	2	2	-	-	-	...
DON'T KNOW	212	24	46	26	42	34	21	16	4	-	-	11200
NOT REPORTED	50	3	14	6	10	6	2	5	-	3	2	11000
WALL INSULATION:												
NONE ADDED OR INSTALLED	881	74	172	126	196	117	96	72	24	4	-	11700
SOME OR ALL ADDED OR INSTALLED	44	2	8	2	10	10	4	7	1	-	-	15000
NOT REPORTED	69	8	16	7	13	8	7	6	-	3	2	11600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	786	66	159	109	169	107	84	64	24	4	-	11700
SOME OR ALL ADDED OR INSTALLED	137	8	20	20	38	20	16	15	1	-	-	12800
NOT REPORTED	71	9	17	7	13	8	7	6	-	3	2	11300
OTHER INSULATION:												
NONE ADDED OR INSTALLED	885	75	172	130	192	116	97	74	25	4	-	11700
SOME OR ALL ADDED OR INSTALLED	42	2	7	-	15	11	2	5	-	-	-	14000
NOT REPORTED	68	6	17	6	13	8	7	6	-	3	2	11900
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	9 201	224	868	702	1 130	1 209	1 192	1 893	1 246	519	217	22000
NO INSULATION ADDED OR INSTALLED	5 550	153	622	500	780	726	674	995	653	300	148	20000
WITH INSULATION ADDED OR INSTALLED	3 538	71	230	187	340	472	502	881	578	214	62	24700
LESS THAN $50	1 476	30	118	98	160	213	207	344	216	82	9	22900
$50 TO $99	353	3	26	25	23	46	44	101	54	23	7	25800
$100 TO $249	549	6	21	14	50	74	103	138	104	29	11	25500
$250 TO $499	434	8	17	21	45	46	60	121	77	27	11	26600
$500 TO $999	256	4	15	14	27	32	41	50	43	19	10	24300
$1,000 OR MORE	267	9	8	10	19	41	28	78	51	15	6	27200
DON'T KNOW	135	9	18	2	7	14	14	33	19	15	7	26500
NOT REPORTED	70	2	6	3	9	7	5	16	15	5	2	27400
MEDIAN	76	51	50-	50-	55	64	88	85	103	82	251	...
NOT REPORTED OR DON'T KNOW	112	1	17	15	10	10	16	17	15	5	7	21000
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	250	10	33	27	21	31	28	43	36	15	7	20700
LESS THAN $50	101	7	17	14	12	12	13	15	7	3	-	15300
$50 TO $99	11	1	2	2	-	2	1	3	-	-	-	...
$100 TO $249	39	-	1	3	2	1	9	9	10	2	2	29200
$250 TO $499	32	-	1	4	2	4	1	5	9	3	3	...
$500 TO $999	22	1	6	3	-	5	2	2	2	-	2	...
$1,000 OR MORE	22	1	2	-	3	4	1	4	4	4	-	...
DON'T KNOW	11	-	2	1	1	2	2	1	1	2	-	...
NOT REPORTED	12	-	2	1	1	2	-	3	2	2	-	...
MEDIAN	103	...	...	...	...	...	...	109	...	...	...	...

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ONLY INSTALLED STORM DOORS	125	1	10	9	11	22	17	29	12	10	3	22600
LESS THAN $50	10	1	-	2	1	2	2	1	1	-	-	...
$50 TO $99	23	-	-	2	-	6	2	10	-	3	-	...
$100 TO $249	54	-	4	4	7	9	9	9	6	2	2	21200
$250 TO $499	18	1	2	1	2	2	3	4	2	1	-	...
$500 TO $999	5	-	2	-	-	-	2	2	-	-	-	...
$1,000 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
DON'T KNOW	3	-	-	-	-	-	-	1	-	2	1	...
NOT REPORTED	12	-	2	-	1	3	-	2	2	2	-	...
MEDIAN	161	...	...	...	...	...	...	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	310	12	25	17	30	37	44	70	47	21	7	23900
LESS THAN $50	40	2	8	1	2	5	5	7	8	2	1	23000
$50 TO $99	37	-	3	5	1	4	7	13	3	2	-	25300
$100 TO $249	98	3	3	2	10	14	19	22	20	6	-	24500
$250 TO $499	44	5	2	1	7	2	7	14	7	1	1	25000
$500 TO $999	32	2	2	3	7	4	2	-	3	6	4	...
$1,000 OR MORE	33	-	3	4	2	8	1	10	2	2	2	...
DON'T KNOW	13	1	4	1	3	-	1	-	2	2	-	...
NOT REPORTED	12	-	-	2	-	-	3	4	4	-	-	...
MEDIAN	199	...	...	...	...	200	168	188	173	...	...	...
ALL OCCUPIED HOUSING UNITS	17 264	821	2 759	1 784	2 692	2 297	1 927	2 581	1 528	608	268	16300
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	7 293	100	168	295	738	1 057	1 131	1 856	1 226	508	213	25800
DRIVES SELF	4 937	59	95	186	517	702	778	1 244	864	337	154	26000
CARPOOL	1 262	14	23	45	102	186	225	383	207	56	23	26000
MASS TRANSPORTATION	584	10	22	31	46	81	56	136	99	78	27	28400
BICYCLE, MOTORCYCLE, OR MOPED	85	-	4	4	10	17	11	19	16	4	-	23500
TAXICAB	4	-	-	1	1	-	-	-	-	-	2	...
WALKS ONLY	245	6	10	15	38	51	39	46	26	13	-	20300
OTHER MEANS	5	-	2	-	-	1	-	3	-	-	-	...
WORKS AT HOME	171	10	13	13	24	19	22	26	14	20	8	21100
RENTER OCCUPIED	4 101	166	420	528	1 068	734	521	418	163	52	31	14400
DRIVES SELF	1 958	63	162	236	500	380	285	222	81	17	12	15200
CARPOOL	558	18	42	70	142	104	84	70	21	5	3	15400
MASS TRANSPORTATION	1 013	40	116	155	278	166	95	100	39	17	6	13500
BICYCLE, MOTORCYCLE, OR MOPED	55	2	10	6	20	7	6	2	2	-	-	12300
TAXICAB	25	3	2	2	5	3	5	2	-	2	2	...
WALKS ONLY	410	35	75	46	102	65	38	19	14	10	6	12400
OTHER MEANS	6	-	2	-	3	-	-	-	-	2	-	...
WORKS AT HOME	74	5	12	12	18	8	8	3	6	-	2	12300
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]												
OWNER OCCUPIED	7 293	100	168	295	738	1 057	1 131	1 856	1 226	508	213	25800
HOUSEHOLDER DRIVES ALONE	4 937	59	95	186	517	702	778	1 244	864	337	154	26000
IRREGULAR OR UNUSUAL WORK HOURS	1 506	21	34	51	136	208	243	384	256	101	72	26600
IRREGULAR WORK LOCATION	489	4	7	18	49	66	59	115	113	39	17	28500
CAR NEEDED FOR WORK OR ERRANDS	654	12	7	23	50	93	97	162	130	59	22	27800
DOESN'T KNOW ANYONE TO RIDE WITH	1 307	16	30	50	174	188	229	339	184	75	22	24300
LIKES PRIVACY	225	2	3	14	23	31	33	57	41	14	7	26100
OUT OF THE WAY TO PICK UP OTHERS	288	2	5	11	31	49	48	76	50	14	4	24900
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	49	-	-	-	6	11	7	14	8	-	2	24800
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	92	1	2	6	10	16	12	22	16	5	2	24700
DOESN'T TRUST OTHERS DRIVING	2	-	-	-	-	1	1	-	1	-	-	...
SOME OTHER REASON	313	2	8	13	37	37	46	72	61	30	7	26800
NOT REPORTED	11	-	-	-	1	3	2	2	3	-	-	...
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	2 356	41	72	109	221	355	353	612	362	172	59	25400
RENTER OCCUPIED	4 101	166	420	528	1 068	734	521	418	163	52	31	14400
HOUSEHOLDER DRIVES ALONE	1 958	63	162	236	500	380	285	222	81	17	12	15200
IRREGULAR OR UNUSUAL WORK HOURS	528	14	45	56	127	116	76	64	21	6	3	16000
IRREGULAR WORK LOCATION	129	10	9	17	30	24	16	15	6	2	-	14700
CAR NEEDED FOR WORK OR ERRANDS	218	5	24	26	40	36	42	22	14	5	3	16800
DOESN'T KNOW ANYONE TO RIDE WITH	589	20	59	80	154	107	75	72	17	2	2	14400
LIKES PRIVACY	126	1	3	15	34	27	26	16	4	-	-	17000
OUT OF THE WAY TO PICK UP OTHERS	130	2	7	14	51	31	10	9	6	-	-	14200
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	28	2	-	3	3	5	11	5	-	-	-	...
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	47	2	2	3	15	9	11	3	3	-	-	16200
DOESN'T TRUST OTHERS DRIVING	7	-	-	2	2	1	-	-	2	2	-	...
SOME OTHER REASON	141	7	13	19	41	21	14	13	8	2	3	13700
NOT REPORTED	14	-	-	2	2	4	4	2	-	-	-	...
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	2 143	103	258	292	568	355	236	195	82	34	19	13700

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	7 293	100	168	295	738	1 057	1 131	1 856	1 226	508	213	25800
LESS THAN 1 MILE	506	11	14	27	80	90	84	99	64	26	11	21800
1 TO 4 MILES	1 377	17	51	73	173	219	231	322	197	63	31	23400
5 TO 9 MILES	1 317	9	17	59	152	210	198	346	208	85	30	25300
10 TO 19 MILES	1 657	17	32	64	136	254	259	441	277	117	58	26500
20 TO 29 MILES	707	10	12	12	63	70	123	206	132	60	18	28000
30 TO 49 MILES	470	7	5	6	27	64	75	144	93	38	10	28500
50 MILES OR MORE	161	2	1	2	10	17	23	49	35	13	10	30200
WORKS AT HOME	171	10	13	13	24	19	22	26	14	20	8	21100
NO FIXED PLACE OF WORK	927	15	23	37	72	112	116	223	205	86	37	28900
MEDIAN	9.6	9.5	5.3	6.8	7.2	8.6	9.6	10.8	11.2	12.3	12.0	...
RENTER OCCUPIED	4 101	166	420	528	1 068	734	521	418	163	52	31	14400
LESS THAN 1 MILE	517	29	85	82	123	86	45	38	15	6	8	12500
1 TO 4 MILES	1 059	43	124	165	292	174	126	83	34	7	11	13400
5 TO 9 MILES	762	29	79	94	225	134	86	67	33	12	3	14000
10 TO 19 MILES	905	24	65	117	257	164	128	95	34	16	5	14800
20 TO 29 MILES	294	9	19	23	59	78	44	46	12	3	1	17300
30 TO 49 MILES	135	9	6	9	23	25	31	27	5	-	-	19100
50 MILES OR MORE	33	-	1	1	8	8	7	8	1	-	-	...
WORKS AT HOME	74	5	12	12	18	8	8	3	6	-	2	12300
NO FIXED PLACE OF WORK	321	19	29	25	62	57	46	52	22	7	2	17200
MEDIAN	6.8	4.9	4.4	5.0	6.8	7.8	8.6	9.6	7.7	8.9	...	...
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	7 293	100	168	295	738	1 057	1 131	1 856	1 226	508	213	25800
LESS THAN 15 MINUTES	1 950	24	56	84	255	305	331	451	300	106	39	23800
15 TO 29 MINUTES	2 161	24	38	102	214	353	336	581	345	115	52	25200
30 TO 44 MINUTES	1 106	12	16	43	91	142	187	311	173	85	45	27000
45 TO 59 MINUTES	428	4	15	7	36	62	66	117	72	38	13	27100
1 HOUR TO 1 HOUR AND 29 MINUTES	377	5	4	6	28	44	55	105	80	36	13	29400
1 HOUR AND 30 MINUTES OR MORE	173	4	3	2	18	19	19	43	37	22	6	30000
WORKS AT HOME	171	10	13	13	24	19	22	26	14	20	8	21100
NO FIXED PLACE OF WORK	927	15	23	37	72	112	116	223	205	86	37	28900
MEDIAN	23.0	23.0	19.0	20.6	19.6	21.7	22.4	24.1	23.8	27.3	28.1	...
RENTER OCCUPIED	4 101	166	420	528	1 068	734	521	418	163	52	31	14400
LESS THAN 15 MINUTES	1 192	40	142	193	301	217	147	99	37	3	13	13700
15 TO 29 MINUTES	1 227	56	126	145	349	219	145	115	47	18	6	14100
30 TO 44 MINUTES	587	23	49	67	165	98	78	60	30	16	4	14700
45 TO 59 MINUTES	301	7	21	39	68	60	55	34	10	2	5	16300
1 HOUR TO 1 HOUR AND 29 MINUTES	316	13	35	41	85	55	34	40	9	3	-	14000
1 HOUR AND 30 MINUTES OR MORE	82	3	6	5	21	21	8	14	2	3	-	16500
WORKS AT HOME	74	5	12	12	18	8	8	3	6	-	2	12300
NO FIXED PLACE OF WORK	321	19	29	25	62	57	46	52	22	7	2	17200
MEDIAN	23.1	23.3	20.6	20.4	23.3	23.0	24.0	25.7	24.6	31.9	...	...

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE B-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	8 307	113	439	707	1 306	1 440	1 142	1 438	986	642	95	51300
HOUSE HEATING FUEL												
UTILITY GAS	3 629	66	222	331	618	594	450	622	401	283	42	49700
BOTTLED, TANK, OR LP GAS	55	-	5	5	17	10	6	5	4	2	-	39800
FUEL OIL	3 888	31	164	306	573	710	583	693	480	302	46	52700
KEROSENE, ETC	30	7	7	4	5	5	2	2	-	-	-	...
ELECTRICITY	499	-	14	32	49	89	69	93	93	55	6	59500
COAL OR COKE	81	5	17	14	20	12	5	7	1	-	-	32000
WOOD	121	4	9	14	24	21	26	16	6	1	-	44700
SOLAR HEAT	2	-	-	-	-	-	-	-	1	-	1	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	1	-	-	1	-	-	-	-	-	-	-	...
WATER HEATING FUEL[2]												
UTILITY GAS	4 017	74	254	367	681	647	511	674	458	305	46	49800
BOTTLED, TANK, OR LP GAS	193	2	24	37	48	24	19	24	9	5	-	36900
FUEL OIL	2 269	8	55	115	302	408	352	444	320	230	34	57000
KEROSENE, ETC	3	-	-	-	2	-	1	-	-	-	-	...
ELECTRICITY	1 729	14	88	169	263	353	249	287	193	98	14	49300
COAL OR COKE	19	2	3	6	3	-	2	2	-	-	-	...
WOOD	20	-	-	2	-	7	4	3	3	1	-	...
SOLAR HEAT	6	-	-	-	-	-	1	1	1	2	1	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	10	-	3	3	1	-	1	2	-	-	-	...
COOKING FUEL												
UTILITY GAS	3 494	76	254	320	611	566	466	583	365	219	34	48600
BOTTLED, TANK, OR LP GAS	503	11	58	81	116	79	50	58	32	17	1	38800
FUEL OIL	13	1	-	-	4	4	2	1	2	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	4 284	22	126	305	574	791	623	795	587	403	59	55200
COAL OR COKE	2	2	-	-	-	-	-	-	-	-	-	...
WOOD	8	2	1	2	1	2	1	-	-	1	-	...
OTHER FUEL	3	-	-	-	-	-	-	1	-	2	-	...
NONE	-	-	-	-	-	-	-	-	-	-	-	-
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	8 299	111	439	707	1 306	1 440	1 142	1 436	986	638	95	51300
LESS THAN $10	47	5	13	3	6	10	1	6	2	2	-	33700
$10 TO $19	590	20	81	104	144	92	48	57	33	10	-	36200
$20 TO $29	1 554	29	115	196	322	289	225	200	126	47	4	43900
$30 TO $39	1 738	22	94	166	320	353	239	307	151	74	12	47600
$40 TO $49	1 357	13	44	112	198	257	199	256	171	102	7	52800
$50 TO $59	994	6	57	53	134	158	154	176	153	84	19	55800
$60 TO $79	1 033	7	23	42	116	159	144	214	163	149	16	61800
$80 TO $99	408	7	2	13	40	58	70	103	61	45	8	62000
$100 TO $149	452	2	6	14	21	46	52	95	106	89	21	73600
$150 OR MORE	126	-	4	3	6	18	11	21	19	37	7	74800
MEDIAN	41	30	31	33	35	38	43	45	51	60	66	...
NO ELECTRICITY USED	8	2	-	1	-	-	-	2	-	3	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	5 481	96	352	519	956	888	715	914	594	380	66	49200
LESS THAN $10	503	7	34	48	91	93	68	88	39	27	7	47700
$10 TO $14	402	2	20	41	81	73	60	58	48	16	3	47800
$15 TO $19	320	8	17	45	56	44	50	44	33	21	3	47900
$20 TO $24	361	10	30	50	65	53	39	55	38	17	6	45000
$25 TO $29	249	7	28	26	60	37	36	35	8	7	5	41200
$30 TO $39	640	21	51	81	124	125	83	77	52	21	5	43500
$40 TO $49	750	8	44	70	149	127	120	114	92	26	1	48200
$50 TO $69	1 221	14	79	93	210	213	147	239	135	85	7	50100
$70 TO $99	668	14	30	50	87	78	76	141	95	88	9	59900
$100 OR MORE	366	6	21	15	32	46	36	63	53	72	21	66100
MEDIAN	43	37	39	35	40	41	42	48	48	62	59	...
NO GAS USED	2 826	17	86	189	350	553	426	523	392	262	29	55100
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	4 471	47	203	365	665	791	660	778	557	347	58	52500
LESS THAN $100	180	3	6	8	24	18	36	25	37	18	4	58500
$100 TO $199	160	2	8	10	22	37	24	18	19	15	5	50500
$200 TO $299	149	6	13	13	19	24	31	21	17	4	-	49500
$300 TO $399	215	3	10	25	46	51	26	25	20	9	-	44700
$400 TO $499	304	4	19	46	59	60	41	48	15	10	3	44000
$500 TO $599	334	5	35	43	86	46	41	50	20	7	2	39800
$600 TO $699	391	4	31	38	66	75	51	68	33	20	4	47400
$700 TO $799	366	5	19	32	64	77	52	55	48	14	-	48100
$800 OR MORE	2 373	15	63	149	278	403	358	468	349	250	40	57800
MEDIAN	800+	608	635	697	715	800+	800+	800+	800+	800+	800+	...
FUELS NOT USED OR FREE	3 836	66	235	343	641	650	482	660	429	294	37	49700
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 733	60	250	376	695	623	493	589	367	246	33	47800
HEAT PUMP	56	-	2	2	-	1	-	9	19	22	2	94700
STEAM OR HOT WATER	3 715	24	128	243	495	674	532	712	509	340	57	55500
BUILT-IN ELECTRIC UNITS	370	-	8	25	37	71	59	76	66	25	2	57200
FLOOR, WALL, OR PIPELESS FURNACE	65	5	14	13	14	9	5	2	3	-	-	30700
ROOM HEATERS WITH FLUE	94	16	14	15	14	13	6	12	1	3	-	31800
ROOM HEATERS WITHOUT FLUE	7	-	1	1	4	1	-	-	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	266	8	22	33	45	49	46	37	21	5	-	45100
NONE	1	-	-	1	-	-	-	-	-	-	-	...

[1] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE B-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	8 306	113	439	707	1 306	1 440	1 142	1 438	986	642	95	51300
WITH FIREPLACE OR HEATING STOVE	4 079	22	94	218	406	573	583	849	719	528	87	62500
IN WORKING ORDER	3 866	21	78	200	365	527	555	819	695	520	85	63400
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	3 227	9	50	136	304	422	480	707	597	448	75	64500
ALL PURCHASED	1 049	3	24	46	108	144	149	217	188	140	29	63400
SOME OR NONE PURCHASED	2 142	6	25	86	190	275	327	483	407	303	41	65100
NOT REPORTED	36	-	1	4	5	3	4	7	2	5	5	62700
COAL	48	1	6	6	3	11	6	6	7	2	-	46700
OTHER FUEL	151	11	17	37	22	25	14	9	10	5	1	34800
NONE	431	1	5	21	32	70	55	95	82	62	8	65000
NOT REPORTED	10	-	1	-	4	-	-	2	-	3	1	...
NOT IN WORKING ORDER	205	1	16	16	39	46	27	30	22	7	2	46700
NOT REPORTED	8	-	-	1	2	-	2	-	2	2	-	...
WITHOUT FIREPLACE OR HEATING STOVE	4 210	91	344	488	898	864	558	585	263	113	6	43300
NOT REPORTED	17	-	-	2	2	4	1	3	3	1	2	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	1	-	-	-	-	-	-	-	...
SPECIFIED OWNER OCCUPIED[1]	8 307	113	439	707	1 306	1 440	1 142	1 438	986	642	95	51300
UNITS OCCUPIED LAST WINTER	8 034	110	420	691	1 274	1 408	1 103	1 401	946	594	86	51000
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	7 768	102	399	659	1 228	1 359	1 057	1 364	925	589	86	51300
NO ADDITIONAL HEAT SOURCE USED	7 244	86	367	605	1 134	1 266	994	1 288	876	555	73	51700
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	430	15	29	42	68	76	56	67	41	25	12	48100
NOT REPORTED	93	2	3	12	25	17	7	10	8	9	-	42700
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	266	8	21	33	46	49	45	37	21	5	-	45000
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	7 768	102	399	659	1 228	1 359	1 057	1 364	925	589	86	51300
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 753	61	282	505	1 027	1 194	967	1 226	867	549	75	53200
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	922	41	114	146	178	147	83	123	48	31	11	39000
1 ROOM	427	15	46	50	65	81	47	73	25	20	5	44700
2 ROOMS	224	7	35	48	52	23	12	24	14	8	2	34400
3 ROOMS OR MORE	271	20	34	48	60	44	24	26	8	3	4	35500
NOT REPORTED	92	-	2	8	23	17	7	15	10	10	-	47900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	266	8	21	33	46	49	45	37	21	5	-	45000
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	7 768	102	399	659	1 228	1 359	1 057	1 364	925	589	86	51300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	266	8	21	33	46	49	45	37	21	5	-	45000
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	229	6	16	28	39	44	39	34	21	3	-	46000
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	15	2	4	3	3	-	2	1	-	-	-	...
NOT REPORTED	22	1	2	2	3	6	4	2	1	2	-	...
SPECIFIED OWNER OCCUPIED[1]	8 307	113	439	707	1 306	1 440	1 142	1 438	986	642	95	51300
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	267	8	22	34	45	49	46	37	21	5	-	45000
WITH SELECTED HEATING EQUIPMENT[3]	8 040	105	417	674	1 261	1 392	1 096	1 401	964	637	95	51600
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 183	101	396	615	1 132	1 273	952	1 244	836	558	76	50800
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	843	3	21	57	125	117	143	155	125	78	18	56800
SOLAR HEATING EQUIPMENT	5	-	-	-	1	-	1	1	-	3	-	...
STOVE, BURNING WOOD OR COAL	350	1	6	32	57	55	62	61	46	25	7	54000
FIREPLACE, BURNING WOOD OR COAL	81	-	4	-	6	6	11	21	23	10	-	69400
PORTABLE ELECTRIC HEATER	281	3	5	17	42	40	40	51	42	34	7	58500
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	84	1	3	4	11	14	17	10	9	9	3	54400
OTHER	76	-	4	5	11	8	18	17	11	3	1	56000
NOT REPORTED	14	-	-	2	4	2	1	2	3	1	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	8 158	101	419	687	1 292	1 419	1 128	1 417	969	633	92	51400
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	28	-	4	2	1	4	2	6	5	3	2	...
NOT REPORTED	63	-	2	7	6	16	8	11	10	3	-	51200
AIR CONDITIONING												
WITH AIR CONDITIONING	4 300	32	145	253	538	694	651	825	636	454	72	57500
ROOM UNITS	3 479	32	135	245	492	606	565	666	447	252	41	54100
1	1 844	24	80	153	303	356	316	311	185	99	16	50200
2	1 041	8	41	79	144	184	155	212	143	71	4	54200
3	372	-	12	7	41	44	64	87	68	40	9	63100
4	156	-	2	3	3	18	24	41	38	19	8	70000
5 OR MORE	65	-	-	3	-	4	5	14	13	23	4	88900
CENTRAL SYSTEM	821	-	11	9	46	87	86	159	189	203	31	76600
WITH NO AIR CONDITIONING	4 007	82	293	454	768	747	491	613	349	187	23	45400

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	821	-	11	9	46	87	86	159	189	203	31	76600
WITH SUPPLEMENTAL EQUIPMENT USED	416	-	4	3	26	42	34	81	109	104	13	79200
INDIVIDUAL ROOM AIR CONDITIONING UNIT	32	-	-	1	-	6	2	7	3	11	2	...
AWNINGS	74	-	-	-	18	11	9	8	14	9	5	59100
DEHUMIDIFIER	133	-	-	1	5	14	12	27	36	33	4	80000
CEILING FAN	20	-	-	-	4	3	2	2	6	2	2	...
ATTIC FAN	203	-	-	1	8	10	12	47	62	57	7	84800
WINDOW FAN	29	-	2	-	4	4	-	8	4	8	-	...
PORTABLE FAN	89	-	4	2	8	12	6	13	24	20	2	75600
WITH NO SUPPLEMENTAL EQUIPMENT USED	359	-	5	5	15	37	43	72	71	94	18	75800
NOT REPORTED	46	-	2	-	6	8	9	7	9	5	-	57900
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 486	113	428	699	1 260	1 353	1 055	1 278	796	439	64	49200
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	6 963	64	285	521	1 068	1 264	991	1 272	877	554	67	52800
SOME WINDOWS COVERED	1 026	31	105	153	188	131	113	133	88	69	15	42700
NO WINDOWS COVERED	300	18	49	33	47	43	37	27	18	15	12	40600
NOT REPORTED	18	1	-	-	3	3	1	5	2	4	-	...
STORM DOORS												
ALL DOORS COVERED	6 658	64	293	573	1 098	1 201	965	1 198	782	438	46	51000
SOME DOORS COVERED	1 095	30	91	92	140	177	117	162	141	118	27	51500
NO DOORS COVERED	536	19	55	43	64	60	59	72	59	83	22	54500
NOT REPORTED	18	1	-	-	3	3	1	5	3	3	-	...
ATTIC OR ROOF INSULATION												
YES	7 072	49	277	510	1 076	1 236	1 027	1 308	911	592	86	53800
NO	953	50	140	155	174	171	85	97	46	30	5	37600
DON'T KNOW	262	13	21	41	55	31	29	26	24	17	4	40000
NOT REPORTED	20	1	-	1	2	3	1	7	3	3	-	...
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	300	18	49	33	47	43	37	27	18	15	12	40600
SOME OR ALL WINDOWS COVERED	7 989	94	390	674	1 256	1 395	1 104	1 405	965	623	82	51700
NONE INSTALLED	7 186	82	349	595	1 142	1 266	991	1 272	869	550	69	51600
SOME OR ALL INSTALLED	788	12	41	79	114	128	113	124	93	72	13	51800
NOT REPORTED	15	-	-	-	-	2	-	9	3	1	-	...
NOT REPORTED	18	1	-	-	3	3	1	5	2	4	-	...
STORM DOORS:												
NO DOORS COVERED	536	19	55	43	64	60	59	72	59	83	22	54500
SOME OR ALL DOORS COVERED	7 753	94	384	664	1 238	1 378	1 082	1 360	924	557	73	51100
NONE INSTALLED	7 273	89	364	627	1 163	1 309	1 003	1 264	868	522	65	50900
SOME OR ALL INSTALLED	447	4	18	34	72	65	77	87	52	31	8	53900
NOT REPORTED	32	-	2	4	3	5	2	9	4	3	-	...
NOT REPORTED	18	1	-	-	3	3	1	5	3	3	-	...
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	953	50	140	155	174	171	85	97	46	30	5	37600
WITH ATTIC OR ROOF INSULATION	7 072	49	277	510	1 076	1 236	1 027	1 308	911	592	86	53800
NONE ADDED OR INSTALLED	6 293	40	246	458	967	1 120	893	1 169	818	502	81	53500
SOME OR ALL ADDED OR INSTALLED	747	8	31	49	105	115	130	131	88	86	3	55000
NOT REPORTED	32	1	1	3	4	1	4	8	5	3	2	...
DON'T KNOW	262	13	21	41	55	31	29	26	24	17	4	40000
NOT REPORTED	20	1	-	1	2	3	1	7	3	3	-	...
WALL INSULATION:												
NONE ADDED OR INSTALLED	7 569	103	398	632	1 191	1 344	1 025	1 297	908	587	84	51100
SOME OR ALL ADDED OR INSTALLED	698	9	41	74	109	91	113	130	71	53	7	52200
NOT REPORTED	40	1	-	2	6	5	3	10	7	3	4	64400
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	6 096	89	349	533	989	1 102	771	1 014	711	465	73	49900
SOME OR ALL ADDED OR INSTALLED	2 175	23	89	172	315	333	368	414	268	174	18	54200
NOT REPORTED	35	1	-	2	2	5	3	9	7	3	4	67100
OTHER INSULATION:												
NONE ADDED OR INSTALLED	7 391	108	408	633	1 184	1 294	1 021	1 264	852	548	78	50700
SOME OR ALL ADDED OR INSTALLED	879	4	31	72	120	139	118	164	127	92	13	56200
NOT REPORTED	37	1	-	2	2	7	3	9	7	3	4	66300
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	4 993	77	299	440	807	911	641	822	579	366	51	49600
WITH INSULATION ADDED OR INSTALLED	3 216	33	134	261	488	517	493	590	393	266	40	53500
LESS THAN $50	1 318	21	63	126	216	231	194	231	148	84	4	50100
$50 TO $99	322	6	17	22	44	55	48	65	41	20	5	53600
$100 TO $249	497	4	9	43	72	80	77	89	71	44	7	55100
$250 TO $499	405	1	17	25	63	52	70	74	58	42	4	56500
$500 TO $999	232	-	12	18	25	42	40	39	21	27	7	54500
$1,000 OR MORE	248	2	9	18	44	23	36	52	30	28	7	57900
DON'T KNOW	131	-	2	8	12	19	14	30	19	21	5	64800
NOT REPORTED	63	-	6	-	11	15	13	12	6	1	-	50000
MEDIAN	79	...	51	50-	68	60	90	83	94	163	...	...
NOT REPORTED OR DON'T KNOW	97	3	5	7	10	13	9	25	14	9	4	61700

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE B-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	221	5	17	17	42	33	16	31	32	23	4	48900
LESS THAN $50	84	5	9	13	20	16	3	4	9	6	-	37600
$50 TO $99	9	-	2	-	2	2	2	1	1	-	-	...
$100 TO $249	35	-	-	3	5	1	6	7	5	6	2	...
$250 TO $499	30	-	2	-	6	2	1	9	7	1	3	...
$500 TO $999	19	-	2	-	3	3	3	2	3	4	-	...
$1,000 OR MORE	22	-	2	-	5	3	2	5	2	3	-	...
DON'T KNOW	11	-	-	1	1	2	-	2	4	2	-	...
NOT REPORTED	11	-	1	-	1	5	1	1	2	1	-	...
MEDIAN	125	...	...	...	62	...	...	...	...	...	...	...
ONLY INSTALLED STORM DOORS	111	1	4	11	15	20	25	17	10	6	4	52000
LESS THAN $50	8	-	1	2	-	2	1	2	1	-	-	...
$50 TO $99	20	-	1	2	-	3	3	6	2	2	2	...
$100 TO $249	49	1	2	4	10	11	9	4	6	2	-	46800
$250 TO $499	16	-	-	2	3	2	4	3	2	2	-	...
$500 TO $999	5	-	-	2	-	-	3	-	-	-	-	...
$1,000 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
DON'T KNOW	3	-	1	-	-	-	1	-	-	-	2	...
NOT REPORTED	10	-	-	-	2	1	4	3	-	-	-	...
MEDIAN	165	...	...	...	...	...	...	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	282	3	7	33	49	53	35	43	28	26	5	49300
LESS THAN $50	34	2	-	9	6	3	3	3	7	1	-	...
$50 TO $99	31	-	2	2	5	9	4	8	2	-	-	...
$100 TO $249	93	2	1	9	11	23	8	15	13	9	-	49800
$250 TO $499	38	-	-	4	6	5	7	6	2	8	-	55400
$500 TO $999	31	-	2	4	-	5	8	3	3	4	2	...
$1,000 OR MORE	31	-	2	2	10	3	2	5	2	2	3	...
DON'T KNOW	12	-	-	2	5	1	1	2	-	2	-	...
NOT REPORTED	12	-	-	-	5	4	2	1	-	-	-	...
MEDIAN	202	...	...	...	205	179	...	194	...	...	...	...

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE B-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]	6 728	407	593	1 069	1 247	1 212	817	504	374	269	239	246
HOUSE HEATING FUEL												
UTILITY GAS	2 525	152	271	501	486	441	266	164	89	81	75	230
BOTTLED, TANK, OR LP GAS	38	1	5	10	5	5	5	3	2	2	2	232
FUEL OIL	3 542	193	263	492	675	672	450	276	235	151	134	256
KEROSENE, ETC	28	3	5	8	6	2	1	-	-	-	3	...
ELECTRICITY	524	50	40	41	70	84	89	59	48	29	13	281
COAL OR COKE	29	2	4	9	3	2	2	-	-	-	6	...
WOOD	25	3	5	5	1	4	1	-	-	1	6	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	2	-	3	-	-	2	2	-	5	-	...
NONE	5	2	-	-	-	2	2	-	-	-	-	...
WATER HEATING FUEL[2]												
UTILITY GAS	2 793	148	279	515	513	494	352	205	120	85	82	239
BOTTLED, TANK, OR LP GAS	77	2	13	15	11	12	6	9	2	2	5	230
FUEL OIL	2 837	161	215	409	555	530	339	215	185	147	81	253
KEROSENE, ETC	1	-	-	-	-	-	-	-	-	-	1	-
ELECTRICITY	905	74	65	108	156	167	114	72	63	32	53	256
COAL OR COKE	14	-	1	6	-	2	2	-	-	-	3	...
WOOD	2	-	-	-	-	-	-	1	-	-	1	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	15	-	2	2	2	3	3	1	2	2	-	...
NONE	26	11	8	3	1	-	-	-	-	-	3	...
COOKING FUEL												
UTILITY GAS	4 671	246	446	802	913	854	562	335	219	182	112	242
BOTTLED, TANK, OR LP GAS	204	6	19	35	43	39	15	15	5	9	18	237
FUEL OIL	37	3	2	4	16	4	5	2	2	-	-	230
KEROSENE, ETC	3	2	1	-	1	-	-	-	-	-	-	...
ELECTRICITY	1 740	122	107	213	272	312	234	152	148	76	103	266
COAL OR COKE	1	-	-	1	-	-	-	-	-	-	-	...
WOOD	1	-	-	-	-	-	-	-	-	-	1	-
OTHER FUEL	7	2	2	-	-	2	2	-	-	-	-	...
NONE	65	26	16	15	2	2	-	-	-	2	3	114
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	5 151	109	315	758	1 030	1 051	731	453	328	239	137	264
LESS THAN $10	217	20	33	57	47	39	13	5	2	-	1	197
$10 TO $19	1 452	55	150	302	325	277	178	72	40	19	34	230
$20 TO $29	1 548	20	65	240	386	355	230	110	71	39	33	257
$30 TO $39	916	6	43	111	159	187	141	115	69	49	35	282
$40 TO $49	452	7	14	28	62	95	87	65	41	37	15	307
$50 TO $59	238	2	5	15	26	43	41	33	38	26	9	329
$60 TO $79	202	-	4	5	18	36	31	32	31	39	7	356
$80 TO $99	39	-	-	-	4	8	8	10	5	4	-	347
$100 TO $149	60	-	-	1	2	8	4	8	22	12	2	424
$150 OR MORE	27	-	-	1	-	2	-	3	8	13	-	...
MEDIAN	25	16	17	21	23	25	27	33	37	43	30	...
INCLUDED IN RENT	1 567	296	275	309	217	159	84	51	46	29	102	176
NO ELECTRICITY USED	11	2	3	2	-	2	2	-	-	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	3 524	56	256	620	785	700	461	271	157	130	89	250
LESS THAN $10	1 138	34	88	218	266	222	143	75	36	36	19	240
$10 TO $14	594	9	41	82	165	123	73	37	27	23	13	247
$15 TO $19	356	-	25	47	81	88	47	26	23	9	10	261
$20 TO $24	291	3	21	51	48	54	42	36	16	11	9	266
$25 TO $29	180	2	21	42	29	38	28	4	3	5	6	236
$30 TO $39	252	2	27	53	51	43	32	18	15	9	3	242
$40 TO $49	223	5	26	48	46	32	20	17	10	6	12	229
$50 TO $69	271	-	7	68	55	45	38	29	9	13	6	252
$70 TO $99	145	-	-	10	31	38	19	20	11	10	6	286
$100 OR MORE	74	-	-	1	11	19	18	10	6	6	3	314
MEDIAN	15	10-	14	16	13	15	16	19	18	18	21	...
INCLUDED IN RENT	2 255	270	275	346	304	347	230	147	149	90	98	230
NO GAS USED	949	82	62	103	159	164	126	86	67	48	52	263
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	793	14	35	96	107	152	106	83	77	58	65	286
LESS THAN $100	85	6	5	17	18	6	11	8	7	3	4	234
$100 TO $199	60	2	5	13	3	10	4	4	3	7	9	262
$200 TO $299	39	1	5	11	9	4	-	-	3	-	5	...
$300 TO $399	58	1	5	10	9	9	5	10	1	-	7	250
$400 TO $499	64	2	7	9	13	16	5	6	5	-	2	254
$500 TO $599	53	-	5	11	8	15	6	-	6	-	3	256
$600 TO $699	68	2	-	9	14	21	7	2	2	7	3	267
$700 TO $799	80	-	1	4	11	15	13	14	6	5	11	310
$800 OR MORE	287	-	3	11	22	56	55	39	44	35	21	336
MEDIAN	655	...	...	365	510	679	800+	780	800+	800+	659	...
INCLUDED IN RENT	3 491	243	298	532	677	660	422	264	186	128	81	246
FUELS NOT USED OR FREE	2 444	151	260	441	462	400	289	157	111	82	92	234
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 492	64	116	230	274	244	175	135	105	62	88	254
HEAT PUMP	18	-	-	2	-	6	5	3	2	1	-	...
STEAM OR HOT WATER	4 254	269	350	611	812	834	541	311	227	182	117	252
BUILT-IN ELECTRIC UNITS	450	49	36	38	65	70	79	50	35	19	9	273
FLOOR, WALL, OR PIPELESS FURNACE	48	1	4	12	11	9	1	2	3	2	5	225
ROOM HEATERS WITH FLUE	348	16	69	138	64	39	10	2	1	2	9	180
ROOM HEATERS WITHOUT FLUE	38	2	8	15	8	4	2	-	-	-	-	181
FIREPLACES, STOVES, OR PORTABLE HEATERS	75	6	10	25	13	5	3	1	1	1	11	182
NONE	5	2	-	-	-	2	2	-	-	-	-	...

[1] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE B-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	6 724	406	593	1 069	1 247	1 210	815	504	374	269	239	246
WITH FIREPLACE OR HEATING STOVE	665	18	56	134	100	109	62	37	32	54	62	245
IN WORKING ORDER	524	17	51	113	75	71	44	29	24	44	56	235
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	210	3	7	22	12	25	23	24	17	34	41	331
ALL PURCHASED	76	2	4	7	5	8	7	7	5	16	15	332
SOME OR NONE PURCHASED	124	1	3	15	7	17	16	13	12	15	25	320
NOT REPORTED	9	-	-	-	-	1	-	3	1	3	2	...
COAL	7	4	2	2	-	-	-	-	-	-	-	...
OTHER FUEL	249	10	38	88	57	33	12	-	-	4	7	191
NONE	54	-	4	2	6	13	7	5	5	5	8	294
NOT REPORTED	4	-	-	-	-	-	2	-	2	1	-	...
NOT IN WORKING ORDER	132	2	5	21	24	34	15	7	8	10	6	266
NOT REPORTED	10	-	-	-	1	3	3	2	1	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	6 041	387	537	935	1 138	1 095	753	465	341	215	175	246
NOT REPORTED	18	-	-	-	8	7	-	2	-	-	2	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	2	-	-	-	2	2	-	-	-	-	...
SPECIFIED RENTER OCCUPIED[1]	6 728	407	593	1 069	1 247	1 212	817	504	374	269	239	246
UNITS OCCUPIED LAST WINTER	5 436	371	513	929	982	988	602	379	268	196	208	240
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	5 346	364	500	897	966	979	600	379	267	195	200	241
NO ADDITIONAL HEAT SOURCE USED	4 287	309	403	719	735	775	481	297	223	174	171	242
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	983	49	93	162	212	192	115	76	39	20	24	240
NOT REPORTED	76	6	4	16	18	12	3	6	5	2	5	228
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	90	7	14	33	16	9	2	-	1	1	8	180
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	5 346	364	500	897	966	979	600	379	267	195	200	241
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 666	335	414	722	813	874	559	352	249	183	165	247
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	608	24	82	166	134	93	34	20	13	10	30	206
1 ROOM	248	13	29	50	55	48	19	13	7	8	6	226
2 ROOMS	152	5	25	37	39	20	9	5	5	2	6	208
3 ROOMS OR MORE	208	6	28	80	39	26	6	3	2	1	19	188
NOT REPORTED	73	6	4	8	19	12	6	6	5	2	5	242
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	90	7	14	33	16	9	2	-	1	1	8	180
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	5 346	364	500	897	966	979	600	379	267	195	200	241
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	90	7	14	33	16	9	2	-	1	1	8	180
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	58	6	9	26	4	5	-	-	1	1	7	171
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	23	2	-	5	11	3	1	-	-	-	2	...
NOT REPORTED	10	-	5	2	2	-	2	-	-	-	-	...
SPECIFIED RENTER OCCUPIED[1]	6 728	407	593	1 069	1 247	1 212	817	504	374	269	239	246
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	80	7	10	25	13	7	5	1	1	1	11	184
WITH SELECTED HEATING EQUIPMENT[3]	6 649	400	582	1 044	1 234	1 204	812	503	373	268	227	247
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 165	389	535	966	1 117	1 127	752	467	355	246	212	248
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	462	9	48	77	113	73	54	35	17	20	15	239
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	16	-	-	2	5	2	1	-	-	4	2	...
FIREPLACE, BURNING WOOD OR COAL	6	-	-	-	-	-	-	3	-	-	3	...
PORTABLE ELECTRIC HEATER	404	7	48	73	91	68	50	30	16	14	7	238
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	18	-	-	2	8	1	3	-	1	2	2	...
OTHER	21	2	-	1	9	2	2	2	2	1	2	...
NOT REPORTED	22	2	-	2	5	5	6	2	-	2	-	...
AIR CONDITIONING												
WITH AIR CONDITIONING	2 567	67	120	203	389	534	432	297	249	201	77	293
ROOM UNITS	2 214	64	115	198	370	487	365	246	174	127	69	283
1	1 512	56	89	157	298	368	251	136	78	42	36	268
2	570	6	23	37	59	110	101	95	77	42	21	320
3	96	2	-	2	7	8	10	14	19	33	3	427
4	21	-	3	1	5	-	3	2	-	3	4	...
5 OR MORE	15	-	-	2	2	-	-	-	-	7	5	...
CENTRAL SYSTEM	353	3	5	5	19	47	67	51	74	74	8	376
WITH NO AIR CONDITIONING	4 161	340	473	866	858	678	385	207	125	68	162	218

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE B-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	353	3	5	5	19	47	67	51	74	74	8	376
WITH SUPPLEMENTAL EQUIPMENT USED	73	-	5	1	2	11	17	7	16	13	2	355
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	-	3	-	-	5	3	3	9	3	-	...
AWNINGS	-	-	-	-	-	-	-	-	-	-	-	-
DEHUMIDIFIER	2	-	-	-	-	-	-	-	2	-	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	2	-	-	-	-	-	-	-	-	-	2	-
WINDOW FAN	6	-	-	-	2	2	3	-	-	-	-	...
PORTABLE FAN	38	-	2	1	-	4	10	4	6	12	-	373
WITH NO SUPPLEMENTAL EQUIPMENT USED	263	3	-	3	16	30	47	43	55	59	6	383
NOT REPORTED	17	-	-	-	2	7	3	1	3	2	-	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 376	404	588	1 064	1 228	1 164	750	453	299	194	231	241
SPECIFIED RENTER OCCUPIED[1]	6 728	407	593	1 069	1 247	1 212	817	504	374	269	239	246
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	940	33	98	133	130	130	92	81	66	68	108	258
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	558	14	50	70	78	75	51	51	49	52	67	272
SOME WINDOWS COVERED	175	7	12	34	27	21	15	14	11	13	21	243
NO WINDOWS COVERED	155	6	28	24	22	27	16	11	1	4	17	224
NOT REPORTED	52	6	8	5	2	7	10	5	5	-	3	268
STORM DOORS												
ALL DOORS COVERED	530	16	60	64	66	67	49	59	38	45	67	269
SOME DOORS COVERED	142	-	11	21	25	27	11	4	11	9	24	254
NO DOORS COVERED	217	10	19	43	37	30	22	14	13	14	14	239
NOT REPORTED	50	6	8	5	2	6	10	5	5	-	3	266
ATTIC OR ROOF INSULATION												
YES	464	13	39	49	63	53	51	46	44	38	67	281
NO	219	5	32	47	40	36	5	14	7	10	25	216
DON'T KNOW	207	9	18	34	25	35	28	17	11	19	12	266
NOT REPORTED	50	6	8	3	2	6	10	5	5	2	4	276

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	17 264	9 861	3 509	905	657	1 996	335
HOUSE HEATING FUEL							
OWNER OCCUPIED	10 480	8 921	1 042	56	19	161	280
UTILITY GAS	4 392	3 793	494	19	9	20	57
BOTTLED, TANK, OR LP GAS	86	67	2	-	-	-	18
FUEL OIL	4 997	4 201	478	28	9	137	145
KEROSENE, ETC	85	34	2	-	-	-	49
ELECTRICITY	641	556	63	9	2	4	6
COAL OR COKE	105	103	2	-	-	-	-
WOOD	170	163	3	-	-	-	5
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-
NONE	1	1	-	-	-	-	-
RENTER OCCUPIED	6 784	940	2 467	849	638	1 835	55
UTILITY GAS	2 536	409	1 193	326	209	388	10
BOTTLED, TANK, OR LP GAS	40	15	14	3	-	3	4
FUEL OIL	3 574	412	1 105	431	331	1 267	28
KEROSENE, ETC	29	10	8	2	2	-	8
ELECTRICITY	528	56	130	85	94	160	4
COAL OR COKE	30	18	9	-	-	3	-
WOOD	29	20	7	2	-	-	1
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	13	-	-	-	3	10	-
NONE	5	-	2	-	-	3	-
WATER HEATING FUEL[1]							
OWNER OCCUPIED	10 409	8 852	1 041	56	19	161	279
UTILITY GAS	4 850	4 150	607	24	5	34	29
BOTTLED, TANK, OR LP GAS	258	233	10	-	-	-	15
FUEL OIL	2 876	2 412	312	18	9	119	6
KEROSENE, ETC	14	3	-	-	-	-	11
ELECTRICITY	2 331	1 977	110	14	6	8	216
COAL OR COKE	27	26	-	-	-	-	1
WOOD	36	34	2	-	-	-	-
SOLAR HEAT	6	6	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-
NONE	11	10	-	-	-	-	1
RENTER OCCUPIED	6 721	916	2 446	845	632	1 829	53
UTILITY GAS	2 801	447	1 412	367	203	367	4
BOTTLED, TANK, OR LP GAS	85	50	28	-	-	2	5
FUEL OIL	2 848	196	724	342	297	1 285	4
KEROSENE, ETC	1	1	-	-	-	-	-
ELECTRICITY	928	213	270	126	123	155	41
COAL OR COKE	14	5	3	-	3	3	-
WOOD	2	1	1	-	-	-	-
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	15	-	1	-	3	11	-
NONE	27	3	8	10	2	5	-
COOKING FUEL							
OWNER OCCUPIED	10 480	8 921	1 042	56	19	161	280
UTILITY GAS	4 556	3 597	726	33	10	141	49
BOTTLED, TANK, OR LP GAS	805	617	19	-	-	-	169
FUEL OIL	25	15	8	-	-	2	1
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	5 059	4 657	291	23	9	18	61
COAL OR COKE	5	5	-	-	-	-	-
WOOD	28	28	-	-	-	-	-
OTHER FUEL	3	3	-	-	-	-	-
NONE	-	-	-	-	-	-	-
RENTER OCCUPIED	6 784	940	2 467	849	638	1 835	55
UTILITY GAS	4 678	450	1 814	576	389	1 441	9
BOTTLED, TANK, OR LP GAS	223	101	76	11	2	-	33
FUEL OIL	37	2	5	9	5	16	-
KEROSENE, ETC	3	-	1	2	-	-	1
ELECTRICITY	1 769	385	561	234	228	349	12
COAL OR COKE	1	1	-	-	-	-	-
WOOD	1	1	-	-	-	-	-
OTHER FUEL	7	-	3	-	-	3	-
NONE	65	2	8	16	14	26	-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	8 307	8 307	...	...	...	...	...
ELECTRICITY PAID FOR	8 299	8 299	...	...	...	...	...
LESS THAN $10	47	47	...	...	...	...	...
$10 TO $19	590	590	...	...	...	...	...
$20 TO $29	1 554	1 554	...	...	...	...	...
$30 TO $39	1 738	1 738	...	...	...	...	...
$40 TO $49	1 357	1 357	...	...	...	...	...
$50 TO $59	994	994	...	...	...	...	...
$60 TO $79	1 033	1 033	...	...	...	...	...
$80 TO $99	408	408	...	...	...	...	...
$100 TO $149	452	452	...	...	...	...	...
$150 OR MORE	126	126	...	...	...	...	...
MEDIAN	41	41	...	...	...	...	...
NO ELECTRICITY USED	8	8	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 728	885	2 467	849	638	1 835	55
ELECTRICITY PAID FOR	5 151	756	2 060	621	477	1 187	49
LESS THAN $10	217	16	83	46	34	35	3
$10 TO $19	1 452	140	619	212	150	320	10
$20 TO $29	1 548	194	611	188	139	402	14
$30 TO $39	916	171	344	84	74	230	12
$40 TO $49	452	84	193	41	41	90	4
$50 TO $59	238	57	91	24	18	43	4
$60 TO $79	202	54	68	18	11	51	1
$80 TO $99	39	15	17	-	3	3	-
$100 TO $149	60	16	25	7	3	7	1
$150 OR MORE	27	8	9	-	5	5	-
MEDIAN	25	31	25	22	24	25	27
INCLUDED IN RENT	1 567	128	400	227	161	645	6
NO ELECTRICITY USED	11	1	6	-	-	3	-
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	8 307	8 307	...	...	...	...	...
GAS PAID FOR	5 481	5 481	...	...	...	...	...
LESS THAN $10	503	503	...	...	...	...	...
$10 TO $14	402	402	...	...	...	...	...
$15 TO $19	320	320	...	...	...	...	...
$20 TO $24	361	361	...	...	...	...	...
$25 TO $29	249	249	...	...	...	...	...
$30 TO $39	640	640	...	...	...	...	...
$40 TO $49	750	750	...	...	...	...	...
$50 TO $69	1 221	1 221	...	...	...	...	...
$70 TO $99	668	668	...	...	...	...	...
$100 OR MORE	366	366	...	...	...	...	...
MEDIAN	43	43	...	...	...	...	...
NO GAS USED	2 826	2 826	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 728	885	2 467	849	638	1 835	55
GAS PAID FOR	3 524	525	1 604	390	222	744	41
LESS THAN $10	1 138	71	379	142	123	406	16
$10 TO $14	594	40	210	90	48	201	5
$15 TO $19	356	44	190	36	17	65	4
$20 TO $24	291	47	173	26	11	28	5
$25 TO $29	180	35	100	27	5	12	1
$30 TO $39	252	60	140	22	6	22	3
$40 TO $49	223	86	107	15	3	8	4
$50 TO $69	271	73	169	20	6	2	2
$70 TO $99	145	47	85	9	3	-	-
$100 OR MORE	74	21	51	2	-	-	-
MEDIAN	15	34	21	12	10-	10-	13
INCLUDED IN RENT	2 255	173	576	319	292	886	9
NO GAS USED	949	187	286	140	124	206	5

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	8 307	8 307	...	...	...	...	...
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	4 471	4 471	...	...	...	...	...
LESS THAN $100	180	180	...	...	...	...	...
$100 TO $199	160	160	...	...	...	...	...
$200 TO $299	149	149	...	...	...	...	...
$300 TO $399	215	215	...	...	...	...	...
$400 TO $499	304	304	...	...	...	...	...
$500 TO $599	334	334	...	...	...	...	...
$600 TO $699	391	391	...	...	...	...	...
$700 TO $799	366	366	...	...	...	...	...
$800 OR MORE	2 373	2 373	...	...	...	...	...
MEDIAN	800+	800+	...	...	...	...	...
FUELS NOT USED OR FREE	3 836	3 836	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 728	885	2 467	849	638	1 835	55
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	793	340	311	23	15	74	31
LESS THAN $100	85	15	14	5	11	40	-
$100 TO $199	60	20	8	3	3	24	1
$200 TO $299	39	14	18	2	-	2	4
$300 TO $399	58	25	20	3	-	2	7
$400 TO $499	64	32	22	3	-	2	5
$500 TO $599	53	22	24	2	-	-	6
$600 TO $699	68	36	28	2	-	2	1
$700 TO $799	80	45	30	-	-	-	4
$800 OR MORE	287	129	148	3	-	3	4
MEDIAN	655	709	774	...	...	100-	...
INCLUDED IN RENT	3 491	165	1 091	480	373	1 378	5
FUELS NOT USED OR FREE	2 444	380	1 065	346	251	383	19
ALL OCCUPIED HOUSING UNITS	17 264	9 861	3 509	905	657	1 996	335
HEATING EQUIPMENT							
OWNER OCCUPIED	10 480	8 921	1 042	56	19	161	280
WARM-AIR FURNACE	4 533	3 978	246	20	3	36	250
HEAT PUMP	69	68	2	-	-	-	-
STEAM OR HOT WATER	4 775	3 926	682	25	14	117	12
BUILT-IN ELECTRIC UNITS	483	408	55	9	2	4	4
FLOOR, WALL, OR PIPELESS FURNACE	79	72	3	-	-	-	4
ROOM HEATERS WITH FLUE	162	115	41	2	-	4	1
ROOM HEATERS WITHOUT FLUE	13	9	3	-	-	-	-
FIREPLACES, STOVES, OR PORTABLE HEATERS	364	344	11	-	-	-	9
NONE	1	1	-	-	-	-	-
RENTER OCCUPIED	6 784	940	2 467	849	638	1 835	55
WARM-AIR FURNACE	1 517	439	606	136	103	183	50
HEAT PUMP	18	1	2	2	6	6	-
STEAM OR HOT WATER	4 266	336	1 445	572	429	1 485	-
BUILT-IN ELECTRIC UNITS	454	41	116	81	80	135	1
FLOOR, WALL, OR PIPELESS FURNACE	48	27	17	-	-	2	2
ROOM HEATERS WITH FLUE	353	49	223	41	18	21	-
ROOM HEATERS WITHOUT FLUE	38	6	26	6	-	-	-
FIREPLACES, STOVES, OR PORTABLE HEATERS	85	41	29	11	2	-	1
NONE	5	-	2	-	-	3	-
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	10 480	8 921	1 042	56	19	161	280
HOUSING UNITS WITH HEATING EQUIPMENT	10 479	8 920	1 042	56	19	161	280
WITH FIREPLACE OR HEATING STOVE	4 730	4 489	171	6	3	14	47
IN WORKING ORDER	4 479	4 261	150	6	3	12	46
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	3 716	3 573	90	3	-	9	40
ALL PURCHASED	1 168	1 116	27	3	-	9	12
SOME OR NONE PURCHASED	2 510	2 419	63	-	-	-	28
NOT REPORTED	38	38	-	-	-	-	-
COAL	63	58	4	-	-	-	2
OTHER FUEL	214	171	38	-	-	2	4
NONE	475	449	18	3	3	2	-
NOT REPORTED	11	11	-	-	-	-	-
NOT IN WORKING ORDER	239	219	19	-	-	-	1
NOT REPORTED	12	8	2	-	-	2	-
WITHOUT FIREPLACE OR HEATING STOVE	5 727	4 414	868	50	16	146	233
NOT REPORTED	22	17	4	-	-	2	-
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	1	-	-	-	-	-

[1] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES--CONTINUED							
RENTER OCCUPIED	6 784	940	2 467	849	638	1 835	55
HOUSING UNITS WITH HEATING EQUIPMENT	6 779	940	2 465	849	638	1 832	55
WITH FIREPLACE OR HEATING STOVE	697	260	301	73	39	21	2
IN WORKING ORDER	552	223	238	43	31	16	2
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	233	169	42	7	10	2	2
ALL PURCHASED	79	54	18	-	5	2	1
SOME OR NONE PURCHASED	144	107	23	7	5	-	1
NOT REPORTED	9	9	1	-	-	-	-
COAL	9	5	5	-	-	-	-
OTHER FUEL	252	26	170	29	16	11	-
NONE	54	20	19	7	5	3	-
NOT REPORTED	4	2	2	-	-	-	-
NOT IN WORKING ORDER	135	36	59	29	7	5	-
NOT REPORTED	10	2	5	2	2	-	-
WITHOUT FIREPLACE OR HEATING STOVE	6 064	680	2 155	772	597	1 806	53
NOT REPORTED	18	-	8	3	2	5	-
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	2	-	-	3	-
ALL OCCUPIED HOUSING UNITS	17 264	9 861	3 509	905	657	1 996	335
UNITS OCCUPIED LAST WINTER	15 582	9 372	2 960	716	494	1 743	297
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	10 102	8 629	993	49	14	154	262
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	8 284	979	49	14	154	253
NO ADDITIONAL HEAT SOURCE USED	9 054	7 721	913	46	14	125	235
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	550	458	51	3	-	26	11
NOT REPORTED	129	105	15	-	-	3	6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	346	14	-	-	-	9
RENTER OCCUPIED	5 480	743	1 967	667	480	1 589	35
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	706	1 923	655	478	1 586	34
NO ADDITIONAL HEAT SOURCE USED	4 319	587	1 604	503	381	1 213	31
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	985	106	296	143	92	346	2
NOT REPORTED	78	13	23	10	6	26	-
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	37	43	11	2	3	1
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	10 102	8 629	993	49	14	154	262
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	8 284	979	49	14	154	253
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 411	7 114	848	48	14	145	243
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 200	1 069	118	2	-	7	5
1 ROOM	525	460	52	2	-	7	4
2 ROOMS	304	267	35	-	-	-	1
3 ROOMS OR MORE	372	341	31	-	-	-	-
NOT REPORTED	121	101	13	-	-	2	5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	346	14	-	-	-	9
RENTER OCCUPIED	5 480	743	1 967	667	480	1 589	35
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	706	1 923	655	478	1 586	34
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 689	551	1 570	579	440	1 519	31
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	619	142	324	67	31	51	3
1 ROOM	252	52	114	27	20	38	1
2 ROOMS	155	38	85	15	8	7	2
3 ROOMS OR MORE	212	52	125	26	3	7	-
NOT REPORTED	74	13	29	10	7	15	-
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	37	43	11	2	3	1
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	10 102	8 629	993	49	14	154	262
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	8 284	979	49	14	154	253
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	346	14	-	-	-	9
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	314	297	11	-	-	-	6
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	22	2	-	-	-	2
NOT REPORTED	30	27	2	-	-	-	1

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED							
RENTER OCCUPIED	5 480	743	1 967	667	480	1 589	35
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	706	1 923	655	478	1 586	34
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	37	43	11	2	3	1
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	64	29	25	5	-	3	1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	23	5	12	5	2	-	-
NOT REPORTED	11	2	7	2	-	-	-
ALL OCCUPIED HOUSING UNITS	17 264	9 861	3 509	905	657	1 996	335
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	10 480	8 921	1 042	56	19	161	280
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	365	345	11	-	-	-	9
WITH SELECTED HEATING EQUIPMENT[2]	10 115	8 576	1 032	56	19	161	271
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 048	7 628	967	49	19	138	246
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 046	933	59	7	-	21	25
SOLAR HEATING EQUIPMENT	7	6	-	-	-	-	1
STOVE, BURNING WOOD OR COAL	431	401	16	-	-	-	14
FIREPLACE, BURNING WOOD OR COAL	95	88	3	2	-	2	-
PORTABLE ELECTRIC HEATER	359	305	25	3	-	19	6
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	99	88	8	-	-	-	4
OTHER	95	85	8	2	-	-	1
NOT REPORTED	21	14	5	-	-	2	-
RENTER OCCUPIED	6 784	940	2 467	849	638	1 835	55
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	90	41	31	11	2	3	1
WITH SELECTED HEATING EQUIPMENT[2]	6 694	899	2 436	837	636	1 832	53
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 208	817	2 288	777	606	1 670	49
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	464	80	143	55	28	152	4
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	17	15	2	-	-	-	-
FIREPLACE, BURNING WOOD OR COAL	6	3	-	2	-	2	-
PORTABLE ELECTRIC HEATER	404	55	133	47	25	140	3
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	18	5	7	4	2	-	1
OTHER	22	2	4	3	2	10	-
NOT REPORTED	22	2	4	5	2	10	-
AIR CONDITIONING							
OWNER OCCUPIED	10 480	8 921	1 042	56	19	161	280
WITH AIR CONDITIONING	5 333	4 491	564	38	14	122	104
ROOM UNITS	4 330	3 605	517	25	7	88	88
1	2 317	1 913	276	16	7	33	72
2	1 304	1 077	180	7	-	28	12
3	448	391	39	2	-	14	3
4	180	159	18	-	-	4	-
5 OR MORE	80	66	5	-	-	9	-
CENTRAL SYSTEM	1 003	886	47	13	7	34	16
WITH NO AIR CONDITIONING	5 147	4 430	478	18	5	39	176
RENTER OCCUPIED	6 784	940	2 467	849	638	1 835	55
WITH AIR CONDITIONING	2 576	255	848	285	301	877	9
ROOM UNITS	2 222	225	788	250	231	720	8
1	1 518	152	561	194	171	433	8
2	572	56	193	49	57	218	-
3	96	11	24	5	3	53	-
4	21	2	6	3	-	10	-
5 OR MORE	15	5	3	-	-	7	-
CENTRAL SYSTEM	354	30	61	35	70	157	1
WITH NO AIR CONDITIONING	4 208	685	1 618	563	337	958	46

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	10 480	8 921	1 042	56	19	161	280
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 003	886	47	13	7	34	16
WITH SUPPLEMENTAL EQUIPMENT USED	478	448	17	7	2	2	3
INDIVIDUAL ROOM AIR CONDITIONING UNIT	35	33	-	-	-	2	1
AWNINGS	81	78	2	-	-	-	1
DEHUMIDIFIER	151	146	4	2	-	-	-
CEILING FAN	22	22	1	-	-	-	-
ATTIC FAN	214	206	5	2	1	-	-
WINDOW FAN	41	34	2	3	2	-	1
PORTABLE FAN	110	99	8	-	2	-	1
WITH NO SUPPLEMENTAL EQUIPMENT USED	472	391	28	5	5	30	13
NOT REPORTED	52	46	2	2	-	2	-
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	9 477	8 035	995	43	12	127	264
RENTER OCCUPIED	6 784	940	2 467	849	638	1 835	55
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	354	30	61	35	70	157	1
WITH SUPPLEMENTAL EQUIPMENT USED	73	8	4	4	12	44	-
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	2	2	-	-	22	-
AWNINGS	-	-	-	-	-	-	-
DEHUMIDIFIER	2	-	-	-	-	2	-
CEILING FAN	-	-	-	-	-	-	-
ATTIC FAN	2	2	-	-	-	-	-
WINDOW FAN	6	1	-	2	2	2	-
PORTABLE FAN	38	5	2	2	10	19	-
WITH NO SUPPLEMENTAL EQUIPMENT USED	264	21	52	31	58	102	1
NOT REPORTED	17	1	5	-	-	11	-
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 430	910	2 406	814	568	1 678	54

TABLE B-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS	17 264	306	518	2 012	3 080	3 424	3 543	4 380	5.3
HOUSE HEATING FUEL									
OWNER OCCUPIED	10 480	15	57	211	1 015	2 140	2 947	4 096	6.1
UTILITY GAS	4 392	12	23	57	358	864	1 293	1 785	6.2
BOTTLED, TANK, OR LP GAS	86	-	2	8	23	16	20	18	5.1
FUEL OIL	4 997	3	23	116	490	1 038	1 402	1 926	6.1
KEROSENE, ETC	85	-	1	10	32	18	12	12	4.5
ELECTRICITY	641	1	3	14	75	147	145	256	6.0
COAL OR COKE	105	-	2	1	10	20	34	38	6.1
WOOD	170	-	3	5	27	37	39	60	5.8
SOLAR HEAT	2	-	-	-	-	1	-	2	...
OTHER FUEL	-	-	-	-	-	-	-	-	-
NONE	1	-	-	-	-	-	1	-	...
RENTER OCCUPIED	6 784	291	461	1 801	2 066	1 284	597	285	3.9
UTILITY GAS	2 536	81	135	579	823	555	275	88	4.1
BOTTLED, TANK, OR LP GAS	40	-	-	10	14	13	2	1	4.2
FUEL OIL	3 574	188	253	1 042	1 017	623	280	172	3.8
KEROSENE, ETC	29	-	1	3	10	6	9	1	...
ELECTRICITY	528	20	68	153	181	70	23	13	3.6
COAL OR COKE	30	-	-	2	6	11	4	6	...
WOOD	29	3	1	3	8	6	2	5	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	3	7	3	-	-	-	...
NONE	5	-	-	2	3	-	-	-	...
WATER HEATING FUEL[1]									
OWNER OCCUPIED	10 409	14	53	202	995	2 129	2 939	4 077	6.1
UTILITY GAS	4 850	10	20	77	379	929	1 485	1 950	6.2
BOTTLED, TANK, OR LP GAS	258	-	3	8	44	61	64	77	5.7
FUEL OIL	2 876	2	14	63	244	580	768	1 204	6.2
KEROSENE, ETC	14	-	-	2	6	3	2	2	...
ELECTRICITY	2 331	1	16	52	313	541	598	811	5.9
COAL OR COKE	27	-	-	-	4	5	10	8	...
WOOD	36	-	-	-	3	5	9	18	6.5+
SOLAR HEAT	6	-	-	-	-	1	1	5	...
OTHER FUEL	-	-	-	-	-	-	-	-	-
NONE	11	-	-	-	1	3	3	3	...
RENTER OCCUPIED	6 721	284	457	1 788	2 046	1 277	587	282	3.9
UTILITY GAS	2 801	74	135	656	860	629	325	121	4.1
BOTTLED, TANK, OR LP GAS	85	-	2	8	24	25	17	8	4.8
FUEL OIL	2 848	179	239	871	843	455	167	93	3.6
KEROSENE, ETC	1	-	-	-	-	1	-	-	...
ELECTRICITY	928	23	79	234	305	154	78	54	3.9
COAL OR COKE	14	-	-	5	2	6	1	2	...
WOOD	2	-	-	-	-	1	-	1	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	15	2	2	7	3	2	-	-	...
NONE	27	6	-	7	8	4	-	2	...
COOKING FUEL									
OWNER OCCUPIED	10 480	15	57	211	1 015	2 140	2 947	4 096	6.1
UTILITY GAS	4 556	9	25	114	440	908	1 437	1 623	6.0
BOTTLED, TANK, OR LP GAS	805	2	11	31	179	184	187	211	5.5
FUEL OIL	25	-	3	4	4	5	4	6	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	5 059	5	18	60	387	1 037	1 313	2 239	6.3
COAL OR COKE	5	-	-	-	1	1	2	2	...
WOOD	28	-	1	2	4	5	4	13	...
OTHER FUEL	3	-	-	-	-	-	-	3	...
NONE	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 784	291	461	1 801	2 066	1 284	597	285	3.9
UTILITY GAS	4 678	159	290	1 303	1 466	924	413	123	3.9
BOTTLED, TANK, OR LP GAS	223	3	7	33	66	55	33	26	4.5
FUEL OIL	37	5	8	8	9	5	-	2	3.1
KEROSENE, ETC	3	-	-	2	1	1	-	-	...
ELECTRICITY	1 769	68	154	448	519	298	149	134	3.9
COAL OR COKE	1	-	-	-	-	-	1	-	...
WOOD	1	-	-	-	-	-	-	1	...
OTHER FUEL	7	-	-	3	3	-	-	-	...
NONE	65	57	2	3	2	2	-	-	1.5-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE B-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
MONTHLY COST PAID FOR ELECTRICITY									
SPECIFIED OWNER OCCUPIED[1]	8 307	8	28	52	502	1 585	2 518	3 614	6.3
ELECTRICITY PAID FOR	8 299	8	28	51	501	1 584	2 517	3 610	6.3
LESS THAN $10	47	-	1	-	4	14	19	9	5.8
$10 TO $19	590	-	3	12	82	136	191	166	5.8
$20 TO $29	1 554	-	10	12	151	378	514	489	5.9
$30 TO $39	1 738	3	10	17	132	341	560	676	6.1
$40 TO $49	1 357	3	1	4	66	278	394	611	6.3
$50 TO $59	994	2	1	6	23	152	331	480	6.4
$60 TO $79	1 033	-	1	2	26	157	280	568	6.5+
$80 TO $99	408	1	2	-	6	67	110	223	6.5+
$100 TO $149	452	-	-	-	7	55	90	299	6.5+
$150 OR MORE	126	-	-	-	2	8	29	87	6.5+
MEDIAN	41	...	...	31	31	37	39	47	...
NO ELECTRICITY USED	8	-	-	1	1	1	1	4	...
SPECIFIED RENTER OCCUPIED[2]	6 728	291	459	1 797	2 060	1 274	586	261	3.9
ELECTRICITY PAID FOR	5 151	114	256	1 324	1 661	1 065	514	216	4.0
LESS THAN $10	217	3	19	93	54	34	12	2	3.4
$10 TO $19	1 452	53	100	487	459	229	92	32	3.7
$20 TO $29	1 548	40	63	402	527	331	138	47	4.0
$30 TO $39	916	13	34	187	279	223	124	55	4.3
$40 TO $49	452	6	24	81	150	99	64	30	4.3
$50 TO $59	238	-	9	29	84	66	29	21	4.5
$60 TO $79	202	-	6	25	72	51	32	15	4.5
$80 TO $99	39	-	2	2	10	12	7	6	4.9
$100 TO $149	60	-	-	10	18	13	13	6	4.7
$150 OR MORE	27	-	-	8	7	7	2	2	...
MEDIAN	25	20	21	22	25	27	31	34	...
INCLUDED IN RENT	1 567	177	203	468	395	209	72	44	3.4
NO ELECTRICITY USED	11	-	-	5	5	-	-	1	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	8 307	8	28	52	502	1 585	2 518	3 614	6.3
GAS PAID FOR	5 481	8	20	37	308	962	1 751	2 396	6.3
LESS THAN $10	503	-	3	6	43	84	168	201	6.2
$10 TO $14	402	-	1	3	32	70	147	149	6.1
$15 TO $19	320	-	2	2	28	65	94	129	6.2
$20 TO $24	361	-	2	3	26	56	122	152	6.3
$25 TO $29	249	-	-	3	20	39	89	99	6.2
$30 TO $39	640	2	4	8	49	142	226	209	6.0
$40 TO $49	750	3	3	7	35	173	266	263	6.1
$50 TO $69	1 221	2	4	3	53	206	383	570	6.4
$70 TO $99	668	-	2	4	15	95	173	379	6.5+
$100 OR MORE	366	1	-	-	8	31	81	245	6.5+
MEDIAN	43	...	...	33	31	41	41	49	...
NO GAS USED	2 826	1	8	15	194	623	767	1 218	6.2
SPECIFIED RENTER OCCUPIED[2]	6 728	291	459	1 797	2 060	1 274	586	261	3.9
GAS PAID FOR	3 524	70	147	864	1 073	815	411	145	4.1
LESS THAN $10	1 138	54	79	446	332	149	50	29	3.5
$10 TO $14	594	11	41	174	203	108	46	11	3.8
$15 TO $19	356	2	10	73	119	88	57	8	4.3
$20 TO $24	291	-	5	54	90	75	49	18	4.4
$25 TO $29	180	-	3	30	61	52	24	9	4.4
$30 TO $39	252	2	6	35	86	88	30	6	4.5
$40 TO $49	223	2	2	18	82	74	29	17	4.6
$50 TO $69	271	-	2	23	54	103	69	19	5.0
$70 TO $99	145	-	-	3	32	55	36	18	5.2
$100 OR MORE	74	-	-	7	14	22	20	11	5.2
MEDIAN	15	10-	10-	10-	15	23	26	28	...
INCLUDED IN RENT	2 255	164	233	685	700	321	102	51	3.6
NO GAS USED	949	58	79	248	287	138	74	65	3.8

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	8 307	8	28	52	502	1 585	2 518	3 614	6.3
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	4 471	2	12	30	285	840	1 318	1 985	6.3
LESS THAN $100	180	-	-	2	13	24	40	100	6.5+
$100 TO $199	160	-	1	2	12	35	34	76	6.4
$200 TO $299	149	-	2	4	13	32	35	64	6.2
$300 TO $399	215	-	-	4	25	56	61	70	5.9
$400 TO $499	304	-	3	2	30	84	97	88	5.8
$500 TO $599	334	-	1	7	37	93	108	88	5.8
$600 TO $699	391	-	1	2	34	87	135	133	6.0
$700 TO $799	366	1	-	1	31	89	104	140	6.1
$800 OR MORE	2 373	1	5	8	90	340	703	1 225	6.5+
MEDIAN	800+	...	...	...	637	710	800+	800+	...
FUELS NOT USED OR FREE	3 836	7	16	22	217	745	1 200	1 630	6.3
SPECIFIED RENTER OCCUPIED[2]	6 728	291	459	1 797	2 060	1 274	586	261	3.9
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	793	17	15	77	195	208	165	114	4.9
LESS THAN $100	85	14	11	30	11	8	8	2	3.0
$100 TO $199	60	2	1	21	14	8	8	6	3.9
$200 TO $299	39	-	1	4	13	13	6	3	4.6
$300 TO $399	58	2	1	7	22	13	7	6	4.4
$400 TO $499	64	-	2	5	22	12	14	9	4.8
$500 TO $599	53	-	-	2	18	18	10	5	4.9
$600 TO $699	68	-	-	3	10	28	18	10	5.3
$700 TO $799	80	-	-	-	27	26	19	8	5.0
$800 OR MORE	287	-	-	5	59	83	74	65	5.4
MEDIAN	655	...	...	139	584	719	756	800+	...
INCLUDED IN RENT	3 491	200	320	1 103	1 078	555	186	49	3.6
FUELS NOT USED OR FREE	2 444	74	124	617	786	510	236	97	4.0
ALL OCCUPIED HOUSING UNITS	17 264	306	518	2 012	3 080	3 424	3 543	4 380	5.3
HEATING EQUIPMENT									
OWNER OCCUPIED	10 480	15	57	211	1 015	2 140	2 947	4 096	6.1
WARM-AIR FURNACE	4 533	6	26	74	468	1 000	1 259	1 700	6.0
HEAT PUMP	69	-	2	-	2	5	10	52	6.5+
STEAM OR HOT WATER	4 775	5	18	102	379	873	1 409	1 989	6.2
BUILT-IN ELECTRIC UNITS	483	1	2	14	61	127	112	166	5.8
FLOOR, WALL, OR PIPELESS FURNACE	79	-	1	4	16	14	28	17	5.7
ROOM HEATERS WITH FLUE	162	1	6	7	34	38	37	40	5.4
ROOM HEATERS WITHOUT FLUE	13	-	-	-	1	3	4	4	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	364	3	3	10	54	79	86	129	5.9
NONE	1	-	-	-	-	-	1	-	...
RENTER OCCUPIED	6 784	291	461	1 801	2 066	1 284	597	285	3.9
WARM-AIR FURNACE	1 517	31	62	282	472	361	205	103	4.3
HEAT PUMP	18	-	2	3	9	2	3	-	...
STEAM OR HOT WATER	4 266	230	319	1 288	1 264	706	308	151	3.7
BUILT-IN ELECTRIC UNITS	454	20	59	137	152	60	17	8	3.6
FLOOR, WALL, OR PIPELESS FURNACE	48	-	2	3	14	13	10	7	4.9
ROOM HEATERS WITH FLUE	353	7	14	68	108	107	45	4	4.3
ROOM HEATERS WITHOUT FLUE	38	-	-	7	12	16	2	-	4.5
FIREPLACES, STOVES, OR PORTABLE HEATERS	85	3	4	10	31	20	5	12	4.3
NONE	5	-	-	2	3	-	-	-	...
FIREPLACES AND HEATING STOVES									
OWNER OCCUPIED	10 480	15	57	211	1 015	2 140	2 947	4 096	6.1
HOUSING UNITS WITH HEATING EQUIPMENT	10 479	15	57	211	1 015	2 140	2 946	4 096	6.1
WITH FIREPLACE OR HEATING STOVE	4 730	8	17	39	276	700	1 190	2 500	6.5+
IN WORKING ORDER	4 479	8	17	37	258	663	1 092	2 403	6.5+
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	3 716	7	10	32	194	548	866	2 059	6.5+
ALL PURCHASED	1 168	2	2	10	56	159	275	665	6.5+
SOME OR NONE PURCHASED	2 510	5	9	22	138	382	586	1 368	6.5+
NOT REPORTED	38	-	-	-	-	7	6	25	6.5+
COAL	63	-	-	-	9	10	16	28	6.3
OTHER FUEL	214	2	7	3	34	31	53	84	6.1
NONE	475	-	-	3	20	73	155	225	6.4
NOT REPORTED	11	-	-	-	1	2	2	7	...
NOT IN WORKING ORDER	239	-	-	2	13	35	94	95	6.2
NOT REPORTED	12	-	-	-	5	2	3	2	...
WITHOUT FIREPLACE OR HEATING STOVE	5 727	7	40	172	736	1 434	1 751	1 587	5.8
NOT REPORTED	22	-	-	-	2	6	5	9	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	-	-	-	1	-	...

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
FIREPLACES AND HEATING STOVES--CONTINUED									
RENTER OCCUPIED	6 784	291	461	1 801	2 066	1 284	597	285	3.9
HOUSING UNITS WITH HEATING EQUIPMENT	6 779	291	461	1 799	2 063	1 284	597	285	3.9
WITH FIREPLACE OR HEATING STOVE	697	11	35	68	194	165	106	119	4.7
IN WORKING ORDER	552	6	25	53	153	129	84	102	4.8
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	233	4	11	13	47	38	35	84	5.6
ALL PURCHASED	79	3	5	2	15	12	12	30	5.6
SOME OR NONE PURCHASED	144	1	5	11	29	26	23	50	5.5
NOT REPORTED	9	-	1	-	3	-	1	5	...
COAL	9	-	-	1	3	2	1	3	...
OTHER FUEL	252	-	9	35	92	76	33	6	4.4
NONE	54	2	6	3	10	11	14	8	5.0
NOT REPORTED	4	-	-	-	-	2	2	1	...
NOT IN WORKING ORDER	135	3	10	15	36	35	21	16	4.6
NOT REPORTED	10	2	-	-	5	2	1	1	...
WITHOUT FIREPLACE OR HEATING STOVE	6 064	280	424	1 727	1 862	1 113	491	166	3.8
NOT REPORTED	18	-	2	5	7	5	-	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	-	2	3	-	-	-	...
ALL OCCUPIED HOUSING UNITS	17 264	306	518	2 012	3 080	3 424	3 543	4 380	5.3
UNITS OCCUPIED LAST WINTER	15 582	219	435	1 663	2 610	3 116	3 367	4 171	5.4
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	10 102	13	54	190	966	2 059	2 877	3 943	6.1
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	11	51	180	914	1 979	2 785	3 813	6.1
NO ADDITIONAL HEAT SOURCE USED	9 054	11	48	157	836	1 848	2 617	3 536	6.1
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	550	-	2	13	54	96	139	246	6.3
NOT REPORTED	129	-	1	9	24	34	30	31	5.4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	3	3	10	52	80	91	130	5.9
RENTER OCCUPIED	5 480	206	381	1 473	1 644	1 057	491	228	3.9
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	205	378	1 460	1 610	1 028	484	217	3.9
NO ADDITIONAL HEAT SOURCE USED	4 319	173	309	1 145	1 286	834	392	180	3.9
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	985	26	68	289	305	182	81	35	3.9
NOT REPORTED	78	6	2	26	19	12	11	2	3.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	1	2	13	34	30	7	11	4.4
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	10 102	13	54	190	966	2 059	2 877	3 943	6.1
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	11	51	180	914	1 979	2 785	3 813	6.1
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 411	11	44	156	807	1 768	2 416	3 209	6.1
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 200	-	7	12	86	183	337	575	6.4
1 ROOM	525	-	2	8	34	85	169	226	6.3
2 ROOMS	304	-	4	3	27	59	76	135	6.3
3 ROOMS OR MORE	372	-	-	1	26	40	92	214	6.5+
NOT REPORTED	121	-	1	11	21	28	33	29	5.5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	3	3	10	52	80	91	130	5.9
RENTER OCCUPIED	5 480	206	381	1 473	1 644	1 057	491	228	3.9
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	205	378	1 460	1 610	1 028	484	217	3.9
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 689	200	359	1 360	1 415	829	363	163	3.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	619	5	17	77	172	184	112	52	4.7
1 ROOM	252	5	16	46	65	70	33	18	4.4
2 ROOMS	155	-	2	22	58	32	26	16	4.4
3 ROOMS OR MORE	212	-	-	8	50	82	54	18	5.1
NOT REPORTED	74	-	2	24	22	15	9	2	4.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	1	2	13	34	30	7	11	4.4
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	10 102	13	54	190	966	2 059	2 877	3 943	6.1
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	11	51	180	914	1 979	2 785	3 813	6.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	3	3	10	52	80	91	130	5.9
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	314	3	2	10	44	62	79	115	6.0
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	-	-	1	4	7	7	6	...
NOT REPORTED	30	-	1	-	4	11	6	9	...

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE B-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
UNITS OCCUPIED LAST WINTER--CONTINUED									
INSUFFICIENT HEAT--CONTINUED									
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED									
RENTER OCCUPIED	5 480	206	381	1 473	1 644	1 057	491	228	3.9
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	205	378	1 460	1 610	1 028	484	217	3.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	1	2	13	34	30	7	11	4.4
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	64	1	2	8	23	15	5	10	4.4
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	23	-	-	5	8	8	2	-	...
NOT REPORTED	11	-	-	-	3	6	-	1	...
ALL OCCUPIED HOUSING UNITS	17 264	306	518	2 012	3 080	3 424	3 543	4 380	5.3
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	10 480	15	57	211	1 015	2 140	2 947	4 096	6.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	365	3	3	10	54	79	87	129	5.9
WITH SELECTED HEATING EQUIPMENT[2]	10 115	13	54	201	960	2 061	2 860	3 967	6.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 048	11	46	191	879	1 864	2 609	3 447	6.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 046	2	7	10	79	190	245	512	6.4
SOLAR HEATING EQUIPMENT	7	-	-	-	-	1	1	5	...
STOVE, BURNING WOOD OR COAL	431	2	2	-	28	89	111	199	6.3
FIREPLACE, BURNING WOOD OR COAL	95	-	-	-	3	10	15	66	6.5+
PORTABLE ELECTRIC HEATER	359	-	4	7	30	62	90	165	6.3
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	99	-	2	-	11	19	26	41	6.2
OTHER	95	-	-	3	10	12	16	54	6.5+
NOT REPORTED	21	-	-	-	2	6	5	8	...
RENTER OCCUPIED	6 784	291	461	1 801	2 066	1 284	597	285	3.9
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	90	3	4	12	34	20	5	12	4.3
WITH SELECTED HEATING EQUIPMENT[2]	6 694	289	457	1 789	2 032	1 264	591	273	3.9
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 208	274	437	1 670	1 888	1 150	538	251	3.9
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	464	13	19	106	142	110	54	21	4.2
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	17	-	-	2	4	3	5	4	...
FIREPLACE, BURNING WOOD OR COAL	6	-	-	-	2	3	-	2	...
PORTABLE ELECTRIC HEATER	404	13	17	96	125	95	43	15	4.1
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	18	-	2	4	5	3	3	1	...
OTHER	22	-	-	3	7	7	4	1	...
NOT REPORTED	22	2	2	13	2	4	-	-	...
AIR CONDITIONING									
OWNER OCCUPIED	10 480	15	57	211	1 015	2 140	2 947	4 096	6.1
WITH AIR CONDITIONING	5 333	5	26	111	486	968	1 485	2 251	6.2
ROOM UNITS	4 330	2	20	86	410	819	1 278	1 715	6.1
1	2 317	-	13	70	269	491	660	814	6.0
2	1 304	2	6	16	112	244	403	521	6.2
3	448	-	1	-	24	54	145	225	6.5+
4	180	-	-	-	3	22	53	102	6.5+
5 OR MORE	80	-	-	-	2	8	17	53	6.5+
CENTRAL SYSTEM	1 003	3	7	24	76	149	207	537	6.5+
WITH NO AIR CONDITIONING	5 147	10	31	100	529	1 172	1 462	1 844	6.0
RENTER OCCUPIED	6 784	291	461	1 801	2 066	1 284	597	285	3.9
WITH AIR CONDITIONING	2 576	91	171	761	830	442	199	83	3.8
ROOM UNITS	2 222	76	153	655	705	386	175	72	3.8
1	1 518	73	119	463	450	263	112	39	3.7
2	572	2	32	181	201	91	44	21	3.8
3	96	2	2	10	43	22	12	6	4.3
4	21	-	-	2	7	5	6	2	...
5 OR MORE	15	-	-	-	3	5	2	5	...
CENTRAL SYSTEM	354	14	17	106	126	56	24	11	3.8
WITH NO AIR CONDITIONING	4 208	200	290	1 040	1 235	842	398	202	4.0

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE B-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
SUPPLEMENTAL COOLING EQUIPMENT									
OWNER OCCUPIED	10 480	15	57	211	1 015	2 140	2 947	4 096	6.1
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 003	3	7	24	76	149	207	537	6.5+
WITH SUPPLEMENTAL EQUIPMENT USED	478	-	-	5	30	77	96	270	6.5+
INDIVIDUAL ROOM AIR CONDITIONING UNIT	35	-	-	-	-	4	9	22	6.5+
AWNINGS	81	-	-	4	8	19	19	30	6.0
DEHUMIDIFIER	151	-	-	2	7	26	27	90	6.5+
CEILING FAN	22	-	-	-	-	7	2	13	...
ATTIC FAN	214	-	-	-	8	27	39	141	6.5+
WINDOW FAN	41	-	-	2	5	6	11	18	6.2
PORTABLE FAN	110	-	-	-	13	23	26	47	6.2
WITH NO SUPPLEMENTAL EQUIPMENT USED	472	3	7	16	42	67	90	248	6.5+
NOT REPORTED	52	-	-	3	3	6	21	19	6.2
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	9 477	12	50	187	939	1 990	2 740	3 559	6.1
RENTER OCCUPIED	6 784	291	461	1 801	2 066	1 284	597	285	3.9
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	354	14	17	106	126	56	24	11	3.8
WITH SUPPLEMENTAL EQUIPMENT USED	73	2	3	26	23	12	5	2	3.7
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	2	2	11	5	4	3	-	...
AWNINGS	-	-	-	-	-	-	-	-	-
DEHUMIDIFIER	2	-	-	-	-	2	-	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-
ATTIC FAN	2	-	-	-	-	-	-	2	...
WINDOW FAN	6	-	-	5	1	-	-	-	...
PORTABLE FAN	38	-	2	10	17	6	3	-	3.9
WITH NO SUPPLEMENTAL EQUIPMENT USED	264	11	12	72	99	41	19	9	3.9
NOT REPORTED	17	2	2	8	3	2	-	-	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 430	277	443	1 695	1 940	1 228	572	274	3.9
ALL OCCUPIED HOUSING UNITS	17 264	306	518	2 012	3 080	3 424	3 543	4 380	5.3
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 196	16	56	151	949	1 982	2 904	4 138	6.2
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	9 201	10	41	84	704	1 755	2 675	3 933	6.3
ALL WINDOWS COVERED	7 677	8	33	66	577	1 485	2 279	3 230	6.2
SOME WINDOWS COVERED	1 159	2	6	15	88	191	305	553	6.4
NO WINDOWS COVERED	343	1	2	3	36	76	87	139	6.1
NOT REPORTED	22	-	-	-	2	3	5	11	...
RENTER OCCUPIED	995	5	15	68	246	228	229	204	5.2
ALL WINDOWS COVERED	591	2	8	36	129	146	135	135	5.3
SOME WINDOWS COVERED	187	-	2	12	32	40	58	44	5.6
NO WINDOWS COVERED	165	4	4	8	59	35	33	22	4.7
NOT REPORTED	52	-	2	11	26	6	3	3	4.0
STORM DOORS									
OWNER OCCUPIED	9 201	10	41	84	704	1 755	2 675	3 933	6.3
ALL DOORS COVERED	7 232	6	29	46	514	1 437	2 240	2 962	6.2
SOME DOORS COVERED	1 252	3	5	10	106	205	290	633	6.5+
NO DOORS COVERED	695	1	7	29	82	110	141	326	6.3
NOT REPORTED	23	-	-	-	2	3	5	12	...
RENTER OCCUPIED	995	5	15	68	246	228	229	204	5.2
ALL DOORS COVERED	556	3	5	26	128	136	138	120	5.3
SOME DOORS COVERED	154	-	2	5	48	29	32	38	5.2
NO DOORS COVERED	234	2	6	25	45	57	55	44	5.2
NOT REPORTED	51	-	2	11	25	6	4	3	4.0
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	9 201	10	41	84	704	1 755	2 675	3 933	6.3
YES	7 792	8	32	69	570	1 501	2 218	3 395	6.3
NO	1 076	1	6	12	92	191	362	412	6.1
DON'T KNOW	309	2	2	3	39	58	91	114	6.0
NOT REPORTED	24	-	-	-	2	4	5	13	...
RENTER OCCUPIED	995	5	15	68	246	228	229	204	5.2
YES	502	2	5	32	104	110	131	116	5.5
NO	230	2	4	12	52	63	53	45	5.2
DON'T KNOW	212	2	4	12	64	49	41	41	5.0
NOT REPORTED	50	-	2	11	25	6	3	2	4.0

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT				
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER			
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS	17 264	2 107	15 157	2 842	2 444	1 437	8 434
HOUSE HEATING FUEL							
OWNER OCCUPIED	10 480	1 333	9 147	1 908	1 893	944	4 401
UTILITY GAS	4 392	406	3 986	893	824	379	1 890
BOTTLED, TANK, OR LP GAS	86	20	67	23	12	13	19
FUEL OIL	4 997	469	4 528	788	990	519	2 232
KEROSENE, ETC	85	30	55	32	5	3	15
ELECTRICITY	641	362	278	141	33	18	86
COAL OR COKE	105	-	105	5	8	9	82
WOOD	170	44	126	26	21	3	76
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-
NONE	1	-	1	-	-	-	1
RENTER OCCUPIED	6 784	773	6 010	934	550	493	4 033
UTILITY GAS	2 536	257	2 278	325	160	177	1 617
BOTTLED, TANK, OR LP GAS	40	3	37	6	5	-	25
FUEL OIL	3 574	218	3 356	450	361	305	2 240
KEROSENE, ETC	29	4	25	5	2	-	19
ELECTRICITY	528	286	242	141	19	6	76
COAL OR COKE	30	1	29	-	-	-	29
WOOD	29	1	27	4	3	-	21
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	13	3	10	3	-	5	2
NONE	5	-	5	-	2	-	3
WATER HEATING FUEL[1]							
OWNER OCCUPIED	10 409	1 320	9 089	1 901	1 889	939	4 359
UTILITY GAS	4 850	374	4 476	891	862	423	2 300
BOTTLED, TANK, OR LP GAS	258	24	234	33	39	19	142
FUEL OIL	2 876	283	2 593	535	626	308	1 124
KEROSENE, ETC	14	12	2	1	-	-	2
ELECTRICITY	2 331	614	1 718	431	359	187	742
COAL OR COKE	27	1	26	2	-	2	22
WOOD	36	7	28	7	2	1	19
SOLAR HEAT	6	4	3	-	2	-	1
OTHER FUEL	-	-	-	-	-	-	-
NONE	11	1	10	2	1	-	7
RENTER OCCUPIED	6 721	771	5 950	926	549	491	3 984
UTILITY GAS	2 801	262	2 538	363	172	198	1 806
BOTTLED, TANK, OR LP GAS	85	3	82	8	9	6	60
FUEL OIL	2 848	170	2 678	364	320	252	1 743
KEROSENE, ETC	1	-	1	-	-	-	1
ELECTRICITY	928	335	593	188	44	25	336
COAL OR COKE	14	-	14	-	-	-	14
WOOD	2	-	2	-	-	1	1
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	15	2	14	3	2	7	2
NONE	27	-	27	-	2	3	22
COOKING FUEL							
OWNER OCCUPIED	10 480	1 333	9 147	1 908	1 893	944	4 401
UTILITY GAS	4 556	275	4 281	704	718	445	2 414
BOTTLED, TANK, OR LP GAS	805	150	655	165	100	64	326
FUEL OIL	25	-	25	4	5	2	14
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	5 059	905	4 154	1 030	1 065	433	1 626
COAL OR COKE	5	-	5	-	-	-	5
WOOD	28	4	24	4	3	1	17
OTHER FUEL	3	-	3	1	2	-	-
NONE	-	-	-	-	-	-	-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
COOKING FUEL--CONTINUED							
RENTER OCCUPIED	6 784	773	6 010	934	550	493	4 033
UTILITY GAS	4 678	307	4 371	517	394	416	3 045
BOTTLED, TANK, OR LP GAS	223	14	208	30	22	13	144
FUEL OIL	37	3	34	6	3	3	21
KEROSENE, ETC	3	1	2	-	-	-	2
ELECTRICITY	1 769	448	1 321	380	127	59	756
COAL OR COKE	1	-	1	-	-	-	1
WOOD	1	-	1	-	-	-	1
OTHER FUEL	7	-	7	2	2	2	2
NONE	65	-	65	-	3	-	62
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	8 307	963	7 344	1 573	1 707	829	3 235
ELECTRICITY PAID FOR	8 299	962	7 337	1 570	1 706	829	3 232
LESS THAN $10	47	-	47	6	1	-	40
$10 TO $19	590	24	566	53	89	72	352
$20 TO $29	1 554	98	1 456	221	328	172	735
$30 TO $39	1 738	151	1 587	296	379	179	733
$40 TO $49	1 357	140	1 217	273	268	149	527
$50 TO $59	994	115	879	220	213	102	344
$60 TO $79	1 033	170	863	257	231	86	290
$80 TO $99	408	91	317	93	91	24	108
$100 TO $149	452	125	326	125	80	35	87
$150 OR MORE	126	48	79	27	25	10	17
MEDIAN	41	55	40	47	42	39	36
NO ELECTRICITY USED	8	1	7	2	2	-	2
SPECIFIED RENTER OCCUPIED[2]	6 728	769	5 959	928	546	492	3 994
ELECTRICITY PAID FOR	5 151	528	4 623	669	344	333	3 277
LESS THAN $10	217	13	203	27	14	19	144
$10 TO $19	1 452	89	1 364	167	85	103	1 008
$20 TO $29	1 548	100	1 447	191	121	98	1 037
$30 TO $39	916	107	808	115	63	54	576
$40 TO $49	452	89	363	76	25	24	238
$50 TO $59	238	33	205	38	14	19	134
$60 TO $79	202	62	140	33	15	9	83
$80 TO $99	39	7	31	4	2	4	22
$100 TO $149	60	21	39	12	3	2	21
$150 OR MORE	27	6	21	5	2	-	14
MEDIAN	25	35	25	27	25	24	24
INCLUDED IN RENT	1 567	241	1 326	258	200	157	712
NO ELECTRICITY USED	11	-	11	2	2	2	6
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	8 307	963	7 344	1 573	1 707	829	3 235
GAS PAID FOR	5 481	384	5 097	971	1 044	573	2 509
LESS THAN $10	503	31	472	61	68	71	272
$10 TO $14	402	14	387	34	72	31	249
$15 TO $19	320	15	306	30	55	42	179
$20 TO $24	361	15	347	38	72	39	198
$25 TO $29	249	10	239	24	45	34	136
$30 TO $39	640	45	594	89	164	73	269
$40 TO $49	750	63	687	159	173	79	276
$50 TO $69	1 221	86	1 135	285	244	122	484
$70 TO $99	668	63	605	167	97	49	293
$100 OR MORE	366	41	325	85	53	33	154
MEDIAN	43	49	43	53	42	38	37
NO GAS USED	2 826	579	2 247	602	664	256	725

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	6 728	769	5 959	928	546	492	3 994
GAS PAID FOR	3 524	111	3 414	205	193	270	2 745
LESS THAN $10	1 138	19	1 119	63	80	139	837
$10 TO $14	594	20	575	28	32	41	473
$15 TO $19	356	4	353	25	25	16	287
$20 TO $24	291	13	278	18	6	20	234
$25 TO $29	180	9	171	5	9	13	144
$30 TO $39	252	19	233	23	18	14	179
$40 TO $49	223	12	211	13	10	8	181
$50 TO $69	271	11	260	11	9	12	228
$70 TO $99	145	5	140	15	3	2	120
$100 OR MORE	74	1	73	5	2	4	63
MEDIAN	15	25	15	17	12	10-	16
INCLUDED IN RENT	2 255	408	1 847	510	292	185	859
NO GAS USED	949	251	698	212	60	36	389
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[2]	8 307	963	7 344	1 573	1 707	829	3 235
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	4 471	454	4 017	711	955	473	1 878
LESS THAN $100	180	39	141	47	36	12	46
$100 TO $199	160	23	137	45	23	10	59
$200 TO $299	149	22	127	29	19	10	68
$300 TO $399	215	40	175	29	42	21	83
$400 TO $499	304	31	272	31	75	26	139
$500 TO $599	334	33	301	47	65	31	157
$600 TO $699	391	52	339	51	80	46	163
$700 TO $799	366	31	334	51	80	52	152
$800 OR MORE	2 373	183	2 190	381	534	263	1 012
MEDIAN	800+	674	800+	800+	800+	800+	800+
FUELS NOT USED OR FREE	3 836	509	3 327	861	753	356	1 357
SPECIFIED RENTER OCCUPIED[1]	6 728	769	5 959	928	546	492	3 994
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	793	28	765	67	61	46	591
LESS THAN $100	85	4	81	10	8	6	57
$100 TO $199	60	1	59	9	6	6	39
$200 TO $299	39	1	37	5	4	1	28
$300 TO $399	58	4	53	11	2	5	36
$400 TO $499	64	1	62	7	9	5	42
$500 TO $599	53	5	48	5	6	2	36
$600 TO $699	68	1	67	4	8	5	50
$700 TO $799	80	4	75	5	3	5	63
$800 OR MORE	287	5	282	13	15	13	240
MEDIAN	655	...	661	398	531	536	712
INCLUDED IN RENT	3 491	332	3 160	495	351	308	2 006
FUELS NOT USED OR FREE	2 444	410	2 035	366	133	138	1 397
ALL OCCUPIED HOUSING UNITS	17 264	2 107	15 157	2 842	2 444	1 437	8 434
HEATING EQUIPMENT							
OWNER OCCUPIED	10 480	1 333	9 147	1 908	1 893	944	4 401
WARM-AIR FURNACE	4 533	552	3 981	920	950	439	1 672
HEAT PUMP	69	59	11	5	2	-	4
STEAM OR HOT WATER	4 775	366	4 409	764	865	451	2 330
BUILT-IN ELECTRIC UNITS	483	269	214	119	24	14	58
FLOOR, WALL, OR PIPELESS FURNACE	79	1	77	10	9	6	52
ROOM HEATERS WITH FLUE	162	12	151	20	7	14	110
ROOM HEATERS WITHOUT FLUE	13	-	13	1	-	3	9
FIREPLACES, STOVES, OR PORTABLE HEATERS	364	74	290	69	37	17	166
NONE	1	-	1	-	-	-	1
RENTER OCCUPIED	6 784	773	6 010	934	550	493	4 033
WARM-AIR FURNACE	1 517	232	1 285	233	102	89	861
HEAT PUMP	18	11	7	2	2	-	3
STEAM OR HOT WATER	4 266	283	3 984	560	412	385	2 627
BUILT-IN ELECTRIC UNITS	454	244	209	122	17	4	66
FLOOR, WALL, OR PIPELESS FURNACE	48	1	48	4	3	2	39
ROOM HEATERS WITH FLUE	353	1	352	5	7	12	328
ROOM HEATERS WITHOUT FLUE	38	-	38	2	-	-	36
FIREPLACES, STOVES, OR PORTABLE HEATERS	85	2	83	6	5	1	71
NONE	5	-	5	-	2	-	3

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	10 480	1 333	9 147	1 908	1 893	944	4 401
HOUSING UNITS WITH HEATING EQUIPMENT	10 479	1 333	9 146	1 908	1 893	944	4 400
WITH FIREPLACE OR HEATING STOVE	4 730	777	3 953	1 013	881	373	1 686
IN WORKING ORDER	4 479	769	3 710	993	851	358	1 508
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	3 716	698	3 018	872	710	285	1 150
ALL PURCHASED	1 168	230	938	295	213	92	338
SOME OR NONE PURCHASED	2 510	467	2 043	563	493	188	798
NOT REPORTED	38	1	37	13	4	5	14
COAL	63	5	57	8	7	9	32
OTHER FUEL	214	13	202	20	19	11	151
NONE	475	49	425	92	112	52	170
NOT REPORTED	11	3	8	1	3	-	5
NOT IN WORKING ORDER	239	8	231	18	25	15	172
NOT REPORTED	12	-	12	2	5	-	5
WITHOUT FIREPLACE OR HEATING STOVE	5 727	555	5 172	890	1 009	568	2 705
NOT REPORTED	22	1	21	5	4	3	9
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	1	-	-	-	1
RENTER OCCUPIED	6 784	773	6 010	934	550	493	4 033
HOUSING UNITS WITH HEATING EQUIPMENT	6 779	773	6 005	934	549	493	4 030
WITH FIREPLACE OR HEATING STOVE	697	22	675	36	38	30	572
IN WORKING ORDER	552	22	530	34	31	26	439
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	233	14	218	22	28	19	149
ALL PURCHASED	79	7	72	3	6	5	57
SOME OR NONE PURCHASED	144	6	138	18	22	13	85
NOT REPORTED	9	1	9	2	-	1	6
COAL	9	1	9	-	-	-	9
OTHER FUEL	252	3	249	3	2	4	240
NONE	54	4	50	8	2	2	39
NOT REPORTED	4	-	4	-	-	2	3
NOT IN WORKING ORDER	135	-	135	2	5	2	126
NOT REPORTED	10	-	10	-	2	2	6
WITHOUT FIREPLACE OR HEATING STOVE	6 064	750	5 314	896	509	461	3 447
NOT REPORTED	18	2	16	2	2	2	12
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	5	-	2	-	3
ALL OCCUPIED HOUSING UNITS	17 264	2 107	15 157	2 842	2 444	1 437	8 434
UNITS OCCUPIED LAST WINTER	15 582	1 767	13 815	2 627	2 317	1 365	7 506
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	10 102	1 205	8 897	1 861	1 847	930	4 259
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	1 134	8 598	1 793	1 810	911	4 085
NO ADDITIONAL HEAT SOURCE USED	9 054	1 060	7 993	1 666	1 696	860	3 771
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	550	51	499	105	96	40	258
NOT REPORTED	129	23	106	21	17	11	57
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	71	299	69	37	19	174
RENTER OCCUPIED	5 480	562	4 918	765	471	435	3 247
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	561	4 821	759	465	434	3 163
NO ADDITIONAL HEAT SOURCE USED	4 319	515	3 804	656	374	331	2 443
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	985	41	944	95	82	98	670
NOT REPORTED	78	6	73	9	9	5	49
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	1	97	6	6	1	84

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	10 102	1 205	8 897	1 861	1 847	930	4 259
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	1 134	8 598	1 793	1 810	911	4 085
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 411	1 069	7 342	1 713	1 711	800	3 117
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 200	43	1 157	58	78	100	922
1 ROOM	525	26	498	40	42	60	357
2 ROOMS	304	11	293	6	20	21	246
3 ROOMS OR MORE	372	6	366	12	16	19	319
NOT REPORTED	121	22	99	22	20	11	46
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	71	299	69	37	19	174
RENTER OCCUPIED	5 480	562	4 918	765	471	435	3 247
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	561	4 821	759	465	434	3 163
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 689	551	4 138	738	447	411	2 541
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	619	5	614	10	14	19	571
1 ROOM	252	4	249	5	8	15	221
2 ROOMS	155	-	155	2	4	2	148
3 ROOMS OR MORE	212	1	211	3	2	3	203
NOT REPORTED	74	6	69	11	3	3	52
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	1	97	6	6	1	84
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	10 102	1 205	8 897	1 861	1 847	930	4 259
WITH SPECIFIED HEATING EQUIPMENT[1]	9 733	1 134	8 598	1 793	1 810	911	4 085
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	369	71	299	69	37	19	174
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	314	62	252	54	35	16	148
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	3	22	5	-	1	16
NOT REPORTED	30	6	24	10	3	3	9
RENTER OCCUPIED	5 480	562	4 918	765	471	435	3 247
WITH SPECIFIED HEATING EQUIPMENT[1]	5 382	561	4 821	759	465	434	3 163
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	98	1	97	6	6	1	84
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	64	1	63	6	5	1	51
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	23	-	23	-	1	-	23
NOT REPORTED	11	-	11	-	-	-	11
ALL OCCUPIED HOUSING UNITS	17 264	2 107	15 157	2 842	2 444	1 437	8 434
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	10 480	1 333	9 147	1 908	1 893	944	4 401
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	365	74	291	69	37	17	167
WITH SELECTED HEATING EQUIPMENT[2]	10 115	1 259	8 856	1 839	1 856	927	4 234
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 048	1 097	7 951	1 613	1 663	842	3 833
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 046	161	884	220	192	82	391
SOLAR HEATING EQUIPMENT	7	4	2	2	-	-	1
STOVE, BURNING WOOD OR COAL	431	87	344	104	69	29	142
FIREPLACE, BURNING WOOD OR COAL	95	23	72	21	15	10	28
PORTABLE ELECTRIC HEATER	359	34	326	70	71	32	152
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	99	8	91	14	24	3	49
OTHER	95	10	85	20	14	14	37
NOT REPORTED	21	1	21	5	2	3	10

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT.)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED	6 784	773	6 010	934	550	493	4 033
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	90	2	88	6	7	1	74
WITH SELECTED HEATING EQUIPMENT[1]	6 694	771	5 922	928	543	492	3 959
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 208	740	5 468	907	510	456	3 596
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	464	31	433	21	32	30	350
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	17	-	17	2	2	1	13
FIREPLACE, BURNING WOOD OR COAL	6	-	6	-	-	-	6
PORTABLE ELECTRIC HEATER	404	30	375	20	30	26	299
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	18	1	16	-	-	-	16
OTHER	22	-	22	-	-	3	19
NOT REPORTED	22	1	22	-	2	6	14
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[2]							
OWNER OCCUPIED	10 391	1 315	9 077	1 899	1 887	939	4 351
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	10 266	1 299	8 967	1 870	1 867	929	4 302
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	47	10	37	13	6	-	19
NOT REPORTED	78	5	72	17	14	11	31
RENTER OCCUPIED	6 694	771	5 922	926	547	487	3 963
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 605	765	5 839	917	537	484	3 901
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	3	16	2	2	-	12
NOT REPORTED	70	3	67	8	7	3	49
AIR CONDITIONING							
OWNER OCCUPIED	10 480	1 333	9 147	1 908	1 893	944	4 401
WITH AIR CONDITIONING	5 333	693	4 639	1 105	1 130	540	1 865
ROOM UNITS	4 330	351	3 979	758	928	493	1 800
1	2 317	214	2 103	428	469	245	960
2	1 304	103	1 201	212	282	140	567
3	448	22	427	73	117	64	174
4	180	9	172	32	31	35	74
5 OR MORE	80	3	77	12	30	10	25
CENTRAL SYSTEM	1 003	342	660	347	202	47	65
WITH NO AIR CONDITIONING	5 147	640	4 508	803	764	405	2 536
RENTER OCCUPIED	6 784	773	6 010	934	550	493	4 033
WITH AIR CONDITIONING	2 576	499	2 077	585	224	184	1 083
ROOM UNITS	2 222	273	1 950	492	214	183	1 061
1	1 518	162	1 356	297	132	123	805
2	572	88	484	172	73	42	197
3	96	17	79	15	10	16	38
4	21	3	18	5	-	-	13
5 OR MORE	15	2	13	3	-	2	8
CENTRAL SYSTEM	354	227	127	93	10	2	23
WITH NO AIR CONDITIONING	4 208	274	3 933	349	326	308	2 950
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	10 480	1 333	9 147	1 908	1 893	944	4 401
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 003	342	660	347	202	47	65
WITH SUPPLEMENTAL EQUIPMENT USED	478	144	334	178	107	15	33
INDIVIDUAL ROOM AIR CONDITIONING UNIT	35	2	33	21	7	-	5
AWNINGS	81	9	72	24	35	5	8
DEHUMIDIFIER	151	41	111	60	28	11	12
CEILING FAN	22	4	18	6	7	2	4
ATTIC FAN	214	72	142	81	49	3	9
WINDOW FAN	41	18	23	16	4	-	4
PORTABLE FAN	110	39	71	49	15	3	4
WITH NO SUPPLEMENTAL EQUIPMENT USED	472	186	286	149	82	26	29
NOT REPORTED	52	12	40	20	12	5	3
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	9 477	991	8 487	1 561	1 692	898	4 336

[1] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC,) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT--CONTINUED							
RENTER OCCUPIED	6 784	773	6 010	934	550	493	4 033
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	354	227	127	93	10	2	23
WITH SUPPLEMENTAL EQUIPMENT USED	73	50	23	20	3	-	-
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	16	10	7	3	-	-
AWNINGS	-	-	-	-	-	-	-
DEHUMIDIFIER	2	2	-	-	-	-	-
CEILING FAN	-	-	-	-	-	-	-
ATTIC FAN	2	-	2	2	-	-	-
WINDOW FAN	6	5	2	2	-	-	-
PORTABLE FAN	38	27	11	10	2	-	-
WITH NO SUPPLEMENTAL EQUIPMENT USED	264	173	91	68	5	2	16
NOT REPORTED	17	4	13	5	2	-	6
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 430	547	5 883	841	541	491	4 010
ALL OCCUPIED HOUSING UNITS	17 264	2 107	15 157	2 842	2 444	1 437	8 434
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 196	1 290	8 906	1 870	1 866	954	4 215
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	9 201	1 220	7 981	1 752	1 777	869	3 584
ALL WINDOWS COVERED	7 677	1 138	6 539	1 564	1 547	748	2 681
SOME WINDOWS COVERED	1 159	52	1 107	129	179	85	714
NO WINDOWS COVERED	343	27	316	54	50	36	176
NOT REPORTED	22	3	19	5	-	-	14
RENTER OCCUPIED	995	70	925	119	90	85	631
ALL WINDOWS COVERED	591	52	539	81	56	47	356
SOME WINDOWS COVERED	187	9	179	10	8	14	147
NO WINDOWS COVERED	165	4	160	20	21	15	104
NOT REPORTED	52	4	48	8	5	9	26
STORM DOORS							
OWNER OCCUPIED	9 201	1 220	7 981	1 752	1 777	869	3 584
ALL DOORS COVERED	7 232	796	6 436	1 416	1 569	760	2 690
SOME DOORS COVERED	1 252	210	1 041	225	139	73	604
NO DOORS COVERED	695	209	486	108	69	35	274
NOT REPORTED	23	5	18	3	-	-	15
RENTER OCCUPIED	995	70	925	119	90	85	631
ALL DOORS COVERED	556	27	529	67	59	66	336
SOME DOORS COVERED	154	17	136	15	8	5	109
NO DOORS COVERED	234	20	214	29	18	7	160
NOT REPORTED	51	4	47	8	5	7	26
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	9 201	1 220	7 981	1 752	1 777	869	3 584
YES	7 792	1 168	6 624	1 629	1 663	728	2 604
NO	1 076	23	1 053	67	78	103	805
DON'T KNOW	309	24	286	53	36	38	158
NOT REPORTED	24	5	19	3	-	-	16
RENTER OCCUPIED	995	70	925	119	90	85	631
YES	502	39	463	67	59	49	288
NO	230	7	224	13	9	13	189
DON'T KNOW	212	19	193	31	16	17	129
NOT REPORTED	50	4	46	8	6	7	25

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	9 201	1 220	7 981	1 752	1 777	869	3 584
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	343	27	316	54	50	36	176
SOME OR ALL WINDOWS COVERED	8 836	1 190	7 646	1 692	1 727	833	3 395
NONE INSTALLED	7 951	1 066	6 885	1 564	1 582	747	2 992
SOME OR ALL INSTALLED	868	121	747	124	145	81	397
NOT REPORTED	16	2	14	4	-	5	5
NOT REPORTED	22	3	19	5	-	-	14
STORM DOORS:							
NO DOORS COVERED	695	209	486	108	69	35	274
SOME OR ALL DOORS COVERED	8 484	1 006	7 477	1 641	1 708	834	3 295
NONE INSTALLED	7 954	888	7 066	1 559	1 625	783	3 099
SOME OR ALL INSTALLED	495	114	382	80	80	42	179
NOT REPORTED	35	5	30	3	3	9	16
NOT REPORTED	23	5	18	3	-	-	15
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	1 076	23	1 053	67	78	103	805
WITH ATTIC OR ROOF INSULATION	7 792	1 168	6 624	1 629	1 663	728	2 604
NONE ADDED OR INSTALLED	6 949	1 049	5 900	1 470	1 497	649	2 284
SOME OR ALL ADDED OR INSTALLED	809	114	695	152	160	77	306
NOT REPORTED	33	5	29	6	6	2	15
DON'T KNOW	309	24	286	53	36	38	158
NOT REPORTED	24	5	19	3	-	-	16
WALL INSULATION:							
NONE ADDED OR INSTALLED	8 388	1 104	7 283	1 653	1 650	797	3 183
SOME OR ALL ADDED OR INSTALLED	766	108	658	87	125	70	376
NOT REPORTED	47	8	40	11	2	2	25
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	6 800	897	5 903	1 297	1 363	631	2 612
SOME OR ALL ADDED OR INSTALLED	2 362	316	2 045	446	412	236	950
NOT REPORTED	40	7	33	8	2	2	21
OTHER INSULATION:							
NONE ADDED OR INSTALLED	8 177	1 035	7 142	1 572	1 614	793	3 163
SOME OR ALL ADDED OR INSTALLED	984	179	805	172	159	74	399
NOT REPORTED	41	6	34	8	3	2	21
RENTER OCCUPIED	995	70	925	119	90	85	631
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	165	4	160	20	21	15	104
SOME OR ALL WINDOWS COVERED	778	61	717	91	63	61	502
NONE INSTALLED	677	54	624	88	52	58	425
SOME OR ALL INSTALLED	96	7	89	2	11	3	73
NOT REPORTED	5	-	5	1	-	-	4
NOT REPORTED	52	4	48	8	5	9	26
STORM DOORS:							
NO DOORS COVERED	234	20	214	29	18	7	160
SOME OR ALL DOORS COVERED	710	45	665	82	67	71	445
NONE INSTALLED	662	43	620	77	60	67	416
SOME OR ALL INSTALLED	36	2	34	2	7	2	22
NOT REPORTED	11	-	11	2	-	2	7
NOT REPORTED	51	4	47	8	5	7	26
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	230	7	224	13	9	13	189
WITH ATTIC OR ROOF INSULATION	502	39	463	67	59	49	288
NONE ADDED OR INSTALLED	453	38	415	62	55	42	255
SOME OR ALL ADDED OR INSTALLED	43	1	42	4	3	5	30
NOT REPORTED	6	1	6	1	-	2	3
DON'T KNOW	212	19	193	31	16	17	129
NOT REPORTED	50	4	46	8	6	7	25
WALL INSULATION:							
NONE ADDED OR INSTALLED	881	61	819	107	82	72	559
SOME OR ALL ADDED OR INSTALLED	44	4	41	2	3	2	33
NOT REPORTED	69	4	65	10	5	11	40

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED--CONTINUED							
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	786	54	732	102	73	65	492
SOME OR ALL ADDED OR INSTALLED	137	11	127	5	12	9	100
NOT REPORTED	71	4	67	11	5	11	40
OTHER INSULATION:							
NONE ADDED OR INSTALLED	885	61	824	104	83	72	564
SOME OR ALL ADDED OR INSTALLED	42	4	38	4	2	2	30
NOT REPORTED	68	4	63	10	5	11	38
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	9 201	1 220	7 981	1 752	1 777	869	3 584
NO INSULATION ADDED OR INSTALLED	5 550	681	4 869	1 070	1 107	546	2 147
WITH INSULATION ADDED OR INSTALLED	3 538	522	3 017	657	657	315	1 388
LESS THAN $50	1 476	226	1 250	301	272	120	557
$50 TO $99	353	50	303	54	69	31	149
$100 TO $249	549	97	451	99	103	46	204
$250 TO $499	434	59	375	95	70	50	160
$500 TO $999	256	32	223	38	47	23	115
$1,000 OR MORE	267	29	238	34	62	24	118
DON'T KNOW	135	26	110	23	18	15	53
NOT REPORTED	70	2	67	14	17	6	31
MEDIAN	76	70	77	58	78	92	81
NOT REPORTED OR DON'T KNOW	112	17	95	25	13	9	49
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	250	24	225	52	46	20	107
LESS THAN $50	101	8	93	15	20	9	50
$50 TO $99	11	2	9	-	3	-	6
$100 TO $249	39	2	36	11	8	-	17
$250 TO $499	32	4	28	13	1	8	6
$500 TO $999	22	4	18	6	1	-	12
$1,000 OR MORE	22	1	21	4	10	2	5
DON'T KNOW	11	1	10	-	4	1	5
NOT REPORTED	12	2	11	3	1	1	6
MEDIAN	103	...	103	228	69	...	50-
ONLY INSTALLED STORM DOORS	125	35	89	22	24	6	38
LESS THAN $50	10	4	6	2	-	-	4
$50 TO $99	23	8	15	6	5	-	3
$100 TO $249	54	17	37	8	10	3	15
$250 TO $499	18	6	12	3	2	1	5
$500 TO $999	5	-	5	-	4	-	2
$1,000 OR MORE	-	-	-	-	-	-	-
DON'T KNOW	3	-	3	-	1	1	2
NOT REPORTED	12	-	12	2	2	1	7
MEDIAN	161	147	168	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	310	35	275	58	68	24	125
LESS THAN $50	40	6	34	4	6	1	23
$50 TO $99	37	5	33	4	13	3	13
$100 TO $249	98	14	84	26	15	8	35
$250 TO $499	44	9	36	11	10	2	12
$500 TO $999	32	1	31	7	7	4	13
$1,000 OR MORE	33	-	33	4	11	2	16
DON'T KNOW	13	1	12	-	2	3	8
NOT REPORTED	12	-	12	2	4	2	5
MEDIAN	199	...	204	215	219	...	186

TABLE 8-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	8 307	47	590	1 554	1 738	1 357	994	1 033	408	452	126	8	41
HOUSE HEATING FUEL													
ELECTRICITY	499	-	5	20	30	35	38	116	84	132	38	-	81
OTHER THAN ELECTRICITY	7 807	47	585	1 533	1 708	1 323	955	916	324	320	88	8	40
UTILITY GAS	3 629	24	311	779	774	638	400	376	139	150	34	3	38
BOTTLED, TANK, OR LP GAS	55	2	6	14	7	12	3	8	-	3	-	-	38
FUEL OIL	3 888	18	249	682	875	634	520	512	179	163	52	3	42
KEROSENE, ETC	30	-	4	6	5	3	5	6	-	-	1	-	...
COAL OR COKE	81	1	8	30	20	8	7	4	-	2	-	2	30
WOOD	121	3	6	22	26	27	19	10	6	2	1	-	41
SOLAR HEAT	2	-	-	-	-	1	1	-	-	-	-	-	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	-
NONE	1	-	-	-	-	-	-	1	-	-	-	-	...
WATER HEATING FUEL[3]													
ELECTRICITY	1 729	4	29	182	301	264	235	303	163	199	50	-	53
OTHER FUEL	6 525	40	555	1 352	1 430	1 090	757	727	242	252	75	5	38
NONE	10	2	2	3	-	3	-	-	-	-	-	-	...
COOKING FUEL													
ELECTRICITY	4 284	11	164	639	883	738	540	643	274	295	97	-	45
OTHER FUEL	4 023	37	426	914	855	620	454	390	135	157	29	8	37
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	418	-	-	5	13	24	31	106	81	122	35	-	87
ALL OTHER FUEL COMBINATIONS	4 125	11	176	678	931	761	551	564	203	186	65	-	43
NONE	3 763	37	414	871	794	571	412	363	125	143	26	8	36
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 733	21	276	747	854	637	445	396	167	150	40	-	39
HEAT PUMP	56	-	-	1	2	5	2	11	9	16	10	-	95
STEAM OR HOT WATER	3 715	17	257	699	790	620	480	488	147	168	44	4	41
BUILT-IN ELECTRIC UNITS	370	-	1	10	13	25	27	94	69	104	28	-	84
FLOOR, WALL, OR PIPELESS FURNACE	65	4	12	22	9	8	2	5	2	1	-	-	27
ROOM HEATERS WITH FLUE	94	2	23	21	13	11	4	11	2	3	2	-	29
ROOM HEATERS WITHOUT FLUE	7	-	4	2	1	1	-	-	-	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	266	3	16	52	56	50	34	27	12	10	2	3	41
NONE	1	-	-	-	-	-	-	1	-	-	-	-	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	8 306	47	590	1 554	1 738	1 357	994	1 032	408	452	126	8	41
WITH FIREPLACE OR HEATING STOVE	4 079	16	200	650	800	675	525	601	229	285	94	4	45
IN WORKING ORDER	3 866	13	181	599	750	638	504	585	223	277	92	4	45
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	3 227	8	107	466	629	542	442	518	189	244	82	2	47
ALL PURCHASED	1 049	4	38	149	178	167	146	179	68	90	28	1	48
SOME OR NONE PURCHASED	2 142	3	69	311	443	366	289	335	120	152	54	1	46
NOT REPORTED	36	-	-	6	8	9	7	3	2	2	-	-	45
COAL	48	2	4	11	9	7	4	7	-	3	-	1	36
OTHER FUEL	151	4	29	41	34	20	11	4	6	1	-	-	30
NONE	431	-	40	78	75	68	47	56	27	30	10	-	43
NOT REPORTED	10	-	1	3	3	1	-	-	-	-	-	2	...
NOT IN WORKING ORDER	205	3	15	51	49	36	20	16	5	9	2	-	36
NOT REPORTED	8	-	3	-	1	2	-	-	2	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	4 210	32	390	900	937	675	469	431	177	165	31	3	38
NOT REPORTED	17	-	-	3	2	7	-	-	2	2	2	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	-	-	-	-	1	-	-	-	-	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	267	3	16	52	56	50	34	28	12	10	2	3	41
WITH SELECTED HEATING EQUIPMENT[4]	8 040	44	574	1 502	1 682	1 307	959	1 005	397	442	124	4	41
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 183	40	546	1 365	1 488	1 138	855	897	355	388	107	4	41
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	843	3	28	137	190	163	103	108	41	53	17	-	43
SOLAR HEATING EQUIPMENT	5	-	-	-	-	2	1	1	-	-	1	-	...
STOVE, BURNING WOOD OR COAL	350	1	11	33	92	71	37	53	28	18	5	-	45
FIREPLACE, BURNING WOOD OR COAL	81	-	3	7	14	10	17	19	5	5	2	-	54
PORTABLE ELECTRIC HEATER	281	1	11	53	65	55	36	25	9	20	6	-	42
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	84	2	4	23	19	15	7	8	-	5	1	-	36
OTHER	76	-	-	24	9	18	8	9	-	7	2	-	43
NOT REPORTED	14	-	-	-	5	5	2	-	-	2	-	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	8 158	41	577	1 518	1 718	1 343	977	1 010	403	444	121	5	41
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	28	-	2	4	5	-	4	7	2	3	2	-	...
NOT REPORTED	63	3	5	12	8	9	9	12	-	3	1	-	43

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	4 300	8	166	619	818	759	597	648	267	320	95	3	46
ROOM UNITS	3 479	8	157	566	712	649	490	477	171	200	47	2	44
1	1 844	7	125	368	414	333	205	232	65	81	16	-	40
2	1 041	-	27	155	208	209	172	154	46	52	15	2	46
3	372	-	5	37	67	63	70	49	34	37	11	-	52
4	156	-	-	7	18	33	26	32	19	19	2	-	57
5 OR MORE	65	1	-	-	5	11	16	9	7	11	4	-	58
CENTRAL SYSTEM	821	-	8	52	105	110	107	172	95	121	48	2	63
WITH NO AIR CONDITIONING	4 007	40	424	935	920	598	397	384	142	131	31	4	36
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	821	-	8	52	105	110	107	172	95	121	48	2	63
WITH SUPPLEMENTAL EQUIPMENT USED	416	-	3	19	53	59	62	87	46	64	21	2	62
INDIVIDUAL ROOM AIR CONDITIONING UNIT	32	-	-	2	3	7	5	4	4	2	5	-	...
AWNINGS	74	-	1	5	15	13	13	13	4	9	-	-	52
DEHUMIDIFIER	133	-	2	5	16	22	18	27	15	19	7	2	62
CEILING FAN	20	-	-	-	3	2	8	3	1	3	-	-	...
ATTIC FAN	203	-	-	9	21	24	31	47	24	31	15	-	67
WINDOW FAN	29	-	-	-	8	3	2	8	6	2	1	-	...
PORTABLE FAN	89	-	1	5	12	21	17	12	5	15	1	-	53
WITH NO SUPPLEMENTAL EQUIPMENT USED	359	-	6	29	46	43	37	74	46	52	26	-	65
NOT REPORTED	46	-	-	4	6	8	8	11	3	4	1	-	55
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 486	47	582	1 501	1 633	1 247	886	861	313	331	79	6	39
PERSONS													
1 PERSON	986	34	240	309	196	89	46	44	12	14	2	2	26
2 PERSONS	2 433	10	227	620	577	353	259	225	77	65	17	3	36
3 PERSONS	1 556	3	69	258	381	284	195	181	72	88	25	-	42
4 PERSONS	1 722	-	34	218	345	325	240	281	124	119	34	2	47
5 PERSONS	975	-	9	90	153	181	163	185	67	100	25	1	53
6 PERSONS	406	-	4	38	69	90	44	75	33	37	15	-	50
7 PERSONS OR MORE	229	-	7	20	17	36	47	41	23	30	7	-	56
MEDIAN	3.0	1.5-	1.7	2.3	2.8	3.3	3.5	3.7	3.8	4.0	4.0	...	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	6 963	32	450	1 272	1 451	1 142	859	890	342	399	119	6	42
SOME WINDOWS COVERED	1 026	8	93	231	231	156	102	112	50	36	6	2	37
NO WINDOWS COVERED	300	6	46	47	54	50	32	31	17	16	1	-	38
NOT REPORTED	18	1	2	4	1	9	1	-	-	-	-	-	...
STORM DOORS													
ALL DOORS COVERED	6 658	34	482	1 246	1 423	1 112	799	811	316	340	89	5	41
SOME DOORS COVERED	1 095	12	62	209	217	180	128	137	56	70	22	2	42
NO DOORS COVERED	536	1	44	91	96	59	66	85	37	41	16	1	45
NOT REPORTED	18	1	2	8	1	6	1	-	-	-	-	-	...
ATTIC OR ROOF INSULATION													
YES	7 072	29	416	1 293	1 492	1 157	859	915	363	416	125	8	42
NO	953	17	135	203	192	151	112	85	29	26	2	-	36
DON'T KNOW	262	1	37	51	52	42	22	31	17	11	-	-	37
NOT REPORTED	20	1	2	7	1	7	1	2	-	-	-	-	...
SPECIFIED RENTER OCCUPIED[3]	6 728	217	1 452	1 548	916	452	238	202	39	60	27	1 578	25
HOUSE HEATING FUEL													
ELECTRICITY	524	4	42	49	68	63	24	67	9	32	8	158	43
OTHER THAN ELECTRICITY	6 200	213	1 409	1 499	847	389	214	135	30	28	19	1 417	25
UTILITY GAS	2 525	81	652	581	322	157	73	54	10	15	8	573	24
BOTTLED, TANK, OR LP GAS	38	1	15	10	5	5	1	-	-	-	1	-	23
FUEL OIL	3 542	125	723	897	499	216	134	76	19	14	10	830	25
KEROSENE, ETC	28	4	4	7	7	1	2	1	-	-	-	2	...
COAL OR COKE	29	2	2	5	8	7	1	2	-	-	-	3	...
WOOD	25	1	8	-	7	2	2	1	1	-	-	5	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	5	-	-	2	2	2	-	-	-	3	...
NONE	5	-	2	-	-	-	-	-	-	-	-	3	...
WATER HEATING FUEL[4]													
ELECTRICITY	905	26	107	123	126	106	62	83	13	29	9	221	36
OTHER FUEL	5 739	183	1 336	1 408	784	338	175	119	26	31	17	1 321	24
NONE	26	3	2	-	2	2	-	-	-	-	-	18	...
COOKING FUEL													
ELECTRICITY	1 740	49	317	314	230	159	89	107	12	36	12	415	29
OTHER FUEL	4 924	165	1 132	1 233	684	293	149	96	27	24	15	1 106	24
NONE	65	2	3	2	2	-	-	-	-	-	-	57	...

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE B-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	404	2	29	32	52	51	23	64	8	23	6	114	45
ALL OTHER FUEL COMBINATIONS	1 563	53	320	324	212	132	80	47	6	23	7	360	26
NONE	4 761	161	1 103	1 192	651	269	136	92	26	14	14	1 104	24
HEATING EQUIPMENT													
WARM-AIR FURNACE	1 492	40	340	321	211	131	71	49	17	17	9	287	26
HEAT PUMP	18	-	1	2	3	5	1	2	-	1	-	4	...
STEAM OR HOT WATER	4 254	143	922	1 064	562	233	132	90	12	15	9	1 074	24
BUILT-IN ELECTRIC UNITS	450	3	37	38	56	55	21	59	9	25	7	139	43
FLOOR, WALL, OR PIPELESS FURNACE	48	1	11	14	7	6	5	1	-	-	-	3	26
ROOM HEATERS WITH FLUE	348	23	112	83	53	12	6	1	-	2	2	55	21
ROOM HEATERS WITHOUT FLUE	38	4	9	14	5	2	2	-	-	-	-	3	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	75	3	19	12	18	9	2	2	1	-	1	9	28
NONE	5	-	2	-	-	-	-	-	-	-	-	3	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	6 724	217	1 451	1 548	916	452	238	202	39	60	27	1 575	25
WITH FIREPLACE OR HEATING STOVE	665	25	149	171	108	50	27	19	6	8	4	98	26
IN WORKING ORDER	524	23	119	125	91	36	22	18	4	8	4	75	26
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	210	1	35	38	44	15	14	15	4	5	3	35	33
ALL PURCHASED	76	1	16	7	16	2	4	8	2	5	1	13	34
SOME OR NONE PURCHASED	124	-	17	27	26	12	10	6	2	1	2	20	33
NOT REPORTED	9	-	2	3	2	1	-	-	-	-	-	2	...
COAL	7	2	2	2	-	1	-	-	-	-	-	1	...
OTHER FUEL	249	20	68	74	39	13	3	3	-	2	-	27	23
NONE	54	1	14	11	4	6	4	-	-	1	1	12	25
NOT REPORTED	4	-	-	-	3	-	1	-	-	-	-	-	...
NOT IN WORKING ORDER	132	2	30	41	15	14	3	2	2	-	-	23	25
NOT REPORTED	10	-	1	5	2	1	2	-	-	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	6 041	192	1 300	1 372	805	400	210	183	32	52	23	1 472	25
NOT REPORTED	18	-	2	5	3	2	2	-	-	-	-	5	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	2	-	-	-	-	-	-	-	-	3	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	80	3	21	12	18	9	2	2	1	-	1	12	28
WITH SELECTED HEATING EQUIPMENT[3]	6 649	214	1 431	1 536	898	443	237	201	38	60	26	1 566	25
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 165	204	1 342	1 425	818	399	215	184	31	54	23	1 470	25
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	462	8	81	107	78	42	22	15	8	6	3	92	28
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	16	-	1	2	-	2	2	5	1	-	-	2	...
FIREPLACE, BURNING WOOD OR COAL	6	-	-	-	2	-	2	-	-	-	-	3	...
PORTABLE ELECTRIC HEATER	404	8	75	93	68	40	15	10	5	6	3	81	28
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	18	-	3	2	5	1	2	-	2	1	-	2	...
OTHER	21	-	2	9	5	-	2	-	-	-	-	3	...
NOT REPORTED	22	2	8	3	2	2	-	2	-	-	-	4	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 554	207	1 420	1 512	894	441	236	200	39	60	26	1 520	25
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	-	3	5	2	2	-	1	-	-	-	7	...
NOT REPORTED	70	2	21	15	14	2	2	2	-	-	-	14	24
AIR CONDITIONING													
WITH AIR CONDITIONING	2 567	58	472	616	442	256	147	123	17	34	17	384	28
ROOM UNITS	2 214	57	434	568	383	204	124	89	13	17	9	317	27
1	1 512	44	343	410	244	110	68	46	9	10	7	223	26
2	570	13	84	133	115	75	39	36	3	2	1	69	32
3	96	-	5	20	18	13	16	3	2	3	2	15	38
4	21	-	2	3	7	6	2	-	-	-	-	2	...
5 OR MORE	15	-	-	2	-	-	-	3	-	2	-	8	...
CENTRAL SYSTEM	353	2	39	47	59	52	23	34	4	17	8	68	38
WITH NO AIR CONDITIONING	4 161	158	980	932	474	196	91	80	22	26	10	1 194	23
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	353	2	39	47	59	52	23	34	4	17	8	68	38
WITH SUPPLEMENTAL EQUIPMENT USED	73	2	9	11	6	15	6	2	-	2	3	16	40
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	2	-	5	-	5	1	-	-	-	-	15	...
AWNINGS	-	-	-	-	-	-	-	-	-	-	-	-	-
DEHUMIDIFIER	2	-	-	-	-	2	-	-	-	-	-	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	2	-	-	2	-	-	-	-	-	-	-	-	...
WINDOW FAN	6	-	2	2	-	2	1	-	-	-	-	-	...
PORTABLE FAN	38	-	8	3	6	9	4	2	-	2	3	2	42
WITH NO SUPPLEMENTAL EQUIPMENT USED	263	-	29	33	48	35	17	32	4	15	5	45	39
NOT REPORTED	17	-	-	3	6	2	-	-	-	-	-	7	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 376	215	1 413	1 500	857	400	215	169	35	43	19	1 510	25

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE 8-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	2 514	130	737	508	205	100	33	26	3	5	7	760	20
2 PERSONS	1 989	61	452	492	297	142	74	55	5	20	4	386	25
3 PERSONS	1 030	15	161	270	175	88	50	40	14	17	7	193	28
4 PERSONS	666	3	59	172	131	71	41	49	7	12	4	116	33
5 PERSONS	302	7	28	65	60	23	26	22	2	1	1	67	33
6 PERSONS	132	-	8	25	29	15	5	11	5	3	1	30	35
7 PERSONS OR MORE	96	-	6	14	18	13	9	1	2	3	3	26	37
MEDIAN	1.9	1.5-	1.5-	2.0	2.3	2.4	2.7	3.0	3.3	2.8	...	1.6	...
SPECIFIED RENTER OCCUPIED[2]	6 728	217	1 452	1 548	916	452	238	202	39	60	27	1 578	25
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	940	19	151	208	183	88	62	55	15	18	8	134	31
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	558	12	80	119	110	56	39	34	8	13	5	81	32
SOME WINDOWS COVERED	175	2	28	45	38	16	12	13	3	3	2	13	31
NO WINDOWS COVERED	155	1	35	29	30	13	7	8	5	-	1	26	29
NOT REPORTED	52	5	7	14	5	3	3	-	-	1	-	14	25
STORM DOORS													
ALL DOORS COVERED	530	12	86	125	98	45	29	36	8	8	4	79	30
SOME DOORS COVERED	142	2	21	36	33	15	14	-	2	3	4	13	32
NO DOORS COVERED	217	1	36	33	49	25	15	19	6	4	-	29	34
NOT REPORTED	50	5	7	13	3	3	3	-	-	2	-	14	24
ATTIC OR ROOF INSULATION													
YES	464	10	57	101	93	53	32	33	7	10	5	61	33
NO	219	-	38	57	53	21	16	6	2	3	-	23	30
DON'T KNOW	207	4	46	38	34	10	11	15	7	4	2	37	28
NOT REPORTED	50	5	10	11	3	3	3	-	-	1	-	14	23

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	8 307	503	402	320	361	249	640	750	1 221	668	366	2 826	43
HOUSE HEATING FUEL													
GAS	3 684	100	47	76	141	128	497	667	1 103	610	316	-	53
UTILITY GAS	3 629	99	44	75	135	125	489	662	1 091	602	307	-	53
BOTTLED, TANK, OR LP GAS	55	1	2	2	6	3	7	5	12	8	9	-	53
OTHER THAN GAS	4 622	404	355	244	221	121	143	84	117	58	50	2 826	17
FUEL OIL	3 888	365	334	230	197	105	130	68	93	51	41	2 274	17
KEROSENE, ETC	30	4	6	2	1	1	2	1	1	2	1	10	...
ELECTRICITY	499	9	2	4	6	7	5	11	21	3	7	424	44
COAL OR COKE	81	12	7	4	10	4	1	-	2	1	2	40	17
WOOD	121	14	6	6	7	3	5	3	2	1	-	76	17
SOLAR HEAT	2	-	-	-	-	-	-	-	-	-	-	2	-
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	-
NONE	1	-	-	-	-	1	-	-	-	-	-	-	...
WATER HEATING FUEL[3]													
GAS	4 210	115	159	188	259	190	567	683	1 115	609	323	-	48
UTILITY GAS	4 017	106	127	161	227	169	544	669	1 102	597	316	-	50
BOTTLED, TANK, OR LP GAS	193	9	32	27	33	21	24	14	13	13	7	-	23
OTHER FUEL	4 045	379	238	127	98	59	69	66	102	58	43	2 806	15
NONE	10	2	2	1	1	-	-	-	2	-	-	2	...
COOKING FUEL													
GAS	3 997	395	343	269	271	183	454	542	820	473	249	-	41
UTILITY GAS	3 494	244	229	214	221	151	426	525	799	452	232	-	44
BOTTLED, TANK, OR LP GAS	503	151	113	54	49	32	28	16	21	21	16	-	14
OTHER FUEL	4 310	108	59	52	91	67	185	209	401	195	117	2 826	48
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 408	47	17	39	96	76	337	467	713	418	198	-	53
ALL OTHER FUEL COMBINATIONS	2 953	401	371	275	255	169	296	274	500	246	166	-	30
NONE	2 945	56	14	6	10	4	7	9	8	4	2	2 826	11
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 733	156	152	132	163	136	395	508	775	332	181	804	46
HEAT PUMP	56	-	-	-	2	-	-	2	2	3	-	48	...
STEAM OR HOT WATER	3 715	300	224	165	168	93	203	202	394	312	176	1 478	37
BUILT-IN ELECTRIC UNITS	370	7	2	2	2	3	2	8	6	-	-	336	...
FLOOR, WALL, OR PIPELESS FURNACE	65	1	1	3	5	6	11	11	12	9	2	5	43
ROOM HEATERS WITH FLUE	94	7	5	3	6	4	12	10	23	4	4	16	42
ROOM HEATERS WITHOUT FLUE	7	3	1	-	-	-	-	-	2	2	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	266	30	18	16	15	7	16	9	7	6	3	139	20
NONE	1	-	-	-	-	1	-	-	-	-	-	-	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	8 306	503	402	320	361	249	640	750	1 221	668	366	2 826	43
WITH FIREPLACE OR HEATING STOVE	4 079	238	167	124	146	98	213	265	520	301	200	1 806	45
IN WORKING ORDER	3 866	225	152	117	139	93	198	242	482	284	186	1 748	45
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	3 227	190	123	88	104	72	142	199	398	218	155	1 539	46
ALL PURCHASED	1 049	50	32	31	43	29	42	62	155	72	61	472	49
SOME OR NONE PURCHASED	2 142	137	91	56	61	40	92	130	243	146	91	1 054	45
NOT REPORTED	36	3	-	-	-	3	7	7	-	-	3	13	...
COAL	48	2	2	2	4	3	5	1	3	2	3	21	...
OTHER FUEL	151	8	7	7	12	9	22	14	25	13	3	31	37
NONE	431	24	19	20	18	9	30	29	54	51	25	152	46
NOT REPORTED	10	2	1	-	-	-	-	-	2	-	-	6	...
NOT IN WORKING ORDER	205	14	12	7	8	5	15	23	36	17	13	55	46
NOT REPORTED	8	-	2	-	-	-	-	-	2	-	2	3	...
WITHOUT FIREPLACE OR HEATING STOVE	4 210	265	235	193	214	150	427	483	697	365	166	1 015	42
NOT REPORTED	17	-	-	3	1	-	-	2	4	2	-	5	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	-	-	1	-	-	-	-	-	-	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	267	30	18	16	15	8	16	9	7	6	3	139	20
WITH SELECTED HEATING EQUIPMENT[4]	8 040	473	384	305	346	242	624	741	1 213	662	363	2 687	44
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 183	428	337	267	305	216	580	709	1 119	614	340	2 266	44
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	843	45	46	36	38	26	43	31	91	48	23	417	35
SOLAR HEATING EQUIPMENT	5	-	-	-	-	-	1	-	-	-	-	5	...
STOVE, BURNING WOOD OR COAL	350	19	23	13	14	12	19	8	16	10	5	212	24
FIREPLACE, BURNING WOOD OR COAL	81	-	3	2	4	2	1	3	15	11	4	36	59
PORTABLE ELECTRIC HEATER	281	10	15	9	18	10	15	15	41	21	8	117	43
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	84	9	8	5	3	2	8	1	11	-	4	34	27
OTHER	76	6	2	9	3	-	-	4	13	6	2	33	47
NOT REPORTED	14	-	2	2	3	-	-	1	3	-	-	3	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	8 158	491	389	309	354	249	629	737	1 194	663	361	2 781	43
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	28	3	3	-	2	-	4	5	2	-	3	7	...
NOT REPORTED	63	-	4	6	2	-	3	7	22	3	3	13	52

[1] RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	4 300	222	201	172	191	131	336	390	689	379	236	1 352	45
ROOM UNITS	3 479	205	188	161	161	105	277	282	520	295	164	1 122	43
1	1 844	113	78	79	81	54	149	164	255	136	81	655	42
2	1 041	50	78	49	51	29	83	71	182	100	31	316	43
3	372	25	22	25	14	14	31	29	52	35	25	101	42
4	156	13	4	7	7	9	10	14	24	17	21	31	48
5 OR MORE	65	4	6	2	7	-	4	3	7	6	7	19	42
CENTRAL SYSTEM	821	16	14	11	31	26	60	109	169	84	72	229	53
WITH NO AIR CONDITIONING	4 007	282	201	148	170	118	303	360	532	289	130	1 474	41
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	821	16	14	11	31	26	60	109	169	84	72	229	53
WITH SUPPLEMENTAL EQUIPMENT USED	416	4	7	7	21	14	35	61	85	41	31	111	51
INDIVIDUAL ROOM AIR CONDITIONING UNIT	32	-	-	-	-	1	3	-	12	3	3	11	...
AWNINGS	74	1	2	4	5	5	11	17	12	4	3	9	42
DEHUMIDIFIER	133	2	2	3	9	9	14	26	26	10	7	26	45
CEILING FAN	20	-	-	-	2	4	-	-	6	2	-	7	...
ATTIC FAN	203	2	4	2	6	4	11	30	40	26	15	63	55
WINDOW FAN	29	-	-	2	-	4	2	2	8	3	-	10	...
PORTABLE FAN	89	-	3	-	3	5	8	12	15	9	12	21	53
WITH NO SUPPLEMENTAL EQUIPMENT USED	359	11	3	4	8	12	25	40	73	39	37	105	56
NOT REPORTED	46	1	3	-	2	-	-	8	11	4	3	14	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 486	487	388	309	331	223	580	642	1 052	583	294	2 596	42
PERSONS													
1 PERSON	986	101	75	67	34	40	102	79	118	50	21	299	32
2 PERSONS	2 433	152	123	111	125	77	202	239	342	159	71	833	40
3 PERSONS	1 556	92	74	53	64	54	121	144	230	103	60	561	43
4 PERSONS	1 722	84	74	43	58	36	111	166	294	159	93	603	48
5 PERSONS	975	43	36	25	41	22	56	89	145	114	63	341	51
6 PERSONS	406	19	9	17	29	14	28	23	62	49	29	126	50
7 PERSONS OR MORE	229	11	11	5	10	7	20	11	29	33	29	63	55
MEDIAN	3.0	2.5	2.5	2.3	2.8	2.6	2.6	2.9	3.1	3.6	3.8	3.0	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	6 963	433	325	262	304	208	529	625	987	529	282	2 481	43
SOME WINDOWS COVERED	1 026	59	69	36	47	35	82	94	165	113	56	271	45
NO WINDOWS COVERED	300	11	8	19	11	7	27	30	67	22	27	71	50
NOT REPORTED	18	-	1	3	-	-	2	1	2	4	2	3	...
STORM DOORS													
ALL DOORS COVERED	6 658	398	302	247	290	202	528	632	999	526	269	2 266	43
SOME DOORS COVERED	1 095	73	71	43	47	37	74	82	142	96	62	369	42
NO DOORS COVERED	536	33	28	27	23	11	35	36	78	42	36	186	44
NOT REPORTED	18	-	1	3	2	-	2	1	2	3	-	4	...
ATTIC OR ROOF INSULATION													
YES	7 072	411	325	242	271	203	500	649	1 012	556	295	2 610	44
NO	953	74	66	60	66	37	108	69	164	89	59	159	38
DON'T KNOW	262	18	10	15	25	9	30	30	41	18	12	53	38
NOT REPORTED	20	-	1	3	-	-	2	2	3	4	-	4	...
SPECIFIED RENTER OCCUPIED[3]	6 728	1 138	594	356	291	180	252	223	271	145	74	3 204	15
HOUSE HEATING FUEL													
GAS	2 563	264	178	128	113	109	171	189	239	120	62	989	29
UTILITY GAS	2 525	261	175	125	109	109	165	186	233	120	57	985	29
BOTTLED, TANK, OR LP GAS	38	3	2	3	4	-	7	3	5	-	5	5	...
OTHER THAN GAS	4 161	874	415	228	177	71	81	34	32	24	12	2 212	11
FUEL OIL	3 542	835	397	218	173	63	73	28	28	21	11	1 696	11
KEROSENE, ETC	28	7	5	4	1	1	2	-	-	-	-	9	...
ELECTRICITY	524	16	10	4	2	3	6	3	4	3	-	471	14
COAL OR COKE	29	7	3	-	1	3	1	3	-	-	-	11	...
WOOD	25	9	-	2	1	1	-	-	-	-	1	11	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	-	-	-	-	-	-	-	-	-	13	-
NONE	5	-	2	-	-	-	-	-	-	-	-	3	...
WATER HEATING FUEL[4]													
GAS	2 869	320	204	197	179	129	188	198	240	130	70	1 014	26
UTILITY GAS	2 793	312	200	188	163	123	178	196	236	130	62	1 004	26
BOTTLED, TANK, OR LP GAS	77	8	5	9	16	6	10	2	4	-	7	10	23
OTHER FUEL	3 774	808	388	155	109	42	59	22	30	15	3	2 143	10
NONE	26	2	-	-	2	2	2	-	-	-	1	19	...
COOKING FUEL													
GAS	4 876	1 108	565	329	266	156	217	201	240	122	65	1 607	14
UTILITY GAS	4 671	1 032	543	313	247	146	203	193	233	120	52	1 588	14
BOTTLED, TANK, OR LP GAS	204	76	22	16	19	9	14	8	7	2	12	19	13
OTHER FUEL	1 788	31	30	27	25	24	35	22	31	22	9	1 532	28
NONE	65	-	-	-	-	-	-	-	-	-	-	65	-

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE B-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	1 774	171	111	96	90	78	130	160	199	99	52	587	33
ALL OTHER FUEL COMBINATIONS	3 620	953	472	256	197	98	116	63	70	43	22	1 330	12
NONE	1 335	14	11	4	4	3	6	-	2	3	-	1 288	13
HEATING EQUIPMENT													
WARM-AIR FURNACE	1 492	113	79	59	71	59	119	102	114	68	32	677	32
HEAT PUMP	18	2	-	-	2	-	-	-	-	-	-	15	...
STEAM OR HOT WATER	4 254	961	480	263	176	82	75	50	95	44	31	1 996	11
BUILT-IN ELECTRIC UNITS	450	14	8	4	-	2	3	2	2	2	-	414	12
FLOOR, WALL, OR PIPELESS FURNACE	48	3	1	7	6	2	6	13	3	-	-	6	31
ROOM HEATERS WITH FLUE	348	25	20	19	22	26	39	49	53	21	7	67	37
ROOM HEATERS WITHOUT FLUE	38	3	2	-	10	4	3	5	3	3	2	3	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	75	18	2	4	4	5	6	3	2	7	2	22	23
NONE	5	-	2	-	-	-	-	-	-	-	-	3	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	6 724	1 138	593	356	291	180	252	223	271	145	74	3 201	15
WITH FIREPLACE OR HEATING STOVE	665	90	35	36	36	35	40	61	53	35	18	225	28
IN WORKING ORDER	524	62	24	28	28	29	32	51	49	30	12	178	30
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	210	34	12	12	5	5	4	16	8	9	5	101	18
ALL PURCHASED	76	10	4	6	2	3	2	3	2	1	3	39	18
SOME OR NONE PURCHASED	124	22	8	6	3	2	2	11	4	7	2	57	18
NOT REPORTED	9	2	-	-	-	-	-	-	2	2	-	5	...
COAL	7	4	-	-	-	-	-	-	-	-	-	3	...
OTHER FUEL	249	16	5	16	24	19	27	36	40	16	7	44	38
NONE	54	9	6	-	-	3	2	-	1	5	-	29	...
NOT REPORTED	4	-	2	-	-	2	-	-	-	-	-	1	...
NOT IN WORKING ORDER	132	27	11	8	8	4	7	8	4	6	6	44	18
NOT REPORTED	10	2	-	-	-	2	-	2	1	-	-	4	...
WITHOUT FIREPLACE OR HEATING STOVE	6 041	1 046	555	318	254	143	212	161	217	109	55	2 969	14
NOT REPORTED	18	2	3	2	-	2	-	2	-	-	2	7	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	2	-	-	-	-	-	-	-	-	3	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	80	18	4	4	4	5	6	3	2	7	2	25	22
WITH SELECTED HEATING EQUIPMENT[3]	6 649	1 121	590	352	287	175	246	220	269	138	72	3 179	15
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 165	1 038	527	317	243	154	224	198	255	132	68	3 009	15
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	462	76	62	33	42	19	21	22	15	5	4	162	16
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	16	-	2	1	2	-	3	-	-	-	-	9	...
FIREPLACE, BURNING WOOD OR COAL	6	-	-	-	-	-	-	-	-	-	-	6	-
PORTABLE ELECTRIC HEATER	404	70	53	32	39	20	16	21	10	3	4	137	16
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	18	4	-	2	2	1	2	-	2	-	-	6	...
OTHER	21	3	7	-	-	-	-	2	3	2	-	5	...
NOT REPORTED	22	7	2	2	2	2	-	-	-	2	-	8	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 554	1 103	579	350	283	167	246	219	267	141	71	3 128	15
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	3	3	-	-	-	2	-	-	-	-	11	...
NOT REPORTED	70	21	10	2	5	3	-	2	3	3	2	19	12
AIR CONDITIONING													
WITH AIR CONDITIONING	2 567	429	205	118	92	60	99	84	73	45	21	1 341	14
ROOM UNITS	2 214	420	198	115	83	53	87	71	62	39	19	1 066	13
1	1 512	304	129	89	61	45	59	46	47	25	16	689	13
2	570	86	56	18	22	8	24	20	14	12	-	310	13
3	96	23	13	3	-	-	3	3	2	-	2	47	10
4	21	5	-	3	-	-	-	2	-	-	2	10	...
5 OR MORE	15	2	-	2	-	-	-	-	-	2	-	10	...
CENTRAL SYSTEM	353	9	7	3	8	7	12	13	11	6	2	274	34
WITH NO AIR CONDITIONING	4 161	710	389	238	199	120	153	139	198	99	53	1 863	16
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	353	9	7	3	8	7	12	13	11	6	2	274	34
WITH SUPPLEMENTAL EQUIPMENT USED	73	-	-	-	2	1	5	5	-	2	-	59	...
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	-	-	-	-	-	-	3	-	-	-	23	...
AWNINGS	-	-	-	-	-	-	-	-	-	-	-	-	-
DEHUMIDIFIER	2	-	-	-	-	-	-	2	-	-	-	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	2	-	-	-	-	-	-	-	-	2	-	-	...
WINDOW FAN	6	-	-	-	-	-	-	-	-	-	-	6	-
PORTABLE FAN	38	-	-	-	2	1	5	2	-	-	-	29	...
WITH NO SUPPLEMENTAL EQUIPMENT USED	263	7	7	3	7	6	8	5	11	5	2	204	29
NOT REPORTED	17	2	-	-	-	-	-	3	-	-	-	12	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 376	1 130	587	353	282	173	240	210	260	138	73	2 930	15

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	2 514	534	175	90	64	59	74	60	72	27	10	1 350	11
2 PERSONS	1 989	360	188	104	91	53	62	64	58	33	25	952	13
3 PERSONS	1 030	123	112	71	52	25	61	46	61	22	20	435	18
4 PERSONS	666	71	82	44	42	21	35	32	41	32	8	258	21
5 PERSONS	302	37	22	24	23	14	9	11	18	16	8	119	21
6 PERSONS	132	8	9	17	15	5	7	6	8	10	-	46	22
7 PERSONS OR MORE	96	5	7	7	3	3	4	3	13	5	3	43	33
MEDIAN	1.9	1.6	2.1	2.3	2.4	2.1	2.3	2.3	2.6	3.1	2.6	1.8	...
SPECIFIED RENTER OCCUPIED[2]	6 728	1 138	594	356	291	180	252	223	271	145	74	3 204	15
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	940	88	45	49	52	37	63	90	74	47	21	374	32
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	558	58	26	28	33	18	33	45	39	26	7	245	28
SOME WINDOWS COVERED	178	8	13	8	11	10	12	20	21	11	8	52	38
NO WINDOWS COVERED	155	12	2	11	5	6	14	22	13	11	5	54	40
NOT REPORTED	52	9	3	2	3	3	3	3	2	-	1	23	...
STORM DOORS													
ALL DOORS COVERED	530	43	25	26	29	19	34	54	39	23	7	231	32
SOME DOORS COVERED	142	12	5	5	7	6	18	21	11	7	6	45	38
NO DOORS COVERED	217	24	12	16	12	12	7	12	23	17	7	74	27
NOT REPORTED	50	9	3	2	3	-	3	3	2	-	1	24	...
ATTIC OR ROOF INSULATION													
YES	464	44	23	24	26	14	27	35	29	18	10	214	27
NO	219	18	7	13	13	14	17	37	20	13	5	61	37
DON'T KNOW	207	17	12	10	9	8	15	15	23	16	6	76	35
NOT REPORTED	50	9	3	2	3	-	3	3	2	-	1	25	...

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	8 307	180	160	149	215	304	334	391	366	2 373	3 836	800+
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	4 122	54	88	95	161	275	316	364	335	2 247	185	800+
FUEL OIL	3 888	43	72	68	126	247	289	350	315	2 225	152	800+
COAL OR COKE	81	3	2	8	15	16	10	7	10	6	4	463
KEROSENE, ETC	30	1	-	3	3	2	6	1	4	6	2	...
WOOD	121	8	15	15	16	9	10	6	6	9	27	356
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	4 184	125	72	54	54	29	18	27	30	126	3 651	331
UTILITY GAS	3 629	96	57	41	34	25	17	21	24	108	3 208	350
BOTTLED, TANK, OR LP GAS	55	5	3	2	3	-	-	-	2	3	37	...
ELECTRICITY	499	23	12	11	16	4	1	7	5	14	405	298
SOLAR HEAT	2	-	-	-	1	-	-	-	-	-	1	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	1	1	-	-	-	-	-	-	-	-	-	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 733	89	68	68	106	159	189	163	135	589	2 165	663
HEAT PUMP	56	8	-	2	-	2	-	1	-	4	39	...
STEAM OR HOT WATER	3 715	46	39	43	58	115	119	200	210	1 737	1 147	800+
BUILT-IN ELECTRIC UNITS	370	16	8	6	12	1	-	-	4	5	317	232
FLOOR, WALL, OR PIPELESS FURNACE	65	2	4	2	2	1	1	1	3	4	46	...
ROOM HEATERS WITH FLUE	94	5	5	1	1	5	6	6	4	10	53	575
ROOM HEATERS WITHOUT FLUE	7	-	-	-	-	-	-	-	2	3	2	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	266	14	35	28	37	21	18	19	7	21	66	362
NONE	1	1	-	-	-	-	-	-	-	-	-	...
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	8 306	179	160	149	215	304	334	391	366	2 373	3 836	800+
WITH FIREPLACE OR HEATING STOVE	4 079	150	126	119	152	158	171	188	161	1 322	1 532	800+
IN WORKING ORDER	3 866	145	125	116	150	150	165	179	151	1 261	1 423	800+
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	3 227	135	120	105	138	119	138	153	128	1 049	1 142	800+
ALL PURCHASED	1 049	83	48	46	49	30	58	46	47	342	300	730
SOME OR NONE PURCHASED	2 142	51	72	59	86	86	79	104	80	700	824	800+
NOT REPORTED	36	1	-	-	2	2	1	4	2	8	18	...
COAL	48	6	2	1	8	3	3	3	3	12	7	480
OTHER FUEL	151	5	2	6	4	14	7	4	7	30	72	636
NONE	431	-	1	4	-	13	16	19	13	166	199	800+
NOT REPORTED	10	-	-	-	-	1	2	-	1	4	2	...
NOT IN WORKING ORDER	205	5	1	3	2	7	6	9	10	57	106	800+
NOT REPORTED	8	-	-	-	-	-	-	-	-	4	3	...
WITHOUT FIREPLACE OR HEATING STOVE	4 210	29	34	29	64	146	161	202	205	1 039	2 301	800+
NOT REPORTED	17	-	-	-	-	-	2	1	-	11	3	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	1	-	-	-	-	-	-	-	-	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	8 158	177	155	138	204	299	325	377	359	2 350	3 773	800+
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	28	-	-	3	1	-	-	2	1	7	15	...
NOT REPORTED	63	2	-	1	6	-	4	7	1	9	33	...
AIR CONDITIONING												
WITH AIR CONDITIONING	4 300	85	71	62	80	146	139	158	183	1 271	2 105	800+
ROOM UNITS	3 479	55	58	52	65	127	123	140	165	1 156	1 937	800+
1	1 844	37	34	37	48	86	70	82	88	567	795	800+
2	1 041	11	16	12	17	28	29	39	62	354	471	800+
3	372	1	6	2	1	10	13	11	11	150	168	800+
4	156	4	-	2	-	3	4	4	4	59	76	800+
5 OR MORE	65	2	2	-	-	1	6	3	-	25	26	800+
CENTRAL SYSTEM	821	30	13	9	15	18	16	18	18	115	569	739
WITH NO AIR CONDITIONING	4 007	95	89	87	135	158	195	233	183	1 102	1 731	779
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	821	30	13	9	15	18	16	18	18	115	569	739
WITH SUPPLEMENTAL EQUIPMENT USED	416	18	7	8	7	10	6	12	7	60	281	694
INDIVIDUAL ROOM AIR CONDITIONING UNIT	32	2	2	2	-	1	-	-	-	8	17	...
AWNINGS	74	2	-	2	2	-	-	1	2	10	56	...
DEHUMIDIFIER	133	5	3	3	3	1	6	4	2	13	92	586
CEILING FAN	20	-	-	2	-	2	2	-	-	4	10	...
ATTIC FAN	203	13	2	7	5	3	3	7	3	30	130	646
WINDOW FAN	29	-	-	3	-	4	-	1	2	2	17	...
PORTABLE FAN	89	2	1	2	1	3	3	-	1	11	67	...
WITH NO SUPPLEMENTAL EQUIPMENT USED	359	12	6	1	6	9	6	4	10	53	253	795
NOT REPORTED	46	-	-	-	2	-	4	2	1	3	35	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 486	150	147	140	201	285	318	374	348	2 257	3 267	800+
PERSONS												
1 PERSON	986	13	11	11	26	45	59	57	54	269	440	793
2 PERSONS	2 433	39	46	46	63	122	91	118	119	665	1 124	800+
3 PERSONS	1 556	35	23	29	50	40	77	80	69	462	691	800+
4 PERSONS	1 722	48	34	37	37	43	66	72	68	470	848	800+
5 PERSONS	975	29	29	19	26	33	26	34	34	307	438	800+
6 PERSONS	406	6	10	3	8	20	11	22	12	124	191	800+
7 PERSONS OR MORE	229	9	8	4	6	1	5	8	10	75	104	800+
MEDIAN	3.0	3.5	3.5	3.1	2.9	2.4	2.7	2.8	2.6	3.0	3.0	...

[1] RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	6 963	152	131	132	186	260	284	317	312	2 002	3 187	800+
SOME WINDOWS COVERED	1 026	22	23	12	25	38	39	60	41	295	469	800+
NO WINDOWS COVERED	300	6	6	4	5	6	9	13	11	71	170	800+
NOT REPORTED	18	-	-	-	-	-	2	1	2	4	9	...
STORM DOORS												
ALL DOORS COVERED	6 658	131	118	114	171	235	260	323	304	1 861	3 140	800+
SOME DOORS COVERED	1 095	31	26	29	30	52	51	35	45	343	453	800+
NO DOORS COVERED	536	18	16	6	14	15	21	32	15	163	236	800+
NOT REPORTED	18	-	-	-	-	2	2	1	2	6	7	...
ATTIC OR ROOF INSULATION												
YES	7 072	166	140	130	186	265	286	338	316	2 024	3 221	800+
NO	953	12	16	16	24	30	35	42	41	260	477	800+
DON'T KNOW	262	2	4	2	5	7	11	11	7	83	131	800+
NOT REPORTED	20	-	-	-	-	2	2	1	2	6	8	...
SPECIFIED RENTER OCCUPIED[3]	6 728	85	60	39	58	64	53	68	80	287	5 936	655
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	3 624	65	49	31	51	61	47	61	71	271	2 917	681
FUEL OIL	3 542	60	45	22	45	51	40	56	66	260	2 897	704
COAL OR COKE	29	-	2	4	2	2	2	2	2	5	8	...
KEROSENE, ETC	28	2	1	1	3	4	4	2	4	5	4	...
WOOD	25	3	1	4	1	5	1	1	-	2	8	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	3 100	19	11	8	7	2	6	7	9	16	3 014	363
UTILITY GAS	2 525	16	10	7	5	2	4	7	6	14	2 453	352
BOTTLED, TANK, OR LP GAS	38	2	1	1	-	1	2	-	-	-	31	...
ELECTRICITY	524	2	1	-	2	-	-	-	2	2	516	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	-	-	-	-	-	-	-	-	13	-
NONE	5	-	-	-	-	-	-	-	-	-	5	-
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 492	12	12	13	31	28	21	25	39	77	1 235	647
HEAT PUMP	18	-	-	-	-	-	-	-	-	-	18	-
STEAM OR HOT WATER	4 254	64	41	17	20	24	21	37	36	189	3 806	702
BUILT-IN ELECTRIC UNITS	450	2	1	-	1	-	-	-	2	2	443	...
FLOOR, WALL, OR PIPELESS FURNACE	48	1	-	1	-	-	1	2	2	6	36	...
ROOM HEATERS WITH FLUE	348	2	5	2	4	6	4	3	1	10	313	502
ROOM HEATERS WITHOUT FLUE	38	-	-	1	-	-	2	-	-	-	36	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	75	5	2	6	1	7	4	1	1	3	45	...
NONE	5	-	-	-	-	-	-	-	-	-	5	-
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	6 724	85	60	39	58	64	53	68	80	287	5 931	655
WITH FIREPLACE OR HEATING STOVE	665	11	16	12	13	19	17	18	16	63	479	625
IN WORKING ORDER	524	11	13	10	13	18	14	13	14	51	366	592
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	210	4	10	7	8	14	7	6	12	33	109	610
ALL PURCHASED	76	3	6	3	2	4	5	2	7	10	35	577
SOME OR NONE PURCHASED	124	2	4	4	5	9	2	4	5	22	69	672
NOT REPORTED	9	-	-	-	2	2	-	-	-	1	5	...
COAL	7	-	1	1	1	-	2	1	1	-	2	...
OTHER FUEL	249	5	1	2	4	4	5	2	1	7	217	...
NONE	54	2	2	-	1	-	1	2	1	10	36	...
NOT REPORTED	4	-	-	-	-	-	-	2	-	1	2	...
NOT IN WORKING ORDER	132	-	2	2	-	1	2	5	2	10	106	...
NOT REPORTED	10	-	-	-	-	-	1	-	-	2	7	...
WITHOUT FIREPLACE OR HEATING STOVE	6 041	73	44	27	44	45	36	50	63	223	5 434	666
NOT REPORTED	18	-	-	-	-	-	-	-	-	-	18	-
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	-	-	-	-	-	-	-	-	5	-
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 554	79	58	38	56	60	51	66	76	280	5 791	662
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	-	-	-	2	-	-	-	-	1	17	...
NOT REPORTED	70	-	-	-	-	-	-	1	-	-	69	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE B-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	2 567	37	21	6	13	16	15	19	20	94	2 326	663
ROOM UNITS	2 214	32	21	6	12	16	15	19	20	91	1 983	673
1	1 512	22	13	2	9	11	14	14	12	64	1 351	669
2	570	9	5	2	2	4	1	3	6	18	520	674
3	96	2	2	2	-	2	-	2	-	7	81	...
4	21	-	2	-	-	-	-	-	2	1	17	...
5 OR MORE	15	-	-	-	-	-	-	-	-	-	15	-
CENTRAL SYSTEM	353	5	-	-	1	-	1	-	-	3	343	...
WITH NO AIR CONDITIONING	4 161	47	39	33	45	48	38	49	60	193	3 610	653
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	353	5	-	-	1	-	1	-	-	3	343	...
WITH SUPPLEMENTAL EQUIPMENT USED	73	-	-	-	1	-	-	-	-	-	71	...
INDIVIDUAL ROOM AIR CONDITIONING UNIT	26	-	-	-	-	-	-	-	-	-	26	-
AWNINGS	-	-	-	-	-	-	-	-	-	-	-	-
DEHUMIDIFIER	2	-	-	-	-	-	-	-	-	-	2	-
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	2	-	-	-	-	-	-	-	-	-	2	-
WINDOW FAN	6	-	-	-	-	-	-	-	-	-	6	-
PORTABLE FAN	38	-	-	-	1	-	-	-	-	-	37	...
WITH NO SUPPLEMENTAL EQUIPMENT USED	263	5	-	-	-	-	1	-	-	3	254	...
NOT REPORTED	17	-	-	-	-	-	-	-	-	-	17	-
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	6 376	80	60	39	56	64	53	68	80	283	5 593	658
PERSONS												
1 PERSON	2 514	40	19	7	19	15	12	22	20	42	2 318	481
2 PERSONS	1 989	25	18	11	21	11	17	10	17	88	1 771	657
3 PERSONS	1 030	10	7	11	9	15	5	18	17	51	887	680
4 PERSONS	666	5	6	7	3	16	9	11	14	63	532	772
5 PERSONS	302	5	7	2	2	5	9	6	5	20	241	612
6 PERSONS	132	-	1	2	1	-	1	2	5	14	107	...
7 PERSONS OR MORE	96	-	2	-	2	1	-	-	2	9	81	...
MEDIAN	1.9	1.6	2.1	2.6	1.9	2.8	2.3	2.6	2.7	2.8	1.9	...
SPECIFIED RENTER OCCUPIED[2]	6 728	85	60	39	58	64	53	68	80	287	5 936	655
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	940	15	21	18	33	37	28	37	50	132	569	690
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	558	12	15	8	17	27	23	22	32	91	312	700
SOME WINDOWS COVERED	175	1	3	5	10	3	4	5	13	31	101	751
NO WINDOWS COVERED	155	2	3	5	6	5	2	9	5	10	109	610
NOT REPORTED	52	1	-	-	-	2	-	2	-	1	47	...
STORM DOORS												
ALL DOORS COVERED	530	10	13	7	17	25	14	25	28	84	307	704
SOME DOORS COVERED	142	2	1	7	7	5	6	5	7	16	87	604
NO DOORS COVERED	217	2	7	5	9	6	8	7	14	31	128	704
NOT REPORTED	50	1	-	-	-	2	-	-	1	1	46	...
ATTIC OR ROOF INSULATION												
YES	464	10	15	8	16	28	20	16	33	78	239	694
NO	219	3	4	8	8	6	4	10	10	32	134	695
DON'T KNOW	207	1	2	2	9	3	4	10	5	22	149	682
NOT REPORTED	50	1	-	-	-	-	-	2	1	1	46	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-11. HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTHEAST REGION	TOTAL	HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE, MOTOR-CYCLE, OR MOPED	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME
HOUSING UNITS WITH EMPLOYED HOUSEHOLDERS[1]	11 393	6 894	1 820	1 597	141	29	656	11	245
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	7 293	4 937	1 262	584	85	4	245	5	171
LESS THAN 1 MILE	506	252	33	7	7	-	208	-	-
1 TO 4 MILES	1 377	1 052	169	79	47	1	26	3	-
5 TO 9 MILES	1 317	999	209	100	7	2	-	-	-
10 TO 19 MILES	1 657	1 080	388	174	16	-	-	-	-
20 TO 29 MILES	707	433	180	93	2	-	-	-	-
30 TO 49 MILES	470	235	150	84	2	-	-	-	-
50 MILES OR MORE	161	95	51	16	-	-	-	-	-
WORKS AT HOME	171	-	-	-	-	-	-	-	171
NO FIXED PLACE OF WORK	927	793	83	32	5	1	12	2	-
MEDIAN	9.6	8.8	14.6	15.2	3.8	...	1.0-	...	-
RENTER OCCUPIED	4 101	1 958	558	1 013	55	25	410	6	74
LESS THAN 1 MILE	517	122	23	38	5	2	327	-	-
1 TO 4 MILES	1 059	571	115	250	33	21	67	3	-
5 TO 9 MILES	762	402	118	226	13	2	2	-	-
10 TO 19 MILES	905	451	150	303	1	-	-	-	-
20 TO 29 MILES	294	123	70	99	2	-	-	-	-
30 TO 49 MILES	135	75	31	29	-	-	-	-	-
50 MILES OR MORE	33	18	13	3	-	-	-	-	-
WORKS AT HOME	74	-	-	-	-	-	-	-	74
NO FIXED PLACE OF WORK	321	196	38	65	2	2	15	3	-
MEDIAN	6.8	7.3	10.2	9.1	3.6	...	1.0-	...	-
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	7 293	4 937	1 262	584	85	4	245	5	171
LESS THAN 15 MINUTES	1 950	1 501	221	12	38	1	175	2	-
15 TO 29 MINUTES	2 161	1 572	425	79	30	-	53	2	-
30 TO 44 MINUTES	1 106	676	280	134	10	2	3	-	-
45 TO 59 MINUTES	428	215	132	82	-	-	-	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	377	141	94	138	2	-	2	-	-
1 HOUR AND 30 MINUTES OR MORE	173	39	27	107	-	-	-	-	-
WORKS AT HOME	171	-	-	-	-	-	-	-	171
NO FIXED PLACE OF WORK	927	793	83	32	5	1	12	2	-
MEDIAN	23.0	20.4	28.0	54.3	15.8	...	15.0-	...	-
RENTER OCCUPIED	4 101	1 958	558	1 013	55	25	410	6	74
LESS THAN 15 MINUTES	1 192	709	147	43	31	11	252	-	-
15 TO 29 MINUTES	1 227	709	183	189	17	10	117	2	-
30 TO 44 MINUTES	587	220	101	236	6	3	22	-	-
45 TO 59 MINUTES	301	70	59	170	-	-	2	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	316	38	26	250	-	-	2	-	-
1 HOUR AND 30 MINUTES OR MORE	82	16	4	61	-	-	1	2	-
WORKS AT HOME	74	-	-	-	-	-	-	-	74
NO FIXED PLACE OF WORK	321	196	38	65	2	2	15	3	-
MEDIAN	23.1	18.6	24.3	45.5	15.0-	...	15.0-	...	-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	20 842	13 680	5 798	7 882	7 162
HOUSE HEATING FUEL					
OWNER OCCUPIED	14 616	9 205	3 201	6 004	5 410
UTILITY GAS	10 272	7 383	2 806	4 577	2 889
BOTTLED, TANK, OR LP GAS	1 066	223	5	218	843
FUEL OIL	1 845	921	214	707	924
KEROSENE, ETC	6	4	-	4	2
ELECTRICITY	1 241	641	169	472	600
COAL OR COKE	37	11	2	10	26
WOOD	134	16	-	16	118
SOLAR HEAT	1	-	-	-	1
OTHER FUEL	9	3	3	-	6
NONE	5	3	2	1	2
RENTER OCCUPIED	6 226	4 474	2 597	1 877	1 752
UTILITY GAS	4 416	3 428	2 080	1 348	988
BOTTLED, TANK, OR LP GAS	266	49	8	41	216
FUEL OIL	649	408	200	208	241
KEROSENE, ETC	2	-	-	-	2
ELECTRICITY	795	537	278	259	258
COAL OR COKE	17	6	2	5	11
WOOD	41	8	-	8	32
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	27	26	22	4	1
NONE	14	11	8	3	2
WATER HEATING FUEL[1]					
OWNER OCCUPIED	14 471	9 169	3 197	5 973	5 302
UTILITY GAS	9 414	7 088	2 823	4 266	2 325
BOTTLED, TANK, OR LP GAS	862	197	6	191	664
FUEL OIL	134	72	19	53	62
KEROSENE, ETC	2	1	-	1	2
ELECTRICITY	4 019	1 800	347	1 453	2 219
COAL OR COKE	1	-	-	-	1
WOOD	13	4	-	4	10
SOLAR HEAT	3	1	-	1	2
OTHER FUEL	4	-	-	-	4
NONE	19	7	2	5	12
RENTER OCCUPIED	6 149	4 449	2 587	1 862	1 700
UTILITY GAS	4 309	3 467	2 161	1 307	842
BOTTLED, TANK, OR LP GAS	209	44	5	39	166
FUEL OIL	51	40	28	12	11
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	1 539	877	380	497	662
COAL OR COKE	3	2	-	2	1
WOOD	2	-	-	-	2
SOLAR HEAT	6	-	-	-	6
OTHER FUEL	8	7	5	2	1
NONE	21	12	8	4	9
COOKING FUEL					
OWNER OCCUPIED	14 616	9 205	3 201	6 004	5 410
UTILITY GAS	5 699	4 372	1 925	2 447	1 327
BOTTLED, TANK, OR LP GAS	1 032	238	2	236	795
FUEL OIL	13	8	3	4	5
KEROSENE, ETC	5	2	-	2	3
ELECTRICITY	7 831	4 578	1 265	3 312	3 253
COAL OR COKE	-	-	-	-	-
WOOD	27	5	2	3	22
OTHER FUEL	2	-	-	-	2
NONE	6	3	3	-	2
RENTER OCCUPIED	6 226	4 474	2 597	1 877	1 752
UTILITY GAS	3 199	2 662	1 821	841	537
BOTTLED, TANK, OR LP GAS	284	64	2	62	220
FUEL OIL	11	7	5	2	3
KEROSENE, ETC	1	-	-	-	1
ELECTRICITY	2 685	1 708	749	959	977
COAL OR COKE	1	-	-	-	1
WOOD	5	1	-	1	4
OTHER FUEL	3	2	2	1	1
NONE	38	29	18	11	9

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
MONTHLY COST PAID FOR ELECTRICITY					
SPECIFIED OWNER OCCUPIED[1]	11 653	7 824	2 621	5 202	3 829
ELECTRICITY PAID FOR	11 648	7 822	2 621	5 201	3 826
LESS THAN $10	79	48	17	31	30
$10 TO $19	916	575	252	323	341
$20 TO $29	2 242	1 455	615	840	787
$30 TO $39	2 645	1 807	630	1 177	838
$40 TO $49	1 891	1 283	421	862	608
$50 TO $59	1 436	986	273	713	450
$60 TO $79	1 410	978	255	723	432
$80 TO $99	446	291	68	224	154
$100 TO $149	444	299	61	238	146
$150 OR MORE	138	100	28	71	38
MEDIAN	39	40	36	42	38
NO ELECTRICITY USED	5	2	-	2	3
SPECIFIED RENTER OCCUPIED[2]	6 010	4 424	2 595	1 829	1 585
ELECTRICITY PAID FOR	5 014	3 719	2 089	1 631	1 295
LESS THAN $10	389	314	215	100	75
$10 TO $19	1 432	1 128	630	499	304
$20 TO $29	1 194	868	491	377	326
$30 TO $39	865	639	352	287	226
$40 TO $49	484	337	183	154	146
$50 TO $59	274	190	101	90	83
$60 TO $79	245	167	77	90	78
$80 TO $99	68	37	19	17	31
$100 TO $149	44	23	9	14	20
$150 OR MORE	20	15	11	4	5
MEDIAN	25	24	24	25	27
INCLUDED IN RENT	984	697	502	195	287
NO ELECTRICITY USED	12	8	5	3	4
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	11 653	7 824	2 621	5 202	3 829
GAS PAID FOR	10 072	6 955	2 463	4 492	3 117
LESS THAN $10	247	120	42	78	127
$10 TO $14	211	108	53	55	103
$15 TO $19	273	155	68	87	118
$20 TO $24	498	311	131	180	187
$25 TO $29	658	413	148	265	245
$30 TO $39	2 019	1 372	480	892	647
$40 TO $49	2 127	1 571	513	1 058	555
$50 TO $69	2 867	2 086	711	1 375	781
$70 TO $99	876	620	240	380	256
$100 OR MORE	296	198	77	121	98
MEDIAN	45	46	45	46	42
NO GAS USED	1 581	869	158	711	712
SPECIFIED RENTER OCCUPIED[2]	6 010	4 424	2 595	1 829	1 585
GAS PAID FOR	3 098	2 236	1 400	836	863
LESS THAN $10	475	368	270	98	107
$10 TO $14	290	214	139	75	76
$15 TO $19	239	166	96	70	73
$20 TO $24	239	158	77	81	81
$25 TO $29	239	172	111	61	68
$30 TO $39	482	322	173	149	160
$40 TO $49	365	266	156	110	99
$50 TO $69	475	363	223	139	112
$70 TO $99	187	137	105	32	49
$100 OR MORE	106	69	49	20	37
MEDIAN	31	31	30	32	31
INCLUDED IN RENT	2 212	1 742	1 002	740	469
NO GAS USED	700	446	194	253	253

[1] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	11 653	7 824	2 621	5 202	3 829
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 984	1 205	280	925	778
LESS THAN $100	481	328	89	239	152
$100 TO $199	235	147	42	105	88
$200 TO $299	116	60	14	45	56
$300 TO $399	129	66	13	53	63
$400 TO $499	115	58	14	44	57
$500 TO $599	164	92	21	71	72
$600 TO $699	173	96	12	84	77
$700 TO $799	129	85	19	65	44
$800 OR MORE	442	275	55	219	167
MEDIAN	427	404	265	446	451
FUELS NOT USED OR FREE	9 669	6 618	2 341	4 278	3 051
SPECIFIED RENTER OCCUPIED[2]	6 010	4 424	2 595	1 829	1 585
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	318	145	45	99	173
LESS THAN $100	60	34	13	21	26
$100 TO $199	25	12	3	8	13
$200 TO $299	19	7	5	2	12
$300 TO $399	23	10	7	4	13
$400 TO $499	33	15	-	15	17
$500 TO $599	26	9	3	5	17
$600 TO $699	25	14	6	8	11
$700 TO $799	19	8	2	6	11
$800 OR MORE	88	35	7	29	53
MEDIAN	496	459	327	489	530
INCLUDED IN RENT	882	674	463	210	209
FUELS NOT USED OR FREE	4 809	3 606	2 087	1 520	1 203
ALL OCCUPIED HOUSING UNITS	20 842	13 680	5 798	7 882	7 162
HEATING EQUIPMENT					
OWNER OCCUPIED	14 616	9 205	3 201	6 004	5 410
WARM-AIR FURNACE	11 262	7 649	2 571	5 078	3 612
HEAT PUMP	200	128	20	108	72
STEAM OR HOT WATER	1 295	856	420	436	439
BUILT-IN ELECTRIC UNITS	632	257	69	188	375
FLOOR, WALL, OR PIPELESS FURNACE	353	79	37	43	274
ROOM HEATERS WITH FLUE	547	167	72	95	381
ROOM HEATERS WITHOUT FLUE	30	17	9	9	13
FIREPLACES, STOVES, OR PORTABLE HEATERS	292	49	2	47	243
NONE	5	3	2	1	2
RENTER OCCUPIED	6 226	4 474	2 597	1 877	1 752
WARM-AIR FURNACE	3 256	2 314	1 238	1 076	942
HEAT PUMP	28	18	2	16	10
STEAM OR HOT WATER	1 645	1 424	923	500	222
BUILT-IN ELECTRIC UNITS	522	343	177	166	179
FLOOR, WALL, OR PIPELESS FURNACE	193	83	56	27	110
ROOM HEATERS WITH FLUE	440	231	170	61	209
ROOM HEATERS WITHOUT FLUE	43	27	19	8	16
FIREPLACES, STOVES, OR PORTABLE HEATERS	86	24	4	20	62
NONE	14	11	8	3	2
FIREPLACES AND HEATING STOVES					
OWNER OCCUPIED	14 616	9 205	3 201	6 004	5 410
HOUSING UNITS WITH HEATING EQUIPMENT	14 611	9 203	3 199	6 004	5 408
WITH FIREPLACE OR HEATING STOVE	6 082	3 874	1 063	2 811	2 208
IN WORKING ORDER	5 748	3 629	919	2 710	2 120
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	4 609	2 852	619	2 233	1 757
ALL PURCHASED	1 327	960	235	725	367
SOME OR NONE PURCHASED	3 223	1 854	375	1 479	1 369
NOT REPORTED	59	39	9	30	20
COAL	27	14	-	14	13
OTHER FUEL	623	371	136	235	252
NONE	475	383	163	220	92
NOT REPORTED	15	9	2	7	6
NOT IN WORKING ORDER	319	236	139	97	83
NOT REPORTED	15	9	5	4	6
WITHOUT FIREPLACE OR HEATING STOVE	8 496	5 305	2 124	3 181	3 191
NOT REPORTED	33	24	12	12	9
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	3	2	1	2

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
FIREPLACES AND HEATING STOVES--CONTINUED					
RENTER OCCUPIED	6 226	4 474	2 597	1 877	1 752
HOUSING UNITS WITH HEATING EQUIPMENT	6 212	4 463	2 589	1 874	1 749
WITH FIREPLACE OR HEATING STOVE	796	516	283	234	280
IN WORKING ORDER	609	356	168	188	254
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	352	192	62	131	159
ALL PURCHASED	92	63	28	35	29
SOME OR NONE PURCHASED	245	116	29	87	129
NOT REPORTED	14	13	5	8	1
COAL	8	4	-	4	4
OTHER FUEL	171	94	65	29	77
NONE	74	63	42	21	11
NOT REPORTED	5	3	-	3	2
NOT IN WORKING ORDER	180	153	109	44	26
NOT REPORTED	7	7	5	2	-
WITHOUT FIREPLACE OR HEATING STOVE	5 397	3 932	2 298	1 634	1 465
NOT REPORTED	19	14	8	6	5
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	11	8	3	2
ALL OCCUPIED HOUSING UNITS	20 842	13 680	5 798	7 882	7 162
UNITS OCCUPIED LAST WINTER	18 416	12 039	4 986	7 053	6 377
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	14 005	8 821	3 057	5 764	5 184
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	8 754	3 047	5 707	4 935
NO ADDITIONAL HEAT SOURCE USED	12 703	8 160	2 828	5 332	4 543
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	788	502	194	308	286
NOT REPORTED	198	92	24	67	106
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	67	10	57	249
RENTER OCCUPIED	4 410	3 218	1 929	1 289	1 193
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	3 176	1 909	1 267	1 133
NO ADDITIONAL HEAT SOURCE USED	3 691	2 691	1 553	1 138	1 000
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	526	419	322	97	107
NOT REPORTED	92	65	33	32	27
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	42	20	22	60
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	14 005	8 821	3 057	5 764	5 184
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	8 754	3 047	5 707	4 935
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 581	7 882	2 693	5 188	3 700
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 872	759	319	440	1 113
1 ROOM	727	376	150	226	351
2 ROOMS	498	192	95	97	306
3 ROOMS OR MORE	647	191	74	117	456
NOT REPORTED	235	113	35	78	122
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	67	10	57	249
RENTER OCCUPIED	4 410	3 218	1 929	1 289	1 193
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	3 176	1 909	1 267	1 133
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 506	2 699	1 588	1 111	807
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	704	405	279	126	298
1 ROOM	299	207	145	61	93
2 ROOMS	199	107	74	33	91
3 ROOMS OR MORE	205	91	60	32	114
NOT REPORTED	100	71	42	30	29
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	42	20	22	60
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	14 005	8 821	3 057	5 764	5 184
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	8 754	3 047	5 707	4 935
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	67	10	57	249
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	245	39	2	37	206
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	27	8	2	6	19
NOT REPORTED	45	20	7	13	25

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
UNITS OCCUPIED LAST WINTER--CONTINUED					
INSUFFICIENT HEAT--CONTINUED					
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED					
RENTER OCCUPIED	4 410	3 218	1 929	1 289	1 193
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	3 176	1 909	1 267	1 133
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	42	20	22	60
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	69	23	9	14	46
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	6	5	2	10
NOT REPORTED	16	12	6	6	4
ALL OCCUPIED HOUSING UNITS	20 842	13 680	5 798	7 882	7 162
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	14 616	9 205	3 201	6 004	5 410
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	297	51	3	48	245
WITH SELECTED HEATING EQUIPMENT[2]	14 319	9 154	3 197	5 957	5 165
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 231	8 551	3 037	5 514	4 680
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 051	576	150	426	475
SOLAR HEATING EQUIPMENT	20	4	-	4	15
STOVE, BURNING WOOD OR COAL	407	187	25	162	220
FIREPLACE, BURNING WOOD OR COAL	161	100	24	76	61
PORTABLE ELECTRIC HEATER	322	205	80	125	117
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	62	31	7	24	31
OTHER	116	66	16	50	49
NOT REPORTED	37	27	10	16	10
RENTER OCCUPIED	6 226	4 474	2 597	1 877	1 752
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	100	36	12	23	64
WITH SELECTED HEATING EQUIPMENT[2]	6 126	4 439	2 584	1 854	1 687
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 847	4 258	2 457	1 801	1 589
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	262	166	118	48	96
SOLAR HEATING EQUIPMENT	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	40	14	7	7	27
FIREPLACE, BURNING WOOD OR COAL	4	4	2	2	-
PORTABLE ELECTRIC HEATER	163	110	81	29	53
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	20	13	9	5	7
OTHER	37	29	24	5	8
NOT REPORTED	17	15	10	5	2
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]					
OWNER OCCUPIED	14 449	9 162	3 195	5 967	5 287
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	14 310	9 065	3 142	5 923	5 245
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	47	34	14	20	13
NOT REPORTED	92	63	39	24	29
RENTER OCCUPIED	6 122	4 437	2 579	1 858	1 685
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 052	4 390	2 546	1 844	1 663
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	23	12	10	2	11
NOT REPORTED	46	35	23	12	12
AIR CONDITIONING					
OWNER OCCUPIED	14 616	9 205	3 201	6 004	5 410
WITH AIR CONDITIONING	9 183	6 132	2 136	3 996	3 051
ROOM UNITS	4 672	2 842	1 199	1 643	1 830
1	3 210	1 831	740	1 091	1 378
2	1 139	771	329	442	368
3	253	181	102	79	72
4	44	35	18	17	10
5 OR MORE	26	25	10	14	2
CENTRAL SYSTEM	4 511	3 290	937	2 353	1 221
WITH NO AIR CONDITIONING	5 432	3 073	1 065	2 009	2 359

[1] EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
AIR CONDITIONING--CONTINUED					
RENTER OCCUPIED	6 226	4 474	2 597	1 877	1 752
WITH AIR CONDITIONING	3 280	2 424	1 167	1 257	856
ROOM UNITS	2 240	1 631	816	815	609
1	1 866	1 323	662	662	543
2	322	261	135	126	61
3	39	34	10	24	5
4	12	11	10	2	1
5 OR MORE	2	2	-	2	-
CENTRAL SYSTEM	1 040	793	351	442	246
WITH NO AIR CONDITIONING	2 946	2 050	1 430	620	896
SUPPLEMENTAL COOLING EQUIPMENT					
OWNER OCCUPIED	14 616	9 205	3 201	6 004	5 410
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	4 511	3 290	937	2 353	1 221
WITH SUPPLEMENTAL EQUIPMENT USED	2 555	1 836	489	1 346	720
INDIVIDUAL ROOM AIR CONDITIONING UNIT	110	83	24	59	27
AWNINGS	465	351	96	255	115
DEHUMIDIFIER	941	684	153	531	257
CEILING FAN	138	108	26	82	30
ATTIC FAN	665	501	118	383	164
WINDOW FAN	244	184	66	119	59
PORTABLE FAN	1 072	696	191	505	376
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 866	1 393	432	961	473
NOT REPORTED	89	61	15	45	28
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 105	5 916	2 264	3 652	4 189
RENTER OCCUPIED	6 226	4 474	2 597	1 877	1 752
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 040	793	351	442	246
WITH SUPPLEMENTAL EQUIPMENT USED	319	228	88	140	91
INDIVIDUAL ROOM AIR CONDITIONING UNIT	12	8	2	7	4
AWNINGS	28	21	8	12	7
DEHUMIDIFIER	36	23	5	19	13
CEILING FAN	17	10	6	5	7
ATTIC FAN	20	13	2	11	7
WINDOW FAN	51	36	15	21	15
PORTABLE FAN	213	146	56	91	67
WITH NO SUPPLEMENTAL EQUIPMENT USED	691	544	252	292	146
NOT REPORTED	30	21	11	10	9
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 186	3 681	2 246	1 436	1 505
ALL OCCUPIED HOUSING UNITS	20 842	13 680	5 798	7 882	7 162
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	15 882	9 610	3 231	6 378	6 273
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	13 815	8 498	2 722	5 776	5 317
ALL WINDOWS COVERED	11 977	7 460	2 290	5 169	4 517
SOME WINDOWS COVERED	1 300	721	285	436	579
NO WINDOWS COVERED	498	291	131	161	207
NOT REPORTED	40	25	15	10	14
RENTER OCCUPIED	2 068	1 111	510	602	956
ALL WINDOWS COVERED	1 307	669	291	379	638
SOME WINDOWS COVERED	371	200	111	89	171
NO WINDOWS COVERED	296	174	81	94	122
NOT REPORTED	94	68	27	41	26
STORM DOORS					
OWNER OCCUPIED	13 815	8 498	2 722	5 776	5 317
ALL DOORS COVERED	11 236	7 021	2 266	4 755	4 215
SOME DOORS COVERED	1 528	899	282	617	629
NO DOORS COVERED	1 007	549	157	393	458
NOT REPORTED	43	28	17	11	15
RENTER OCCUPIED	2 068	1 111	510	602	956
ALL DOORS COVERED	1 196	634	281	353	562
SOME DOORS COVERED	319	169	82	87	150
NO DOORS COVERED	460	240	119	121	220
NOT REPORTED	93	68	27	41	25

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
ATTIC OR ROOF INSULATION					
OWNER OCCUPIED	13 815	8 498	2 722	5 776	5 317
YES	12 532	7 733	2 357	5 376	4 800
NO	882	492	247	245	390
DON'T KNOW	341	232	96	136	109
NOT REPORTED	59	42	22	20	17
RENTER OCCUPIED	2 068	1 111	510	602	956
YES	1 188	604	238	365	584
NO	343	175	103	72	168
DON'T KNOW	441	262	141	121	179
NOT REPORTED	95	70	27	43	25
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	13 815	8 498	2 722	5 776	5 317
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	498	291	131	161	207
SOME OR ALL WINDOWS COVERED	13 277	8 181	2 576	5 606	5 095
NONE INSTALLED	12 130	7 506	2 349	5 157	4 625
SOME OR ALL INSTALLED	1 117	654	216	437	464
NOT REPORTED	29	22	10	11	7
NOT REPORTED	40	25	15	10	14
STORM DOORS:					
NO DOORS COVERED	1 007	549	157	393	458
SOME OR ALL DOORS COVERED	12 764	7 921	2 548	5 373	4 844
NONE INSTALLED	12 039	7 465	2 411	5 054	4 575
SOME OR ALL INSTALLED	653	405	116	290	248
NOT REPORTED	72	51	22	29	21
NOT REPORTED	43	28	17	11	15
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	882	492	247	245	390
WITH ATTIC OR ROOF INSULATION	12 532	7 733	2 357	5 376	4 800
NONE ADDED OR INSTALLED	11 343	6 978	2 103	4 875	4 365
SOME OR ALL ADDED OR INSTALLED	1 127	703	241	462	424
NOT REPORTED	62	51	12	39	11
DON'T KNOW	341	232	96	136	109
NOT REPORTED	59	42	22	20	17
WALL INSULATION:					
NONE ADDED OR INSTALLED	12 842	7 917	2 502	5 415	4 925
SOME OR ALL ADDED OR INSTALLED	899	533	192	341	366
NOT REPORTED	74	48	28	20	26
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	10 160	6 011	2 000	4 010	4 149
SOME OR ALL ADDED OR INSTALLED	3 585	2 442	697	1 745	1 143
NOT REPORTED	70	46	24	21	24
OTHER INSULATION:					
NONE ADDED OR INSTALLED	12 699	7 847	2 531	5 315	4 852
SOME OR ALL ADDED OR INSTALLED	1 051	609	168	441	442
NOT REPORTED	64	43	23	20	22
RENTER OCCUPIED	2 068	1 111	510	602	956
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	296	174	81	94	122
SOME OR ALL WINDOWS COVERED	1 678	869	402	468	809
NONE INSTALLED	1 456	777	353	424	679
SOME OR ALL INSTALLED	202	84	40	44	118
NOT REPORTED	19	8	8	-	11
NOT REPORTED	94	68	27	41	26
STORM DOORS:					
NO DOORS COVERED	460	240	119	121	220
SOME OR ALL DOORS COVERED	1 515	803	363	440	712
NONE INSTALLED	1 407	747	337	410	660
SOME OR ALL INSTALLED	79	45	18	27	34
NOT REPORTED	29	11	8	3	18
NOT REPORTED	93	68	27	41	25

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
RENTER OCCUPIED--CONTINUED					
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	343	175	103	72	168
WITH ATTIC OR ROOF INSULATION	1 188	604	238	365	584
NONE ADDED OR INSTALLED	1 094	564	219	345	530
SOME OR ALL ADDED OR INSTALLED	87	37	18	19	49
NOT REPORTED	7	2	2	1	5
DON'T KNOW	441	262	141	121	179
NOT REPORTED	95	70	27	43	25
WALL INSULATION:					
NONE ADDED OR INSTALLED	1 885	1 013	464	549	872
SOME OR ALL ADDED OR INSTALLED	50	13	4	9	37
NOT REPORTED	133	86	42	44	48
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	1 644	873	404	469	771
SOME OR ALL ADDED OR INSTALLED	290	152	63	89	137
NOT REPORTED	134	86	42	44	48
OTHER INSULATION:					
NONE ADDED OR INSTALLED	1 860	987	448	539	873
SOME OR ALL ADDED OR INSTALLED	74	39	19	19	35
NOT REPORTED	134	86	42	44	48
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	13 815	8 498	2 722	5 776	5 317
NO INSULATION ADDED OR INSTALLED	8 443	5 044	1 677	3 367	3 398
WITH INSULATION ADDED OR INSTALLED	5 206	3 348	991	2 357	1 858
LESS THAN $50	2 680	1 723	462	1 260	957
$50 TO $99	564	360	111	249	204
$100 TO $249	724	461	139	322	263
$250 TO $499	473	319	89	231	154
$500 TO $999	302	194	88	106	108
$1,000 OR MORE	252	153	45	109	99
DON'T KNOW	115	71	35	36	44
NOT REPORTED	96	66	21	45	30
MEDIAN	50-	50-	52	50-	50-
NOT REPORTED OR DON'T KNOW	166	106	54	52	60
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	349	195	65	130	154
LESS THAN $50	196	94	32	62	101
$50 TO $99	27	13	6	8	14
$100 TO $249	28	13	2	11	14
$250 TO $499	30	25	7	18	6
$500 TO $999	25	21	8	13	4
$1,000 OR MORE	8	8	2	6	1
DON'T KNOW	11	6	2	4	5
NOT REPORTED	25	15	7	8	10
MEDIAN	50-	50-	50-	50-	50-
ONLY INSTALLED STORM DOORS	192	111	25	86	81
LESS THAN $50	26	8	2	7	18
$50 TO $99	55	33	8	24	22
$100 TO $249	73	44	8	36	29
$250 TO $499	18	13	-	13	5
$500 TO $999	7	5	2	3	2
$1,000 OR MORE	-	-	-	-	-
DON'T KNOW	2	-	-	-	2
NOT REPORTED	12	8	5	3	5
MEDIAN	117	135	...	144	94
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	507	291	106	185	217
LESS THAN $50	50	28	5	23	23
$50 TO $99	67	40	14	27	27
$100 TO $249	166	99	30	70	67
$250 TO $499	107	56	25	31	51
$500 TO $999	55	37	21	16	18
$1,000 OR MORE	26	11	4	8	15
DON'T KNOW	16	7	5	1	10
NOT REPORTED	19	13	2	11	6
MEDIAN	206	201	256	179	213

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	20 842	13 680	5 798	7 882	7 162
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	10 218	6 652	2 156	4 495	3 566
DRIVES SELF	7 366	5 028	1 590	3 438	2 338
CARPOOL	1 677	1 051	324	727	626
MASS TRANSPORTATION	290	281	126	155	9
BICYCLE, MOTORCYCLE, OR MOPED	146	68	31	37	77
TAXICAB	3	3	3	-	-
WALKS ONLY	233	105	54	51	128
OTHER MEANS	21	8	2	6	13
WORKS AT HOME	483	107	26	81	376
RENTER OCCUPIED	3 929	2 834	1 527	1 306	1 095
DRIVES SELF	2 480	1 831	868	963	650
CARPOOL	606	401	205	195	206
MASS TRANSPORTATION	351	341	285	56	10
BICYCLE, MOTORCYCLE, OR MOPED	92	63	35	28	29
TAXICAB	13	8	8	-	6
WALKS ONLY	265	156	106	50	109
OTHER MEANS	6	5	3	2	1
WORKS AT HOME	114	30	17	13	84
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]					
OWNER OCCUPIED	10 218	6 652	2 156	4 495	3 566
HOUSEHOLDER DRIVES ALONE	7 366	5 028	1 590	3 438	2 338
IRREGULAR OR UNUSUAL WORK HOURS	2 351	1 631	487	1 144	720
IRREGULAR WORK LOCATION	658	468	160	307	190
CAR NEEDED FOR WORK OR ERRANDS	1 062	722	232	490	340
DOESN'T KNOW ANYONE TO RIDE WITH	1 697	1 162	338	824	535
LIKES PRIVACY	277	201	74	127	76
OUT OF THE WAY TO PICK UP OTHERS	529	342	116	226	186
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	82	65	28	37	17
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	193	127	41	85	67
DOESN'T TRUST OTHERS DRIVING	17	13	5	8	4
SOME OTHER REASON	479	285	106	179	194
NOT REPORTED	20	12	2	10	8
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	2 852	1 624	566	1 057	1 229
RENTER OCCUPIED	3 929	2 834	1 527	1 306	1 095
HOUSEHOLDER DRIVES ALONE	2 480	1 831	868	963	650
IRREGULAR OR UNUSUAL WORK HOURS	757	559	259	300	199
IRREGULAR WORK LOCATION	181	137	57	80	44
CAR NEEDED FOR WORK OR ERRANDS	293	226	107	119	67
DOESN'T KNOW ANYONE TO RIDE WITH	674	495	234	261	179
LIKES PRIVACY	134	108	76	32	25
OUT OF THE WAY TO PICK UP OTHERS	162	114	56	58	49
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	39	31	12	18	8
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	53	40	16	24	13
DOESN'T TRUST OTHERS DRIVING	8	5	2	3	3
SOME OTHER REASON	169	110	45	64	59
NOT REPORTED	11	7	4	3	4
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	1 448	1 003	660	344	445
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	10 218	6 652	2 156	4 495	3 566
LESS THAN 1 MILE	693	276	103	173	417
1 TO 4 MILES	2 235	1 313	602	711	922
5 TO 9 MILES	1 919	1 444	587	857	475
10 TO 19 MILES	2 129	1 676	423	1 253	454
20 TO 29 MILES	824	582	99	483	243
30 TO 49 MILES	472	283	49	233	189
50 MILES OR MORE	248	161	44	117	87
WORKS AT HOME	483	107	26	81	376
NO FIXED PLACE OF WORK	1 215	810	223	587	405
MEDIAN	8.5	9.4	7.1	11.4	5.6

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
DISTANCE FROM HOME TO WORK[1]--CONTINUED					
RENTER OCCUPIED	3 929	2 834	1 527	1 306	1 095
LESS THAN 1 MILE	436	225	131	94	211
1 TO 4 MILES	1 105	782	493	289	323
5 TO 9 MILES	809	672	400	272	137
10 TO 19 MILES	680	556	252	305	124
20 TO 29 MILES	222	161	53	109	61
30 TO 49 MILES	127	93	23	70	34
50 MILES OR MORE	80	58	31	26	22
WORKS AT HOME	114	30	17	13	84
NO FIXED PLACE OF WORK	355	257	128	129	99
MEDIAN	6.2	7.0	5.8	8.7	4.0
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	10 218	6 652	2 156	4 495	3 566
LESS THAN 15 MINUTES	3 212	1 742	660	1 082	1 471
15 TO 29 MINUTES	3 091	2 354	818	1 535	738
30 TO 44 MINUTES	1 261	964	261	703	297
45 TO 59 MINUTES	505	348	88	259	158
1 HOUR TO 1 HOUR AND 29 MINUTES	260	181	32	149	79
1 HOUR AND 30 MINUTES OR MORE	190	146	47	99	44
WORKS AT HOME	483	107	26	81	376
NO FIXED PLACE OF WORK	1 215	810	223	587	405
MEDIAN	20.1	22.2	20.4	23.1	15.0-
RENTER OCCUPIED	3 929	2 834	1 527	1 306	1 095
LESS THAN 15 MINUTES	1 411	865	459	406	546
15 TO 29 MINUTES	1 247	1 013	568	446	234
30 TO 44 MINUTES	448	371	192	179	77
45 TO 59 MINUTES	184	155	79	77	28
1 HOUR TO 1 HOUR AND 29 MINUTES	98	82	57	25	16
1 HOUR AND 30 MINUTES OR MORE	71	59	28	31	11
WORKS AT HOME	114	30	17	13	84
NO FIXED PLACE OF WORK	355	257	128	129	99
MEDIAN	18.8	21.0	21.1	20.9	15.0-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS	20 842	1 550	3 031	2 003	3 122	2 783	2 474	3 207	1 786	628	258	16300
HOUSE HEATING FUEL												
OWNER OCCUPIED	14 616	813	1 478	1 196	1 922	1 988	1 953	2 794	1 645	580	245	19800
UTILITY GAS	10 272	524	1 016	822	1 293	1 354	1 373	2 018	1 231	461	179	20500
BOTTLED, TANK, OR LP GAS	1 066	70	123	117	189	166	145	156	78	10	10	16000
FUEL OIL	1 845	111	242	159	254	287	234	320	167	48	21	17700
KEROSENE, ETC	6	-	-	-	1	1	1	2	2	-	-	...
ELECTRICITY	1 241	93	68	86	150	148	174	274	155	60	33	22200
COAL OR COKE	37	5	6	2	10	6	2	4	3	-	-	12700
WOOD	134	10	21	8	22	24	19	18	9	1	2	16200
SOLAR HEAT	1	-	-	-	-	-	-	-	1	-	-	...
OTHER FUEL	9	-	-	-	3	2	3	1	-	-	-	...
NONE	5	-	1	1	1	-	2	1	-	-	-	...
RENTER OCCUPIED	6 226	736	1 553	807	1 199	795	521	413	141	48	13	10100
UTILITY GAS	4 416	509	1 135	610	846	531	361	287	102	29	6	9800
BOTTLED, TANK, OR LP GAS	266	35	52	38	54	39	24	17	7	-	-	10800
FUEL OIL	649	85	164	66	126	92	57	41	9	8	1	10400
KEROSENE, ETC	2	-	-	-	-	2	-	-	-	-	-	...
ELECTRICITY	795	87	175	83	154	121	77	62	21	11	6	11700
COAL OR COKE	17	4	5	2	3	2	-	2	-	-	-	...
WOOD	41	7	9	7	10	4	2	1	-	-	-	9000
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	5	9	-	3	5	1	3	2	-	-	...
NONE	14	5	5	1	2	-	-	1	-	-	-	...
WATER HEATING FUEL[1]												
OWNER OCCUPIED	14 471	788	1 432	1 181	1 899	1 972	1 946	2 788	1 642	576	245	19900
UTILITY GAS	9 414	478	860	753	1 150	1 236	1 261	1 923	1 158	433	162	20900
BOTTLED, TANK, OR LP GAS	862	59	101	101	134	143	122	119	59	12	12	16200
FUEL OIL	134	5	12	7	21	16	20	30	21	3	1	21900
KEROSENE, ETC	2	-	-	-	1	1	-	1	-	-	-	...
ELECTRICITY	4 019	242	452	312	585	574	541	713	401	127	71	18600
COAL OR COKE	1	-	-	-	1	-	-	-	-	-	-	...
WOOD	13	1	1	2	3	3	-	1	2	2	-	...
SOLAR HEAT	3	-	-	-	-	-	1	1	2	-	-	...
OTHER FUEL	4	2	-	1	2	-	-	-	-	-	-	...
NONE	19	2	6	7	3	-	2	-	-	-	-	...
RENTER OCCUPIED	6 149	711	1 528	799	1 187	791	520	412	140	48	13	10200
UTILITY GAS	4 309	520	1 110	565	813	542	344	278	101	30	8	9800
BOTTLED, TANK, OR LP GAS	209	25	44	29	47	30	17	13	5	-	-	10700
FUEL OIL	51	4	12	7	8	6	6	5	-	2	1	11200
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 539	156	339	193	315	213	150	117	35	16	4	11300
COAL OR COKE	3	-	1	2	-	-	-	-	-	-	-	...
WOOD	2	-	1	-	1	-	-	-	-	-	-	...
SOLAR HEAT	6	-	6	-	-	-	-	-	-	-	-	...
OTHER FUEL	8	3	1	2	-	-	2	-	-	-	-	...
NONE	21	3	13	1	3	-	-	1	-	-	-	...
COOKING FUEL												
OWNER OCCUPIED	14 616	813	1 478	1 196	1 922	1 988	1 953	2 794	1 645	580	245	19800
UTILITY GAS	5 699	351	684	529	746	831	761	1 040	512	181	65	18200
BOTTLED, TANK, OR LP GAS	1 032	93	167	126	163	162	135	107	60	10	9	14000
FUEL OIL	13	4	3	1	2	-	1	-	2	-	-	...
KEROSENE, ETC	5	2	1	1	1	1	-	-	-	-	-	...
ELECTRICITY	7 831	360	613	533	1 005	991	1 052	1 645	1 071	389	172	22000
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	27	2	9	4	3	3	4	1	-	-	-	...
OTHER FUEL	2	2	-	1	-	-	-	-	-	-	-	...
NONE	6	-	1	2	2	-	-	2	-	-	-	...
RENTER OCCUPIED	6 226	736	1 553	807	1 199	795	521	413	141	48	13	10100
UTILITY GAS	3 199	444	889	427	571	381	232	162	65	22	5	8900
BOTTLED, TANK, OR LP GAS	284	43	73	34	62	37	17	15	4	-	-	9300
FUEL OIL	11	6	1	-	-	-	2	-	2	-	-	...
KEROSENE, ETC	1	-	-	-	-	1	-	-	-	-	-	...
ELECTRICITY	2 685	233	572	340	562	375	269	232	70	25	8	11800
COAL OR COKE	1	-	1	-	-	-	-	-	-	-	-	...
WOOD	5	2	1	1	-	-	1	-	-	-	-	...
OTHER FUEL	3	-	1	-	2	-	1	-	-	-	-	...
NONE	38	8	16	5	3	1	-	3	-	1	-	5800
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[2]	11 653	579	1 082	892	1 439	1 535	1 625	2 372	1 429	499	201	20900
ELECTRICITY PAID FOR	11 648	578	1 081	892	1 436	1 534	1 625	2 372	1 429	499	201	20900
LESS THAN $10	79	11	31	6	12	6	3	4	3	2	-	6700
$10 TO $19	916	53	238	125	155	106	101	88	38	10	3	11400
$20 TO $29	2 242	107	288	270	364	343	301	362	163	29	15	16400
$30 TO $39	2 645	117	225	190	341	397	427	570	277	84	17	20600
$40 TO $49	1 891	78	119	137	216	249	264	447	260	90	32	22800
$50 TO $59	1 436	64	67	66	149	174	195	354	243	92	33	25100
$60 TO $79	1 410	84	56	56	130	178	209	296	252	101	47	24800
$80 TO $99	446	24	20	8	35	47	59	109	94	37	12	27600
$100 TO $149	444	34	28	20	24	29	51	112	77	43	27	28300
$150 OR MORE	138	7	10	13	11	6	14	31	22	9	14	27500
MEDIAN	39	40	29	32	35	37	39	43	48	53	60	...
NO ELECTRICITY USED	5	1	1	-	3	1	-	-	-	-	-	...

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[2]LIMITED TO 1-UNIT-STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
MONTHLY COST PAID FOR ELECTRICITY--CONTINUED												
SPECIFIED RENTER OCCUPIED[1]	6 010	715	1 518	781	1 149	763	497	392	135	47	12	10000
ELECTRICITY PAID FOR	5 014	542	1 140	655	1 001	690	446	362	122	46	11	10900
LESS THAN $10	389	59	109	40	88	45	21	17	5	3	2	9000
$10 TO $19	1 432	166	376	204	273	183	107	90	20	12	1	9600
$20 TO $29	1 194	126	268	169	250	178	104	60	28	6	5	10700
$30 TO $39	865	83	163	123	170	118	94	79	30	4	-	11900
$40 TO $49	484	38	111	44	87	81	47	48	15	8	3	12800
$50 TO $59	274	35	53	19	51	42	33	27	7	7	-	12900
$60 TO $79	245	25	37	41	52	32	18	29	10	2	1	12000
$80 TO $99	68	4	12	9	15	6	11	6	3	1	-	12800
$100 TO $149	44	4	3	5	11	4	9	2	2	2	-	14100
$150 OR MORE	20	1	7	-	5	1	1	3	1	2	-	...
MEDIAN	25	23	23	24	25	26	28	32	32	36	...	...
INCLUDED IN RENT	984	171	373	123	147	72	51	30	13	1	2	6400
NO ELECTRICITY USED	12	2	6	3	1	-	-	-	-	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	11 653	579	1 082	892	1 439	1 535	1 625	2 372	1 429	499	201	20900
GAS PAID FOR	10 072	503	939	788	1 244	1 318	1 389	2 027	1 238	450	177	20900
LESS THAN $10	247	15	30	29	33	44	28	32	24	9	2	16900
$10 TO $14	211	13	34	18	38	24	32	39	10	3	-	15600
$15 TO $19	273	13	43	38	31	37	56	32	17	5	2	16600
$20 TO $24	498	32	73	38	65	71	74	77	32	10	6	16500
$25 TO $29	658	27	76	84	87	101	89	101	65	20	8	17700
$30 TO $39	2 019	80	204	202	291	264	268	415	217	66	12	19400
$40 TO $49	2 127	93	160	160	236	284	320	485	286	75	28	22000
$50 TO $69	2 867	142	223	150	312	366	387	620	418	177	74	23100
$70 TO $99	876	56	67	43	98	94	108	176	147	62	25	23700
$100 OR MORE	296	32	30	27	32	33	28	50	21	23	20	19100
MEDIAN	45	47	41	38	42	44	44	46	48	54	58	...
NO GAS USED	1 581	76	143	104	195	217	236	345	191	49	24	21200
SPECIFIED RENTER OCCUPIED[1]	6 010	715	1 518	781	1 149	763	497	392	135	47	12	10000
GAS PAID FOR	3 098	370	703	419	608	412	274	204	79	24	5	10500
LESS THAN $10	475	67	108	66	110	59	33	18	8	6	-	9800
$10 TO $14	290	36	61	37	65	37	29	20	4	2	-	10900
$15 TO $19	239	36	45	35	51	27	23	17	3	2	-	10300
$20 TO $24	239	33	43	37	40	49	14	17	5	2	2	10900
$25 TO $29	239	27	45	31	52	41	20	17	4	1	1	11600
$30 TO $39	482	51	112	56	99	63	49	36	15	2	-	11100
$40 TO $49	365	40	79	42	69	44	42	24	21	2	2	11500
$50 TO $69	475	49	115	64	82	61	50	37	13	5	-	10600
$70 TO $99	187	21	70	30	25	13	9	15	4	1	-	7200
$100 OR MORE	106	8	26	20	16	18	7	5	2	2	-	9800
MEDIAN	31	27	34	30	28	28	34	34	40	...	...	...
INCLUDED IN RENT	2 212	280	652	284	392	266	147	133	41	10	6	8800
NO GAS USED	700	65	164	78	149	84	76	55	14	13	2	11400
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	11 653	579	1 082	892	1 439	1 535	1 625	2 372	1 429	499	201	20900
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 984	87	202	149	229	241	278	379	277	89	52	21500
LESS THAN $100	481	22	38	27	31	34	71	106	87	43	20	26600
$100 TO $199	235	13	16	14	27	19	32	42	49	11	11	24400
$200 TO $299	116	4	9	10	12	15	13	24	17	10	2	23200
$300 TO $399	129	2	16	15	19	18	14	21	11	8	3	18100
$400 TO $499	115	12	9	11	13	23	16	17	12	2	-	17500
$500 TO $599	164	6	16	15	26	20	26	28	21	2	2	19300
$600 TO $699	173	6	23	13	18	28	28	31	17	5	3	19700
$700 TO $799	129	7	23	9	12	20	17	28	10	2	-	18200
$800 OR MORE	442	13	50	34	70	62	61	82	53	6	10	19200
MEDIAN	427	417	572	470	546	551	456	380	214	109	150	...
FUELS NOT USED OR FREE	9 669	493	880	743	1 210	1 294	1 347	1 993	1 152	410	148	20800
SPECIFIED RENTER OCCUPIED[1]	6 010	715	1 518	781	1 149	763	497	392	135	47	12	10000
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	318	34	70	31	75	43	28	24	7	5	-	11600
LESS THAN $100	60	7	13	7	14	5	6	4	3	1	-	11200
$100 TO $199	25	4	2	3	8	5	1	1	1	1	-	...
$200 TO $299	19	1	2	2	4	8	-	2	-	1	-	...
$300 TO $399	23	2	5	4	2	5	3	1	1	-	-	...
$400 TO $499	33	5	8	4	9	1	2	2	2	-	-	...
$500 TO $599	26	2	8	1	9	4	1	1	1	-	-	...
$600 TO $699	25	4	6	1	6	3	2	1	-	1	-	...
$700 TO $799	19	3	3	4	4	2	2	1	-	-	-	...
$800 OR MORE	88	7	21	5	19	12	10	11	1	2	-	12600
MEDIAN	496	...	553	...	508	388	...	...	...	...	-	...
INCLUDED IN RENT	882	121	236	124	166	93	69	43	20	4	6	9000
FUELS NOT USED OR FREE	4 809	559	1 213	626	908	626	401	325	108	38	6	10000
ALL OCCUPIED HOUSING UNITS	20 842	1 550	3 031	2 003	3 122	2 783	2 474	3 207	1 786	628	258	16300
HEATING EQUIPMENT												
OWNER OCCUPIED	14 616	813	1 478	1 196	1 922	1 988	1 953	2 794	1 645	580	245	19800
WARM-AIR FURNACE	11 262	571	1 012	877	1 417	1 553	1 563	2 234	1 364	481	190	20600
HEAT PUMP	200	13	3	3	16	10	29	58	41	20	6	29400
STEAM OR HOT WATER	1 295	74	124	105	184	165	162	259	140	52	30	19900
BUILT-IN ELECTRIC UNITS	632	55	46	50	84	88	85	133	53	24	14	19600
FLOOR, WALL, OR PIPELESS FURNACE	353	23	77	48	67	56	32	32	15	2	2	12200
ROOM HEATERS WITH FLUE	547	53	163	83	96	67	34	40	11	-	1	9100
ROOM HEATERS WITHOUT FLUE	30	3	11	6	6	3	-	1	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	292	21	42	25	52	45	45	37	21	2	2	15700
NONE	5	-	1	1	1	-	2	1	-	-	-	...

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
HEATING EQUIPMENT--CONTINUED												
RENTER OCCUPIED	6 226	736	1 553	807	1 199	795	521	413	141	48	13	10100
WARM-AIR FURNACE	3 256	333	731	415	623	453	322	249	93	30	8	11200
HEAT PUMP	28	1	8	4	2	5	4	2	-	1	1	...
STEAM OR HOT WATER	1 645	207	456	217	324	192	117	92	25	13	3	9200
BUILT-IN ELECTRIC UNITS	522	55	132	58	107	72	46	33	13	5	1	10700
FLOOR, WALL, OR PIPELESS FURNACE	193	29	45	24	52	25	6	8	3	-	-	9800
ROOM HEATERS WITH FLUE	440	88	148	63	66	37	18	18	2	-	-	6600
ROOM HEATERS WITHOUT FLUE	43	4	11	11	4	2	5	3	3	-	-	8800
FIREPLACES, STOVES, OR PORTABLE HEATERS	86	15	17	14	20	8	4	7	1	-	-	9400
NONE	14	5	5	1	2	-	-	1	-	-	-	...
FIREPLACES AND HEATING STOVES												
OWNER OCCUPIED	14 616	813	1 878	1 196	1 922	1 988	1 953	2 794	1 645	580	245	19800
HOUSING UNITS WITH HEATING EQUIPMENT	14 611	813	1 877	1 195	1 921	1 988	1 951	2 794	1 645	580	245	19800
WITH FIREPLACE OR HEATING STOVE	6 082	329	438	362	646	701	782	1 301	941	411	171	23600
IN WORKING ORDER	5 748	311	395	333	593	649	745	1 234	919	402	168	24000
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	4 609	236	253	225	440	505	606	1 076	778	347	141	25400
ALL PURCHASED	1 327	78	58	60	98	100	133	306	281	140	74	29500
SOME OR NONE PURCHASED	3 223	153	189	163	336	404	466	758	485	204	64	23900
NOT REPORTED	59	5	6	2	6	2	7	12	12	3	3	25700
COAL	27	3	6	1	4	2	3	3	3	-	2	...
OTHER FUEL	623	49	80	51	96	79	73	78	76	27	13	17300
NONE	475	21	55	56	52	62	58	73	60	25	12	19200
NOT REPORTED	15	2	1	-	-	-	5	3	2	3	-	...
NOT IN WORKING ORDER	319	18	38	28	52	49	35	64	22	9	3	17300
NOT REPORTED	15	-	5	1	1	3	2	3	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	8 496	482	1 033	823	1 273	1 287	1 168	1 486	703	168	74	17500
NOT REPORTED	33	3	7	10	2	1	1	6	2	1	1	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	1	1	1	-	2	1	-	-	-	...
RENTER OCCUPIED	6 226	736	1 553	807	1 199	795	521	413	141	48	13	10100
HOUSING UNITS WITH HEATING EQUIPMENT	6 212	731	1 548	806	1 197	795	521	412	141	48	13	10100
WITH FIREPLACE OR HEATING STOVE	796	84	177	103	158	93	73	58	31	14	5	11100
IN WORKING ORDER	609	60	121	68	126	75	62	52	29	11	5	12200
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	352	28	42	39	81	52	45	36	20	8	2	14200
ALL PURCHASED	92	11	10	5	18	10	11	14	6	5	1	15900
SOME OR NONE PURCHASED	245	17	30	33	60	40	33	20	11	1	1	13600
NOT REPORTED	14	-	2	1	4	2	1	2	3	1	-	...
COAL	8	3	2	1	2	-	-	-	-	-	-	...
OTHER FUEL	171	22	59	18	31	13	14	11	1	1	3	7900
NONE	74	7	17	10	12	10	3	5	9	1	-	11500
NOT REPORTED	5	-	2	1	-	-	-	-	-	2	-	...
NOT IN WORKING ORDER	180	24	54	35	31	17	9	6	2	2	-	8000
NOT REPORTED	7	-	2	-	2	2	2	1	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	5 397	642	1 371	703	1 031	701	485	354	109	34	8	9900
NOT REPORTED	19	5	-	-	8	1	3	-	2	-	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	5	5	1	2	-	-	1	-	-	-	...
ALL OCCUPIED HOUSING UNITS	20 842	1 550	3 031	2 003	3 122	2 783	2 474	3 207	1 786	628	258	16300
UNITS OCCUPIED LAST WINTER	18 416	1 257	2 579	1 725	2 688	2 453	2 230	2 976	1 676	593	240	17000
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	14 005	777	1 441	1 159	1 829	1 901	1 864	2 675	1 567	559	233	19700
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	754	1 390	1 128	1 772	1 854	1 818	2 637	1 547	557	231	19900
NO ADDITIONAL HEAT SOURCE USED	12 703	683	1 265	1 051	1 638	1 714	1 676	2 466	1 467	521	220	20000
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	788	61	95	61	98	112	114	143	66	31	8	18500
NOT REPORTED	198	10	31	16	36	27	28	28	13	6	3	16100
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	23	51	31	58	47	45	37	20	2	2	14600
RENTER OCCUPIED	4 410	480	1 138	566	858	552	366	301	108	34	7	10100
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	465	1 113	547	839	545	362	294	104	34	7	10200
NO ADDITIONAL HEAT SOURCE USED	3 691	385	931	452	703	493	330	265	96	30	5	10600
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	526	62	158	84	122	41	21	26	9	2	2	8500
NOT REPORTED	92	18	24	11	14	11	10	3	-	2	-	8100
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	15	25	20	20	7	5	7	4	-	-	8600
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	14 005	777	1 441	1 159	1 829	1 901	1 864	2 675	1 567	559	233	19700
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	754	1 390	1 128	1 772	1 854	1 818	2 637	1 547	557	231	19900
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 581	619	1 045	914	1 434	1 542	1 545	2 351	1 415	508	208	20800
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 872	120	302	194	300	280	243	258	112	44	19	15400
1 ROOM	727	41	88	59	94	121	109	120	53	34	9	18400
2 ROOMS	498	39	92	48	89	69	66	55	29	6	5	13900
3 ROOMS OR MORE	647	40	123	86	117	91	68	83	31	3	5	13200
NOT REPORTED	235	15	43	20	38	32	30	29	19	6	3	15200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	23	51	31	58	47	45	37	20	2	2	14600
RENTER OCCUPIED	4 410	480	1 138	566	858	552	366	301	108	34	7	10100
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	465	1 113	547	839	545	362	294	104	34	7	10200
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 506	340	913	436	666	460	300	263	94	27	7	10500
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	704	104	174	100	159	73	51	28	10	5	-	9200
1 ROOM	299	36	66	42	73	31	33	11	6	2	-	10400
2 ROOMS	199	36	48	29	45	21	9	4	3	3	-	8600
3 ROOMS OR MORE	205	31	61	28	42	21	9	13	1	-	-	8200
NOT REPORTED	100	21	26	11	14	12	10	3	-	2	-	7800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	15	25	20	20	7	5	7	4	-	-	8600

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
UNITS OCCUPIED LAST WINTER--CONTINUED												
INSUFFICIENT HEAT--CONTINUED												
HOUSING UNIT UNCOMFORTABLY COLD:												
OWNER OCCUPIED	14 005	777	1 441	1 159	1 829	1 901	1 864	2 675	1 567	559	233	19700
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	754	1 390	1 128	1 772	1 854	1 818	2 637	1 547	557	231	19900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	23	51	31	58	47	45	37	20	2	2	14600
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	245	20	39	20	43	40	37	28	16	2	-	15100
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	27	2	4	7	2	2	4	3	2	-	1	...
NOT REPORTED	45	2	7	4	12	5	5	6	3	-	2	13900
RENTER OCCUPIED	4 410	480	1 138	566	858	552	366	301	108	34	7	10100
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	465	1 113	547	839	545	362	294	104	34	7	10200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	15	25	20	20	7	5	7	4	-	-	8600
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	69	9	14	14	13	5	5	6	2	-	-	9300
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	4	7	4	2	-	-	-	-	-	-	...
NOT REPORTED	16	1	5	2	5	2	-	1	2	-	-	...
ALL OCCUPIED HOUSING UNITS	20 842	1 550	3 031	2 003	3 122	2 783	2 474	3 207	1 786	628	258	16300
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	14 616	813	1 478	1 196	1 922	1 988	1 953	2 794	1 645	580	245	19800
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	297	21	43	25	53	45	47	37	21	2	2	15700
WITH SELECTED HEATING EQUIPMENT[2]	14 319	792	1 435	1 171	1 870	1 943	1 906	2 757	1 624	578	243	19900
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 231	743	1 370	1 115	1 752	1 783	1 716	2 511	1 481	524	236	19600
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 051	40	62	51	113	159	186	238	141	54	6	22700
SOLAR HEATING EQUIPMENT	20	1	-	1	2	2	3	6	5	-	-	...
STOVE, BURNING WOOD OR COAL	407	12	15	15	56	64	79	95	50	17	4	22600
FIREPLACE, BURNING WOOD OR COAL	161	5	8	6	9	19	31	44	28	10	1	25500
PORTABLE ELECTRIC HEATER	322	13	28	21	33	54	52	69	31	21	-	21100
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	62	5	5	2	9	11	10	8	6	6	-	19700
OTHER	116	6	6	7	6	15	17	30	25	4	1	25600
NOT REPORTED	37	9	3	5	4	2	3	8	2	1	1	12400
RENTER OCCUPIED	6 226	736	1 553	807	1 199	795	521	413	141	48	13	10100
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	100	20	22	15	23	8	4	8	1	-	-	8700
WITH SELECTED HEATING EQUIPMENT[2]	6 126	717	1 531	791	1 177	787	517	405	140	48	13	10100
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 847	696	1 449	752	1 106	762	496	389	139	46	13	10100
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	262	16	78	38	70	23	19	15	1	2	-	9900
SOLAR HEATING EQUIPMENT	1	-	1	-	-	-	-	1	-	-	-	...
STOVE, BURNING WOOD OR COAL	40	4	8	7	10	3	4	4	-	-	-	10600
FIREPLACE, BURNING WOOD OR COAL	4	-	-	-	-	-	3	-	1	-	-	...
PORTABLE ELECTRIC HEATER	163	10	57	20	49	13	5	6	1	2	-	9100
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	20	-	3	4	2	5	5	-	-	-	-	...
OTHER	37	2	12	6	9	1	2	4	-	-	-	9000
NOT REPORTED	17	5	3	2	1	2	3	2	-	-	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
OWNER OCCUPIED	14 449	787	1 427	1 175	1 896	1 972	1 944	2 787	1 640	576	245	19900
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	14 310	772	1 404	1 163	1 889	1 949	1 929	2 760	1 633	567	244	19900
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	47	3	5	3	3	9	6	10	3	4	2	21200
NOT REPORTED	92	12	18	9	4	14	8	17	5	5	-	16200
RENTER OCCUPIED	6 122	708	1 509	798	1 184	791	520	411	140	48	13	10200
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 052	694	1 495	789	1 171	782	513	411	137	47	13	10200
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	23	4	2	7	5	3	-	-	1	-	-	...
NOT REPORTED	46	10	12	2	8	6	6	1	2	2	-	10300
AIR CONDITIONING												
OWNER OCCUPIED	14 616	813	1 478	1 196	1 922	1 988	1 953	2 794	1 645	580	245	19800
WITH AIR CONDITIONING	9 183	509	692	663	1 117	1 209	1 208	1 907	1 197	472	209	21700
ROOM UNITS	4 672	234	466	419	683	736	674	877	424	116	44	18600
1	3 210	153	385	335	517	503	455	521	253	60	28	17100
2	1 139	62	73	68	128	191	185	267	118	36	11	21300
3	253	11	8	14	35	33	24	75	35	15	3	25200
4	44	6	-	2	3	3	9	10	12	-	-	24900
5 OR MORE	26	2	-	-	-	7	1	3	7	5	2	...
CENTRAL SYSTEM	4 511	275	226	245	434	473	534	1 030	773	356	166	25700
WITH NO AIR CONDITIONING	5 432	305	786	533	805	779	745	887	448	108	36	16800
RENTER OCCUPIED	6 226	736	1 553	807	1 199	795	521	413	141	48	13	10100
WITH AIR CONDITIONING	3 280	287	624	384	693	506	333	299	104	42	8	12500
ROOM UNITS	2 240	199	469	270	488	333	218	163	68	28	3	11900
1	1 866	162	420	239	397	282	167	128	43	23	3	11400
2	322	31	39	30	81	44	43	30	22	3	-	13800
3	39	3	10	-	5	5	6	5	3	2	-	16200
4	12	3	-	2	3	2	2	-	-	-	-	...
5 OR MORE	2	-	-	-	2	-	-	-	-	-	-	...
CENTRAL SYSTEM	1 040	88	155	114	205	173	115	136	36	14	5	14000
WITH NO AIR CONDITIONING	2 946	449	929	423	506	289	188	114	37	6	5	7700

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
OWNER OCCUPIED	14 616	813	1 478	1 196	1 922	1 988	1 953	2 794	1 645	580	245	19800
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	4 511	275	226	245	434	473	534	1 030	773	356	166	25700
WITH SUPPLEMENTAL EQUIPMENT USED	2 555	114	118	137	253	244	335	595	472	198	89	26300
INDIVIDUAL ROOM AIR CONDITIONING UNIT	110	7	5	5	11	8	15	24	17	14	3	26700
AWNINGS	465	17	21	30	73	51	58	100	78	30	7	23500
DEHUMIDIFIER	941	41	38	40	91	79	113	226	190	94	30	28000
CEILING FAN	138	3	6	9	9	8	17	34	36	6	10	29900
ATTIC FAN	665	18	20	27	48	44	85	163	160	63	36	30500
WINDOW FAN	244	15	11	14	15	37	41	48	45	15	3	23700
PORTABLE FAN	1 072	37	46	65	127	121	143	259	182	68	23	24900
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 866	156	107	99	170	217	183	418	294	148	74	25000
NOT REPORTED	89	5	1	8	11	12	16	17	7	10	3	22500
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 105	538	1 252	952	1 488	1 515	1 419	1 764	872	224	80	17700
RENTER OCCUPIED	6 226	736	1 553	807	1 199	795	521	413	141	48	13	10100
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 040	88	155	114	205	173	115	136	36	14	5	14000
WITH SUPPLEMENTAL EQUIPMENT USED	319	31	43	37	62	51	22	52	16	5	-	13900
INDIVIDUAL ROOM AIR CONDITIONING UNIT	12	1	3	-	4	2	-	2	-	1	-	...
AWNINGS	28	4	6	5	-	1	2	7	2	-	-	...
DEHUMIDIFIER	36	-	3	4	7	5	2	10	6	-	-	19400
CEILING FAN	17	1	2	1	-	7	-	2	4	-	-	...
ATTIC FAN	20	3	3	-	5	2	2	4	-	-	-	...
WINDOW FAN	51	4	4	3	13	9	3	11	2	2	-	15900
PORTABLE FAN	213	22	27	27	43	41	15	30	5	3	-	13500
WITH NO SUPPLEMENTAL EQUIPMENT USED	691	56	107	72	138	116	88	81	20	8	5	14000
NOT REPORTED	30	2	4	5	5	5	5	3	-	-	-	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 186	648	1 398	693	994	622	406	277	105	35	8	9400
ALL OCCUPIED HOUSING UNITS	20 842	1 550	3 031	2 003	3 122	2 783	2 474	3 207	1 786	628	258	16300
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	15 882	963	1 818	1 338	2 223	2 153	2 088	2 840	1 644	578	236	18700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	13 815	751	1 348	1 100	1 804	1 878	1 874	2 674	1 592	563	232	20100
ALL WINDOWS COVERED	11 977	606	1 073	909	1 518	1 594	1 656	2 430	1 465	523	202	20900
SOME WINDOWS COVERED	1 300	93	178	129	206	206	159	190	88	30	23	16100
NO WINDOWS COVERED	498	47	91	56	71	76	56	50	38	9	6	14600
NOT REPORTED	40	5	6	6	9	2	3	4	1	1	2	11700
RENTER OCCUPIED	2 068	212	470	238	419	275	214	167	53	16	4	11400
ALL WINDOWS COVERED	1 307	113	284	139	264	181	152	115	43	13	2	12200
SOME WINDOWS COVERED	371	39	88	44	84	49	34	28	4	-	2	10900
NO WINDOWS COVERED	296	47	77	40	57	33	19	17	5	1	-	8800
NOT REPORTED	94	13	21	15	14	13	8	7	1	2	-	9600
STORM DOORS												
OWNER OCCUPIED	13 815	751	1 348	1 100	1 804	1 878	1 874	2 674	1 592	563	232	20100
ALL DOORS COVERED	11 236	594	1 070	907	1 475	1 513	1 548	2 211	1 315	436	166	20200
SOME DOORS COVERED	1 528	75	148	122	193	225	211	276	170	67	41	20000
NO DOORS COVERED	1 007	76	123	64	129	137	109	183	106	57	23	19100
NOT REPORTED	43	6	7	6	8	2	7	4	1	1	2	12100
RENTER OCCUPIED	2 068	212	470	238	419	275	214	167	53	16	4	11400
ALL DOORS COVERED	1 196	119	261	123	235	160	135	113	39	10	2	12000
SOME DOORS COVERED	319	30	67	45	69	45	35	20	5	2	-	11200
NO DOORS COVERED	460	51	120	55	101	58	36	27	7	2	1	10200
NOT REPORTED	93	13	21	15	13	13	8	7	1	2	-	9500
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	13 815	751	1 348	1 100	1 804	1 878	1 874	2 674	1 592	563	232	20100
YES	12 532	644	1 104	955	1 616	1 685	1 742	2 518	1 513	541	215	20800
NO	882	62	184	101	132	139	89	104	47	12	11	13600
DON'T KNOW	341	37	52	38	46	48	35	45	29	8	3	14700
NOT REPORTED	59	8	8	6	10	6	8	6	2	1	3	13700
RENTER OCCUPIED	2 068	212	470	238	419	275	214	167	53	16	4	11400
YES	1 188	116	235	133	232	159	137	117	46	10	2	12400
NO	343	44	102	40	80	31	28	15	1	3	-	8900
DON'T KNOW	441	40	110	49	93	73	40	29	5	1	1	11100
NOT REPORTED	95	13	23	15	14	13	8	7	1	2	-	9400
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	13 815	751	1 348	1 100	1 804	1 878	1 874	2 674	1 592	563	232	20100
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	498	47	91	56	71	76	56	50	38	9	6	14000
SOME OR ALL WINDOWS COVERED	13 277	700	1 251	1 038	1 724	1 799	1 814	2 620	1 553	552	225	20300
NONE INSTALLED	12 130	643	1 153	964	1 584	1 622	1 623	2 401	1 428	507	206	20300
SOME OR ALL INSTALLED	1 117	52	96	73	140	173	187	212	119	45	19	20600
NOT REPORTED	29	4	2	2	-	4	4	8	6	-	-	...
NOT REPORTED	40	5	6	6	9	2	3	4	1	1	2	11700
STORM DOORS:												
NO DOORS COVERED	1 007	76	123	64	129	137	109	183	106	57	23	19100
SOME OR ALL DOORS COVERED	12 764	669	1 218	1 030	1 668	1 738	1 758	2 487	1 485	504	207	20200
NONE INSTALLED	12 039	621	1 168	987	1 585	1 635	1 659	2 332	1 384	476	194	20100
SOME OR ALL INSTALLED	653	39	46	38	70	98	88	146	89	27	13	22100
NOT REPORTED	72	9	5	5	13	5	12	8	13	1	-	18800
NOT REPORTED	43	6	7	6	8	2	7	4	1	1	2	12100

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	882	62	184	101	132	139	89	104	47	12	11	13600
WITH ATTIC OR ROOF INSULATION	12 532	644	1 104	955	1 616	1 685	1 742	2 518	1 513	541	215	20800
NONE ADDED OR INSTALLED	11 343	595	1 025	908	1 447	1 529	1 574	2 222	1 353	492	196	20500
SOME OR ALL ADDED OR INSTALLED	1 127	41	78	43	159	151	165	276	155	45	15	22800
NOT REPORTED	62	8	1	3	10	5	3	19	6	4	4	25900
DON'T KNOW	341	37	52	38	46	48	35	45	29	8	3	14700
NOT REPORTED	59	8	8	6	10	6	8	6	2	1	3	13700
WALL INSULATION:												
NONE ADDED OR INSTALLED	12 842	704	1 282	1 057	1 688	1 727	1 719	2 454	1 466	524	221	19900
SOME OR ALL ADDED OR INSTALLED	899	38	59	38	102	143	146	205	122	38	9	22400
NOT REPORTED	74	9	6	5	14	8	10	14	4	1	2	16700
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	10 160	594	1 150	920	1 427	1 326	1 282	1 777	1 113	412	159	18700
SOME OR ALL ADDED OR INSTALLED	3 585	149	192	175	363	544	581	886	475	149	69	23200
NOT REPORTED	70	7	6	5	14	7	11	11	3	1	3	16500
OTHER INSULATION:												
NONE ADDED OR INSTALLED	12 699	713	1 291	1 036	1 675	1 677	1 688	2 432	1 463	515	209	19900
SOME OR ALL ADDED OR INSTALLED	1 051	33	51	59	115	195	179	228	124	46	21	22000
NOT REPORTED	64	6	6	5	14	6	7	13	4	1	2	16300
RENTER OCCUPIED	2 068	212	470	238	419	275	214	167	53	16	4	11400
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	296	47	77	40	57	33	19	17	5	1	-	8800
SOME OR ALL WINDOWS COVERED	1 678	153	372	183	348	230	187	143	46	13	4	11900
NONE INSTALLED	1 456	132	314	153	296	202	167	134	43	12	4	12200
SOME OR ALL INSTALLED	202	19	52	28	48	25	17	9	3	1	-	10200
NOT REPORTED	19	2	6	2	4	3	3	-	-	-	-	...
NOT REPORTED	94	13	21	15	14	13	8	7	1	2	-	9600
STORM DOORS:												
NO DOORS COVERED	460	51	120	55	101	58	36	27	7	2	1	10200
SOME OR ALL DOORS COVERED	1 515	149	328	168	305	205	170	133	44	11	2	11800
NONE INSTALLED	1 407	139	308	155	272	196	158	125	42	11	2	11900
SOME OR ALL INSTALLED	79	7	13	11	22	7	10	7	2	-	-	11900
NOT REPORTED	29	3	8	2	11	2	2	1	-	-	-	...
NOT REPORTED	93	13	21	15	13	13	8	7	1	2	-	9500
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	343	44	102	40	80	31	28	15	1	3	-	8900
WITH ATTIC OR ROOF INSULATION	1 188	116	235	133	232	159	137	117	46	10	2	12400
NONE ADDED OR INSTALLED	1 094	100	215	121	207	152	134	108	44	10	2	12700
SOME OR ALL ADDED OR INSTALLED	87	16	17	12	22	7	3	9	2	-	-	9700
NOT REPORTED	7	-	4	-	3	-	-	-	-	-	-	...
DON'T KNOW	441	40	110	49	93	73	40	29	5	1	1	11100
NOT REPORTED	95	13	23	15	14	13	8	7	1	2	-	9400
WALL INSULATION:												
NONE ADDED OR INSTALLED	1 885	192	432	215	382	250	193	155	50	14	4	11400
SOME OR ALL ADDED OR INSTALLED	50	6	6	5	12	5	8	6	2	-	-	13200
NOT REPORTED	133	15	32	18	25	20	13	7	1	2	-	10300
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	1 644	177	380	196	327	208	172	128	42	12	2	11100
SOME OR ALL ADDED OR INSTALLED	290	21	59	24	67	46	29	32	9	2	1	13000
NOT REPORTED	134	15	30	18	25	22	13	7	1	2	-	10700
OTHER INSULATION:												
NONE ADDED OR INSTALLED	1 860	188	422	213	376	246	195	152	50	14	4	11400
SOME OR ALL ADDED OR INSTALLED	74	9	16	7	18	8	6	8	2	-	-	11400
NOT REPORTED	134	15	32	18	25	21	13	7	1	2	-	10400
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	13 815	751	1 348	1 100	1 804	1 878	1 874	2 674	1 592	563	232	20100
NO INSULATION ADDED OR INSTALLED	8 443	519	1 010	797	1 176	1 109	1 016	1 435	907	342	131	18200
WITH INSULATION ADDED OR INSTALLED	5 206	214	327	289	601	750	839	1 206	670	213	97	22500
LESS THAN $50	2 680	96	190	166	295	399	469	618	317	86	42	22100
$50 TO $99	564	27	24	33	61	86	91	135	75	20	11	22800
$100 TO $249	724	26	36	28	89	109	103	180	100	42	11	23600
$250 TO $499	473	19	21	22	56	50	80	122	67	22	14	24200
$500 TO $999	302	15	20	13	42	51	43	52	37	22	7	21200
$1,000 OR MORE	252	15	18	13	35	35	26	54	36	13	7	21900
DON'T KNOW	115	11	9	10	10	13	13	24	17	3	3	21400
NOT REPORTED	96	5	9	3	13	6	14	20	20	4	2	24700
MEDIAN	50-	55	50-	50-	50-	50-	50-	50-	50-	90	66	...
NOT REPORTED OR DON'T KNOW	166	17	11	14	27	19	18	32	15	8	4	18400
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	349	13	38	28	64	44	60	57	26	14	5	18600
LESS THAN $50	196	7	28	18	36	25	41	28	7	3	2	16600
$50 TO $99	27	4	2	2	1	3	3	7	2	3	-	...
$100 TO $249	28	-	2	2	5	4	5	2	7	2	-	...
$250 TO $499	30	-	2	4	8	4	2	8	-	2	-	...
$500 TO $999	25	2	2	1	8	4	2	2	3	2	-	...
$1,000 OR MORE	8	-	-	-	-	2	1	2	2	-	2	...
DON'T KNOW	11	-	1	2	2	1	-	2	2	1	-	...
NOT REPORTED	25	-	2	-	4	-	6	5	4	2	2	...
MEDIAN	50-	...	...	...	50-	50-	50-	50-	...	...	...	...

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ONLY INSTALLED STORM DOORS	192	8	11	12	21	32	33	45	21	4	4	21700
LESS THAN $50	26	2	2	4	7	5	6	2	-	-	-	...
$50 TO $99	55	2	2	3	2	7	17	11	9	-	-	22900
$100 TO $249	73	2	6	3	7	17	5	23	6	3	3	22600
$250 TO $499	18	-	-	1	1	2	2	6	3	1	1	...
$500 TO $999	7	-	-	-	2	-	2	2	1	-	-	...
$1,000 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
DON'T KNOW	2	-	-	-	1	-	-	1	-	-	-	...
NOT REPORTED	12	3	3	1	2	-	2	-	2	-	-	...
MEDIAN	117	...	...	...	...	...	...	161	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	507	27	37	28	78	54	67	117	72	17	10	22200
LESS THAN $50	50	2	5	3	5	7	10	12	6	1	-	21800
$50 TO $99	67	5	5	1	10	11	7	15	10	3	-	21400
$100 TO $249	166	8	9	8	23	18	26	36	26	9	3	23300
$250 TO $499	107	3	8	6	17	8	15	25	21	-	4	23600
$500 TO $999	55	5	5	4	10	4	3	13	7	3	1	19000
$1,000 OR MORE	26	1	3	1	6	3	2	8	-	-	2	...
DON'T KNOW	16	2	2	5	2	2	2	2	1	-	-	...
NOT REPORTED	19	2	1	-	5	1	2	7	2	1	-	...
MEDIAN	206	...	...	...	236	165	182	213	205	...	...	...
ALL OCCUPIED HOUSING UNITS	20 842	1 550	3 031	2 003	3 122	2 783	2 474	3 207	1 786	628	258	16300
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	10 218	487	330	403	1 028	1 519	1 655	2 540	1 513	536	208	24100
DRIVES SELF	7 366	336	203	254	710	1 099	1 180	1 856	1 142	422	164	24600
CARPOOL	1 677	50	39	62	148	250	302	488	248	68	22	24800
MASS TRANSPORTATION	290	28	5	22	24	33	36	62	52	18	11	24700
BICYCLE, MOTORCYCLE, OR MOPED	146	2	2	4	18	34	42	32	9	2	-	21400
TAXICAB	3	-	-	-	-	-	-	2	-	-	2	...
WALKS ONLY	233	15	21	19	32	45	39	41	10	7	4	18200
OTHER MEANS	21	2	1	1	2	4	2	3	4	-	2	...
WORKS AT HOME	483	53	59	41	94	54	53	57	48	19	5	14700
RENTER OCCUPIED	3 929	275	477	521	956	684	460	379	126	38	13	13600
DRIVES SELF	2 480	157	242	289	622	457	310	277	87	30	10	14400
CARPOOL	606	39	59	88	145	113	86	55	18	2	-	14000
MASS TRANSPORTATION	351	32	65	69	77	48	25	23	6	3	2	10600
BICYCLE, MOTORCYCLE, OR MOPED	92	6	19	11	20	16	13	3	4	-	-	12600
TAXICAB	13	1	3	6	4	-	-	-	-	-	-	...
WALKS ONLY	265	25	67	40	61	35	16	14	5	1	2	10000
OTHER MEANS	6	2	2	1	1	-	1	-	-	-	-	...
WORKS AT HOME	114	13	20	16	25	15	11	7	6	1	-	11600
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]												
OWNER OCCUPIED	10 218	487	330	403	1 028	1 519	1 655	2 540	1 513	536	208	24100
HOUSEHOLDER DRIVES ALONE	7 366	336	203	254	710	1 099	1 180	1 856	1 142	422	164	24600
IRREGULAR OR UNUSUAL WORK HOURS	2 351	101	61	76	208	291	386	621	397	148	63	25900
IRREGULAR WORK LOCATION	658	26	17	17	65	96	96	168	117	44	13	25800
CAR NEEDED FOR WORK OR ERRANDS	1 062	44	29	26	86	120	163	267	199	83	45	27400
DOESN'T KNOW ANYONE TO RIDE WITH	1 697	81	50	76	199	296	289	406	205	73	20	22500
LIKES PRIVACY	277	25	6	9	29	44	35	77	32	12	8	23600
OUT OF THE WAY TO PICK UP OTHERS	529	23	16	13	62	104	86	128	71	23	4	22800
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	82	5	-	3	10	8	14	25	14	1	1	24900
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	193	4	2	11	8	27	34	51	44	9	3	27100
DOESN'T TRUST OTHERS DRIVING	17	1	1	1	3	6	2	2	2	-	-	...
SOME OTHER REASON	479	22	21	22	40	105	74	104	60	28	3	22000
NOT REPORTED	20	4	-	-	1	3	1	6	2	2	2	...
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	2 852	151	128	148	318	419	475	683	370	115	44	22800
RENTER OCCUPIED	3 929	275	477	521	956	684	460	379	126	38	13	13600
HOUSEHOLDER DRIVES ALONE	2 480	157	242	289	622	457	310	277	87	30	10	14400
IRREGULAR OR UNUSUAL WORK HOURS	757	25	93	82	168	141	99	95	42	9	4	15400
IRREGULAR WORK LOCATION	181	5	13	16	57	22	21	36	11	-	-	15000
CAR NEEDED FOR WORK OR ERRANDS	293	20	23	22	73	54	36	45	9	10	-	15800
DOESN'T KNOW ANYONE TO RIDE WITH	674	55	64	102	176	120	86	42	16	7	5	13300
LIKES PRIVACY	134	5	8	14	34	34	15	21	2	2	-	15800
OUT OF THE WAY TO PICK UP OTHERS	162	14	22	23	38	35	17	11	3	-	-	13000
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	39	2	3	7	8	9	8	1	-	-	-	14700
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	53	4	-	5	18	13	8	5	-	-	-	14800
DOESN'T TRUST OTHERS DRIVING	8	-	-	-	3	-	3	-	-	2	-	...
SOME OTHER REASON	169	23	15	16	46	29	16	21	2	-	-	13300
NOT REPORTED	11	4	1	1	2	-	1	-	2	-	-	...
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	1 448	118	235	231	333	227	151	102	39	8	3	12100

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	10 218	487	330	403	1 028	1 519	1 655	2 540	1 513	536	208	24100
LESS THAN 1 MILE	693	25	44	44	90	127	124	138	68	24	8	20700
1 TO 4 MILES	2 235	101	62	89	251	344	373	579	308	99	29	23600
5 TO 9 MILES	1 919	84	44	95	185	334	318	469	260	88	43	23400
10 TO 19 MILES	2 129	77	29	48	174	317	379	581	342	128	55	25700
20 TO 29 MILES	824	45	24	20	62	99	118	256	150	39	12	25800
30 TO 49 MILES	472	28	10	16	36	59	92	124	76	20	11	24800
50 MILES OR MORE	248	4	9	6	25	33	43	67	40	15	5	25500
WORKS AT HOME	483	53	59	41	94	54	53	57	48	19	5	14700
NO FIXED PLACE OF WORK	1 215	70	49	45	112	152	155	268	222	103	39	25900
MEDIAN	8.5	8.3	5.5	6.3	6.9	7.8	8.5	9.2	9.7	9.8	10.3	...
RENTER OCCUPIED	3 929	275	477	521	956	684	460	379	126	38	13	13600
LESS THAN 1 MILE	436	44	89	58	118	62	25	27	7	2	3	11100
1 TO 4 MILES	1 105	80	169	161	252	200	131	70	30	10	2	12800
5 TO 9 MILES	809	53	80	106	226	148	104	62	25	3	2	13700
10 TO 19 MILES	680	31	57	80	163	127	90	93	25	11	2	15300
20 TO 29 MILES	222	14	14	28	51	42	30	36	5	2	-	15400
30 TO 49 MILES	127	10	5	17	31	25	19	16	1	2	-	15100
50 MILES OR MORE	80	1	5	12	22	17	6	11	4	-	3	15100
WORKS AT HOME	114	13	20	16	25	15	11	7	6	1	-	11600
NO FIXED PLACE OF WORK	355	29	39	42	66	47	44	59	22	6	1	15200
MEDIAN	6.2	4.6	3.8	5.6	6.4	6.6	7.2	9.9	7.5	...	...	...
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	10 218	487	330	403	1 028	1 519	1 655	2 540	1 513	536	208	24100
LESS THAN 15 MINUTES	3 212	125	104	145	359	528	541	791	424	142	54	23200
15 TO 29 MINUTES	3 091	130	62	103	263	501	527	833	455	158	59	24600
30 TO 44 MINUTES	1 261	51	23	33	115	167	215	344	217	68	29	25800
45 TO 59 MINUTES	505	34	22	22	38	65	97	131	69	18	10	23700
1 HOUR TO 1 HOUR AND 29 MINUTES	260	16	9	9	23	34	35	62	47	17	8	25600
1 HOUR AND 30 MINUTES OR MORE	190	7	4	4	23	19	32	55	30	12	4	26100
WORKS AT HOME	483	53	59	41	94	54	53	57	48	19	5	14700
NO FIXED PLACE OF WORK	1 215	70	49	45	112	152	155	268	222	103	39	25900
MEDIAN	20.1	21.5	16.8	16.9	18.0	18.8	20.2	20.7	21.5	21.2	22.2	...
RENTER OCCUPIED	3 929	275	477	521	956	684	460	379	126	38	13	13600
LESS THAN 15 MINUTES	1 411	102	214	186	345	254	164	97	36	9	5	13000
15 TO 29 MINUTES	1 247	80	134	163	315	213	147	129	47	14	5	13900
30 TO 44 MINUTES	448	29	33	64	115	85	63	43	10	5	-	14200
45 TO 59 MINUTES	184	12	28	21	46	35	17	22	1	2	-	13400
1 HOUR TO 1 HOUR AND 29 MINUTES	98	8	1	18	22	19	12	14	1	-	3	15100
1 HOUR AND 30 MINUTES OR MORE	71	2	9	11	20	15	2	8	4	-	-	13200
WORKS AT HOME	114	13	20	16	25	15	11	7	6	1	-	11600
NO FIXED PLACE OF WORK	355	29	39	42	66	47	44	59	22	6	1	15200
MEDIAN	18.8	17.8	15.0-	19.2	19.1	19.0	18.9	21.9	19.1	...	...	...

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE C-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	11 653	219	714	1 374	1 933	1 986	1 553	1 769	1 308	712	84	48000
HOUSE HEATING FUEL												
UTILITY GAS	8 986	137	558	1 074	1 487	1 553	1 220	1 336	991	564	65	48000
BOTTLED, TANK, OR LP GAS	490	35	51	68	93	85	60	56	29	14	-	39800
FUEL OIL	1 198	31	74	159	249	199	149	169	107	56	5	44300
KEROSENE, ETC	6	-	-	1	3	-	2	-	-	-	-	...
ELECTRICITY	880	2	15	57	86	138	119	197	174	77	14	61700
COAL OR COKE	16	2	4	3	1	2	-	2	3	-	-	...
WOOD	72	11	11	10	13	9	4	10	5	-	-	33200
SOLAR HEAT	1	-	-	-	-	-	-	-	-	1	-	...
OTHER FUEL	4	2	1	-	1	-	-	-	-	-	-	...
NONE	1	-	-	1	-	-	-	-	-	-	-	...
WATER HEATING FUEL[2]												
UTILITY GAS	8 318	114	484	981	1 380	1 454	1 133	1 252	924	535	61	48300
BOTTLED, TANK, OR LP GAS	390	25	37	51	74	77	47	50	20	9	-	40900
FUEL OIL	86	-	3	7	9	17	17	13	12	7	-	53900
KEROSENE, ETC	1	-	-	-	-	-	-	-	1	-	-	...
ELECTRICITY	2 747	54	162	315	460	428	353	446	346	160	23	48900
COAL OR COKE	1	-	-	-	-	-	-	-	1	-	-	...
WOOD	2	-	1	-	1	-	-	-	1	-	-	...
SOLAR HEAT	2	-	-	-	-	-	-	-	2	1	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	-	-	-	...
NONE	7	2	2	3	-	-	-	-	-	-	-	...
COOKING FUEL												
UTILITY GAS	4 826	114	408	758	917	784	577	586	463	196	22	42800
BOTTLED, TANK, OR LP GAS	443	45	68	75	78	76	34	40	20	7	-	34400
FUEL OIL	11	-	3	2	1	-	-	3	2	-	-	...
KEROSENE, ETC	3	-	-	-	-	1	-	-	2	-	-	...
ELECTRICITY	6 354	59	234	537	934	1 124	938	1 138	821	508	61	53100
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	11	2	1	2	1	1	3	1	1	-	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	-	-	-	...
NONE	4	1	-	-	2	-	2	-	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	11 648	219	714	1 374	1 931	1 986	1 553	1 769	1 306	712	84	48000
LESS THAN $10	79	13	10	13	20	8	5	3	2	5	-	31600
$10 TO $19	916	36	142	201	177	153	86	80	21	19	2	34500
$20 TO $29	2 242	64	203	382	450	437	282	254	126	41	3	40500
$30 TO $39	2 645	44	170	308	520	469	381	419	256	67	12	46000
$40 TO $49	1 891	27	87	205	299	359	259	299	233	116	7	49100
$50 TO $59	1 436	11	47	115	220	211	218	271	216	121	6	55200
$60 TO $79	1 410	11	36	108	178	228	207	263	205	156	17	56900
$80 TO $99	446	5	7	20	35	55	54	80	109	76	5	68900
$100 TO $149	444	6	7	20	23	44	56	82	104	80	22	72200
$150 OR MORE	138	2	4	2	10	22	5	19	34	30	10	79100
MEDIAN	39	29	30	33	36	38	41	44	51	58	74	...
NO ELECTRICITY USED	5	1	-	-	2	-	-	-	2	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	10 072	194	661	1 234	1 693	1 734	1 339	1 469	1 069	610	70	47200
LESS THAN $10	247	10	32	45	49	28	33	31	12	7	-	37400
$10 TO $14	211	13	30	33	42	39	17	17	17	4	-	37100
$15 TO $19	273	12	34	45	59	53	37	15	15	2	2	37900
$20 TO $24	498	12	65	81	114	86	45	56	23	13	2	37900
$25 TO $29	658	18	61	83	125	128	98	77	47	22	-	43300
$30 TO $39	2 019	29	122	271	419	396	295	285	144	54	4	44300
$40 TO $49	2 127	24	103	226	350	436	296	355	250	79	6	48200
$50 TO $69	2 867	48	142	321	384	426	382	497	397	251	20	53000
$70 TO $99	876	12	51	103	115	108	111	104	132	121	19	54400
$100 OR MORE	296	16	21	26	36	35	25	33	31	56	18	55700
MEDIAN	45	41	38	42	41	43	44	46	51	59	72	...
NO GAS USED	1 581	25	54	140	241	252	214	299	239	102	14	53700
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 984	48	122	212	316	279	235	303	280	167	20	50600
LESS THAN $100	481	6	16	28	43	50	56	92	106	78	5	66700
$100 TO $199	235	7	18	18	24	22	24	34	50	31	7	61700
$200 TO $299	116	2	14	14	17	14	10	13	24	9	-	48400
$300 TO $399	129	6	14	22	21	26	12	12	11	2	2	40400
$400 TO $499	115	6	2	24	31	20	10	15	2	4	-	38000
$500 TO $599	164	5	12	24	33	29	23	21	14	4	-	43100
$600 TO $699	173	4	7	18	28	37	27	29	16	6	2	47900
$700 TO $799	129	4	7	15	32	18	20	14	14	3	1	43500
$800 OR MORE	442	9	32	49	87	63	53	74	42	29	4	47100
MEDIAN	427	458	397	496	564	527	523	410	166	116	...	...
FUELS NOT USED OR FREE	9 669	171	592	1 162	1 618	1 707	1 318	1 465	1 028	545	63	47600
HEATING EQUIPMENT												
WARM-AIR FURNACE	9 376	95	481	1 070	1 632	1 688	1 321	1 426	1 033	568	64	48400
HEAT PUMP	169	-	-	1	3	9	13	45	58	35	5	80800
STEAM OR HOT WATER	882	5	25	76	119	139	114	171	137	85	11	56700
BUILT-IN ELECTRIC UNITS	431	2	11	39	54	87	68	86	64	16	5	53400
FLOOR, WALL, OR PIPELESS FURNACE	255	16	60	77	58	21	12	2	4	5	-	26700
ROOM HEATERS WITH FLUE	364	83	109	81	42	20	12	14	2	2	-	19100
ROOM HEATERS WITHOUT FLUE	17	3	4	6	1	1	1	1	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	158	16	25	24	24	22	11	25	11	1	-	36000
NONE	1	-	-	1	-	-	-	-	-	-	-	...

[1] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE C-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	11 652	219	714	1 373	1 933	1 986	1 553	1 769	1 308	712	84	48000
WITH FIREPLACE OR HEATING STOVE	4 972	76	177	328	483	626	622	1 013	922	647	79	62600
IN WORKING ORDER	4 723	69	161	282	437	577	587	976	913	641	79	63800
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	3 796	37	94	186	329	444	475	815	792	559	64	66100
ALL PURCHASED	1 202	11	25	39	68	119	126	239	303	246	26	73400
SOME OR NONE PURCHASED	2 544	25	69	143	257	320	341	568	477	309	36	63100
NOT REPORTED	50	1	1	4	4	6	8	8	13	4	2	63100
COAL	16	2	3	3	2	1	1	2	2	2	-	...
OTHER FUEL	489	28	47	59	62	57	56	85	54	30	12	48500
NONE	408	1	17	31	45	74	55	69	61	50	3	56400
NOT REPORTED	13	1	-	2	-	1	-	6	5	-	-	...
NOT IN WORKING ORDER	240	6	15	44	44	49	33	36	7	6	-	42300
NOT REPORTED	9	1	1	2	3	-	2	-	2	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	6 653	144	537	1 042	1 448	1 355	928	751	379	65	3	41100
NOT REPORTED	27	-	-	3	2	4	4	5	7	-	2	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	1	-	-	-	-	-	-	-	...
SPECIFIED OWNER OCCUPIED[1]	11 653	219	714	1 374	1 933	1 986	1 553	1 769	1 308	712	84	48000
UNITS OCCUPIED LAST WINTER	11 202	211	687	1 326	1 876	1 915	1 502	1 685	1 251	672	77	47800
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	11 030	193	659	1 297	1 852	1 892	1 489	1 660	1 240	671	77	48000
NO ADDITIONAL HEAT SOURCE USED	10 285	166	578	1 188	1 736	1 777	1 404	1 570	1 158	632	74	48300
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	611	22	74	94	97	84	66	69	69	33	2	42200
NOT REPORTED	135	5	8	16	18	30	19	21	13	6	-	47000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	171	18	27	29	24	23	12	25	11	1	-	34600
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	11 030	193	659	1 297	1 852	1 892	1 489	1 660	1 240	671	77	48000
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	9 514	87	425	977	1 561	1 684	1 348	1 537	1 183	635	77	50200
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 351	101	223	302	272	167	120	96	41	29	-	31800
1 ROOM	571	30	58	103	111	89	68	67	25	22	-	38600
2 ROOMS	355	37	58	90	57	53	30	16	10	4	-	29100
3 ROOMS OR MORE	424	34	108	109	104	25	23	13	6	3	-	26500
NOT REPORTED	165	5	11	18	19	41	21	27	16	7	-	47200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	171	18	27	29	24	23	12	25	11	1	-	34600
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	11 030	193	659	1 297	1 852	1 892	1 489	1 660	1 240	671	77	48000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	171	18	27	29	24	23	12	25	11	1	-	34600
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	133	17	17	24	22	18	10	17	9	-	-	33900
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	15	1	5	2	1	2	-	3	1	-	-	...
NOT REPORTED	23	-	5	3	2	3	2	5	2	1	-	...
SPECIFIED OWNER OCCUPIED[1]	11 653	219	714	1 374	1 933	1 986	1 553	1 769	1 308	712	84	48000
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	159	16	25	25	24	22	11	25	11	1	-	35800
WITH SELECTED HEATING EQUIPMENT[3]	11 493	204	690	1 349	1 909	1 964	1 542	1 744	1 297	711	84	48100
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 656	189	648	1 269	1 789	1 840	1 425	1 593	1 172	650	82	47800
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	805	15	42	78	116	123	110	147	115	56	2	52500
SOLAR HEATING EQUIPMENT	15	-	-	2	2	1	3	2	5	1	-	...
STOVE, BURNING WOOD OR COAL	289	5	11	33	45	53	39	51	37	15	-	49500
FIREPLACE, BURNING WOOD OR COAL	123	-	3	10	8	20	20	26	24	13	-	60700
PORTABLE ELECTRIC HEATER	262	6	21	27	47	34	27	47	33	19	-	48600
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	51	2	6	5	7	6	10	8	5	3	-	50300
OTHER	91	2	2	3	12	12	13	20	16	8	2	60900
NOT REPORTED	32	-	-	2	4	2	7	4	10	4	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 438	193	685	1 330	1 914	1 959	1 532	1 744	1 291	706	84	48200
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	36	-	-	12	3	3	9	5	2	2	-	48800
NOT REPORTED	73	-	2	14	8	13	9	13	11	3	-	49500
AIR CONDITIONING												
WITH AIR CONDITIONING	7 515	83	355	717	1 176	1 236	1 080	1 230	982	583	74	51800
ROOM UNITS	3 682	71	316	568	789	671	502	449	229	86	2	41400
1	2 483	60	247	405	535	439	321	284	138	52	2	39900
2	940	10	59	131	199	181	157	123	54	26	-	43900
3	207	1	9	30	48	39	17	33	25	5	-	44000
4	34	-	-	2	3	9	3	8	7	2	-	...
5 OR MORE	18	-	-	-	3	3	3	2	4	2	-	...
CENTRAL SYSTEM	3 833	11	39	149	387	565	578	781	753	497	72	63600
WITH NO AIR CONDITIONING	4 138	137	359	657	757	750	473	539	326	129	10	42100

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 833	11	39	149	387	565	578	781	753	497	72	63600
WITH SUPPLEMENTAL EQUIPMENT USED	2 235	8	24	91	217	344	341	449	441	287	33	63100
INDIVIDUAL ROOM AIR CONDITIONING UNIT	101	2	2	9	18	11	13	21	13	12	-	56100
AWNINGS	411	1	4	24	57	79	71	75	64	35	2	55800
DEHUMIDIFIER	847	2	6	16	59	138	124	154	203	131	15	67700
CEILING FAN	119	2	4	1	5	14	14	25	26	25	3	71700
ATTIC FAN	622	1	1	12	42	87	93	133	148	90	17	68600
WINDOW FAN	212	-	2	24	36	28	27	50	28	19	-	56400
PORTABLE FAN	900	4	11	49	95	155	157	188	147	90	5	58700
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 528	3	15	57	161	206	223	321	303	200	39	64700
NOT REPORTED	70	-	-	2	9	15	14	11	9	10	-	58300
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 820	208	675	1 225	1 546	1 421	975	988	555	215	12	41800
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	10 158	134	514	1 082	1 636	1 769	1 418	1 631	1 239	659	76	49700
SOME WINDOWS COVERED	1 053	47	134	210	227	154	87	110	35	44	4	36000
NO WINDOWS COVERED	413	38	66	73	70	53	43	25	32	9	3	34100
NOT REPORTED	29	-	-	10	1	10	5	3	1	-	-	***
STORM DOORS												
ALL DOORS COVERED	9 687	135	531	1 124	1 702	1 759	1 363	1 521	1 013	500	38	47700
SOME DOORS COVERED	1 177	37	105	159	170	163	121	138	160	109	18	47300
NO DOORS COVERED	755	47	78	80	61	53	64	107	134	103	28	59200
NOT REPORTED	34	1	-	11	1	11	5	3	2	-	-	***
ATTIC OR ROOF INSULATION												
YES	10 645	148	549	1 129	1 759	1 863	1 473	1 708	1 254	683	79	49300
NO	689	54	136	183	139	56	44	35	25	15	2	28500
DON'T KNOW	269	17	27	52	35	52	29	18	25	12	2	40500
NOT REPORTED	50	-	2	11	1	15	7	8	4	2	2	47900
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	413	38	66	73	70	53	43	25	32	9	3	34100
SOME OR ALL WINDOWS COVERED	11 211	181	648	1 291	1 863	1 923	1 505	1 742	1 275	703	80	48400
NONE INSTALLED	10 250	154	571	1 147	1 711	1 776	1 392	1 588	1 199	642	72	48700
SOME OR ALL INSTALLED	933	27	74	144	148	144	111	145	74	56	9	45100
NOT REPORTED	28	-	3	1	3	3	2	9	2	5	-	***
NOT REPORTED	29	-	-	10	1	10	5	3	1	-	-	***
STORM DOORS:												
NO DOORS COVERED	755	47	78	80	61	53	64	107	134	103	28	59200
SOME OR ALL DOORS COVERED	10 864	172	636	1 283	1 872	1 922	1 484	1 658	1 173	609	56	47600
NONE INSTALLED	10 243	158	603	1 199	1 788	1 837	1 411	1 549	1 090	555	52	47500
SOME OR ALL INSTALLED	562	14	30	76	72	80	66	95	80	47	4	51500
NOT REPORTED	59	-	3	8	12	5	7	14	2	7	-	51600
NOT REPORTED	34	1	-	11	1	11	5	3	2	-	-	***
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	689	54	136	183	139	56	44	35	25	15	2	28500
WITH ATTIC OR ROOF INSULATION	10 645	148	549	1 129	1 759	1 863	1 473	1 708	1 254	683	79	49300
NONE ADDED OR INSTALLED	9 611	132	506	1 004	1 611	1 697	1 331	1 504	1 138	618	71	49200
SOME OR ALL ADDED OR INSTALLED	982	16	42	119	144	162	141	191	104	56	6	50500
NOT REPORTED	52	-	2	6	3	4	2	13	12	9	2	70400
DON'T KNOW	269	17	27	52	35	52	29	18	25	12	2	40500
NOT REPORTED	50	-	2	11	1	15	7	8	4	2	2	47900
WALL INSULATION:												
NONE ADDED OR INSTALLED	10 831	207	671	1 262	1 799	1 844	1 432	1 650	1 211	676	50	48000
SOME OR ALL ADDED OR INSTALLED	764	12	40	98	129	127	113	114	91	36	4	48100
NOT REPORTED	58	-	3	14	6	15	9	5	6	-	-	43800
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	8 471	190	555	1 058	1 457	1 418	1 072	1 232	894	523	72	46900
SOME OR ALL ADDED OR INSTALLED	3 128	30	157	301	470	555	472	532	410	189	12	51100
NOT REPORTED	54	-	2	15	7	13	9	5	4	-	-	42700
OTHER INSULATION:												
NONE ADDED OR INSTALLED	10 772	206	678	1 287	1 819	1 833	1 437	1 608	1 182	648	75	47600
SOME OR ALL ADDED OR INSTALLED	831	14	34	75	108	141	109	155	122	64	9	53900
NOT REPORTED	50	-	2	12	7	13	7	7	4	-	-	44100
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	7 049	150	484	845	1 250	1 194	894	990	758	427	56	46700
WITH INSULATION ADDED OR INSTALLED	4 471	67	222	502	669	774	642	755	535	278	28	50000
LESS THAN $50	2 279	38	134	257	350	419	325	364	267	120	5	48600
$50 TO $99	498	4	28	55	75	83	69	86	73	23	2	50500
$100 TO $249	627	14	18	76	82	103	105	119	64	39	6	51900
$250 TO $499	411	4	15	38	52	70	54	70	58	45	4	54900
$500 TO $999	266	3	12	22	50	41	31	47	30	22	7	51300
$1,000 OR MORE	213	-	6	30	31	36	32	36	22	18	3	51100
DON'T KNOW	96	2	7	11	11	15	16	18	9	7	-	51200
NOT REPORTED	82	-	2	11	20	7	10	15	13	3	2	51800
MEDIAN	50-	50-	50-	50-	50-	50-	50-	50-	50-	79	***	***
NOT REPORTED OR DON'T KNOW	133	3	8	28	14	17	17	24	14	6	-	47700

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE C-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	287	18	19	55	44	41	32	40	14	15	8	41600
LESS THAN $50	156	17	13	37	24	23	20	13	6	2	-	34500
$50 TO $99	22	1	2	2	5	3	2	6	2	1	-	...
$100 TO $249	24	1	1	8	1	1	-	7	2	3	-	...
$250 TO $499	28	-	2	4	4	5	-	9	-	2	2	...
$500 TO $999	22	-	-	1	4	2	6	2	3	2	3	...
$1,000 OR MORE	8	-	-	-	-	2	1	-	1	3	2	...
DON'T KNOW	7	-	-	2	2	1	3	-	-	-	-	...
NOT REPORTED	21	-	2	2	5	5	2	3	-	1	2	...
MEDIAN	50-	...	...	50-	50-	50-	...	93	...	...	...	...
ONLY INSTALLED STORM DOORS	167	6	7	25	26	20	22	27	19	15	1	50000
LESS THAN $50	24	2	1	6	10	4	1	1	-	-	-	...
$50 TO $99	49	-	2	8	7	6	8	6	7	5	-	51700
$100 TO $249	63	5	2	7	7	8	8	16	5	5	1	54300
$250 TO $499	13	-	-	-	1	1	3	3	2	4	-	...
$500 TO $999	7	-	2	-	-	-	-	2	2	2	-	...
$1,000 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
DON'T KNOW	1	-	-	-	-	1	-	-	-	-	-	...
NOT REPORTED	12	-	-	4	2	-	2	-	3	-	-	...
MEDIAN	111	...	...	...	...	...	...	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	442	6	10	55	69	84	63	84	46	24	2	49600
LESS THAN $50	43	1	2	8	9	10	4	3	5	-	1	41900
$50 TO $99	62	-	-	11	6	19	2	11	10	2	-	47200
$100 TO $249	147	2	4	12	24	26	28	29	14	6	-	51200
$250 TO $499	92	1	-	13	4	18	18	21	8	9	-	55700
$500 TO $999	48	1	2	2	12	7	6	9	5	6	-	52600
$1,000 OR MORE	21	-	-	6	7	2	3	1	-	2	1	...
DON'T KNOW	13	1	2	1	3	3	1	2	2	-	-	...
NOT REPORTED	16	-	-	2	4	-	-	7	2	-	-	...
MEDIAN	203	...	...	188	196	165	229	217	167	...	...	...

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE C-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]	6 010	426	571	1 055	1 322	1 034	665	305	227	112	294	230
HOUSE HEATING FUEL												
UTILITY GAS	4 379	281	433	794	1 000	749	484	217	168	86	167	229
BOTTLED, TANK, OR LP GAS	192	9	22	52	31	12	12	5	5	4	37	193
FUEL OIL	580	43	47	101	108	102	68	30	16	6	59	231
KEROSENE, ETC	2	-	-	-	-	-	-	-	2	-	-	...
ELECTRICITY	782	80	49	102	166	165	95	52	36	16	21	244
COAL OR COKE	13	1	5	1	3	-	2	-	-	-	1	...
WOOD	22	5	5	1	5	2	1	-	-	-	5	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	5	4	3	5	5	3	-	-	-	2	...
NONE	14	2	6	-	3	-	-	-	-	-	2	...
WATER HEATING FUEL[2]												
UTILITY GAS	4 293	289	419	781	983	744	464	217	161	83	153	229
BOTTLED, TANK, OR LP GAS	156	8	18	41	27	14	8	4	3	3	30	195
FUEL OIL	46	1	2	19	10	7	1	2	-	-	3	195
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 410	98	108	202	291	269	184	81	64	26	88	243
COAL OR COKE	3	-	1	-	-	-	2	-	-	-	-	...
WOOD	2	-	1	1	1	-	-	-	-	-	-	...
SOLAR HEAT	6	5	1	-	-	-	-	-	-	-	-	...
OTHER FUEL	8	5	-	1	2	-	-	-	-	-	1	...
NONE	21	7	5	2	2	-	2	-	-	-	5	...
COOKING FUEL												
UTILITY GAS	3 188	229	363	642	759	532	297	134	77	45	109	220
BOTTLED, TANK, OR LP GAS	223	16	28	52	36	18	13	4	4	3	48	190
FUEL OIL	11	2	-	2	4	-	-	-	-	2	1	...
KEROSENE, ETC	1	-	1	-	-	-	-	-	-	-	-	...
ELECTRICITY	2 544	161	167	349	519	484	354	167	146	63	134	251
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	2	1	-	1	-	-	-	-	-	-	1	...
OTHER FUEL	3	-	-	2	-	-	-	-	-	-	1	...
NONE	37	16	11	7	3	-	-	-	-	-	-	111
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	5 014	208	398	784	1 165	984	649	290	219	106	210	243
LESS THAN $10	389	60	66	83	83	59	22	6	1	3	6	189
$10 TO $19	1 432	73	154	292	333	282	155	65	25	6	48	226
$20 TO $29	1 194	41	102	194	325	211	149	76	37	14	45	236
$30 TO $39	865	27	37	121	206	199	118	55	40	17	52	254
$40 TO $49	484	5	20	44	110	104	93	22	47	14	25	274
$50 TO $59	274	1	14	29	65	64	36	19	19	15	12	267
$60 TO $79	245	2	5	16	35	48	55	31	27	13	14	309
$80 TO $99	68	-	-	4	7	14	9	8	15	8	3	338
$100 TO $149	44	-	1	2	1	9	10	6	3	10	3	341
$150 OR MORE	20	-	-	-	-	-	2	3	6	7	2	...
MEDIAN	25	15	18	21	25	26	29	29	41	48	31	...
INCLUDED IN RENT	984	214	173	267	157	48	15	15	8	6	81	162
NO ELECTRICITY USED	12	4	-	3	-	2	-	-	-	-	3	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	3 098	76	276	559	743	558	336	156	147	81	165	237
LESS THAN $10	475	27	56	117	111	76	40	16	12	2	19	212
$10 TO $14	290	15	39	44	79	65	23	11	7	-	9	227
$15 TO $19	239	9	20	45	77	42	23	7	12	2	2	229
$20 TO $24	239	5	22	54	54	42	23	8	15	1	16	228
$25 TO $29	239	10	35	47	45	34	28	17	7	4	13	223
$30 TO $39	482	5	48	96	107	87	48	33	21	11	28	236
$40 TO $49	365	3	30	49	94	67	45	16	24	14	24	246
$50 TO $69	475	2	21	88	114	76	57	33	32	23	30	248
$70 TO $99	187	-	5	14	55	44	25	9	9	15	11	265
$100 OR MORE	106	-	-	7	8	26	26	8	10	9	13	312
MEDIAN	31	13	25	27	30	32	36	35	40	55	38	...
INCLUDED IN RENT	2 212	296	256	411	422	332	229	107	52	17	89	211
NO GAS USED	700	54	39	84	157	144	99	42	28	14	40	248
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	318	7	19	43	64	58	28	19	11	13	56	248
LESS THAN $100	60	3	5	5	7	13	3	6	5	4	9	268
$100 TO $199	25	2	2	3	5	6	-	2	1	1	3	...
$200 TO $299	19	-	2	4	8	2	1	-	-	1	1	...
$300 TO $399	23	1	2	2	3	3	5	1	-	2	5	...
$400 TO $499	33	-	3	8	7	5	-	-	2	-	9	...
$500 TO $599	26	1	2	8	6	3	1	-	-	1	4	...
$600 TO $699	25	-	-	4	6	6	5	-	-	2	3	...
$700 TO $799	19	-	-	4	5	2	-	2	4	-	2	...
$800 OR MORE	88	-	2	5	16	19	14	9	1	4	20	282
MEDIAN	496	...	...	490	529	489	...	...	...	...	539	...
INCLUDED IN RENT	882	100	90	192	174	127	74	38	28	11	49	210
FUELS NOT USED OR FREE	4 809	319	461	820	1 084	849	563	249	188	88	189	232
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 135	146	198	482	722	559	407	188	164	87	183	244
HEAT PUMP	28	5	4	-	-	6	4	1	3	4	1	...
STEAM OR HOT WATER	1 631	143	180	293	352	307	186	79	40	17	35	225
BUILT-IN ELECTRIC UNITS	511	62	41	79	128	95	44	28	19	3	13	226
FLOOR, WALL, OR PIPELESS FURNACE	183	6	33	47	43	29	9	4	1	-	12	199
ROOM HEATERS WITH FLUE	411	47	92	132	59	30	11	3	2	2	34	168
ROOM HEATERS WITHOUT FLUE	42	4	5	18	8	4	1	-	-	-	2	179
FIREPLACES, STOVES, OR PORTABLE HEATERS	55	11	12	4	7	5	3	1	-	-	12	144
NONE	14	2	6	-	3	-	-	-	-	-	2	...

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE C-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	5 996	424	565	1 055	1 319	1 034	665	305	227	112	292	230
WITH FIREPLACE OR HEATING STOVE	701	27	63	110	117	122	65	33	46	48	69	248
IN WORKING ORDER	520	22	47	82	62	89	48	26	40	43	60	259
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	271	11	11	23	33	52	31	17	33	24	37	287
ALL PURCHASED	84	1	-	7	11	15	16	6	12	12	3	320
SOME OR NONE PURCHASED	174	11	11	15	20	33	15	9	20	8	32	272
NOT REPORTED	14	-	-	1	2	4	-	2	-	4	2	...
COAL	7	-	3	1	2	-	-	-	-	-	2	...
OTHER FUEL	165	9	32	47	19	20	6	9	3	5	14	185
NONE	72	2	2	11	6	16	10	-	4	15	7	285
NOT REPORTED	5	-	-	-	2	1	2	-	-	-	-	...
NOT IN WORKING ORDER	173	5	16	26	51	33	15	7	5	5	10	233
NOT REPORTED	7	-	-	2	3	-	2	-	1	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	5 276	395	500	939	1 197	910	598	272	182	63	221	228
NOT REPORTED	19	2	2	5	4	2	1	-	-	2	2	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	2	6	-	3	-	-	-	-	-	2	...
SPECIFIED RENTER OCCUPIED[1]	6 010	426	571	1 055	1 322	1 034	665	305	227	112	294	230
UNITS OCCUPIED LAST WINTER	4 218	351	444	761	905	726	403	192	128	59	250	223
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	4 144	339	427	747	895	722	402	191	128	59	236	224
NO ADDITIONAL HEAT SOURCE USED	3 556	301	362	611	769	632	339	165	118	54	206	226
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	502	30	59	121	111	77	50	25	5	3	20	213
NOT REPORTED	87	8	6	14	15	14	12	2	6	2	10	235
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	74	12	17	14	10	4	1	1	-	-	15	152
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	4 144	339	427	747	895	722	402	191	128	59	236	224
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 910	283	305	559	760	639	358	174	112	49	170	230
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	640	43	115	172	119	70	32	16	11	8	56	188
1 ROOM	284	23	48	70	53	32	17	10	3	8	19	193
2 ROOMS	178	8	35	65	25	17	7	3	7	-	10	180
3 ROOMS OR MORE	177	11	32	37	40	21	8	2	-	-	27	194
NOT REPORTED	94	13	7	15	16	14	12	2	6	2	10	223
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	74	12	17	14	10	4	1	1	-	-	15	152
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	4 144	339	427	747	895	722	402	191	128	59	236	224
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	74	12	17	14	10	4	1	1	-	-	15	152
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	46	10	9	7	7	2	1	-	-	-	9	145
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	14	2	7	-	2	-	-	1	-	-	3	...
NOT REPORTED	14	-	1	7	1	2	-	-	-	-	3	...
SPECIFIED RENTER OCCUPIED[1]	6 010	426	571	1 055	1 322	1 034	665	305	227	112	294	230
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	69	13	18	4	11	5	3	1	-	-	14	139
WITH SELECTED HEATING EQUIPMENT[3]	5 941	413	553	1 051	1 311	1 028	661	304	227	112	280	230
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 688	395	525	996	1 263	980	642	291	224	107	266	231
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	236	17	26	50	45	49	17	13	4	4	12	221
SOLAR HEATING EQUIPMENT	1	-	-	1	-	-	-	-	-	-	1	...
STOVE, BURNING WOOD OR COAL	23	-	1	3	2	8	5	-	-	1	3	...
FIREPLACE, BURNING WOOD OR COAL	4	-	-	-	-	2	2	-	-	-	-	...
PORTABLE ELECTRIC HEATER	158	9	19	35	35	35	7	9	2	2	6	219
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	1	2	5	4	3	2	2	-	1	-	...
OTHER	33	7	5	7	4	3	3	2	2	-	2	...
NOT REPORTED	17	2	2	5	3	-	2	-	-	2	2	...
AIR CONDITIONING												
WITH AIR CONDITIONING	3 180	128	179	450	653	643	487	234	173	89	144	258
ROOM UNITS	2 163	104	155	391	481	433	274	125	77	25	98	239
1	1 808	101	145	332	422	376	220	85	42	9	77	233
2	304	1	10	51	53	50	51	33	29	12	15	279
3	36	2	-	3	5	5	3	3	5	5	6	...
4	12	-	-	3	2	2	-	4	2	-	-	...
5 OR MORE	2	-	-	2	-	-	-	-	-	-	-	...
CENTRAL SYSTEM	1 018	24	24	59	172	210	213	109	96	63	46	298
WITH NO AIR CONDITIONING	2 830	298	392	605	669	391	177	70	55	24	150	203

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE C-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 018	24	24	59	172	210	213	109	96	63	46	298
WITH SUPPLEMENTAL EQUIPMENT USED	311	8	5	16	47	58	55	39	29	36	17	311
INDIVIDUAL ROOM AIR CONDITIONING UNIT	11	-	1	2	3	1	2	2	-	-	-	...
AWNINGS	25	2	1	4	3	2	1	3	4	3	2	...
DEHUMIDIFIER	33	-	2	3	4	-	-	4	3	11	6	...
CEILING FAN	17	-	-	-	2	1	2	4	2	6	1	...
ATTIC FAN	17	-	-	-	1	2	-	3	3	5	3	...
WINDOW FAN	50	-	1	2	15	11	5	10	1	4	2	278
PORTABLE FAN	209	6	5	9	24	45	46	24	23	16	12	311
WITH NO SUPPLEMENTAL EQUIPMENT USED	678	16	17	40	117	146	153	68	65	26	28	295
NOT REPORTED	29	-	2	3	8	6	5	2	2	1	1	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	4 992	402	547	996	1 150	823	451	195	132	49	248	218
SPECIFIED RENTER OCCUPIED[1]	6 010	426	571	1 055	1 322	1 034	665	305	227	112	294	230
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 852	51	151	300	387	281	188	82	107	75	231	239
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 147	20	80	162	234	175	137	60	68	53	159	249
SOME WINDOWS COVERED	328	9	25	67	81	49	18	9	21	8	41	226
NO WINDOWS COVERED	284	16	37	53	56	40	28	5	13	8	28	219
NOT REPORTED	92	6	9	18	16	17	5	8	4	6	3	236
STORM DOORS												
ALL DOORS COVERED	1 040	12	75	141	211	164	121	53	61	42	160	250
SOME DOORS COVERED	292	10	21	54	65	46	26	8	25	11	28	236
NO DOORS COVERED	427	22	45	89	95	54	35	14	17	16	40	219
NOT REPORTED	92	6	9	17	16	17	5	8	4	6	3	237
ATTIC OR ROOF INSULATION												
YES	1 035	19	75	145	201	164	108	50	61	50	163	248
NO	303	15	41	61	77	31	20	10	11	2	35	211
DON'T KNOW	420	11	25	77	92	70	52	15	30	17	29	243
NOT REPORTED	94	6	9	17	16	17	8	8	4	6	3	241

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	20 842	15 167	2 527	757	716	959	715
HOUSE HEATING FUEL							
OWNER OCCUPIED	14 616	13 228	600	64	33	103	587
UTILITY GAS	10 272	9 402	489	59	22	63	236
BOTTLED, TANK, OR LP GAS	1 066	872	11	-	2	-	180
FUEL OIL	1 845	1 671	63	2	2	8	99
KEROSENE, ETC	6	6	-	-	-	-	-
ELECTRICITY	1 241	1 100	35	3	7	32	64
COAL OR COKE	37	37	-	-	-	-	-
WOOD	134	128	-	-	-	-	6
SOLAR HEAT	1	1	-	-	-	-	-
OTHER FUEL	9	9	-	-	-	-	-
NONE	5	2	3	-	-	-	1
RENTER OCCUPIED	6 226	1 939	1 926	692	683	856	128
UTILITY GAS	4 416	1 285	1 565	527	431	545	63
BOTTLED, TANK, OR LP GAS	266	201	12	3	2	3	46
FUEL OIL	649	286	149	52	51	100	11
KEROSENE, ETC	2	-	-	-	-	-	2
ELECTRICITY	795	112	187	104	193	194	5
COAL OR COKE	17	11	2	2	-	3	-
WOOD	41	39	1	-	-	-	-
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	27	1	2	5	7	12	-
NONE	14	5	8	-	-	-	1
WATER HEATING FUEL[1]							
OWNER OCCUPIED	14 471	13 093	600	64	33	103	578
UTILITY GAS	9 414	8 596	518	58	22	58	162
BOTTLED, TANK, OR LP GAS	862	711	7	-	2	-	141
FUEL OIL	134	124	6	-	-	3	1
KEROSENE, ETC	2	2	-	-	-	-	-
ELECTRICITY	4 019	3 626	67	7	9	42	269
COAL OR COKE	1	1	-	-	-	-	-
WOOD	13	13	-	-	-	-	-
SOLAR HEAT	3	3	-	-	-	-	-
OTHER FUEL	4	3	-	-	-	-	1
NONE	19	12	2	-	-	-	5
RENTER OCCUPIED	6 149	1 872	1 920	691	683	856	127
UTILITY GAS	4 309	1 145	1 569	541	419	598	38
BOTTLED, TANK, OR LP GAS	209	148	16	4	2	-	40
FUEL OIL	51	13	16	7	3	12	1
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 539	553	314	138	257	228	49
COAL OR COKE	3	-	-	-	-	3	-
WOOD	2	2	-	-	-	-	-
SOLAR HEAT	6	-	-	-	-	6	-
OTHER FUEL	8	2	1	-	-	5	-
NONE	21	9	5	-	3	5	-
COOKING FUEL							
OWNER OCCUPIED	14 616	13 228	600	64	33	103	587
UTILITY GAS	5 699	4 975	429	38	13	32	212
BOTTLED, TANK, OR LP GAS	1 032	797	6	-	2	-	226
FUEL OIL	13	12	-	-	-	-	1
KEROSENE, ETC	5	5	-	-	-	-	-
ELECTRICITY	7 831	7 406	165	26	17	70	147
COAL OR COKE	-	-	-	-	-	-	-
WOOD	27	27	-	-	-	-	-
OTHER FUEL	2	2	-	-	-	-	1
NONE	6	4	-	-	-	2	-
RENTER OCCUPIED	6 226	1 939	1 926	692	683	856	128
UTILITY GAS	3 199	799	1 266	418	253	406	57
BOTTLED, TANK, OR LP GAS	284	208	17	2	-	-	58
FUEL OIL	11	5	6	-	-	-	-
KEROSENE, ETC	1	1	-	-	-	-	-
ELECTRICITY	2 685	919	630	265	425	432	14
COAL OR COKE	1	1	-	-	-	-	-
WOOD	5	5	-	-	-	-	-
OTHER FUEL	3	1	1	-	-	2	-
NONE	38	2	6	8	5	16	-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	11 653	11 653	...	...	...	...	...
ELECTRICITY PAID FOR	11 648	11 648	...	...	...	...	...
LESS THAN $10	79	79	...	...	...	...	...
$10 TO $19	916	916	...	...	...	...	...
$20 TO $29	2 242	2 242	...	...	...	...	...
$30 TO $39	2 645	2 645	...	...	...	...	...
$40 TO $49	1 891	1 891	...	...	...	...	...
$50 TO $59	1 436	1 436	...	...	...	...	...
$60 TO $79	1 410	1 410	...	...	...	...	...
$80 TO $99	446	446	...	...	...	...	...
$100 TO $149	444	444	...	...	...	...	...
$150 OR MORE	138	138	...	...	...	...	...
MEDIAN	39	39	...	...	...	...	...
NO ELECTRICITY USED	5	5	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 010	1 723	1 926	692	683	856	128
ELECTRICITY PAID FOR	5 014	1 588	1 584	531	605	602	106
LESS THAN $10	389	43	131	58	63	88	5
$10 TO $19	1 432	261	512	192	202	245	21
$20 TO $29	1 194	396	406	118	128	123	23
$30 TO $39	865	349	254	74	96	66	26
$40 TO $49	484	221	132	36	48	34	13
$50 TO $59	274	136	78	17	24	13	6
$60 TO $79	245	108	53	26	29	24	6
$80 TO $99	68	41	5	5	9	6	1
$100 TO $149	44	19	11	3	3	2	5
$150 OR MORE	20	13	2	2	3	-	1
MEDIAN	25	32	23	21	23	18	31
INCLUDED IN RENT	984	132	339	160	78	252	23
NO ELECTRICITY USED	12	4	3	2	-	3	-
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	11 653	11 653	...	...	...	...	...
GAS PAID FOR	10 072	10 072	...	...	...	...	...
LESS THAN $10	247	247	...	...	...	...	...
$10 TO $14	211	211	...	...	...	...	...
$15 TO $19	273	273	...	...	...	...	...
$20 TO $24	498	498	...	...	...	...	...
$25 TO $29	658	658	...	...	...	...	...
$30 TO $39	2 019	2 019	...	...	...	...	...
$40 TO $49	2 127	2 127	...	...	...	...	...
$50 TO $69	2 867	2 867	...	...	...	...	...
$70 TO $99	876	876	...	...	...	...	...
$100 OR MORE	296	296	...	...	...	...	...
MEDIAN	45	45	...	...	...	...	...
NO GAS USED	1 581	1 581	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 010	1 723	1 926	692	683	856	128
GAS PAID FOR	3 098	1 332	1 169	267	122	113	95
LESS THAN $10	475	60	210	109	46	37	13
$10 TO $14	290	73	131	36	22	18	9
$15 TO $19	239	73	90	27	14	18	17
$20 TO $24	239	114	77	22	11	10	6
$25 TO $29	239	107	93	12	10	13	5
$30 TO $39	482	237	196	14	7	11	16
$40 TO $49	365	199	125	23	5	2	12
$50 TO $69	475	279	162	19	7	2	6
$70 TO $99	187	120	60	2	-	2	4
$100 OR MORE	106	71	25	3	-	-	7
MEDIAN	31	40	28	13	13	15	26
INCLUDED IN RENT	2 212	216	599	361	394	613	29
NO GAS USED	700	175	158	65	167	130	4

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	11 653	11 653	...	...	...	...	...
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 984	1 984	...	...	...	...	...
LESS THAN $100	481	481	...	...	...	...	...
$100 TO $199	235	235	...	...	...	...	...
$200 TO $299	116	116	...	...	...	...	...
$300 TO $399	129	129	...	...	...	...	...
$400 TO $499	115	115	...	...	...	...	...
$500 TO $599	164	164	...	...	...	...	...
$600 TO $699	173	173	...	...	...	...	...
$700 TO $799	129	129	...	...	...	...	...
$800 OR MORE	442	442	...	...	...	...	...
MEDIAN	427	427	...	...	...	...	...
FUELS NOT USED OR FREE	9 669	9 669	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 010	1 723	1 926	692	683	856	128
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	318	252	45	5	-	1	14
LESS THAN $100	60	41	12	3	-	1	2
$100 TO $199	25	21	4	-	-	-	-
$200 TO $299	19	11	7	-	-	-	1
$300 TO $399	23	18	3	-	-	-	2
$400 TO $499	33	24	4	2	-	-	3
$500 TO $599	26	21	1	-	-	-	4
$600 TO $699	25	19	6	-	-	-	-
$700 TO $799	19	15	2	-	-	-	2
$800 OR MORE	88	80	7	-	-	-	1
MEDIAN	496	546	296	...	-	...	...
INCLUDED IN RENT	882	181	332	122	89	145	14
FUELS NOT USED OR FREE	4 809	1 290	1 549	566	594	710	100
ALL OCCUPIED HOUSING UNITS	20 842	15 167	2 527	757	716	959	715
HEATING EQUIPMENT							
OWNER OCCUPIED	14 616	13 228	600	64	33	103	587
WARM-AIR FURNACE	11 262	10 322	330	35	18	41	515
HEAT PUMP	200	196	4	-	-	-	-
STEAM OR HOT WATER	1 295	1 035	188	24	11	38	-
BUILT-IN ELECTRIC UNITS	632	570	21	2	3	22	14
FLOOR, WALL, OR PIPELESS FURNACE	353	306	6	-	-	2	39
ROOM HEATERS WITH FLUE	547	495	42	2	1	-	8
ROOM HEATERS WITHOUT FLUE	30	21	7	2	-	-	1
FIREPLACES, STOVES, OR PORTABLE HEATERS	292	282	-	-	-	-	9
NONE	5	2	3	-	-	-	1
RENTER OCCUPIED	6 226	1 939	1 926	692	683	856	128
WARM-AIR FURNACE	3 256	1 293	1 023	271	268	284	116
HEAT PUMP	28	13	3	2	2	8	-
STEAM OR HOT WATER	1 645	127	506	305	278	429	-
BUILT-IN ELECTRIC UNITS	522	72	124	68	123	133	2
FLOOR, WALL, OR PIPELESS FURNACE	193	108	53	19	5	3	5
ROOM HEATERS WITH FLUE	440	225	180	25	6	-	4
ROOM HEATERS WITHOUT FLUE	43	18	21	2	2	-	1
FIREPLACES, STOVES, OR PORTABLE HEATERS	86	78	7	-	-	-	1
NONE	14	5	8	-	-	-	1
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	14 616	13 228	600	64	33	103	587
HOUSING UNITS WITH HEATING EQUIPMENT	14 611	13 226	598	64	33	103	586
WITH FIREPLACE OR HEATING STOVE	6 082	5 812	155	22	4	7	82
IN WORKING ORDER	5 748	5 532	117	17	4	-	79
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	4 609	4 487	53	10	2	-	58
ALL PURCHASED	1 327	1 286	29	7	2	-	5
SOME OR NONE PURCHASED	3 223	3 145	22	3	-	-	53
NOT REPORTED	59	56	2	-	-	-	1
COAL	27	27	-	-	-	-	-
OTHER FUEL	623	564	37	7	2	-	13
NONE	475	439	28	-	-	-	8
NOT REPORTED	15	15	-	-	-	-	-
NOT IN WORKING ORDER	319	267	38	5	-	5	4
NOT REPORTED	15	13	-	-	-	2	-
WITHOUT FIREPLACE OR HEATING STOVE	8 496	7 386	441	42	29	96	501
NOT REPORTED	33	28	2	-	-	-	3
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	2	3	-	-	-	1

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES--CONTINUED							
RENTER OCCUPIED	6 226	1 939	1 926	692	683	856	128
HOUSING UNITS WITH HEATING EQUIPMENT	6 212	1 935	1 918	692	683	856	128
WITH FIREPLACE OR HEATING STOVE	796	444	262	32	37	13	8
IN WORKING ORDER	609	391	157	21	24	10	7
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	352	269	52	14	6	7	4
ALL PURCHASED	92	60	17	8	3	3	1
SOME OR NONE PURCHASED	245	201	31	5	2	3	4
NOT REPORTED	14	7	4	2	2	-	-
COAL	8	8	-	-	-	-	-
OTHER FUEL	171	77	75	5	11	1	2
NONE	74	35	30	2	5	2	-
NOT REPORTED	5	2	-	-	2	-	1
NOT IN WORKING ORDER	180	53	100	11	11	3	1
NOT REPORTED	7	-	6	-	2	-	-
WITHOUT FIREPLACE OR HEATING STOVE	5 397	1 481	1 653	661	643	840	120
NOT REPORTED	19	9	3	-	3	3	-
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	5	8	-	-	-	1
ALL OCCUPIED HOUSING UNITS	20 842	15 167	2 527	757	716	959	715
UNITS OCCUPIED LAST WINTER	18 416	14 184	1 979	514	475	683	580
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	14 005	12 730	588	50	28	97	512
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	12 433	582	48	28	97	501
NO ADDITIONAL HEAT SOURCE USED	12 703	11 553	527	43	26	95	459
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	788	706	47	3	-	2	30
NOT REPORTED	198	174	7	2	3	-	12
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	297	7	2	-	-	11
RENTER OCCUPIED	4 410	1 454	1 391	464	447	586	68
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	1 380	1 366	464	446	586	66
NO ADDITIONAL HEAT SOURCE USED	3 691	1 203	1 148	383	401	503	53
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	526	147	190	72	35	75	7
NOT REPORTED	92	30	28	9	10	9	6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	75	25	-	1	-	1
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	14 005	12 730	588	50	28	97	512
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	12 433	582	48	28	97	501
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 581	10 468	472	43	26	88	484
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 872	1 757	99	3	-	9	5
1 ROOM	727	678	40	2	-	5	2
2 ROOMS	498	462	32	2	-	2	1
3 ROOMS OR MORE	647	617	27	-	-	2	2
NOT REPORTED	235	208	10	2	3	-	12
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	297	7	2	-	-	11
RENTER OCCUPIED	4 410	1 454	1 391	464	447	586	68
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	1 380	1 366	464	446	586	66
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 506	975	1 101	401	418	553	59
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	704	373	235	54	15	24	2
1 ROOM	299	107	123	38	10	21	1
2 ROOMS	199	111	72	11	3	2	-
3 ROOMS OR MORE	205	156	40	5	2	2	1
NOT REPORTED	100	31	31	9	13	9	6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	75	25	-	1	-	1
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	14 005	12 730	588	50	28	97	512
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	12 433	582	48	28	97	501
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	297	7	2	-	-	11
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	245	238	-	-	-	-	6
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	27	24	2	-	-	-	2
NOT REPORTED	45	35	5	2	-	-	3

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED							
RENTER OCCUPIED	4 410	1 454	1 391	464	447	586	68
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	1 380	1 366	464	446	586	66
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	75	25	-	1	-	1
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	69	55	12	-	1	-	1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	12	5	-	-	-	-
NOT REPORTED	16	8	8	-	-	-	-
ALL OCCUPIED HOUSING UNITS	20 842	15 167	2 527	757	716	959	715
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	14 616	13 228	600	64	33	103	587
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	297	284	3	-	-	-	10
WITH SELECTED HEATING EQUIPMENT[2]	14 319	12 944	598	64	33	103	577
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 231	11 931	561	61	33	101	545
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 051	980	37	3	-	2	29
SOLAR HEATING EQUIPMENT	20	18	-	-	-	-	2
STOVE, BURNING WOOD OR COAL	407	388	7	-	-	-	12
FIREPLACE, BURNING WOOD OR COAL	161	151	4	-	-	-	7
PORTABLE ELECTRIC HEATER	322	285	28	2	-	2	6
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	62	62	-	-	-	-	-
OTHER	116	111	1	2	-	-	2
NOT REPORTED	37	34	-	-	-	-	3
RENTER OCCUPIED	6 226	1 939	1 926	692	683	856	128
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	100	83	15	-	-	-	1
WITH SELECTED HEATING EQUIPMENT[2]	6 126	1 856	1 911	692	683	856	127
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 847	1 739	1 813	668	670	834	124
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	262	110	91	24	13	20	3
SOLAR HEATING EQUIPMENT	1	1	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	40	35	2	-	-	2	1
FIREPLACE, BURNING WOOD OR COAL	4	2	2	-	-	-	-
PORTABLE ELECTRIC HEATER	163	50	69	19	10	13	2
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	20	10	6	2	-	1	-
OTHER	37	12	12	4	3	6	-
NOT REPORTED	17	8	6	-	-	2	-
AIR CONDITIONING							
OWNER OCCUPIED	14 616	13 228	600	64	33	103	587
WITH AIR CONDITIONING	9 183	8 315	355	44	25	98	346
ROOM UNITS	4 672	4 126	278	15	16	33	205
1	3 210	2 819	192	10	12	7	170
2	1 139	1 020	68	5	-	15	30
3	253	226	14	-	3	6	3
4	44	41	2	-	-	2	-
5 OR MORE	26	19	2	-	-	3	2
CENTRAL SYSTEM	4 511	4 190	77	29	10	65	140
WITH NO AIR CONDITIONING	5 432	4 913	246	20	8	5	241
RENTER OCCUPIED	6 226	1 939	1 926	692	683	856	128
WITH AIR CONDITIONING	3 280	887	832	371	529	589	72
ROOM UNITS	2 240	637	620	258	301	376	48
1	1 866	501	527	225	256	317	39
2	322	111	82	30	38	52	9
3	39	20	8	2	5	5	-
4	12	4	2	2	2	3	-
5 OR MORE	2	-	2	-	-	-	-
CENTRAL SYSTEM	1 040	250	212	113	229	212	24
WITH NO AIR CONDITIONING	2 946	1 053	1 095	321	154	268	56

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	14 616	13 228	600	64	33	103	587
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	4 511	4 190	77	29	10	65	140
WITH SUPPLEMENTAL EQUIPMENT USED	2 555	2 424	43	14	3	7	64
INDIVIDUAL ROOM AIR CONDITIONING UNIT	110	108	2	-	-	-	-
AWNINGS	465	436	5	5	2	-	18
DEHUMIDIFIER	941	918	14	5	-	3	2
CEILING FAN	138	134	4	-	-	-	-
ATTIC FAN	665	660	5	-	-	-	1
WINDOW FAN	244	225	5	2	-	2	10
PORTABLE FAN	1 072	996	23	8	2	3	40
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 866	1 684	33	14	7	58	70
NOT REPORTED	89	82	1	-	-	-	6
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 105	9 038	523	36	23	38	446
RENTER OCCUPIED	6 226	1 939	1 926	692	683	856	128
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 040	250	212	113	229	212	24
WITH SUPPLEMENTAL EQUIPMENT USED	319	112	72	29	46	50	9
INDIVIDUAL ROOM AIR CONDITIONING UNIT	12	2	5	-	-	5	-
AWNINGS	28	16	5	-	3	3	-
DEHUMIDIFIER	36	26	9	-	-	2	-
CEILING FAN	17	11	-	5	1	-	-
ATTIC FAN	20	17	3	-	-	-	-
WINDOW FAN	51	15	9	3	10	9	5
PORTABLE FAN	213	65	53	22	35	35	4
WITH NO SUPPLEMENTAL EQUIPMENT USED	691	130	130	82	176	156	16
NOT REPORTED	30	7	9	2	6	6	-
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 186	1 690	1 715	579	454	644	104

TABLE C-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS	20 842	193	435	1 556	3 561	5 245	4 613	5 238	5.4
HOUSE HEATING FUEL									
OWNER OCCUPIED	14 616	32	77	225	1 598	3 976	3 958	4 749	5.8
UTILITY GAS	10 272	21	49	127	1 035	2 870	2 900	3 270	5.8
BOTTLED, TANK, OR LP GAS	1 066	1	5	33	181	317	238	291	5.5
FUEL OIL	1 845	5	18	38	230	458	463	634	5.9
KEROSENE, ETC	6	-	-	-	2	2	2	-	...
ELECTRICITY	1 241	3	5	18	122	281	310	502	6.1
COAL OR COKE	37	-	-	-	3	10	8	16	6.1
WOOD	134	2	1	8	24	36	33	30	5.4
SOLAR HEAT	1	-	-	-	-	-	1	-	...
OTHER FUEL	9	-	-	-	-	1	3	5	...
NONE	5	-	-	1	1	1	1	2	...
RENTER OCCUPIED	6 226	162	358	1 331	1 963	1 269	655	489	4.1
UTILITY GAS	4 416	114	246	913	1 397	967	484	294	4.2
BOTTLED, TANK, OR LP GAS	266	2	5	26	70	66	39	58	4.9
FUEL OIL	649	13	38	118	176	116	87	101	4.4
KEROSENE, ETC	2	-	-	-	2	-	-	-	...
ELECTRICITY	795	27	59	254	294	102	35	23	3.7
COAL OR COKE	17	-	1	2	5	4	2	1	...
WOOD	41	1	2	4	7	11	8	8	5.1
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	3	3	10	10	-	-	1	...
NONE	14	2	2	3	2	3	-	1	...
WATER HEATING FUEL[1]									
OWNER OCCUPIED	14 471	27	72	203	1 565	3 943	3 939	4 722	5.9
UTILITY GAS	9 414	19	49	103	898	2 643	2 702	2 999	5.9
BOTTLED, TANK, OR LP GAS	862	1	4	21	143	264	199	230	5.5
FUEL OIL	134	-	-	4	8	22	31	70	6.5+
KEROSENE, ETC	2	-	-	-	-	-	-	2	...
ELECTRICITY	4 019	6	19	71	513	1 003	1 002	1 404	5.9
COAL OR COKE	1	-	-	-	-	1	-	-	...
WOOD	13	-	-	1	-	2	3	8	...
SOLAR HEAT	3	-	-	-	1	-	1	2	...
OTHER FUEL	4	-	-	1	-	1	-	2	...
NONE	19	1	-	2	2	8	1	5	...
RENTER OCCUPIED	6 149	158	352	1 319	1 935	1 257	644	482	4.1
UTILITY GAS	4 309	119	262	927	1 332	949	457	263	4.1
BOTTLED, TANK, OR LP GAS	209	1	6	17	56	55	31	43	4.9
FUEL OIL	51	4	2	6	19	9	7	5	4.2
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 539	25	69	366	519	243	147	170	4.1
COAL OR COKE	3	-	1	-	2	-	-	-	...
WOOD	2	-	-	-	-	1	1	-	...
SOLAR HEAT	6	-	4	2	-	-	-	-	...
OTHER FUEL	8	5	2	-	1	-	-	1	...
NONE	21	5	5	2	6	2	1	1	...
COOKING FUEL									
OWNER OCCUPIED	14 616	32	77	225	1 598	3 976	3 958	4 749	5.8
UTILITY GAS	5 699	6	29	92	708	1 753	1 647	1 464	5.6
BOTTLED, TANK, OR LP GAS	1 032	2	8	41	222	310	204	244	5.3
FUEL OIL	13	-	2	-	2	2	4	3	...
KEROSENE, ETC	5	1	-	-	-	1	1	2	...
ELECTRICITY	7 831	19	37	91	660	1 906	2 095	3 024	6.1
COAL OR COKE	-	-	-	-	-	-	-	-	-
WOOD	27	1	2	1	5	5	4	10	...
OTHER FUEL	2	-	-	1	-	1	-	1	...
NONE	6	3	-	-	-	-	2	2	...
RENTER OCCUPIED	6 226	162	358	1 331	1 963	1 269	655	489	4.1
UTILITY GAS	3 199	84	236	679	952	729	338	180	4.1
BOTTLED, TANK, OR LP GAS	284	2	8	28	82	73	42	49	4.8
FUEL OIL	11	-	2	-	6	2	-	2	...
KEROSENE, ETC	1	-	-	-	-	-	1	-	...
ELECTRICITY	2 685	43	112	620	918	463	272	257	4.1
COAL OR COKE	1	-	-	-	1	-	-	-	...
WOOD	5	-	1	1	-	1	2	-	...
OTHER FUEL	3	2	-	-	1	-	-	1	...
NONE	38	32	-	2	3	1	-	-	1.5-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE C-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
MONTHLY COST PAID FOR ELECTRICITY									
SPECIFIED OWNER OCCUPIED[1]	11 653	25	51	106	1 023	3 182	3 335	3 931	5.9
ELECTRICITY PAID FOR	11 648	24	51	106	1 023	3 179	3 335	3 931	5.9
LESS THAN $10	79	-	2	8	9	22	20	18	5.4
$10 TO $19	916	1	7	33	171	323	235	147	5.3
$20 TO $29	2 242	2	11	29	304	748	607	541	5.5
$30 TO $39	2 645	8	10	11	238	813	845	721	5.8
$40 TO $49	1 891	3	7	11	141	492	551	686	6.0
$50 TO $59	1 436	2	6	5	69	338	417	599	6.2
$60 TO $79	1 410	3	7	3	63	292	396	646	6.3
$80 TO $99	446	1	2	3	14	73	127	225	6.5+
$100 TO $149	444	2	-	1	14	55	108	265	6.5+
$150 OR MORE	138	-	-	2	1	23	30	83	6.5+
MEDIAN	39	...	35	24	31	36	39	47	...
NO ELECTRICITY USED	5	1	-	-	-	3	-	1	...
SPECIFIED RENTER OCCUPIED[2]	6 010	159	355	1 327	1 941	1 229	600	399	4.1
ELECTRICITY PAID FOR	5 014	40	166	1 037	1 732	1 136	557	346	4.2
LESS THAN $10	389	8	32	157	101	67	18	6	3.5
$10 TO $19	1 432	15	71	413	549	274	71	40	3.9
$20 TO $29	1 194	13	32	223	433	277	146	70	4.3
$30 TO $39	865	5	15	136	283	233	115	79	4.5
$40 TO $49	484	-	5	55	158	125	82	59	4.7
$50 TO $59	274	-	7	20	99	62	40	45	4.7
$60 TO $79	245	-	3	20	80	60	55	26	4.8
$80 TO $99	68	-	-	5	20	23	12	9	4.9
$100 TO $149	44	-	2	4	7	9	16	7	5.5
$150 OR MORE	20	-	-	5	2	7	2	4	...
MEDIAN	25	17	17	18	24	27	33	36	...
INCLUDED IN RENT	984	117	187	289	207	89	43	52	3.1
NO ELECTRICITY USED	12	2	3	-	2	3	-	1	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	11 653	25	51	106	1 023	3 182	3 335	3 931	5.9
GAS PAID FOR	10 072	21	45	85	887	2 784	2 910	3 341	5.9
LESS THAN $10	247	-	-	6	42	58	73	67	5.7
$10 TO $14	211	2	1	10	17	63	63	56	5.7
$15 TO $19	273	-	5	9	34	100	75	50	5.4
$20 TO $24	498	2	6	12	101	165	121	91	5.3
$25 TO $29	658	1	1	10	113	216	168	148	5.4
$30 TO $39	2 019	6	6	16	260	656	589	487	5.6
$40 TO $49	2 127	7	14	10	149	655	671	621	5.8
$50 TO $69	2 867	3	11	11	124	673	840	1 205	6.2
$70 TO $99	876	1	1	1	31	162	249	432	6.5
$100 OR MORE	296	-	-	-	14	37	62	184	6.5+
MEDIAN	45	...	42	27	35	42	45	52	...
NO GAS USED	1 581	4	6	20	137	398	425	590	6.0
SPECIFIED RENTER OCCUPIED[2]	6 010	159	355	1 327	1 941	1 229	600	399	4.1
GAS PAID FOR	3 098	16	76	440	976	854	453	285	4.5
LESS THAN $10	475	5	34	105	191	89	34	18	4.0
$10 TO $14	290	3	12	62	95	73	31	14	4.2
$15 TO $19	239	4	8	52	89	54	18	15	4.1
$20 TO $24	239	-	1	50	79	61	28	20	4.4
$25 TO $29	239	2	6	38	85	63	31	15	4.4
$30 TO $39	482	2	7	56	181	137	73	27	4.5
$40 TO $49	365	-	5	31	97	135	63	34	4.9
$50 TO $69	475	1	2	26	107	156	100	83	5.1
$70 TO $99	187	-	2	14	33	53	51	34	5.3
$100 OR MORE	106	-	-	6	19	32	24	25	5.4
MEDIAN	31	...	11	20	27	36	42	49	...
INCLUDED IN RENT	2 212	124	243	687	703	284	98	73	3.6
NO GAS USED	700	19	37	200	263	91	49	41	3.8

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	11 653	25	51	106	1 023	3 182	3 335	3 931	5.9
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 984	7	14	28	175	438	533	789	6.1
LESS THAN $100	481	4	2	1	24	65	126	259	6.5+
$100 TO $199	235	-	-	8	12	37	50	127	6.5+
$200 TO $299	116	1	-	6	12	18	26	53	6.3
$300 TO $399	129	1	4	2	24	38	33	27	5.4
$400 TO $499	115	-	-	1	25	43	26	20	5.2
$500 TO $599	164	-	-	4	21	49	57	34	5.6
$600 TO $699	173	-	2	3	15	48	56	50	5.8
$700 TO $799	129	1	2	2	10	35	37	42	5.9
$800 OR MORE	442	-	5	2	33	104	122	176	6.1
MEDIAN	427	...	...	...	460	535	510	216	...
FUELS NOT USED OR FREE	9 669	18	37	78	848	2 744	2 802	3 143	5.9
SPECIFIED RENTER OCCUPIED[2]	6 010	159	355	1 327	1 941	1 229	600	399	4.1
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	318	1	4	27	66	85	64	71	5.2
LESS THAN $100	60	-	2	8	14	16	10	10	4.9
$100 TO $199	25	-	-	3	7	5	5	4	...
$200 TO $299	19	-	1	4	4	5	2	4	...
$300 TO $399	23	-	1	-	6	7	5	4	...
$400 TO $499	33	-	-	4	16	6	4	3	...
$500 TO $599	26	-	1	5	6	4	4	5	...
$600 TO $699	25	1	-	-	6	8	8	3	...
$700 TO $799	19	-	-	1	2	7	3	6	...
$800 OR MORE	88	-	-	2	5	27	22	32	5.9
MEDIAN	496	...	...	...	413	576	609	740	...
INCLUDED IN RENT	882	47	70	208	268	164	84	43	3.9
FUELS NOT USED OR FREE	4 809	111	282	1 092	1 607	981	451	285	4.1
ALL OCCUPIED HOUSING UNITS	20 842	193	435	1 556	3 561	5 245	4 613	5 238	5.4
HEATING EQUIPMENT									
OWNER OCCUPIED	14 616	32	77	225	1 598	3 976	3 958	4 749	5.8
WARM-AIR FURNACE	11 262	20	54	133	1 182	3 147	3 129	3 597	5.8
HEAT PUMP	200	1	-	1	2	25	46	125	6.5+
STEAM OR HOT WATER	1 295	3	3	13	98	274	353	550	6.2
BUILT-IN ELECTRIC UNITS	632	1	3	13	72	171	157	215	5.9
FLOOR, WALL, OR PIPELESS FURNACE	353	2	5	11	80	122	77	56	5.1
ROOM HEATERS WITH FLUE	547	1	11	42	113	156	115	109	5.2
ROOM HEATERS WITHOUT FLUE	30	-	-	-	11	6	9	4	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	292	5	1	12	38	75	70	91	5.7
NONE	5	-	-	1	1	1	1	2	...
RENTER OCCUPIED	6 226	162	358	1 331	1 963	1 269	655	489	4.1
WARM-AIR FURNACE	3 256	28	124	530	1 031	806	422	315	4.4
HEAT PUMP	28	-	-	10	6	3	5	3	...
STEAM OR HOT WATER	1 645	92	144	439	525	245	116	84	3.8
BUILT-IN ELECTRIC UNITS	522	22	44	188	174	69	16	9	3.5
FLOOR, WALL, OR PIPELESS FURNACE	193	3	11	51	68	26	18	16	4.0
ROOM HEATERS WITH FLUE	440	14	26	91	126	90	58	35	4.2
ROOM HEATERS WITHOUT FLUE	43	1	2	11	13	9	5	2	4.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	86	1	3	8	17	18	16	23	5.3
NONE	14	2	2	3	2	3	-	1	...
FIREPLACES AND HEATING STOVES									
OWNER OCCUPIED	14 616	32	77	225	1 598	3 976	3 958	4 749	5.8
HOUSING UNITS WITH HEATING EQUIPMENT	14 611	32	77	225	1 597	3 976	3 957	4 747	5.8
WITH FIREPLACE OR HEATING STOVE	6 082	21	23	62	353	1 135	1 635	2 854	6.4
IN WORKING ORDER	5 748	19	22	52	333	1 054	1 531	2 737	6.4
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	4 609	17	15	36	232	794	1 199	2 317	6.5+
ALL PURCHASED	1 327	7	3	3	47	160	322	785	6.5+
SOME OR NONE PURCHASED	3 223	10	12	33	182	628	855	1 503	6.4
NOT REPORTED	59	-	-	-	2	5	23	29	6.5
COAL	27	-	-	1	2	7	6	11	...
OTHER FUEL	623	2	5	12	63	151	167	224	6.0
NONE	475	-	2	3	37	100	156	177	6.1
NOT REPORTED	15	-	-	1	-	2	3	9	...
NOT IN WORKING ORDER	319	3	-	7	17	79	99	114	6.0
NOT REPORTED	15	-	1	2	2	2	5	3	...
WITHOUT FIREPLACE OR HEATING STOVE	8 496	11	54	163	1 236	2 829	2 314	1 889	5.5
NOT REPORTED	33	-	-	-	8	12	8	5	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	-	1	1	1	1	2	...

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
FIREPLACES AND HEATING STOVES--CONTINUED									
RENTER OCCUPIED	6 226	162	358	1 331	1 963	1 269	655	489	4.1
HOUSING UNITS WITH HEATING EQUIPMENT	6 212	160	356	1 328	1 961	1 266	655	487	4.1
WITH FIREPLACE OR HEATING STOVE	796	2	17	81	148	215	171	162	5.2
IN WORKING ORDER	609	2	12	59	109	161	130	135	5.3
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	352	2	7	19	42	94	86	103	5.6
ALL PURCHASED	92	-	3	4	15	28	23	19	5.4
SOME OR NONE PURCHASED	245	2	4	13	24	65	56	81	5.8
NOT REPORTED	14	-	-	2	3	1	6	3	...
COAL	8	-	-	-	3	1	3	1	...
OTHER FUEL	171	1	5	31	48	45	22	20	4.5
NONE	74	-	-	10	14	21	17	12	5.1
NOT REPORTED	5	-	-	-	2	1	2	-	...
NOT IN WORKING ORDER	180	-	5	22	34	51	41	27	5.1
NOT REPORTED	7	-	-	-	5	2	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	5 397	156	337	1 245	1 806	1 048	481	323	4.0
NOT REPORTED	19	2	2	1	6	3	3	2	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	2	2	3	2	3	-	1	...
ALL OCCUPIED HOUSING UNITS	20 842	193	435	1 556	3 561	5 245	4 613	5 238	5.4
UNITS OCCUPIED LAST WINTER	18 416	137	307	1 123	2 877	4 728	4 300	4 945	5.5
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	14 005	32	69	190	1 532	3 806	3 811	4 566	5.9
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	27	68	177	1 486	3 727	3 735	4 469	5.9
NO ADDITIONAL HEAT SOURCE USED	12 703	26	60	159	1 380	3 485	3 478	4 116	5.8
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	788	1	7	9	75	197	211	289	6.0
NOT REPORTED	198	-	1	10	31	45	47	64	5.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	5	1	12	47	79	76	97	5.7
RENTER OCCUPIED	4 410	105	238	933	1 345	922	489	379	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	104	235	921	1 322	900	471	357	4.2
NO ADDITIONAL HEAT SOURCE USED	3 691	90	201	808	1 118	765	401	309	4.2
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	526	14	30	94	171	119	54	44	4.2
NOT REPORTED	92	-	5	18	33	16	16	4	4.2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	1	3	13	23	22	18	22	5.0
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	14 005	32	69	190	1 532	3 806	3 811	4 566	5.9
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	27	68	177	1 486	3 727	3 735	4 469	5.9
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 581	23	53	134	1 237	3 289	3 162	3 682	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 872	3	14	31	209	392	510	713	6.1
1 ROOM	727	3	6	17	74	132	220	274	6.1
2 ROOMS	498	-	7	12	76	112	118	172	5.8
3 ROOMS OR MORE	647	-	-	2	59	148	172	266	6.2
NOT REPORTED	235	-	1	11	39	46	64	74	5.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	5	1	12	47	79	76	97	5.7
RENTER OCCUPIED	4 410	105	238	933	1 345	922	489	379	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	104	235	921	1 322	900	471	357	4.2
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 506	100	212	770	1 091	746	354	232	4.1
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	704	2	18	129	197	137	100	121	4.5
1 ROOM	299	2	15	87	66	52	38	40	4.2
2 ROOMS	199	-	3	31	82	33	24	26	4.3
3 ROOMS OR MORE	205	-	-	10	49	52	39	56	5.3
NOT REPORTED	100	2	5	22	35	17	16	4	4.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	1	3	13	23	22	18	22	5.0
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	14 005	32	69	190	1 532	3 806	3 811	4 566	5.9
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	27	68	177	1 486	3 727	3 735	4 469	5.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	5	1	12	47	79	76	97	5.7
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	245	4	1	11	32	69	55	73	5.6
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	27	1	-	2	5	3	7	9	...
NOT REPORTED	45	-	-	-	10	7	13	14	5.9

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE C-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
UNITS OCCUPIED LAST WINTER--CONTINUED									
INSUFFICIENT HEAT--CONTINUED									
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED									
RENTER OCCUPIED	4 410	105	238	933	1 345	922	489	379	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	104	235	921	1 322	900	471	357	4.2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	1	3	13	23	22	18	22	5.0
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	69	1	3	8	13	15	12	17	5.1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	-	-	3	5	3	1	4	...
NOT REPORTED	16	1	-	2	5	3	4	2	...
ALL OCCUPIED HOUSING UNITS	20 842	193	435	1 556	3 561	5 245	4 613	5 238	5.4
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	14 616	32	77	225	1 598	3 976	3 958	4 749	5.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	297	5	1	13	39	75	71	93	5.7
WITH SELECTED HEATING EQUIPMENT[2]	14 319	27	76	212	1 559	3 901	3 887	4 657	5.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 231	25	69	200	1 471	3 635	3 604	4 227	5.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 051	2	7	12	81	253	277	419	6.1
SOLAR HEATING EQUIPMENT	20	-	-	-	-	6	2	11	...
STOVE, BURNING WOOD OR COAL	407	-	1	5	32	99	110	160	6.1
FIREPLACE, BURNING WOOD OR COAL	161	2	2	3	8	36	39	73	6.3
PORTABLE ELECTRIC HEATER	322	-	1	3	31	78	96	113	6.0
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	62	-	-	1	8	16	11	26	6.0
OTHER	116	-	4	2	2	27	29	52	6.3
NOT REPORTED	37	-	-	-	8	12	7	11	5.4
RENTER OCCUPIED	6 226	162	358	1 331	1 963	1 269	655	489	4.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	100	3	5	10	20	21	16	24	5.0
WITH SELECTED HEATING EQUIPMENT[2]	6 126	159	352	1 320	1 943	1 248	639	464	4.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 847	153	338	1 286	1 854	1 189	603	424	4.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	262	4	13	34	86	54	31	40	4.4
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	1	1	...
STOVE, BURNING WOOD OR COAL	40	-	-	1	8	7	12	12	5.8
FIREPLACE, BURNING WOOD OR COAL	4	-	2	-	-	1	2	-	...
PORTABLE ELECTRIC HEATER	163	-	5	29	67	31	12	19	4.2
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	20	-	3	1	2	8	1	4	...
OTHER	37	4	4	5	9	7	4	4	4.2
NOT REPORTED	17	2	2	-	4	5	5	-	...
AIR CONDITIONING									
OWNER OCCUPIED	14 616	32	77	225	1 598	3 976	3 958	4 749	5.8
WITH AIR CONDITIONING	9 183	17	35	109	972	2 485	2 511	3 054	5.9
ROOM UNITS	4 672	7	15	73	662	1 417	1 264	1 235	5.6
1	3 210	4	12	64	517	1 003	807	803	5.5
2	1 139	1	1	7	123	345	350	312	5.8
3	253	-	1	1	17	55	88	92	6.1
4	44	2	2	-	3	6	12	20	6.3
5 OR MORE	26	-	-	1	2	7	8	9	...
CENTRAL SYSTEM	4 511	10	20	36	310	1 068	1 247	1 819	6.1
WITH NO AIR CONDITIONING	5 432	15	42	117	626	1 491	1 447	1 695	5.8
RENTER OCCUPIED	6 226	162	358	1 331	1 963	1 269	655	489	4.1
WITH AIR CONDITIONING	3 280	51	151	786	1 170	591	293	237	4.0
ROOM UNITS	2 240	35	115	580	763	397	194	156	4.0
1	1 866	35	110	534	634	296	141	116	3.9
2	322	-	6	35	116	91	40	35	4.5
3	39	-	-	8	10	10	7	5	4.7
4	12	-	-	3	3	1	5	-	...
5 OR MORE	2	-	-	-	-	-	2	-	...
CENTRAL SYSTEM	1 040	17	36	206	407	194	99	81	4.1
WITH NO AIR CONDITIONING	2 946	110	206	544	793	678	362	252	4.3

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE C-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
SUPPLEMENTAL COOLING EQUIPMENT									
OWNER OCCUPIED	14 616	32	77	225	1 598	3 976	3 958	4 749	5.8
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	4 511	10	20	36	310	1 068	1 247	1 819	6.1
WITH SUPPLEMENTAL EQUIPMENT USED	2 555	10	10	10	166	586	735	1 039	6.2
INDIVIDUAL ROOM AIR CONDITIONING UNIT	110	2	-	1	6	17	41	43	6.2
AWNINGS	465	3	-	3	39	141	155	124	5.8
DEHUMIDIFIER	941	3	5	2	55	208	281	388	6.2
CEILING FAN	138	-	-	1	5	27	43	63	6.3
ATTIC FAN	665	2	2	2	21	103	179	356	6.5+
WINDOW FAN	244	-	4	2	15	64	79	80	6.0
PORTABLE FAN	1 072	6	1	6	93	279	281	406	6.0
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 866	1	9	25	136	454	483	759	6.1
NOT REPORTED	89	-	2	1	8	28	29	22	5.7
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 105	21	57	190	1 288	2 908	2 711	2 930	5.7
RENTER OCCUPIED	6 226	162	358	1 331	1 963	1 269	655	489	4.1
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 040	17	36	206	407	194	99	81	4.1
WITH SUPPLEMENTAL EQUIPMENT USED	319	2	10	51	109	60	45	41	4.4
INDIVIDUAL ROOM AIR CONDITIONING UNIT	12	-	-	5	5	1	-	2	...
AWNINGS	28	-	1	5	3	7	7	4	...
DEHUMIDIFIER	36	-	2	3	5	7	6	13	5.7
CEILING FAN	17	-	-	2	5	4	2	5	...
ATTIC FAN	20	-	-	-	2	4	7	7	...
WINDOW FAN	51	2	2	4	17	13	8	5	4.5
PORTABLE FAN	213	1	8	40	77	40	26	21	4.2
WITH NO SUPPLEMENTAL EQUIPMENT USED	691	14	20	150	290	129	51	37	4.0
NOT REPORTED	30	-	6	6	8	5	3	2	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 186	145	322	1 124	1 556	1 074	556	408	4.1
ALL OCCUPIED HOUSING UNITS	20 842	193	435	1 556	3 561	5 245	4 613	5 238	5.4
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	15 882	35	94	317	1 887	4 273	4 187	5 091	5.8
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	13 815	28	70	168	1 395	3 709	3 766	4 678	5.9
ALL WINDOWS COVERED	11 977	24	60	130	1 191	3 230	3 297	4 045	5.9
SOME WINDOWS COVERED	1 300	1	7	13	119	334	327	499	6.0
NO WINDOWS COVERED	498	3	4	25	78	134	129	125	5.5
NOT REPORTED	40	-	-	-	7	11	12	9	5.6
RENTER OCCUPIED	2 068	7	23	148	493	563	420	413	5.1
ALL WINDOWS COVERED	1 307	4	12	74	303	364	283	268	5.2
SOME WINDOWS COVERED	371	-	-	21	78	103	71	98	5.3
NO WINDOWS COVERED	296	1	9	39	87	66	52	42	4.7
NOT REPORTED	94	1	3	15	25	30	14	5	4.6
STORM DOORS									
OWNER OCCUPIED	13 815	28	70	168	1 395	3 709	3 766	4 678	5.9
ALL DOORS COVERED	11 236	24	47	106	1 077	3 138	3 182	3 661	5.9
SOME DOORS COVERED	1 528	-	14	13	179	348	385	590	6.0
NO DOORS COVERED	1 007	4	9	49	132	212	183	418	6.0
NOT REPORTED	43	-	-	1	7	11	16	8	5.6
RENTER OCCUPIED	2 068	7	23	148	493	563	420	413	5.1
ALL DOORS COVERED	1 196	3	8	54	245	348	270	267	5.3
SOME DOORS COVERED	319	-	2	15	70	90	70	71	5.3
NO DOORS COVERED	460	2	9	64	152	95	66	71	4.5
NOT REPORTED	93	1	3	15	25	30	14	5	4.6
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	13 815	28	70	168	1 395	3 709	3 766	4 678	5.9
YES	12 532	27	59	141	1 244	3 336	3 449	4 275	5.9
NO	882	-	9	17	98	261	211	286	5.8
DON'T KNOW	341	1	2	10	46	96	87	99	5.7
NOT REPORTED	59	-	-	-	7	16	18	17	5.8
RENTER OCCUPIED	2 068	7	23	148	493	563	420	413	5.1
YES	1 188	2	8	62	272	327	260	257	5.3
NO	343	2	4	34	67	85	68	83	5.3
DON'T KNOW	441	1	8	38	129	120	78	67	4.9
NOT REPORTED	95	1	3	15	25	32	14	5	4.6

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS	20 842	3 954	16 888	3 929	3 320	1 677	7 961
HOUSE HEATING FUEL							
OWNER OCCUPIED	14 616	2 751	11 865	2 722	2 832	1 289	5 021
UTILITY GAS	10 272	1 456	8 816	1 968	2 249	1 030	3 568
BOTTLED, TANK, OR LP GAS	1 066	302	764	202	94	59	409
FUEL OIL	1 845	219	1 626	282	393	152	799
KEROSENE, ETC	6	1	5	2	2	-	1
ELECTRICITY	1 241	737	504	241	80	32	150
COAL OR COKE	37	2	35	3	1	7	26
WOOD	134	33	101	21	11	10	58
SOLAR HEAT	1	-	1	1	-	-	-
OTHER FUEL	9	1	8	2	-	-	7
NONE	5	-	5	-	2	-	3
RENTER OCCUPIED	6 226	1 203	5 023	1 207	488	388	2 940
UTILITY GAS	4 416	600	3 816	878	378	307	2 254
BOTTLED, TANK, OR LP GAS	266	32	234	36	24	18	156
FUEL OIL	649	72	577	85	55	46	391
KEROSENE, ETC	2	2	-	-	-	-	-
ELECTRICITY	795	492	303	201	25	11	66
COAL OR COKE	17	-	17	-	2	1	14
WOOD	41	2	39	3	3	1	31
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	27	2	25	5	1	4	16
NONE	14	1	13	-	1	-	12
WATER HEATING FUEL[1]							
OWNER OCCUPIED	14 471	2 739	11 732	2 699	2 813	1 275	4 945
UTILITY GAS	9 414	1 314	8 100	1 816	2 094	919	3 271
BOTTLED, TANK, OR LP GAS	862	245	617	181	83	49	304
FUEL OIL	134	19	115	33	21	11	50
KEROSENE, ETC	2	2	1	-	-	-	1
ELECTRICITY	4 019	1 153	2 866	661	612	296	1 297
COAL OR COKE	1	-	1	-	-	-	1
WOOD	13	4	10	2	-	-	8
SOLAR HEAT	3	2	2	2	-	-	-
OTHER FUEL	4	1	3	1	1	-	2
NONE	19	1	18	3	2	1	12
RENTER OCCUPIED	6 149	1 201	4 948	1 203	483	384	2 878
UTILITY GAS	4 309	577	3 732	831	375	292	2 234
BOTTLED, TANK, OR LP GAS	209	28	182	32	19	20	112
FUEL OIL	51	2	49	-	6	8	35
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 539	585	954	336	83	60	475
COAL OR COKE	3	-	3	-	-	1	2
WOOD	2	-	2	-	-	1	1
SOLAR HEAT	6	6	-	-	-	-	-
OTHER FUEL	8	-	8	-	-	2	6
NONE	21	3	18	3	1	1	13
COOKING FUEL							
OWNER OCCUPIED	14 616	2 751	11 865	2 722	2 832	1 289	5 021
UTILITY GAS	5 699	651	5 048	889	1 157	614	2 389
BOTTLED, TANK, OR LP GAS	1 032	253	779	199	106	67	408
FUEL OIL	13	1	12	4	2	2	4
KEROSENE, ETC	5	2	4	1	-	-	2
ELECTRICITY	7 831	1 844	5 987	1 626	1 567	605	2 190
COAL OR COKE	-	-	-	-	-	-	-
WOOD	27	2	25	2	1	1	22
OTHER FUEL	2	-	2	1	1	-	1
NONE	6	-	6	-	-	2	4

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
COOKING FUEL--CONTINUED							
RENTER OCCUPIED	6 226	1 203	5 023	1 207	488	388	2 940
UTILITY GAS	3 199	292	2 907	475	246	231	1 955
BOTTLED, TANK, OR LP GAS	284	34	250	48	23	20	158
FUEL OIL	11	-	11	2	2	2	6
KEROSENE, ETC	1	-	1	-	-	1	-
ELECTRICITY	2 685	876	1 810	678	217	133	781
COAL OR COKE	1	1	-	-	-	-	-
WOOD	5	-	5	1	-	-	4
OTHER FUEL	3	-	3	-	-	-	3
NONE	38	-	38	3	-	2	33
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	11 653	1 933	9 720	2 244	2 606	1 168	3 702
ELECTRICITY PAID FOR	11 648	1 932	9 715	2 243	2 605	1 168	3 700
LESS THAN $10	79	2	77	6	9	4	58
$10 TO $19	916	51	865	93	191	133	449
$20 TO $29	2 242	217	2 025	304	512	281	927
$30 TO $39	2 645	317	2 328	496	686	314	833
$40 TO $49	1 891	275	1 616	427	444	180	565
$50 TO $59	1 436	246	1 190	361	344	118	368
$60 TO $79	1 410	366	1 044	343	277	109	315
$80 TO $99	446	189	257	88	69	17	83
$100 TO $149	444	200	244	100	58	6	81
$150 OR MORE	138	68	70	25	18	6	22
MEDIAN	39	54	37	45	38	35	34
NO ELECTRICITY USED	5	1	4	2	1	-	2
SPECIFIED RENTER OCCUPIED[2]	6 010	1 191	4 819	1 196	478	372	2 772
ELECTRICITY PAID FOR	5 014	1 024	3 990	1 059	411	311	2 209
LESS THAN $10	389	52	337	76	36	21	204
$10 TO $19	1 432	241	1 191	326	109	88	668
$20 TO $29	1 194	194	1 000	292	86	74	547
$30 TO $39	865	199	666	159	82	67	359
$40 TO $49	484	128	356	91	40	40	185
$50 TO $59	274	75	198	49	26	12	112
$60 TO $79	245	85	159	46	20	7	87
$80 TO $99	68	23	44	13	8	1	22
$100 TO $149	44	21	23	4	3	-	16
$150 OR MORE	20	5	15	3	2	-	9
MEDIAN	28	31	24	24	26	26	24
INCLUDED IN RENT	984	167	816	137	67	61	551
NO ELECTRICITY USED	12	-	12	-	-	-	12
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	11 653	1 933	9 720	2 244	2 606	1 168	3 702
GAS PAID FOR	10 072	1 298	8 774	1 978	2 345	1 067	3 385
LESS THAN $10	247	33	214	31	40	30	112
$10 TO $14	211	18	193	32	44	24	93
$15 TO $19	273	33	240	45	49	33	114
$20 TO $24	498	68	430	90	107	55	179
$25 TO $29	658	82	575	104	199	91	181
$30 TO $39	2 019	232	1 787	396	541	224	626
$40 TO $49	2 127	261	1 865	443	570	240	612
$50 TO $69	2 867	403	2 465	605	601	284	975
$70 TO $99	876	139	737	162	158	73	343
$100 OR MORE	296	28	269	70	37	13	149
MEDIAN	45	46	45	46	43	43	46
NO GAS USED	1 581	636	945	267	261	101	317

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	6 010	1 191	4 819	1 196	478	372	2 772
GAS PAID FOR	3 098	300	2 799	457	313	252	1 778
LESS THAN $10	475	33	442	69	34	28	312
$10 TO $14	290	33	258	39	36	14	169
$15 TO $19	239	41	198	51	26	24	97
$20 TO $24	239	34	206	57	28	13	107
$25 TO $29	239	24	216	51	18	23	124
$30 TO $39	482	37	445	70	62	54	259
$40 TO $49	365	45	320	44	44	36	195
$50 TO $69	475	39	436	61	39	44	292
$70 TO $99	187	7	180	11	12	9	148
$100 OR MORE	106	7	99	4	15	6	74
MEDIAN	31	27	32	26	32	34	33
INCLUDED IN RENT	2 212	536	1 675	591	133	102	849
NO GAS USED	700	355	344	148	33	19	145
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[2]	11 653	1 933	9 720	2 244	2 606	1 168	3 702
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 984	401	1 582	366	403	170	643
LESS THAN $100	481	161	320	125	67	20	108
$100 TO $199	235	74	161	54	38	15	54
$200 TO $299	116	35	80	21	12	11	36
$300 TO $399	129	19	110	14	34	11	51
$400 TO $499	115	16	99	11	42	11	35
$500 TO $599	164	17	147	26	41	23	57
$600 TO $699	173	18	156	25	46	23	62
$700 TO $799	129	13	116	10	38	19	49
$800 OR MORE	442	49	393	79	85	37	192
MEDIAN	427	154	514	218	520	574	567
FUELS NOT USED OR FREE	9 669	1 532	8 138	1 878	2 203	998	3 059
SPECIFIED RENTER OCCUPIED[1]	6 010	1 191	4 819	1 196	478	372	2 772
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	318	21	297	30	38	28	201
LESS THAN $100	60	11	49	5	7	8	29
$100 TO $199	25	2	23	5	3	1	13
$200 TO $299	19	1	18	2	2	2	11
$300 TO $399	23	1	22	4	1	1	15
$400 TO $499	33	1	32	4	5	2	22
$500 TO $599	26	1	25	4	4	2	15
$600 TO $699	25	-	25	2	6	4	14
$700 TO $799	19	1	18	2	2	2	12
$800 OR MORE	88	2	86	3	9	5	68
MEDIAN	496	...	522	...	530	...	559
INCLUDED IN RENT	882	154	729	173	60	60	436
FUELS NOT USED OR FREE	4 809	1 017	3 793	993	380	285	2 135
ALL OCCUPIED HOUSING UNITS	20 842	3 954	16 888	3 929	3 320	1 677	7 961
HEATING EQUIPMENT							
OWNER OCCUPIED	14 616	2 751	11 865	2 722	2 832	1 289	5 021
WARM-AIR FURNACE	11 262	2 066	9 195	2 221	2 483	1 063	3 428
HEAT PUMP	200	178	22	8	4	-	9
STEAM OR HOT WATER	1 295	108	1 187	210	158	70	749
BUILT-IN ELECTRIC UNITS	632	289	342	173	57	17	96
FLOOR, WALL, OR PIPELESS FURNACE	353	38	315	33	59	61	163
ROOM HEATERS WITH FLUE	547	11	537	23	43	59	411
ROOM HEATERS WITHOUT FLUE	30	1	29	3	2	-	24
FIREPLACES, STOVES, OR PORTABLE HEATERS	292	60	232	50	26	19	137
NONE	5	-	5	-	2	-	3
RENTER OCCUPIED	6 226	1 203	5 023	1 207	488	388	2 940
WARM-AIR FURNACE	3 256	638	2 618	696	306	228	1 387
HEAT PUMP	28	25	3	2	-	-	1
STEAM OR HOT WATER	1 645	229	1 416	307	101	94	914
BUILT-IN ELECTRIC UNITS	522	299	223	147	17	7	52
FLOOR, WALL, OR PIPELESS FURNACE	193	3	190	36	31	20	102
ROOM HEATERS WITH FLUE	440	2	438	14	24	28	372
ROOM HEATERS WITHOUT FLUE	43	1	42	2	2	9	30
FIREPLACES, STOVES, OR PORTABLE HEATERS	86	5	81	3	5	4	69
NONE	14	1	13	-	1	-	12

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	14 616	2 751	11 865	2 722	2 832	1 289	5 021
HOUSING UNITS WITH HEATING EQUIPMENT	14 611	2 751	11 860	2 722	2 831	1 289	5 018
WITH FIREPLACE OR HEATING STOVE	6 082	1 567	4 515	1 214	985	484	1 832
IN WORKING ORDER	5 748	1 545	4 203	1 191	946	455	1 611
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	4 609	1 384	3 225	1 026	722	342	1 135
ALL PURCHASED	1 327	481	847	325	193	80	249
SOME OR NONE PURCHASED	3 223	890	2 332	696	522	254	860
NOT REPORTED	59	13	46	5	7	8	26
COAL	27	5	22	2	2	2	16
OTHER FUEL	623	86	537	95	101	52	290
NONE	475	65	410	66	119	59	166
NOT REPORTED	15	7	8	2	2	-	4
NOT IN WORKING ORDER	319	19	300	20	37	25	219
NOT REPORTED	15	3	11	2	3	4	2
WITHOUT FIREPLACE OR HEATING STOVE	8 496	1 177	7 319	1 503	1 836	800	3 179
NOT REPORTED	33	7	26	5	10	5	7
HOUSING UNITS WITH NO HEATING EQUIPMENT	5	-	5	-	2	-	3
RENTER OCCUPIED	6 226	1 203	5 023	1 207	488	388	2 940
HOUSING UNITS WITH HEATING EQUIPMENT	6 212	1 202	5 010	1 207	487	388	2 928
WITH FIREPLACE OR HEATING STOVE	796	92	704	80	64	55	526
IN WORKING ORDER	609	92	517	52	61	40	364
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	352	56	296	41	40	23	192
ALL PURCHASED	92	24	68	17	11	5	35
SOME OR NONE PURCHASED	245	26	220	22	29	18	150
NOT REPORTED	14	6	9	2	1	-	6
COAL	8	-	8	-	2	-	6
OTHER FUEL	171	21	150	3	9	11	127
NONE	74	15	59	6	10	6	37
NOT REPORTED	5	-	5	2	1	-	2
NOT IN WORKING ORDER	180	-	180	4	3	15	158
NOT REPORTED	7	-	7	4	-	-	4
WITHOUT FIREPLACE OR HEATING STOVE	5 397	1 106	4 291	1 142	420	332	2 397
NOT REPORTED	19	3	16	6	3	2	5
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	1	13	-	1	-	12
ALL OCCUPIED HOUSING UNITS	20 842	3 954	16 888	3 929	3 320	1 677	7 961
UNITS OCCUPIED LAST WINTER	18 416	3 220	15 196	3 486	3 121	1 556	7 033
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	14 005	2 471	11 534	2 647	2 771	1 250	4 867
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	2 412	11 277	2 593	2 743	1 231	4 709
NO ADDITIONAL HEAT SOURCE USED	12 703	2 264	10 439	2 447	2 558	1 151	4 284
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	788	103	686	118	153	66	349
NOT REPORTED	198	46	152	28	33	15	76
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	59	258	53	28	18	158
RENTER OCCUPIED	4 410	749	3 662	840	350	306	2 166
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	744	3 565	837	345	295	2 088
NO ADDITIONAL HEAT SOURCE USED	3 691	701	2 990	763	296	253	1 678
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	526	26	500	53	42	36	369
NOT REPORTED	92	17	75	21	7	6	41
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	4	97	3	5	11	79

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	14 005	2 471	11 534	2 647	2 771	1 250	4 867
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	2 412	11 277	2 593	2 743	1 231	4 709
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 581	2 316	9 266	2 461	2 490	1 026	3 289
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 872	48	1 824	92	216	186	1 330
1 ROOM	727	32	695	59	107	73	457
2 ROOMS	498	6	492	16	56	42	377
3 ROOMS OR MORE	647	10	637	17	53	71	496
NOT REPORTED	235	48	187	40	38	19	90
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	59	258	53	28	18	158
RENTER OCCUPIED	4 410	749	3 662	840	350	306	2 166
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	744	3 565	837	345	295	2 088
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 506	719	2 787	772	301	244	1 470
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	704	9	695	41	36	47	571
1 ROOM	299	7	292	21	17	14	241
2 ROOMS	199	2	197	11	7	19	161
3 ROOMS OR MORE	205	-	205	10	12	14	169
NOT REPORTED	100	16	83	23	9	5	47
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	4	97	3	5	11	79
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	14 005	2 471	11 534	2 647	2 771	1 250	4 867
WITH SPECIFIED HEATING EQUIPMENT[1]	13 689	2 412	11 277	2 593	2 743	1 231	4 709
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	316	59	258	53	28	18	158
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	245	51	194	39	23	13	119
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	27	4	23	3	2	3	15
NOT REPORTED	45	4	40	11	3	2	24
RENTER OCCUPIED	4 410	749	3 662	840	350	306	2 166
WITH SPECIFIED HEATING EQUIPMENT[1]	4 309	744	3 565	837	345	295	2 088
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	101	4	97	3	5	11	79
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	69	4	65	3	4	5	53
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	1	16	-	1	1	14
NOT REPORTED	16	-	16	-	-	5	11
ALL OCCUPIED HOUSING UNITS	20 842	3 954	16 888	3 929	3 320	1 677	7 961
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	14 616	2 751	11 865	2 722	2 832	1 289	5 021
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	297	60	237	50	27	19	141
WITH SELECTED HEATING EQUIPMENT[2]	14 319	2 691	11 628	2 672	2 805	1 270	4 880
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 231	2 440	10 791	2 487	2 633	1 183	4 489
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 051	241	810	184	159	84	382
SOLAR HEATING EQUIPMENT	20	4	16	6	-	-	10
STOVE, BURNING WOOD OR COAL	407	108	299	68	48	29	154
FIREPLACE, BURNING WOOD OR COAL	161	52	110	35	22	10	43
PORTABLE ELECTRIC HEATER	322	42	280	47	63	32	137
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	62	13	49	7	15	3	24
OTHER	116	31	84	25	17	11	31
NOT REPORTED	37	10	27	1	13	3	10

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED	6 226	1 203	5 023	1 207	488	388	2 940
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	100	6	94	3	6	4	81
WITH SELECTED HEATING EQUIPMENT[1]	6 126	1 197	4 929	1 204	482	384	2 859
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 847	1 178	4 670	1 181	465	360	2 664
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	262	15	247	23	16	21	187
SOLAR HEATING EQUIPMENT	1	-	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	40	1	40	3	3	3	31
FIREPLACE, BURNING WOOD OR COAL	4	1	3	2	-	-	2
PORTABLE ELECTRIC HEATER	163	11	152	14	8	14	116
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	20	1	18	2	1	1	15
OTHER	37	3	34	2	5	3	24
NOT REPORTED	17	4	13	-	2	3	8
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[2]							
OWNER OCCUPIED	14 449	2 737	11 712	2 694	2 811	1 274	4 932
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	14 310	2 715	11 595	2 660	2 789	1 259	4 888
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	47	11	36	9	10	3	14
NOT REPORTED	92	11	81	25	12	13	31
RENTER OCCUPIED	6 122	1 192	4 929	1 199	482	383	2 865
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 052	1 179	4 874	1 191	472	380	2 831
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	23	2	20	-	1	-	19
NOT REPORTED	46	11	35	9	8	3	15
AIR CONDITIONING							
OWNER OCCUPIED	14 616	2 751	11 865	2 722	2 832	1 289	5 021
WITH AIR CONDITIONING	9 183	1 923	7 260	1 871	1 923	801	2 666
ROOM UNITS	4 672	390	4 282	660	1 001	524	2 098
1	3 210	298	2 911	472	670	363	1 407
2	1 139	77	1 062	150	267	136	510
3	253	10	243	36	45	24	139
4	44	-	44	1	12	1	31
5 OR MORE	26	6	21	2	7	-	12
CENTRAL SYSTEM	4 511	1 533	2 978	1 211	922	277	568
WITH NO AIR CONDITIONING	5 432	828	4 604	851	910	489	2 355
RENTER OCCUPIED	6 226	1 203	5 023	1 207	488	388	2 940
WITH AIR CONDITIONING	3 280	970	2 309	905	259	173	972
ROOM UNITS	2 240	426	1 814	586	199	148	881
1	1 866	352	1 514	512	166	114	721
2	322	68	253	57	28	28	141
3	39	6	33	11	3	5	14
4	12	-	12	6	2	1	3
5 OR MORE	2	-	2	-	-	-	2
CENTRAL SYSTEM	1 040	544	495	319	60	26	91
WITH NO AIR CONDITIONING	2 946	232	2 714	302	229	215	1 968
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	14 616	2 751	11 865	2 722	2 832	1 289	5 021
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	4 511	1 533	2 978	1 211	922	277	568
WITH SUPPLEMENTAL EQUIPMENT USED	2 555	750	1 805	702	597	171	335
INDIVIDUAL ROOM AIR CONDITIONING UNIT	110	10	100	25	27	15	34
AWNINGS	465	67	398	93	179	47	79
DEHUMIDIFIER	941	267	674	281	227	70	95
CEILING FAN	138	51	88	31	35	5	17
ATTIC FAN	665	201	464	211	168	23	61
WINDOW FAN	244	65	178	54	48	28	49
PORTABLE FAN	1 072	319	753	282	236	69	166
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 866	745	1 121	486	308	102	226
NOT REPORTED	89	37	52	23	17	4	7
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 105	1 218	8 886	1 511	1 910	1 012	4 453

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT--CONTINUED							
RENTER OCCUPIED	6 226	1 203	5 023	1 207	488	388	2 940
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 040	544	495	319	60	26	91
WITH SUPPLEMENTAL EQUIPMENT USED	319	142	177	98	35	7	37
INDIVIDUAL ROOM AIR CONDITIONING UNIT	12	4	8	2	-	1	6
AWNINGS	28	6	21	10	5	1	5
DEHUMIDIFIER	36	11	26	12	8	2	4
CEILING FAN	17	6	12	6	3	-	2
ATTIC FAN	20	4	16	6	9	1	1
WINDOW FAN	51	20	31	18	2	2	9
PORTABLE FAN	213	103	110	61	22	4	24
WITH NO SUPPLEMENTAL EQUIPMENT USED	691	392	299	211	24	16	48
NOT REPORTED	30	11	19	10	1	3	5
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 186	658	4 528	889	428	362	2 849
ALL OCCUPIED HOUSING UNITS	20 842	3 954	16 888	3 929	3 320	1 677	7 961
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	15 882	2 832	13 050	2 892	3 032	1 438	5 687
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	13 815	2 619	11 196	2 621	2 783	1 257	4 535
ALL WINDOWS COVERED	11 977	2 486	9 490	2 360	2 485	1 093	3 552
SOME WINDOWS COVERED	1 300	71	1 229	160	185	112	773
NO WINDOWS COVERED	498	56	442	95	102	46	199
NOT REPORTED	40	5	34	6	12	5	11
RENTER OCCUPIED	2 068	214	1 854	272	249	182	1 152
ALL WINDOWS COVERED	1 307	143	1 164	188	165	125	686
SOME WINDOWS COVERED	371	13	358	32	31	30	265
NO WINDOWS COVERED	296	33	263	30	45	25	164
NOT REPORTED	94	25	69	22	8	2	37
STORM DOORS							
OWNER OCCUPIED	13 815	2 619	11 196	2 621	2 783	1 257	4 535
ALL DOORS COVERED	11 236	1 715	9 521	2 165	2 542	1 139	3 675
SOME DOORS COVERED	1 528	457	1 071	294	144	78	555
NO DOORS COVERED	1 007	439	568	155	87	33	292
NOT REPORTED	43	7	36	6	10	7	13
RENTER OCCUPIED	2 068	214	1 854	272	249	182	1 152
ALL DOORS COVERED	1 196	94	1 102	147	164	134	657
SOME DOORS COVERED	319	31	288	41	24	21	201
NO DOORS COVERED	460	64	396	62	52	25	257
NOT REPORTED	93	25	68	22	8	2	36
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	13 815	2 619	11 196	2 621	2 783	1 257	4 535
YES	12 532	2 535	9 997	2 474	2 633	1 142	3 748
NO	882	40	842	64	90	68	621
DON'T KNOW	341	35	306	72	49	36	149
NOT REPORTED	59	8	51	10	12	12	17
RENTER OCCUPIED	2 068	214	1 854	272	249	182	1 152
YES	1 188	129	1 059	185	153	131	589
NO	343	12	332	24	31	11	266
DON'T KNOW	441	47	393	40	56	37	260
NOT REPORTED	95	25	71	22	9	2	37

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	13 815	2 619	11 196	2 621	2 783	1 257	4 535
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	498	56	442	95	102	46	199
SOME OR ALL WINDOWS COVERED	13 277	2 557	10 720	2 519	2 670	1 205	4 325
NONE INSTALLED	12 130	2 352	9 778	2 336	2 498	1 083	3 860
SOME OR ALL INSTALLED	1 117	200	917	178	166	118	454
NOT REPORTED	29	5	25	5	6	3	10
NOT REPORTED	40	5	34	6	12	5	11
STORM DOORS:							
NO DOORS COVERED	1 007	439	568	155	87	33	292
SOME OR ALL DOORS COVERED	12 764	2 173	10 592	2 459	2 686	1 217	4 230
NONE INSTALLED	12 039	1 960	10 080	2 361	2 576	1 159	3 983
SOME OR ALL INSTALLED	653	203	451	88	89	45	229
NOT REPORTED	72	10	62	10	21	12	18
NOT REPORTED	43	7	36	6	10	7	13
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	882	40	842	64	90	68	621
WITH ATTIC OR ROOF INSULATION	12 532	2 535	9 997	2 474	2 633	1 142	3 748
NONE ADDED OR INSTALLED	11 343	2 326	9 016	2 284	2 383	1 033	3 317
SOME OR ALL ADDED OR INSTALLED	1 127	188	939	178	241	102	418
NOT REPORTED	62	21	41	12	9	7	13
DON'T KNOW	341	35	306	72	49	36	149
NOT REPORTED	59	8	51	10	12	12	17
WALL INSULATION:							
NONE ADDED OR INSTALLED	12 842	2 440	10 402	2 483	2 623	1 162	4 135
SOME OR ALL ADDED OR INSTALLED	899	169	730	129	142	82	377
NOT REPORTED	74	9	64	9	18	13	24
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	10 160	1 948	8 213	1 900	2 030	915	3 368
SOME OR ALL ADDED OR INSTALLED	3 585	662	2 923	713	739	327	1 144
NOT REPORTED	70	9	60	7	15	15	23
OTHER INSULATION:							
NONE ADDED OR INSTALLED	12 699	2 301	10 398	2 421	2 609	1 155	4 213
SOME OR ALL ADDED OR INSTALLED	1 051	309	743	193	160	90	300
NOT REPORTED	64	9	55	7	15	11	22
RENTER OCCUPIED	2 068	214	1 854	272	249	182	1 152
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	296	33	263	30	45	25	164
SOME OR ALL WINDOWS COVERED	1 678	156	1 522	220	196	154	951
NONE INSTALLED	1 456	149	1 308	198	176	135	799
SOME OR ALL INSTALLED	202	3	199	22	20	15	142
NOT REPORTED	19	4	15	-	-	5	11
NOT REPORTED	94	25	69	22	8	2	37
STORM DOORS:							
NO DOORS COVERED	460	64	396	62	52	25	257
SOME OR ALL DOORS COVERED	1 515	125	1 390	188	189	155	858
NONE INSTALLED	1 407	112	1 295	181	180	145	789
SOME OR ALL INSTALLED	79	9	70	7	8	8	47
NOT REPORTED	29	4	25	-	-	2	22
NOT REPORTED	93	25	68	22	8	2	36
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	343	12	332	24	31	11	266
WITH ATTIC OR ROOF INSULATION	1 188	129	1 059	185	153	131	589
NONE ADDED OR INSTALLED	1 094	123	971	171	146	124	531
SOME OR ALL ADDED OR INSTALLED	87	4	83	13	7	7	56
NOT REPORTED	7	2	5	1	-	1	3
DON'T KNOW	441	47	393	40	56	37	260
NOT REPORTED	95	25	71	22	9	2	37
WALL INSULATION:							
NONE ADDED OR INSTALLED	1 885	179	1 705	242	235	172	1 056
SOME OR ALL ADDED OR INSTALLED	50	1	49	5	4	2	38
NOT REPORTED	133	34	100	25	10	7	58

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED--CONTINUED							
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	1 644	167	1 478	216	214	150	898
SOME OR ALL ADDED OR INSTALLED	290	13	276	30	25	25	196
NOT REPORTED	134	34	100	25	10	7	58
OTHER INSULATION:							
NONE ADDED OR INSTALLED	1 860	175	1 685	239	233	169	1 044
SOME OR ALL ADDED OR INSTALLED	74	5	69	8	6	5	49
NOT REPORTED	134	34	101	25	10	7	59
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	13 815	2 619	11 196	2 621	2 783	1 257	4 535
NO INSULATION ADDED OR INSTALLED	8 443	1 567	6 876	1 632	1 706	763	2 775
WITH INSULATION ADDED OR INSTALLED	5 206	1 019	4 187	966	1 045	472	1 705
LESS THAN $50	2 680	488	2 192	527	586	251	828
$50 TO $99	564	118	446	116	103	37	190
$100 TO $249	724	179	545	113	126	78	229
$250 TO $499	473	98	375	102	88	39	147
$500 TO $999	302	49	252	42	57	30	122
$1,000 OR MORE	252	41	211	37	44	18	111
DON'T KNOW	115	26	89	15	19	10	46
NOT REPORTED	96	20	76	13	23	8	31
MEDIAN	50-	50-	50-	50-	50-	50-	50-
NOT REPORTED OR DON'T KNOW	166	33	133	22	33	22	55
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	349	52	297	56	60	41	141
LESS THAN $50	196	21	174	27	33	23	91
$50 TO $99	27	4	23	8	5	2	8
$100 TO $249	28	9	18	3	7	-	8
$250 TO $499	30	3	27	4	4	3	16
$500 TO $999	25	7	18	3	4	5	5
$1,000 OR MORE	8	1	8	5	-	2	1
DON'T KNOW	11	2	8	2	-	3	4
NOT REPORTED	25	4	21	3	8	3	7
MEDIAN	50-	68	50-	50-	50-	...	50-
ONLY INSTALLED STORM DOORS	192	66	127	28	29	10	59
LESS THAN $50	26	2	24	7	3	2	12
$50 TO $99	55	19	36	3	13	4	16
$100 TO $249	73	32	41	12	8	3	19
$250 TO $499	18	9	9	3	2	-	5
$500 TO $999	7	1	6	3	2	-	2
$1,000 OR MORE	-	-	-	-	-	-	-
DON'T KNOW	2	-	2	-	-	-	2
NOT REPORTED	12	4	9	1	2	2	4
MEDIAN	117	147	97	...	...	...	95
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	507	78	429	75	126	43	186
LESS THAN $50	50	9	42	6	14	7	15
$50 TO $99	67	14	53	11	16	2	25
$100 TO $249	166	28	138	23	42	19	53
$250 TO $499	107	13	94	26	28	9	31
$500 TO $999	55	7	47	4	17	3	24
$1,000 OR MORE	26	-	26	1	4	1	20
DON'T KNOW	16	1	16	2	2	2	9
NOT REPORTED	19	6	14	2	3	-	9
MEDIAN	206	169	214	222	207	191	223

TABLE C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY: LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	11 653	79	916	2 242	2 645	1 891	1 436	1 410	446	444	138	5	39
HOUSE HEATING FUEL													
ELECTRICITY	880	-	5	23	43	62	83	227	177	198	62	-	79
OTHER THAN ELECTRICITY	10 772	79	910	2 219	2 602	1 829	1 353	1 183	269	246	77	5	38
UTILITY GAS	8 986	57	796	1 907	2 204	1 477	1 103	954	209	208	67	3	37
BOTTLED, TANK, OR LP GAS	490	5	32	98	126	93	67	44	12	12	1	-	38
FUEL OIL	1 198	16	75	191	249	240	174	172	45	25	8	2	43
KEROSENE, ETC	6	-	-	-	2	-	2	-	2	-	-	-	...
COAL OR COKE	16	-	1	3	2	6	-	3	-	-	-	1	...
WOOD	72	1	6	18	15	13	7	10	-	1	-	-	36
SOLAR HEAT	1	-	-	-	1	-	-	-	-	-	-	-	...
OTHER FUEL	4	-	-	1	3	-	-	-	-	-	-	-	...
NONE	1	-	1	-	-	-	-	-	-	-	-	-	...
WATER HEATING FUEL[3]													
ELECTRICITY	2 747	5	98	297	467	438	368	509	251	241	73	-	52
OTHER FUEL	8 801	62	803	1 925	2 159	1 435	1 059	896	193	201	64	4	37
NONE	7	1	2	1	2	2	1	-	-	-	-	-	...
COOKING FUEL													
ELECTRICITY	6 354	17	301	979	1 384	1 104	845	941	341	332	110	-	44
OTHER FUEL	5 294	62	615	1 263	1 259	787	589	470	105	113	28	4	35
NONE	4	-	-	-	2	-	2	-	-	-	-	1	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	768	-	2	13	26	41	68	208	170	181	60	-	83
ALL OTHER FUEL COMBINATIONS	6 031	17	329	1 061	1 466	1 120	847	782	185	172	52	-	41
NONE	4 854	62	586	1 169	1 153	730	521	420	90	92	26	5	35
HEATING EQUIPMENT													
WARM-AIR FURNACE	9 376	47	719	1 823	2 287	1 589	1 178	1 089	277	281	84	2	38
HEAT PUMP	169	-	1	3	5	7	12	43	38	44	17	-	87
STEAM OR HOT WATER	882	10	60	197	181	156	118	97	32	23	8	2	39
BUILT-IN ELECTRIC UNITS	431	-	1	10	15	34	44	128	84	88	26	-	76
FLOOR, WALL, OR PIPELESS FURNACE	255	5	41	69	53	38	22	11	9	4	2	-	32
ROOM HEATERS WITH FLUE	364	14	82	107	68	31	34	21	3	2	2	-	27
ROOM HEATERS WITHOUT FLUE	17	2	3	1	2	6	2	2	-	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	158	2	9	33	35	30	25	19	2	2	-	1	40
NONE	1	-	1	-	-	-	-	-	-	-	-	-	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	11 652	79	915	2 242	2 645	1 891	1 436	1 410	446	444	138	5	39
WITH FIREPLACE OR HEATING STOVE	4 972	26	260	736	990	801	729	762	285	279	103	2	45
IN WORKING ORDER	4 723	22	237	679	932	774	691	737	277	271	101	2	46
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	3 796	10	136	503	727	631	593	633	237	243	82	1	47
ALL PURCHASED	1 202	4	33	144	194	204	173	233	95	88	35	-	51
SOME OR NONE PURCHASED	2 544	5	101	349	524	417	413	395	139	154	46	1	46
NOT REPORTED	50	1	2	11	9	11	6	6	3	-	2	-	42
COAL	16	1	3	5	1	3	1	3	-	-	-	-	...
OTHER FUEL	489	5	55	93	105	76	58	62	16	8	11	-	38
NONE	408	6	42	77	95	64	38	36	23	19	7	1	37
NOT REPORTED	13	-	2	1	4	-	2	3	-	2	1	-	...
NOT IN WORKING ORDER	240	3	21	55	58	27	37	22	8	7	2	-	36
NOT REPORTED	9	1	2	2	-	-	1	4	-	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	6 653	53	655	1 504	1 653	1 079	700	646	161	166	33	3	36
NOT REPORTED	27	-	-	2	3	11	7	2	-	-	2	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	1	-	-	-	-	-	-	-	-	-	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	159	2	10	33	35	30	25	19	2	2	-	1	40
WITH SELECTED HEATING EQUIPMENT[4]	11 493	77	906	2 209	2 611	1 861	1 411	1 391	443	442	138	4	39
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 656	75	851	2 085	2 438	1 722	1 299	1 263	402	397	120	4	39
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	805	3	55	123	164	130	103	127	42	44	16	-	44
SOLAR HEATING EQUIPMENT	15	-	-	3	4	5	-	3	-	1	-	-	...
STOVE, BURNING WOOD OR COAL	289	1	20	35	55	52	35	52	18	18	3	-	46
FIREPLACE, BURNING WOOD OR COAL	123	-	4	21	24	17	20	17	5	9	6	-	46
PORTABLE ELECTRIC HEATER	262	2	25	47	67	40	30	26	10	13	2	-	38
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	51	-	7	4	10	9	11	7	2	2	-	-	45
OTHER	91	-	2	18	11	12	9	24	6	5	5	-	53
NOT REPORTED	32	-	1	1	8	9	9	2	-	1	3	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 438	67	894	2 198	2 602	1 854	1 418	1 389	441	435	137	4	39
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	36	-	5	9	7	2	4	3	3	3	-	-	36
NOT REPORTED	73	-	2	16	16	16	7	12	-	3	1	-	41

[1] RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY										
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	7 515	17	356	1 151	1 656	1 296	1 092	1 122	352	364	106	1	44
ROOM UNITS,	3 682	15	278	817	941	646	419	376	87	79	23	-	37
1	2 483	15	216	601	633	431	253	227	52	44	12	-	36
2	940	-	56	172	238	174	128	113	23	29	7	-	40
3	207	-	5	37	57	34	30	29	10	2	4	-	41
4	34	-	-	9	6	5	7	4	2	2	-	-	...
5 OR MORE	18	-	2	-	7	3	2	2	-	3	-	-	...
CENTRAL SYSTEM	3 833	2	78	334	716	651	673	747	264	285	83	1	52
WITH NO AIR CONDITIONING	4 138	62	560	1 091	989	595	344	288	94	80	32	4	33
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 833	2	78	334	716	651	673	747	264	285	83	1	52
WITH SUPPLEMENTAL EQUIPMENT USED	2 235	2	43	201	421	394	418	425	135	155	41	-	51
INDIVIDUAL ROOM AIR CONDITIONING UNIT	101	-	2	6	24	13	24	19	7	6	-	-	52
AWNINGS	411	-	17	40	100	68	83	66	20	12	5	-	46
DEHUMIDIFIER	847	-	11	78	180	161	157	130	57	54	18	-	49
CEILING FAN	119	-	2	10	17	20	25	19	5	16	6	-	54
ATTIC FAN	622	-	5	28	107	117	126	150	42	39	8	-	54
WINDOW FAN	212	-	7	29	49	37	34	33	6	12	3	-	45
PORTABLE FAN	900	2	19	85	194	141	170	179	38	59	12	-	50
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 528	-	34	121	281	250	248	309	124	121	41	1	53
NOT REPORTED	70	-	2	12	13	7	7	13	6	9	1	-	51
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 820	77	838	1 908	1 930	1 240	763	663	181	159	55	4	35
PERSONS													
1 PERSON	1 530	55	374	506	282	122	81	60	15	24	7	2	26
2 PERSONS	3 630	15	359	827	964	535	408	311	103	83	24	-	36
3 PERSONS	2 064	3	97	319	509	406	270	261	87	82	31	-	42
4 PERSONS	2 496	3	52	395	531	466	383	422	127	115	40	2	45
5 PERSONS	1 173	2	19	137	247	215	199	195	63	80	17	1	48
6 PERSONS	460	-	11	37	63	106	80	88	26	37	13	1	52
7 PERSONS OR MORE	300	-	4	22	50	42	55	73	25	23	6	-	55
MEDIAN	2.8	1.5-	1.7	2.2	2.6	3.2	3.3	3.7	3.6	3.8	3.6	...	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	10 158	52	775	1 931	2 304	1 652	1 271	1 242	400	408	119	4	40
SOME WINDOWS COVERED	1 053	18	106	237	244	148	122	118	31	15	14	-	36
NO WINDOWS COVERED	413	9	34	71	94	77	43	45	14	21	4	1	39
NOT REPORTED	29	-	-	4	3	14	-	6	1	-	1	-	...
STORM DOORS													
ALL DOORS COVERED	9 687	63	799	1 915	2 271	1 609	1 182	1 115	325	313	90	4	38
SOME DOORS COVERED	1 177	9	73	201	227	182	158	187	53	60	27	-	44
NO DOORS COVERED	755	7	44	119	145	85	95	103	66	71	20	1	47
NOT REPORTED	34	-	-	7	3	15	1	6	1	-	2	-	...
ATTIC OR ROOF INSULATION													
YES	10 645	62	795	1 995	2 419	1 751	1 329	1 316	422	420	132	5	40
NO	689	15	97	183	157	81	72	51	14	16	2	-	33
DON'T KNOW	269	2	24	57	62	41	32	35	8	5	2	-	37
NOT REPORTED	50	-	-	8	8	17	3	8	1	3	2	-	45
SPECIFIED RENTER OCCUPIED[3]	6 010	389	1 432	1 194	865	484	274	245	68	44	20	995	25
HOUSE HEATING FUEL													
ELECTRICITY	782	23	94	101	152	99	70	73	24	14	6	127	36
OTHER THAN ELECTRICITY	5 214	364	1 333	1 093	710	385	202	172	44	30	14	867	24
UTILITY GAS	4 379	320	1 132	923	605	302	157	142	36	25	7	730	24
BOTTLED, TANK, OR LP GAS	192	5	27	49	36	25	16	5	3	3	2	19	31
FUEL OIL	580	36	162	108	60	51	25	22	5	2	5	103	23
KEROSENE, ETC	2	-	-	-	-	2	-	-	-	-	-	-	...
COAL OR COKE	13	1	7	-	1	1	1	1	-	-	-	1	...
WOOD	22	1	1	8	4	2	1	1	-	-	-	2	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	2	3	4	5	2	-	2	-	-	-	10	...
NONE	14	2	5	-	3	-	2	-	-	-	-	2	...
WATER HEATING FUEL[4]													
ELECTRICITY	1 410	46	217	234	266	179	112	115	28	17	13	182	34
OTHER FUEL	4 515	340	1 193	937	590	299	159	129	39	25	7	797	23
NONE	21	1	2	4	1	2	2	-	-	-	-	11	...
COOKING FUEL													
ELECTRICITY	2 544	108	561	510	410	264	163	138	38	32	16	304	28
OTHER FUEL	3 428	277	870	684	455	219	110	107	30	12	4	660	23
NONE	37	5	1	-	-	-	-	-	-	-	-	31	...

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	625	10	61	72	141	88	64	63	20	12	6	88	38
ALL OTHER FUEL COMBINATIONS	2 183	115	544	485	306	204	115	96	21	20	10	267	26
NONE	3 201	264	827	637	417	192	95	87	27	11	4	641	23
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 135	115	658	703	535	300	169	150	44	31	13	417	28
HEAT PUMP	28	2	6	3	3	4	1	2	2	2	-	3	***
STEAM OR HOT WATER	1 631	190	518	273	138	70	22	33	2	3	4	378	18
BUILT-IN ELECTRIC UNITS	511	15	78	69	94	60	44	39	14	5	3	91	35
FLOOR, WALL, OR PIPELESS FURNACE	183	18	51	37	20	18	12	7	1	1	-	19	23
ROOM HEATERS WITH FLUE	411	42	101	77	58	24	15	10	5	1	-	77	23
ROOM HEATERS WITHOUT FLUE	42	4	10	13	5	3	2	-	-	-	-	4	23
FIREPLACES, STOVES, OR PORTABLE HEATERS	55	2	6	19	8	5	6	4	-	1	-	5	28
NONE	14	2	5	-	3	-	2	-	-	-	-	2	***
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	5 996	388	1 427	1 194	862	484	272	245	68	44	20	993	25
WITH FIREPLACE OR HEATING STOVE	701	38	117	149	119	80	44	48	16	12	5	73	31
IN WORKING ORDER	520	27	85	107	88	57	35	36	14	12	4	56	31
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	271	11	35	55	44	35	18	27	7	8	3	27	34
ALL PURCHASED	84	6	9	17	18	11	6	9	1	2	1	5	34
SOME OR NONE PURCHASED	174	4	25	34	25	24	13	17	6	8	1	21	35
NOT REPORTED	14	2	2	3	2	-	-	1	1	2	-	2	***
COAL	7	-	2	2	-	1	1	2	-	-	-	-	***
OTHER FUEL	165	12	32	37	27	17	7	4	5	2	1	22	27
NONE	72	3	13	12	17	4	9	3	1	1	-	7	32
NOT REPORTED	5	-	2	2	-	-	1	-	-	1	-	-	***
NOT IN WORKING ORDER	173	11	29	41	31	21	8	12	2	-	2	17	29
NOT REPORTED	7	-	3	2	-	2	-	-	1	-	-	-	***
WITHOUT FIREPLACE OR HEATING STOVE	5 276	350	1 309	1 039	742	404	225	197	51	31	15	913	25
NOT REPORTED	19	-	2	6	1	-	3	-	-	-	-	7	***
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	2	5	-	3	-	2	-	-	-	-	2	***
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	69	4	11	19	12	5	8	4	-	1	-	7	28
WITH SELECTED HEATING EQUIPMENT[3]	5 941	385	1 421	1 175	854	479	266	241	68	43	20	988	25
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 688	371	1 352	1 122	831	451	251	228	68	41	20	954	25
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	236	14	62	53	20	26	13	13	-	2	1	31	24
SOLAR HEATING EQUIPMENT	1	-	-	-	-	1	-	-	-	-	-	-	***
STOVE, BURNING WOOD OR COAL	23	-	3	2	6	4	1	2	-	1	1	2	***
FIREPLACE, BURNING WOOD OR COAL	4	-	4	-	-	-	-	-	-	-	-	-	***
PORTABLE ELECTRIC HEATER	158	9	51	38	11	17	6	7	-	-	-	18	22
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	2	8	1	1	5	-	-	1	-	2	***
OTHER	33	5	4	4	3	3	2	4	-	-	-	9	***
NOT REPORTED	17	-	7	-	3	2	2	-	-	-	-	3	***
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 851	380	1 399	1 154	849	476	262	244	64	42	20	962	25
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	23	-	6	5	4	2	1	-	1	-	-	4	***
NOT REPORTED	45	5	5	13	4	-	8	-	3	-	-	6	26
AIR CONDITIONING													
WITH AIR CONDITIONING	3 180	150	736	645	531	320	186	169	50	32	16	345	27
ROOM UNITS	2 163	136	589	454	342	183	100	75	22	9	9	244	25
1	1 808	124	501	388	270	151	69	57	11	3	5	229	24
2	304	9	77	57	65	26	26	14	9	4	4	12	30
3	36	1	8	3	6	5	4	4	2	-	-	2	***
4	12	2	3	3	-	2	1	-	-	2	-	-	***
5 OR MORE	2	-	-	2	-	-	-	-	-	-	-	-	***
CENTRAL SYSTEM	1 018	14	147	192	189	136	86	94	29	23	7	101	35
WITH NO AIR CONDITIONING	2 830	239	696	549	334	164	87	76	17	12	5	651	23
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 018	14	147	192	189	136	86	94	29	23	7	101	35
WITH SUPPLEMENTAL EQUIPMENT USED	311	3	32	58	66	46	28	24	9	9	3	32	36
INDIVIDUAL ROOM AIR CONDITIONING UNIT	11	-	3	-	1	1	-	1	-	-	-	6	***
AWNINGS	25	-	3	3	6	2	2	4	-	-	-	5	***
DEHUMIDIFIER	33	2	-	3	7	3	2	4	-	1	-	11	***
CEILING FAN	17	-	-	9	6	-	-	-	2	-	-	1	***
ATTIC FAN	17	-	2	2	5	-	5	1	-	-	-	3	***
WINDOW FAN	50	-	5	13	7	12	2	3	-	4	-	4	37
PORTABLE FAN	209	1	21	38	48	34	19	14	9	4	3	18	37
WITH NO SUPPLEMENTAL EQUIPMENT USED	678	9	107	129	120	87	55	67	20	13	3	67	34
NOT REPORTED	29	2	8	5	3	4	2	3	-	1	1	1	***
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	4 992	375	1 286	1 002	676	347	188	151	39	21	13	894	23

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUN BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	2 309	242	733	399	230	67	46	39	13	5	8	528	18
2 PERSONS	1 795	99	440	389	277	173	79	79	12	6	1	241	26
3 PERSONS	909	18	163	211	153	98	59	57	19	7	5	118	30
4 PERSONS	573	22	56	124	106	91	53	36	14	13	5	53	35
5 PERSONS	231	1	27	38	58	28	12	18	7	8	1	34	35
6 PERSONS	115	4	6	16	25	21	16	10	-	3	1	12	39
7 PERSONS OR MORE	78	3	6	18	15	7	8	5	3	1	-	10	34
MEDIAN	1.9	1.5-	1.5-	2.0	2.2	2.5	2.7	2.6	3.0	3.8	...	1.5-	...
SPECIFIED RENTER OCCUPIED[2]	6 010	389	1 432	1 194	865	484	274	245	68	44	20	995	25
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 852	49	281	418	375	234	142	113	42	25	14	158	32
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 147	22	159	259	252	154	87	70	22	16	8	99	33
SOME WINDOWS COVERED	328	12	56	80	56	41	25	23	6	4	2	23	31
NO WINDOWS COVERED	284	10	47	66	54	38	24	14	11	3	3	18	32
NOT REPORTED	92	5	19	13	14	6	6	6	3	1	1	17	29
STORM DOORS													
ALL DOORS COVERED	1 040	21	142	248	218	145	83	63	21	11	5	83	33
SOME DOORS COVERED	292	8	55	64	72	26	20	25	6	4	2	10	32
NO DOORS COVERED	427	15	66	94	71	57	32	19	12	8	6	48	32
NOT REPORTED	92	5	19	12	14	6	6	6	3	1	1	17	30
ATTIC OR ROOF INSULATION													
YES	1 035	27	112	224	233	145	96	63	22	15	9	87	34
NO	303	8	53	87	44	46	11	19	8	5	-	22	28
DON'T KNOW	420	8	97	93	84	37	28	25	9	3	3	32	29
NOT REPORTED	94	5	19	14	14	6	7	6	3	1	1	17	29

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	11 653	247	211	273	498	658	2 019	2 127	2 867	876	296	1 581	45
HOUSE HEATING FUEL													
GAS	9 476	96	139	208	445	635	1 943	2 089	2 797	846	278	-	45
UTILITY GAS	8 986	89	126	198	428	607	1 870	2 040	2 638	759	229	-	45
BOTTLED, TANK, OR LP GAS	490	6	13	10	17	28	72	50	158	87	48	-	56
OTHER THAN GAS	2 176	151	73	65	52	22	77	37	71	30	18	1 581	21
FUEL OIL	1 198	120	50	47	39	16	53	22	41	19	12	779	18
KEROSENE, ETC	6	2	-	-	-	-	1	-	1	-	-	2	...
ELECTRICITY	880	22	13	7	8	4	17	16	23	10	5	754	34
COAL OR COKE	16	1	5	-	-	1	-	-	2	-	-	7	...
WOOD	72	6	4	10	4	2	5	-	2	1	-	37	...
SOLAR HEAT	1	1	-	-	-	-	-	-	-	-	-	-	...
OTHER FUEL	4	-	-	-	-	-	-	-	1	-	2	1	...
NONE	1	-	-	-	1	-	-	-	-	-	-	-	...
WATER HEATING FUEL[3]													
GAS	8 708	119	159	217	414	567	1 778	1 872	2 564	759	259	-	45
UTILITY GAS	8 318	109	144	197	391	539	1 722	1 843	2 461	693	219	-	45
BOTTLED, TANK, OR LP GAS	390	10	15	20	24	28	56	30	102	65	41	-	52
OTHER FUEL	2 841	116	50	48	74	86	231	240	293	116	35	1 552	41
NONE	7	-	1	-	-	2	1	1	2	-	-	1	...
COOKING FUEL													
GAS	5 269	149	114	141	281	337	1 019	1 082	1 494	469	182	-	45
UTILITY GAS	4 826	87	88	111	249	306	966	1 053	1 405	414	148	-	45
BOTTLED, TANK, OR LP GAS	443	62	26	30	32	32	54	29	89	55	34	-	37
OTHER FUEL	6 380	98	97	132	217	320	1 000	1 045	1 372	406	112	1 581	45
NONE	4	-	-	-	-	1	-	-	2	-	2	-	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	4 604	33	62	93	215	293	932	1 008	1 380	419	167	-	46
ALL OTHER FUEL COMBINATIONS	5 376	189	144	176	273	363	1 069	1 111	1 478	450	123	-	44
NONE	1 673	25	6	4	9	2	18	7	9	7	6	1 581	31
HEATING EQUIPMENT													
WARM-AIR FURNACE	9 376	166	145	195	390	561	1 786	1 905	2 473	710	225	820	45
HEAT PUMP	169	3	-	-	2	-	-	1	-	-	-	163	...
STEAM OR HOT WATER	882	21	11	9	25	29	88	142	277	129	55	96	55
BUILT-IN ELECTRIC UNITS	431	14	11	7	4	1	7	3	3	2	-	380	15
FLOOR, WALL, OR PIPELESS FURNACE	255	4	17	20	36	32	50	31	32	13	9	11	33
ROOM HEATERS WITH FLUE	364	24	16	25	33	28	70	38	74	17	6	33	35
ROOM HEATERS WITHOUT FLUE	17	2	2	3	1	-	2	1	2	1	-	5	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	158	13	10	16	6	7	16	6	7	4	2	73	22
NONE	1	-	-	-	1	-	-	-	-	-	-	-	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	11 652	247	211	273	497	658	2 019	2 127	2 867	876	296	1 581	45
WITH FIREPLACE OR HEATING STOVE	4 972	112	90	104	149	203	670	773	1 325	431	174	941	48
IN WORKING ORDER	4 723	105	86	100	147	195	632	726	1 246	410	157	919	48
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	3 796	77	70	79	108	156	503	551	995	305	120	833	48
ALL PURCHASED	1 202	25	22	15	29	43	145	201	338	134	46	203	51
SOME OR NONE PURCHASED	2 544	49	48	61	76	110	353	343	638	167	74	626	47
NOT REPORTED	50	2	-	3	2	2	5	7	19	4	1	4	51
COAL	16	-	2	-	1	-	-	2	3	2	2	3	...
OTHER FUEL	489	19	14	16	24	24	81	80	123	54	17	38	45
NONE	408	10	-	6	12	16	48	90	120	46	18	41	50
NOT REPORTED	13	-	-	-	2	-	-	2	4	2	-	4	...
NOT IN WORKING ORDER	240	6	3	3	2	8	38	44	76	21	17	21	51
NOT REPORTED	9	-	-	-	1	-	-	3	3	-	-	2	...
WITHOUT FIREPLACE OR HEATING STOVE	6 653	135	122	169	348	452	1 339	1 345	1 539	442	122	639	43
NOT REPORTED	27	-	-	-	-	2	10	8	3	3	-	1	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	-	1	-	-	-	-	-	-	-	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	159	13	10	16	7	7	16	6	7	4	2	73	22
WITH SELECTED HEATING EQUIPMENT[4]	11 493	234	202	257	490	651	2 003	2 121	2 861	872	295	1 508	45
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 656	206	181	233	466	604	1 877	2 000	2 692	808	277	1 312	45
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	805	27	20	24	21	44	116	113	165	64	17	194	44
SOLAR HEATING EQUIPMENT	15	1	-	-	4	2	2	4	-	-	-	3	...
STOVE, BURNING WOOD OR COAL	289	17	9	10	8	15	33	28	43	16	9	102	41
FIREPLACE, BURNING WOOD OR COAL	123	2	3	3	1	3	15	20	35	13	2	28	51
PORTABLE ELECTRIC HEATER	262	6	4	8	5	21	53	48	56	23	6	33	43
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	51	2	3	1	-	-	7	2	17	2	1	17	...
OTHER	91	2	-	4	7	3	12	12	23	12	-	17	47
NOT REPORTED	32	-	-	-	3	4	10	8	4	-	1	2	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 438	234	206	264	487	650	1 977	2 086	2 836	864	294	1 540	45
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	36	-	-	1	1	-	11	8	5	3	-	6	...
NOT REPORTED	73	-	3	-	1	3	20	18	15	7	-	5	43

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	7 515	125	126	164	339	485	1 369	1 375	1 879	574	184	894	45
ROOM UNITS	3 682	76	80	99	198	253	725	667	859	279	74	371	43
1	2 483	50	57	79	134	169	509	438	566	164	51	265	42
2	940	23	19	14	50	69	167	184	228	84	11	90	44
3	207	3	4	6	12	11	41	38	48	23	9	12	45
4	34	-	-	-	-	3	9	3	10	5	2	2	...
5 OR MORE	18	-	-	-	2	1	-	3	7	3	-	2	...
CENTRAL SYSTEM	3 833	49	46	65	141	232	644	708	1 020	295	110	523	46
WITH NO AIR CONDITIONING	4 138	122	85	109	158	172	650	752	988	302	112	687	45
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 833	49	46	65	141	232	644	708	1 020	295	110	523	46
WITH SUPPLEMENTAL EQUIPMENT USED	2 235	32	32	37	93	142	377	427	638	150	62	245	46
INDIVIDUAL ROOM AIR CONDITIONING UNIT	101	2	6	2	7	5	14	17	29	12	7	2	48
AWNINGS	411	6	5	11	17	27	93	76	121	22	7	27	44
DEHUMIDIFIER	847	17	6	7	26	45	143	181	250	57	19	97	47
CEILING FAN	119	3	1	2	4	11	12	24	31	12	5	14	47
ATTIC FAN	622	3	2	8	29	37	97	146	176	45	14	63	46
WINDOW FAN	212	2	3	6	13	14	51	33	49	10	5	27	41
PORTABLE FAN	900	15	15	24	37	62	177	174	233	55	21	87	44
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 528	17	13	26	44	85	261	271	357	138	47	269	46
NOT REPORTED	70	-	1	2	3	4	6	10	26	7	1	9	53
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 820	198	165	208	357	426	1 376	1 419	1 847	581	186	1 058	44
PERSONS													
1 PERSON	1 530	61	36	65	113	146	334	245	263	64	27	177	37
2 PERSONS	3 630	76	88	97	187	254	751	667	757	192	62	500	42
3 PERSONS	2 064	29	31	44	76	92	351	421	515	169	53	282	46
4 PERSONS	2 496	42	32	44	75	110	368	439	732	225	73	356	48
5 PERSONS	1 173	20	10	12	27	46	148	237	368	118	35	154	51
6 PERSONS	460	11	7	6	12	7	44	89	138	54	18	74	52
7 PERSONS OR MORE	300	7	7	5	8	2	23	29	96	54	29	39	60
MEDIAN	2.8	2.3	2.3	2.2	2.2	2.2	2.4	2.9	3.3	3.5	3.6	2.9	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	10 158	208	183	227	411	581	1 757	1 866	2 518	742	238	1 427	45
SOME WINDOWS COVERED	1 053	25	13	31	57	47	187	191	268	99	34	101	45
NO WINDOWS COVERED	413	14	15	14	29	28	72	62	74	28	24	52	41
NOT REPORTED	29	-	-	1	1	2	2	8	7	7	-	1	...
STORM DOORS													
ALL DOORS COVERED	9 687	194	179	224	397	570	1 726	1 821	2 439	679	224	1 234	45
SOME DOORS COVERED	1 177	36	16	34	57	58	199	199	281	103	39	156	45
NO DOORS COVERED	755	17	16	13	43	26	91	98	141	87	33	189	47
NOT REPORTED	34	1	-	2	1	3	3	8	7	7	-	2	...
ATTIC OR ROOF INSULATION													
YES	10 645	215	192	243	459	612	1 871	1 953	2 588	761	244	1 507	45
NO	689	21	15	17	29	35	108	120	177	74	38	55	47
DON'T KNOW	269	10	5	10	6	7	37	44	91	34	11	14	52
NOT REPORTED	50	2	-	2	3	3	4	10	11	7	3	4	47
SPECIFIED RENTER OCCUPIED[3]	6 010	475	290	239	239	239	482	365	475	187	106	2 911	31
HOUSE HEATING FUEL													
GAS	4 571	370	234	214	210	222	464	352	455	175	98	1 776	33
UTILITY GAS	4 379	361	227	207	203	213	436	330	415	161	78	1 748	32
BOTTLED, TANK, OR LP GAS	192	9	7	7	8	9	28	21	40	14	20	28	46
OTHER THAN GAS	1 425	104	53	25	29	18	17	14	20	8	8	1 130	13
FUEL OIL	580	82	30	11	17	11	10	5	6	4	4	399	11
KEROSENE, ETC	2	-	-	-	-	-	-	-	-	-	2	-	...
ELECTRICITY	782	16	13	14	9	6	7	7	12	5	1	694	21
COAL OR COKE	13	-	2	-	2	-	-	-	2	-	-	8	...
WOOD	22	4	3	1	2	1	-	2	-	-	1	10	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	2	5	-	-	-	-	-	-	-	-	20	...
NONE	14	2	3	-	-	-	1	-	-	3	-	5	...
WATER HEATING FUEL[4]													
GAS	4 450	414	255	210	204	206	406	326	419	164	90	1 757	31
UTILITY GAS	4 293	404	246	202	194	197	387	310	395	155	73	1 730	31
BOTTLED, TANK, OR LP GAS	156	10	9	8	11	8	18	16	24	8	16	27	39
OTHER FUEL	1 475	55	32	27	26	26	67	31	53	18	15	1 125	31
NONE	21	-	-	-	2	2	1	3	-	-	-	13	...
COOKING FUEL													
GAS	3 411	391	198	155	157	154	322	231	335	143	75	1 251	31
UTILITY GAS	3 188	356	183	145	135	145	296	210	307	131	60	1 220	31
BOTTLED, TANK, OR LP GAS	223	35	15	10	21	9	26	20	29	12	16	30	32
OTHER FUEL	2 561	83	92	84	82	86	160	133	139	44	31	1 626	32
NONE	37	1	-	-	-	-	-	1	-	-	-	34	...

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE C-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 873	288	151	128	122	135	285	204	306	126	68	1 060	33
ALL OTHER FUEL COMBINATIONS	2 198	184	135	108	114	102	194	157	165	60	35	945	28
NONE	939	4	4	3	4	2	3	4	4	1	3	906	...
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 135	161	147	160	166	165	347	265	337	143	78	1 166	35
HEAT PUMP	28	-	-	-	1	1	-	-	3	1	-	21	...
STEAM OR HOT WATER	1 631	253	83	32	21	14	36	35	52	17	14	1 075	11
BUILT-IN ELECTRIC UNITS	511	7	9	6	4	2	-	6	5	2	-	470	18
FLOOR, WALL, OR PIPELESS FURNACE	183	18	20	16	9	16	18	17	23	1	5	40	27
ROOM HEATERS WITH FLUE	411	24	25	22	33	35	72	34	43	19	7	98	32
ROOM HEATERS WITHOUT FLUE	42	4	-	1	2	5	6	6	9	-	-	9	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	55	6	3	2	3	1	3	4	3	1	2	27	...
NONE	14	2	3	-	-	-	1	-	-	3	-	5	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	5 996	474	287	239	239	239	481	365	475	183	106	2 907	31
WITH FIREPLACE OR HEATING STOVE	701	54	40	36	31	30	70	66	97	48	18	209	37
IN WORKING ORDER	520	38	32	29	28	23	55	50	61	25	15	165	35
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	271	16	16	15	21	7	21	24	40	11	3	98	35
ALL PURCHASED	84	1	5	5	9	4	11	6	12	3	-	27	33
SOME OR NONE PURCHASED	174	14	9	9	10	3	10	18	27	8	3	63	40
NOT REPORTED	14	2	2	-	2	-	-	-	1	-	-	8	...
COAL	7	1	-	-	2	-	-	-	1	-	-	4	...
OTHER FUEL	165	17	12	9	5	12	26	15	12	8	9	41	33
NONE	72	3	4	5	1	5	6	11	8	6	3	20	41
NOT REPORTED	5	-	1	-	-	-	2	-	-	1	-	2	...
NOT IN WORKING ORDER	173	16	7	6	3	7	14	16	37	23	3	41	47
NOT REPORTED	7	-	2	1	-	-	2	-	-	-	-	3	...
WITHOUT FIREPLACE OR HEATING STOVE	5 276	418	247	203	207	208	411	300	378	135	86	2 685	30
NOT REPORTED	19	2	-	-	2	2	-	-	-	-	2	13	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	2	3	-	-	-	1	-	-	3	-	5	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	69	8	6	2	3	1	4	4	3	4	2	31	23
WITH SELECTED HEATING EQUIPMENT[3]	5 941	468	284	237	236	239	478	362	472	183	103	2 880	31
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 688	436	272	231	225	228	453	353	448	163	91	2 789	31
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	236	26	12	5	9	10	26	9	23	18	11	86	34
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	1	-
STOVE, BURNING WOOD OR COAL	23	1	1	-	2	2	3	2	2	2	1	7	...
FIREPLACE, BURNING WOOD OR COAL	4	-	-	-	1	-	2	-	-	-	-	2	...
PORTABLE ELECTRIC HEATER	158	24	9	4	5	1	21	6	17	13	7	52	34
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	2	1	-	3	-	2	3	2	-	6	...
OTHER	33	2	-	-	2	3	-	2	2	2	3	20	...
NOT REPORTED	17	5	-	1	2	2	-	-	-	2	2	5	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 851	465	280	237	230	231	469	352	467	179	103	2 839	31
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	23	-	1	-	-	-	-	3	2	3	1	13	...
NOT REPORTED	45	3	6	-	-	-	3	2	3	-	2	25	...
AIR CONDITIONING													
WITH AIR CONDITIONING	3 180	221	136	150	122	118	234	168	193	58	43	1 737	28
ROOM UNITS	2 163	177	87	84	69	75	176	114	134	42	31	1 173	30
1	1 808	148	77	73	62	60	134	91	103	32	23	1 005	28
2	304	24	5	9	7	15	33	18	30	8	6	150	35
3	36	-	4	1	1	-	7	6	-	2	2	15	...
4	12	5	2	-	-	-	-	-	2	-	-	4	...
5 OR MORE	2	-	-	-	-	-	2	-	-	-	-	-	...
CENTRAL SYSTEM	1 018	44	48	66	52	42	59	54	59	16	12	564	26
WITH NO AIR CONDITIONING	2 830	254	155	89	117	122	248	197	282	129	63	1 174	33
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 018	44	48	66	52	42	59	54	59	16	12	564	26
WITH SUPPLEMENTAL EQUIPMENT USED	311	12	14	18	22	13	27	22	27	12	2	142	32
INDIVIDUAL ROOM AIR CONDITIONING UNIT	11	-	-	-	-	-	-	-	-	-	-	11	-
AWNINGS	25	-	-	-	3	3	3	-	1	3	-	11	...
DEHUMIDIFIER	33	-	-	-	2	1	5	1	10	2	-	12	...
CEILING FAN	17	-	-	-	2	1	-	4	4	2	-	4	...
ATTIC FAN	17	-	-	1	2	-	2	3	3	2	-	5	...
WINDOW FAN	50	2	5	5	1	1	3	1	3	4	1	24	...
PORTABLE FAN	209	11	8	13	15	10	22	14	15	3	1	97	28
WITH NO SUPPLEMENTAL EQUIPMENT USED	678	31	33	43	29	29	31	31	30	5	9	407	24
NOT REPORTED	29	1	2	5	2	-	-	1	1	-	2	15	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	4 992	431	242	173	187	197	424	311	416	170	94	2 347	32

[1] RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	2 309	238	89	104	78	88	134	80	85	30	14	1 369	22
2 PERSONS	1 795	137	108	56	76	75	163	116	134	46	20	863	31
3 PERSONS	909	53	42	31	38	32	94	79	105	40	27	368	37
4 PERSONS	573	28	36	30	27	26	57	53	82	39	19	175	38
5 PERSONS	231	11	6	9	12	8	23	21	35	16	14	76	44
6 PERSONS	115	4	8	4	5	8	11	11	23	7	3	30	42
7 PERSONS OR MORE	78	4	1	5	4	2	1	6	10	8	8	29	53
MEDIAN	1.9	1.5-	2.0	1.8	2.0	1.9	2.1	2.4	2.7	2.9	3.2	1.6	...
SPECIFIED RENTER OCCUPIED[2]	6 010	475	290	239	239	239	482	365	475	187	106	2 911	31
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 852	73	82	91	119	112	253	210	286	123	78	424	38
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 147	40	40	59	71	69	171	129	182	60	53	274	38
SOME WINDOWS COVERED	328	12	19	10	18	18	42	49	55	30	13	62	43
NO WINDOWS COVERED	284	17	21	20	28	17	27	27	40	23	11	52	34
NOT REPORTED	92	4	1	2	3	7	14	6	8	10	2	37	37
STORM DOORS													
ALL DOORS COVERED	1 040	35	37	49	62	66	147	125	166	71	42	240	40
SOME DOORS COVERED	292	15	15	18	17	12	53	38	49	21	19	36	39
NO DOORS COVERED	427	20	29	22	38	26	40	41	64	21	15	111	35
NOT REPORTED	92	4	1	2	3	7	14	6	8	10	2	36	37
ATTIC OR ROOF INSULATION													
YES	1 035	40	33	40	68	66	146	118	169	63	44	248	39
NO	303	15	20	14	23	16	27	38	48	28	17	58	42
DON'T KNOW	420	14	27	35	26	22	66	47	61	23	16	83	36
NOT REPORTED	94	4	1	2	3	7	14	8	8	10	2	36	38

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	11 653	481	235	116	129	115	164	173	129	442	9 669	427
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	1 291	61	50	43	88	104	138	157	107	378	165	650
FUEL OIL	1 198	57	42	32	76	98	133	155	107	376	121	664
COAL OR COKE	16	2	1	1	6	1	3	-	-	-	3	...
KEROSENE, ETC	6	-	-	1	1	-	1	-	-	-	3	...
WOOD	72	2	8	9	5	5	2	2	-	2	38	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	10 361	419	184	73	41	12	27	16	21	63	9 504	105
UTILITY GAS	8 986	341	145	55	28	8	15	12	16	49	8 318	100-
BOTTLED, TANK, OR LP GAS	490	18	7	5	6	1	6	1	2	6	437	228
ELECTRICITY	880	60	32	13	7	2	6	3	3	7	746	121
SOLAR HEAT	1	-	-	-	-	-	-	-	-	-	1	-
OTHER FUEL	4	-	1	-	-	-	-	-	-	-	3	...
NONE	1	-	-	-	-	-	-	-	-	1	-	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	9 376	389	170	70	93	88	135	137	107	333	7 855	444
HEAT PUMP	169	17	7	4	2	-	-	2	-	2	135	...
STEAM OR HOT WATER	882	28	17	10	8	8	6	17	14	66	707	656
BUILT-IN ELECTRIC UNITS	431	20	15	8	2	1	4	1	-	2	379	141
FLOOR, WALL, OR PIPELESS FURNACE	255	7	3	4	1	2	2	1	3	5	227	...
ROOM HEATERS WITH FLUE	364	10	5	7	7	7	14	13	5	25	270	571
ROOM HEATERS WITHOUT FLUE	17	1	1	-	3	-	1	-	-	4	8	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	158	10	18	13	11	8	2	3	-	6	87	258
NONE	1	-	-	-	-	-	-	-	-	1	-	...
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	11 652	481	235	116	129	115	164	173	129	441	9 669	427
WITH FIREPLACE OR HEATING STOVE	4 972	436	206	98	83	52	82	84	54	213	3 664	212
IN WORKING ORDER	4 723	430	203	95	81	51	82	82	49	208	3 442	207
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	3 796	415	193	88	71	45	73	63	41	179	2 630	187
ALL PURCHASED	1 202	288	130	38	24	18	15	13	8	48	620	103
SOME OR NONE PURCHASED	2 544	120	63	48	47	26	56	48	32	131	1 973	431
NOT REPORTED	50	8	-	1	-	2	2	2	-	-	37	...
COAL	16	4	2	3	1	2	-	-	2	1	2	...
OTHER FUEL	489	5	4	1	7	4	5	12	3	17	431	624
NONE	408	6	5	2	2	-	4	8	4	10	367	613
NOT REPORTED	13	1	-	1	-	-	-	-	-	1	11	...
NOT IN WORKING ORDER	240	1	3	2	2	1	1	2	5	6	218	...
NOT REPORTED	9	5	-	-	-	-	-	-	-	-	4	...
WITHOUT FIREPLACE OR HEATING STOVE	6 653	44	27	18	46	63	82	89	75	228	5 980	662
NOT REPORTED	27	-	2	-	-	-	-	-	-	-	25	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	1	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 438	476	222	112	123	111	159	168	126	430	9 509	427
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	36	-	1	-	-	-	-	-	-	-	35	...
NOT REPORTED	73	-	2	1	-	-	-	-	2	2	66	...
AIR CONDITIONING												
WITH AIR CONDITIONING	7 515	326	148	67	66	54	69	71	61	196	6 457	281
ROOM UNITS	3 682	107	52	30	32	39	45	44	44	121	3 169	489
1	2 483	63	33	25	22	32	39	30	27	88	2 124	513
2	940	27	12	4	7	6	4	12	10	31	826	514
3	207	13	3	2	2	2	1	2	6	2	176	...
4	34	2	2	-	2	-	-	-	-	-	29	...
5 OR MORE	18	2	2	-	-	-	1	-	-	-	14	...
CENTRAL SYSTEM	3 833	219	97	36	33	15	24	28	17	75	3 288	154
WITH NO AIR CONDITIONING	4 138	155	87	49	63	61	96	102	68	246	3 212	550
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 833	219	97	36	33	15	24	28	17	75	3 288	154
WITH SUPPLEMENTAL EQUIPMENT USED	2 235	132	51	24	20	10	8	10	7	52	1 921	148
INDIVIDUAL ROOM AIR CONDITIONING UNIT	101	5	3	1	-	-	-	-	1	1	90	...
AWNINGS	411	17	8	-	6	3	1	3	2	15	356	337
DEHUMIDIFIER	847	44	18	16	7	1	4	5	2	33	718	215
CEILING FAN	119	7	6	3	2	-	1	-	3	1	97	...
ATTIC FAN	622	48	21	8	5	4	3	3	1	12	516	123
WINDOW FAN	212	17	4	-	8	-	1	-	-	2	181	...
PORTABLE FAN	900	52	24	7	6	6	4	4	2	21	775	144
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 528	85	44	10	13	5	16	18	10	21	1 305	158
NOT REPORTED	70	2	2	2	-	-	-	-	-	2	62	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 820	262	138	79	96	100	140	146	111	367	6 381	532
PERSONS												
1 PERSON	1 530	44	21	9	19	19	20	26	34	64	1 275	580
2 PERSONS	3 630	116	63	39	49	39	61	61	39	139	3 025	491
3 PERSONS	2 064	108	43	18	25	16	26	28	25	76	1 698	356
4 PERSONS	2 496	119	61	28	20	23	28	26	14	92	2 084	288
5 PERSONS	1 173	58	28	17	9	11	21	17	8	36	968	296
6 PERSONS	460	22	7	-	5	5	5	9	4	22	381	507
7 PERSONS OR MORE	300	14	11	5	2	3	3	7	6	12	238	368
MEDIAN	2.8	3.2	3.3	3.1	2.4	2.5	2.5	2.5	2.3	2.7	2.8	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	10 158	419	205	104	103	101	146	145	115	384	8 436	429
SOME WINDOWS COVERED	1 053	35	16	9	20	12	11	23	8	44	875	474
NO WINDOWS COVERED	413	26	14	2	6	2	8	6	6	14	329	270
NOT REPORTED	29	-	-	-	-	-	-	-	-	-	29	-
STORM DOORS												
ALL DOORS COVERED	9 687	360	177	90	105	98	144	157	110	367	8 078	473
SOME DOORS COVERED	1 177	68	33	10	14	7	11	8	11	44	971	220
NO DOORS COVERED	755	52	25	15	10	10	10	7	7	31	588	243
NOT REPORTED	34	1	-	-	-	-	-	1	-	-	32	...
ATTIC OR ROOF INSULATION												
YES	10 645	460	219	105	118	106	155	156	116	408	8 803	418
NO	689	11	9	9	11	6	8	11	12	27	584	575
DON'T KNOW	269	7	5	2	1	2	2	4	1	6	240	...
NOT REPORTED	50	2	2	-	-	-	-	2	-	2	42	...
SPECIFIED RENTER OCCUPIED[3]	6 010	60	25	19	23	33	26	25	19	88	5 692	496
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	617	21	19	15	17	31	20	19	16	72	387	563
FUEL OIL	580	17	16	13	15	28	18	19	16	71	366	597
COAL OR COKE	13	1	1	-	2	2	1	-	-	-	7	...
KEROSENE, ETC	2	-	-	-	-	-	-	-	-	-	2	-
WOOD	22	3	2	2	1	1	1	-	-	1	12	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	5 379	39	6	4	6	2	6	6	2	16	5 291	186
UTILITY GAS	4 379	31	1	2	5	1	4	6	1	10	4 318	100-
BOTTLED, TANK, OR LP GAS	192	4	3	2	-	-	-	-	2	5	177	...
ELECTRICITY	782	4	2	1	1	-	2	-	-	1	771	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	-	-	-	-	2	-	-	-	-	25	...
NONE	14	-	-	-	-	-	-	-	-	-	14	-
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 135	40	16	14	16	24	17	19	12	63	2 916	507
HEAT PUMP	28	-	-	1	-	-	1	-	-	-	26	...
STEAM OR HOT WATER	1 631	3	-	-	3	2	-	-	2	8	1 613	...
BUILT-IN ELECTRIC UNITS	511	2	-	-	-	-	-	-	-	-	509	...
FLOOR, WALL, OR PIPELESS FURNACE	183	4	-	-	-	-	2	1	-	1	176	...
ROOM HEATERS WITH FLUE	411	6	5	1	2	5	5	4	4	11	368	549
ROOM HEATERS WITHOUT FLUE	42	-	-	1	-	-	1	1	-	1	39	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	55	5	5	2	3	3	1	-	1	5	32	...
NONE	14	-	-	-	-	-	-	-	-	-	14	-
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	5 996	60	25	19	23	33	26	25	19	88	5 678	496
WITH FIREPLACE OR HEATING STOVE	701	37	11	8	12	7	8	7	10	28	573	366
IN WORKING ORDER	520	37	11	7	12	7	8	6	10	25	398	357
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	271	30	9	5	10	3	6	5	8	17	178	326
ALL PURCHASED	84	18	5	-	5	1	2	-	1	6	46	114
SOME OR NONE PURCHASED	174	11	5	5	5	2	4	5	7	11	120	482
NOT REPORTED	14	1	-	-	-	-	-	-	-	1	12	...
COAL	7	1	1	-	2	2	1	-	1	1	-	...
OTHER FUEL	165	5	1	1	1	2	-	1	2	4	149	...
NONE	72	2	-	-	-	-	1	-	-	3	66	...
NOT REPORTED	5	-	-	-	-	-	-	-	-	-	5	-
NOT IN WORKING ORDER	173	-	-	2	-	-	-	1	-	3	168	...
NOT REPORTED	7	-	-	-	-	-	-	-	-	-	7	-
WITHOUT FIREPLACE OR HEATING STOVE	5 276	23	14	11	11	26	19	18	8	60	5 086	552
NOT REPORTED	19	-	-	-	-	-	-	-	-	-	19	-
HOUSING UNITS WITH NO HEATING EQUIPMENT	14	-	-	-	-	-	-	-	-	-	14	-
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 851	51	20	17	22	31	23	24	19	85	5 560	522
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	23	2	-	-	-	-	-	-	-	1	19	...
NOT REPORTED	45	-	-	-	-	-	-	-	-	-	45	-

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE C-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	3 180	32	9	3	8	8	9	5	5	41	3 059	503
ROOM UNITS	2 163	21	7	2	8	5	8	4	5	36	2 067	565
1	1 808	20	6	2	5	5	8	3	5	26	1 729	531
2	304	1	1	1	3	-	-	-	1	5	293	...
3	36	-	-	-	-	-	-	1	-	3	32	...
4	12	-	-	-	-	-	-	-	-	1	11	...
5 OR MORE	2	-	-	-	-	-	-	-	-	-	2	-
CENTRAL SYSTEM	1 018	12	2	1	-	3	1	2	-	5	992	...
WITH NO AIR CONDITIONING	2 830	28	16	16	15	24	17	19	13	47	2 633	493
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 018	12	2	1	-	3	1	2	-	5	992	...
WITH SUPPLEMENTAL EQUIPMENT USED	311	4	1	-	-	-	1	2	-	4	299	...
INDIVIDUAL ROOM AIR CONDITIONING UNIT	11	-	-	-	-	-	-	-	-	-	11	-
AWNINGS	25	-	-	-	-	-	-	-	-	-	25	-
DEHUMIDIFIER	33	1	-	-	-	-	-	-	-	1	31	...
CEILING FAN	17	-	-	-	-	-	-	2	-	-	15	...
ATTIC FAN	17	2	-	-	-	-	-	-	-	-	16	...
WINDOW FAN	50	-	-	-	-	-	1	-	-	1	48	...
PORTABLE FAN	209	4	1	-	-	-	1	2	-	2	200	...
WITH NO SUPPLEMENTAL EQUIPMENT USED	678	7	2	1	-	2	-	-	-	1	665	...
NOT REPORTED	29	-	-	-	-	1	-	-	-	1	28	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	4 992	48	23	18	23	30	25	23	19	83	4 700	515
PERSONS												
1 PERSON	2 309	19	8	2	3	9	9	8	6	19	2 226	508
2 PERSONS	1 795	20	6	5	9	14	8	6	3	21	1 702	437
3 PERSONS	909	7	6	5	3	8	3	3	2	21	851	521
4 PERSONS	573	12	2	3	4	2	4	3	4	16	522	550
5 PERSONS	231	1	1	2	2	1	1	4	2	6	211	...
6 PERSONS	115	-	2	1	-	-	-	-	-	3	109	...
7 PERSONS OR MORE	78	1	-	1	1	1	2	1	1	2	70	...
MEDIAN	1.9	2.0	...	...	...	...	...	...	...	2.7	1.9	...
SPECIFIED RENTER OCCUPIED[2]	6 010	60	25	19	23	33	26	25	19	88	5 692	496
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 852	43	21	12	20	28	25	19	17	81	1 585	536
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 147	20	14	8	14	19	13	15	10	59	975	584
SOME WINDOWS COVERED	328	10	2	1	3	5	8	2	5	15	276	550
NO WINDOWS COVERED	284	10	5	3	3	3	3	2	2	7	245	345
NOT REPORTED	92	3	-	-	-	-	1	-	-	-	89	...
STORM DOORS												
ALL DOORS COVERED	1 040	22	8	3	12	18	17	14	13	60	872	623
SOME DOORS COVERED	292	4	6	2	3	4	1	1	2	8	261	...
NO DOORS COVERED	427	15	7	7	5	5	6	5	2	13	364	379
NOT REPORTED	92	3	-	-	-	-	-	-	-	-	89	...
ATTIC OR ROOF INSULATION												
YES	1 035	23	12	7	14	20	13	18	11	52	866	569
NO	303	8	5	3	4	4	8	1	2	19	249	533
DON'T KNOW	420	9	4	2	2	3	4	1	3	11	380	466
NOT REPORTED	94	3	-	-	-	-	-	-	-	-	91	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-11. HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

NORTH CENTRAL REGION	TOTAL	HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE, MOTOR-CYCLE, OR MOPED	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME
HOUSING UNITS WITH EMPLOYED HOUSEHOLDERS[1]	14 147	9 846	2 283	640	238	17	498	27	597
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	10 218	7 366	1 677	290	146	3	233	21	483
LESS THAN 1 MILE	693	420	41	2	28	-	199	4	-
1 TO 4 MILES	2 235	1 801	282	55	67	2	23	4	-
5 TO 9 MILES	1 919	1 507	308	78	22	2	1	1	-
10 TO 19 MILES	2 129	1 597	440	77	15	-	-	-	-
20 TO 29 MILES	824	552	228	36	9	-	-	-	-
30 TO 49 MILES	472	261	182	27	1	-	-	-	-
50 MILES OR MORE	248	174	71	2	1	-	-	-	-
WORKS AT HOME	483	-	-	-	-	-	-	-	483
NO FIXED PLACE OF WORK	1 215	1 052	124	13	3	-	11	12	-
MEDIAN	8.5	8.1	13.3	10.4	3.6	...	1.0-	...	-
RENTER OCCUPIED	3 929	2 480	606	351	92	13	265	6	114
LESS THAN 1 MILE	436	173	17	4	19	3	220	1	-
1 TO 4 MILES	1 105	741	153	126	43	5	35	2	-
5 TO 9 MILES	809	556	117	118	16	-	2	-	-
10 TO 19 MILES	680	475	135	64	6	-	-	-	-
20 TO 29 MILES	222	143	66	8	5	-	-	-	-
30 TO 49 MILES	127	77	40	8	2	-	-	-	-
50 MILES OR MORE	80	57	17	5	1	-	-	-	-
WORKS AT HOME	114	-	-	-	-	-	-	-	114
NO FIXED PLACE OF WORK	355	257	59	19	2	5	9	4	-
MEDIAN	6.2	6.8	9.4	6.5	3.5	...	1.0-	...	-
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	10 218	7 366	1 677	290	146	3	233	21	483
LESS THAN 15 MINUTES	3 212	2 558	371	10	74	2	193	5	-
15 TO 29 MINUTES	3 091	2 378	586	52	52	2	19	2	-
30 TO 44 MINUTES	1 261	831	334	79	12	-	5	1	-
45 TO 59 MINUTES	505	303	145	51	3	-	2	2	-
1 HOUR TO 1 HOUR AND 29 MINUTES	260	111	74	73	-	-	2	-	-
1 HOUR AND 30 MINUTES OR MORE	190	133	42	11	2	-	2	-	-
WORKS AT HOME	483	-	-	-	-	-	-	-	483
NO FIXED PLACE OF WORK	1 215	1 052	124	13	3	-	11	12	-
MEDIAN	20.1	18.8	25.4	44.3	15.0-	...	15.0-	...	-
RENTER OCCUPIED	3 929	2 480	606	351	92	13	265	6	114
LESS THAN 15 MINUTES	1 411	983	170	15	48	7	189	1	-
15 TO 29 MINUTES	1 247	827	215	114	28	2	59	2	-
30 TO 44 MINUTES	448	241	91	100	12	-	5	-	-
45 TO 59 MINUTES	184	86	39	57	1	-	-	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	98	37	22	36	1	-	2	-	-
1 HOUR AND 30 MINUTES OR MORE	71	50	10	9	-	-	2	-	-
WORKS AT HOME	114	-	-	-	-	-	-	-	114
NO FIXED PLACE OF WORK	355	257	59	19	2	5	9	4	-
MEDIAN	18.8	17.3	22.2	35.5	15.0-	...	15.0-	...	-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	26 286	14 884	6 987	7 897	11 402
HOUSE HEATING FUEL					
OWNER OCCUPIED	17 948	9 339	3 662	5 677	8 609
UTILITY GAS	8 404	5 145	2 499	2 646	3 258
BOTTLED, TANK, OR LP GAS	1 788	407	41	366	1 381
FUEL OIL	1 976	1 074	393	680	902
KEROSENE, ETC	169	48	24	24	121
ELECTRICITY	4 989	2 523	675	1 848	2 466
COAL OR COKE	75	16	3	13	58
WOOD	475	76	10	66	398
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	8	2	-	2	5
NONE	66	46	17	30	19
RENTER OCCUPIED	8 338	5 545	3 325	2 219	2 793
UTILITY GAS	3 886	2 662	1 760	903	1 224
BOTTLED, TANK, OR LP GAS	516	129	30	99	387
FUEL OIL	788	549	300	249	239
KEROSENE, ETC	77	24	8	16	53
ELECTRICITY	2 626	2 001	1 147	854	624
COAL OR COKE	47	10	3	6	37
WOOD	244	41	12	30	203
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	5	3	3	-	1
NONE	149	124	63	61	25
WATER HEATING FUEL[1]					
OWNER OCCUPIED	17 462	9 233	3 645	5 588	8 229
UTILITY GAS	7 141	4 805	2 464	2 341	2 336
BOTTLED, TANK, OR LP GAS	1 065	257	19	238	808
FUEL OIL	260	188	47	141	72
KEROSENE, ETC	6	3	-	3	2
ELECTRICITY	8 902	3 945	1 103	2 842	4 957
COAL OR COKE	1	-	-	-	1
WOOD	5	2	2	1	3
SOLAR HEAT	18	13	5	8	4
OTHER FUEL	6	5	2	3	2
NONE	58	14	3	11	44
RENTER OCCUPIED	7 889	5 447	3 307	2 140	2 442
UTILITY GAS	3 631	2 752	1 866	886	878
BOTTLED, TANK, OR LP GAS	278	86	26	60	192
FUEL OIL	200	185	72	113	15
KEROSENE, ETC	5	3	2	1	2
ELECTRICITY	3 713	2 387	1 318	1 069	1 326
COAL OR COKE	-	-	-	-	-
WOOD	1	1	-	1	-
SOLAR HEAT	3	3	3	-	-
OTHER FUEL	12	10	10	-	2
NONE	46	19	8	11	27
COOKING FUEL					
OWNER OCCUPIED	17 948	9 339	3 662	5 677	8 609
UTILITY GAS	4 794	3 039	1 674	1 366	1 755
BOTTLED, TANK, OR LP GAS	1 788	466	74	392	1 322
FUEL OIL	11	7	5	2	5
KEROSENE, ETC	2	1	-	1	1
ELECTRICITY	11 285	5 806	1 904	3 902	5 479
COAL OR COKE	4	1	-	1	3
WOOD	48	9	2	8	39
OTHER FUEL	6	5	2	3	1
NONE	10	6	2	4	4
RENTER OCCUPIED	8 338	5 545	3 325	2 219	2 793
UTILITY GAS	3 402	2 557	1 714	842	846
BOTTLED, TANK, OR LP GAS	595	173	41	132	422
FUEL OIL	16	13	7	6	3
KEROSENE, ETC	8	3	2	1	5
ELECTRICITY	4 246	2 778	1 552	1 226	1 469
COAL OR COKE	1	-	-	-	1
WOOD	35	9	-	9	26
OTHER FUEL	2	1	-	1	1
NONE	32	13	9	3	19

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
MONTHLY COST PAID FOR ELECTRICITY					
SPECIFIED OWNER OCCUPIED[1]	14 268	8 039	3 356	4 683	6 229
ELECTRICITY PAID FOR	14 257	8 034	3 354	4 680	6 224
LESS THAN $10	66	26	9	17	40
$10 TO $19	693	315	193	122	378
$20 TO $29	1 479	784	406	378	695
$30 TO $39	1 835	1 022	496	526	813
$40 TO $49	1 851	1 007	426	581	844
$50 TO $59	1 901	1 011	386	625	890
$60 TO $79	2 989	1 726	683	1 043	1 263
$80 TO $99	1 439	879	303	577	560
$100 TO $149	1 519	929	342	588	590
$150 OR MORE	485	335	110	224	151
MEDIAN	56	58	53	62	53
NO ELECTRICITY USED	10	5	2	3	5
SPECIFIED RENTER OCCUPIED[2]	8 018	5 498	3 322	2 176	2 520
ELECTRICITY PAID FOR	6 530	4 278	2 507	1 771	2 251
LESS THAN $10	209	130	100	30	79
$10 TO $19	931	568	404	164	363
$20 TO $29	1 226	836	522	314	390
$30 TO $39	1 116	689	418	271	427
$40 TO $49	847	535	283	252	312
$50 TO $59	752	503	273	230	250
$60 TO $79	776	542	273	270	234
$80 TO $99	332	229	120	109	102
$100 TO $149	278	199	92	107	80
$150 OR MORE	62	48	24	24	15
MEDIAN	37	38	35	44	36
INCLUDED IN RENT	1 480	1 213	810	403	268
NO ELECTRICITY USED	8	7	5	2	1
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	14 268	8 039	3 356	4 683	6 229
GAS PAID FOR	9 360	5 591	2 684	2 906	3 770
LESS THAN $10	563	321	164	157	242
$10 TO $14	788	481	257	224	307
$15 TO $19	802	489	257	232	313
$20 TO $24	1 176	644	310	334	531
$25 TO $29	1 051	626	296	330	425
$30 TO $39	1 861	1 086	522	564	775
$40 TO $49	1 195	727	347	380	469
$50 TO $69	1 364	837	365	472	527
$70 TO $99	394	268	117	151	126
$100 OR MORE	166	111	49	62	55
MEDIAN	31	32	31	33	31
NO GAS USED	4 908	2 448	672	1 777	2 459
SPECIFIED RENTER OCCUPIED[2]	8 018	5 498	3 322	2 176	2 520
GAS PAID FOR	3 447	2 138	1 364	774	1 309
LESS THAN $10	590	413	265	148	177
$10 TO $14	469	272	171	101	197
$15 TO $19	410	268	165	103	142
$20 TO $24	438	257	169	88	181
$25 TO $29	338	221	140	81	117
$30 TO $39	506	302	188	114	204
$40 TO $49	286	184	125	59	102
$50 TO $69	269	143	93	50	127
$70 TO $99	98	59	39	20	39
$100 OR MORE	42	19	8	11	23
MEDIAN	22	22	22	22	23
INCLUDED IN RENT	2 264	1 716	1 061	655	549
NO GAS USED	2 307	1 644	896	748	663

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	14 268	8 039	3 356	4 683	6 229
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 936	1 609	647	962	1 327
LESS THAN $100	748	437	183	254	311
$100 TO $199	500	241	88	153	259
$200 TO $299	308	141	61	80	167
$300 TO $399	274	132	69	64	141
$400 TO $499	247	124	44	80	122
$500 TO $599	238	134	52	82	103
$600 TO $699	214	128	49	79	86
$700 TO $799	103	62	29	33	40
$800 OR MORE	306	208	71	137	98
MEDIAN	271	289	285	292	256
FUELS NOT USED OR FREE	11 332	6 430	2 709	3 721	4 902
SPECIFIED RENTER OCCUPIED[2]	8 018	5 498	3 322	2 176	2 520
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	796	380	191	189	416
LESS THAN $100	154	78	44	34	76
$100 TO $199	135	67	36	31	68
$200 TO $299	120	40	20	20	80
$300 TO $399	114	42	23	19	72
$400 TO $499	89	48	20	28	41
$500 TO $599	65	35	16	18	30
$600 TO $699	41	29	15	14	12
$700 TO $799	22	13	5	8	9
$800 OR MORE	56	28	10	18	28
MEDIAN	290	311	274	351	280
INCLUDED IN RENT	964	731	413	319	232
FUELS NOT USED OR FREE	6 258	4 387	2 718	1 668	1 871
ALL OCCUPIED HOUSING UNITS	26 286	14 884	6 987	7 897	11 402
HEATING EQUIPMENT					
OWNER OCCUPIED	17 948	9 339	3 662	5 677	8 609
WARM-AIR FURNACE	9 735	5 696	2 132	3 563	4 040
HEAT PUMP	896	591	88	503	305
STEAM OR HOT WATER	512	391	192	199	121
BUILT-IN ELECTRIC UNITS	1 329	533	197	337	796
FLOOR, WALL, OR PIPELESS FURNACE	1 477	731	451	280	746
ROOM HEATERS WITH FLUE	1 136	435	197	238	702
ROOM HEATERS WITHOUT FLUE	1 615	619	310	309	996
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 181	296	79	217	884
NONE	66	46	17	30	19
RENTER OCCUPIED	8 338	5 545	3 325	2 219	2 793
WARM-AIR FURNACE	3 649	2 844	1 618	1 226	805
HEAT PUMP	225	182	45	136	43
STEAM OR HOT WATER	478	430	292	138	49
BUILT-IN ELECTRIC UNITS	642	402	246	156	240
FLOOR, WALL, OR PIPELESS FURNACE	743	434	309	125	309
ROOM HEATERS WITH FLUE	734	332	218	113	402
ROOM HEATERS WITHOUT FLUE	1 171	611	433	178	561
FIREPLACES, STOVES, OR PORTABLE HEATERS	547	186	100	86	360
NONE	149	124	63	61	25
FIREPLACES AND HEATING STOVES					
OWNER OCCUPIED	17 948	9 339	3 662	5 677	8 609
HOUSING UNITS WITH HEATING EQUIPMENT	17 882	9 293	3 645	5 647	8 590
WITH FIREPLACE OR HEATING STOVE	7 700	3 944	1 416	2 528	3 756
IN WORKING ORDER	7 208	3 721	1 287	2 434	3 487
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	5 561	2 844	871	1 973	2 717
ALL PURCHASED	1 660	1 025	368	658	635
SOME OR NONE PURCHASED	3 810	1 772	479	1 294	2 038
NOT REPORTED	91	46	24	22	44
COAL	125	30	17	13	95
OTHER FUEL	704	344	180	164	360
NONE	786	486	215	271	300
NOT REPORTED	31	18	5	12	14
NOT IN WORKING ORDER	466	212	125	87	253
NOT REPORTED	26	11	3	7	15
WITHOUT FIREPLACE OR HEATING STOVE	10 144	5 325	2 215	3 109	4 820
NOT REPORTED	38	24	14	10	14
HOUSING UNITS WITH NO HEATING EQUIPMENT	66	46	17	30	19

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
FIREPLACES AND HEATING STOVES--CONTINUED					
RENTER OCCUPIED	8 338	5 545	3 325	2 219	2 793
HOUSING UNITS WITH HEATING EQUIPMENT	8 189	5 420	3 262	2 158	2 769
WITH FIREPLACE OR HEATING STOVE	1 532	760	417	343	773
IN WORKING ORDER	1 299	634	325	309	665
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	775	334	131	203	441
ALL PURCHASED	277	130	69	61	147
SOME OR NONE PURCHASED	462	179	56	123	283
NOT REPORTED	36	25	6	18	11
COAL	50	15	8	6	35
OTHER FUEL	267	156	116	40	111
NONE	193	120	64	56	73
NOT REPORTED	14	10	5	5	4
NOT IN WORKING ORDER	223	121	87	33	103
NOT REPORTED	10	5	5	-	6
WITHOUT FIREPLACE OR HEATING STOVE	6 636	4 647	2 838	1 808	1 989
NOT REPORTED	21	14	7	7	7
HOUSING UNITS WITH NO HEATING EQUIPMENT	149	124	63	61	25
ALL OCCUPIED HOUSING UNITS	26 286	14 884	6 987	7 897	11 402
UNITS OCCUPIED LAST WINTER	22 469	12 457	5 741	6 716	10 012
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	16 918	8 794	3 489	5 305	8 124
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	7 861	3 093	4 767	6 300
NO ADDITIONAL HEAT SOURCE USED	12 855	7 136	2 785	4 350	5 719
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	998	571	247	324	428
NOT REPORTED	307	155	61	93	153
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	934	396	538	1 824
RENTER OCCUPIED	5 551	3 663	2 251	1 411	1 889
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	2 970	1 787	1 183	1 184
NO ADDITIONAL HEAT SOURCE USED	3 531	2 559	1 533	1 026	972
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	475	306	201	106	168
NOT REPORTED	149	104	53	51	44
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	693	465	228	705
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	16 918	8 794	3 489	5 305	8 124
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	7 861	3 093	4 767	6 300
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 924	6 282	2 294	3 987	4 642
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 896	1 407	731	676	1 489
1 ROOM	708	399	195	204	309
2 ROOMS	643	265	139	126	378
3 ROOMS OR MORE	1 545	743	397	346	803
NOT REPORTED	341	173	68	104	168
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	934	396	538	1 824
RENTER OCCUPIED	5 551	3 663	2 251	1 411	1 889
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	2 970	1 787	1 183	1 184
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 920	2 260	1 335	925	659
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 079	603	398	204	476
1 ROOM	249	173	123	50	76
2 ROOMS	319	168	99	69	151
3 ROOMS OR MORE	511	262	176	85	249
NOT REPORTED	156	107	53	54	49
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	693	465	228	705
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	16 918	8 794	3 489	5 305	8 124
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	7 861	3 093	4 767	6 300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	934	396	538	1 824
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 311	779	346	434	1 531
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	296	100	27	73	197
NOT REPORTED	150	55	24	31	96

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
UNITS OCCUPIED LAST WINTER--CONTINUED					
INSUFFICIENT HEAT--CONTINUED					
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED					
RENTER OCCUPIED	5 551	3 663	2 251	1 411	1 889
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	2 970	1 787	1 183	1 184
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	693	465	228	705
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 058	536	364	171	522
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	274	122	77	45	151
NOT REPORTED	66	35	23	11	32
ALL OCCUPIED HOUSING UNITS	26 286	14 884	6 987	7 897	11 402
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	17 948	9 339	3 662	5 677	8 609
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 246	343	96	247	903
WITH SELECTED HEATING EQUIPMENT[2]	16 702	8 996	3 566	5 430	7 705
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 277	8 246	3 296	4 950	7 031
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 390	730	255	475	660
SOLAR HEATING EQUIPMENT	7	4	2	3	3
STOVE, BURNING WOOD OR COAL	425	178	27	150	247
FIREPLACE, BURNING WOOD OR COAL	233	138	40	98	95
PORTABLE ELECTRIC HEATER	543	319	132	187	223
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	119	59	39	21	60
OTHER	111	65	26	39	46
NOT REPORTED	35	20	15	5	15
RENTER OCCUPIED	8 338	5 545	3 325	2 219	2 793
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	696	311	163	148	385
WITH SELECTED HEATING EQUIPMENT[2]	7 642	5 234	3 162	2 072	2 409
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 194	4 967	2 999	1 968	2 227
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	424	250	155	95	174
SOLAR HEATING EQUIPMENT	2	2	-	2	-
STOVE, BURNING WOOD OR COAL	44	7	2	6	37
FIREPLACE, BURNING WOOD OR COAL	24	20	10	11	3
PORTABLE ELECTRIC HEATER	299	193	121	72	105
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	58	34	25	9	25
OTHER	16	7	1	5	9
NOT REPORTED	25	17	9	9	7
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]					
OWNER OCCUPIED	17 387	9 206	3 637	5 569	8 181
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	17 183	9 085	3 594	5 491	8 097
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	76	41	12	29	35
NOT REPORTED	128	79	30	49	48
RENTER OCCUPIED	7 839	5 424	3 295	2 129	2 415
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 753	5 365	3 272	2 093	2 388
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26	22	7	16	4
NOT REPORTED	60	37	17	20	23
AIR CONDITIONING					
OWNER OCCUPIED	17 948	9 339	3 662	5 677	8 609
WITH AIR CONDITIONING	14 411	7 989	3 059	4 930	6 423
ROOM UNITS	6 502	3 174	1 508	1 666	3 327
1	3 811	1 626	716	910	2 185
2	1 920	1 034	526	508	886
3	581	381	193	188	200
4	136	92	55	36	44
5 OR MORE	54	41	17	24	13
CENTRAL SYSTEM	7 910	4 815	1 550	3 264	3 095
WITH NO AIR CONDITIONING	3 537	1 350	603	747	2 186

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
AIR CONDITIONING--CONTINUED					
RENTER OCCUPIED	8 338	5 545	3 325	2 219	2 793
WITH AIR CONDITIONING	5 717	4 180	2 366	1 814	1 537
ROOM UNITS	2 687	1 701	1 085	616	986
1	1 983	1 211	792	418	772
2	574	394	239	155	179
3	93	68	37	32	25
4	25	17	10	7	8
5 OR MORE	13	10	6	4	3
CENTRAL SYSTEM	3 030	2 479	1 281	1 198	551
WITH NO AIR CONDITIONING	2 621	1 365	959	406	1 256
SUPPLEMENTAL COOLING EQUIPMENT					
OWNER OCCUPIED	17 948	9 339	3 662	5 677	8 609
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	7 910	4 815	1 550	3 264	3 095
WITH SUPPLEMENTAL EQUIPMENT USED	4 114	2 538	749	1 790	1 575
INDIVIDUAL ROOM AIR CONDITIONING UNIT	191	119	40	80	72
AWNINGS	303	176	45	131	127
DEHUMIDIFIER	334	242	39	203	92
CEILING FAN	1 015	632	181	451	383
ATTIC FAN	1 145	703	181	522	441
WINDOW FAN	269	155	37	118	114
PORTABLE FAN	2 197	1 340	422	918	857
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 683	2 207	779	1 428	1 476
NOT REPORTED	113	69	23	47	44
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 038	4 524	2 112	2 413	5 514
RENTER OCCUPIED	8 338	5 545	3 325	2 219	2 793
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 030	2 479	1 281	1 198	551
WITH SUPPLEMENTAL EQUIPMENT USED	828	628	311	316	200
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	16	5	11	8
AWNINGS	15	9	3	5	7
DEHUMIDIFIER	13	12	3	9	1
CEILING FAN	39	24	13	11	15
ATTIC FAN	48	21	7	14	28
WINDOW FAN	92	60	25	36	32
PORTABLE FAN	659	522	270	252	137
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 158	1 819	954	865	339
NOT REPORTED	44	33	16	17	11
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 308	3 066	2 044	1 021	2 243
ALL OCCUPIED HOUSING UNITS	26 286	14 884	6 987	7 897	11 402
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	21 318	10 770	4 422	6 348	10 548
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	17 359	8 842	3 456	5 386	8 517
ALL WINDOWS COVERED	6 164	2 978	999	1 979	3 185
SOME WINDOWS COVERED	1 978	1 053	428	625	925
NO WINDOWS COVERED	9 158	4 770	2 006	2 765	4 387
NOT REPORTED	60	41	23	18	19
RENTER OCCUPIED	3 959	1 928	966	962	2 031
ALL WINDOWS COVERED	762	344	133	211	418
SOME WINDOWS COVERED	288	128	52	76	159
NO WINDOWS COVERED	2 753	1 363	724	639	1 390
NOT REPORTED	156	93	57	35	64
STORM DOORS					
OWNER OCCUPIED	17 359	8 842	3 456	5 386	8 517
ALL DOORS COVERED	5 677	2 651	1 006	1 645	3 026
SOME DOORS COVERED	3 292	1 737	699	1 038	1 555
NO DOORS COVERED	8 317	4 406	1 724	2 682	3 911
NOT REPORTED	72	47	27	21	25
RENTER OCCUPIED	3 959	1 928	966	962	2 031
ALL DOORS COVERED	608	294	129	164	314
SOME DOORS COVERED	396	187	97	89	209
NO DOORS COVERED	2 799	1 357	684	673	1 442
NOT REPORTED	157	91	56	35	66

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
ATTIC OR ROOF INSULATION					
OWNER OCCUPIED	17 359	8 842	3 456	5 386	8 517
YES	13 918	7 242	2 671	4 571	6 676
NO	2 713	1 199	587	612	1 514
DON'T KNOW	645	347	165	182	298
NOT REPORTED	83	54	33	21	29
RENTER OCCUPIED	3 959	1 928	966	962	2 031
YES	1 514	767	324	443	747
NO	1 417	601	329	272	817
DON'T KNOW	872	470	256	214	402
NOT REPORTED	157	91	57	34	66
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	17 359	8 842	3 456	5 386	8 517
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	9 158	4 770	2 006	2 765	4 387
SOME OR ALL WINDOWS COVERED	8 141	4 031	1 427	2 604	4 110
NONE INSTALLED	6 854	3 395	1 202	2 194	3 459
SOME OR ALL INSTALLED	1 255	627	224	403	627
NOT REPORTED	32	9	2	7	24
NOT REPORTED	60	41	23	18	19
STORM DOORS:					
NO DOORS COVERED	8 317	4 406	1 724	2 682	3 911
SOME OR ALL DOORS COVERED	8 969	4 388	1 705	2 683	4 581
NONE INSTALLED	7 859	3 781	1 453	2 328	4 078
SOME OR ALL INSTALLED	1 027	566	230	336	461
NOT REPORTED	83	41	22	19	43
NOT REPORTED	72	47	27	21	25
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	2 713	1 199	587	612	1 514
WITH ATTIC OR ROOF INSULATION	13 918	7 242	2 671	4 571	6 676
NONE ADDED OR INSTALLED	12 667	6 580	2 427	4 153	6 088
SOME OR ALL ADDED OR INSTALLED	1 153	602	210	391	552
NOT REPORTED	97	61	34	27	36
DON'T KNOW	645	347	165	182	298
NOT REPORTED	83	54	33	21	29
WALL INSULATION:					
NONE ADDED OR INSTALLED	16 615	8 468	3 319	5 150	8 146
SOME OR ALL ADDED OR INSTALLED	646	313	105	207	334
NOT REPORTED	98	61	32	29	37
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	14 729	7 242	2 843	4 398	7 487
SOME OR ALL ADDED OR INSTALLED	2 528	1 539	584	955	989
NOT REPORTED	102	61	28	33	40
OTHER INSULATION:					
NONE ADDED OR INSTALLED	16 228	8 259	3 266	4 993	7 969
SOME OR ALL ADDED OR INSTALLED	1 050	533	162	371	518
NOT REPORTED	81	51	28	22	30
RENTER OCCUPIED	3 959	1 928	966	962	2 031
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	2 753	1 363	724	639	1 390
SOME OR ALL WINDOWS COVERED	1 050	472	185	287	578
NONE INSTALLED	825	383	152	232	442
SOME OR ALL INSTALLED	213	83	29	55	129
NOT REPORTED	12	6	5	1	6
NOT REPORTED	156	93	57	35	64
STORM DOORS:					
NO DOORS COVERED	2 799	1 357	684	673	1 442
SOME OR ALL DOORS COVERED	1 004	480	226	254	523
NONE INSTALLED	891	428	198	230	463
SOME OR ALL INSTALLED	78	31	14	18	47
NOT REPORTED	34	21	15	6	13
NOT REPORTED	157	91	56	35	66

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
RENTER OCCUPIED--CONTINUED					
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	1 417	601	329	272	817
WITH ATTIC OR ROOF INSULATION	1 514	767	324	443	747
NONE ADDED OR INSTALLED	1 391	708	306	402	682
SOME OR ALL ADDED OR INSTALLED	101	47	10	37	55
NOT REPORTED	21	12	8	4	10
DON'T KNOW	872	470	256	214	402
NOT REPORTED	157	91	57	34	66
WALL INSULATION:					
NONE ADDED OR INSTALLED	3 697	1 782	882	900	1 915
SOME OR ALL ADDED OR INSTALLED	59	31	12	19	29
NOT REPORTED	203	116	72	44	87
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	3 471	1 655	830	825	1 815
SOME OR ALL ADDED OR INSTALLED	282	155	66	90	127
NOT REPORTED	207	117	70	47	89
OTHER INSULATION:					
NONE ADDED OR INSTALLED	3 630	1 757	874	883	1 873
SOME OR ALL ADDED OR INSTALLED	123	53	21	32	70
NOT REPORTED	206	117	70	47	89
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	17 359	8 842	3 456	5 386	8 517
NO INSULATION ADDED OR INSTALLED	12 320	6 064	2 420	3 644	6 256
WITH INSULATION ADDED OR INSTALLED	4 630	2 568	931	1 637	2 061
LESS THAN $50	1 870	1 045	368	677	825
$50 TO $99	577	290	109	181	287
$100 TO $249	704	409	130	279	295
$250 TO $499	521	293	116	177	228
$500 TO $999	229	125	43	81	105
$1,000 OR MORE	350	194	77	117	155
DON'T KNOW	230	122	53	70	108
NOT REPORTED	149	90	35	55	59
MEDIAN	72	72	74	71	71
NOT REPORTED OR DON'T KNOW	409	210	105	105	199
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	473	206	66	140	267
LESS THAN $50	206	61	13	48	145
$50 TO $99	42	22	7	15	20
$100 TO $249	71	39	12	27	32
$250 TO $499	52	31	13	17	22
$500 TO $999	40	24	7	17	16
$1,000 OR MORE	19	9	3	6	10
DON'T KNOW	14	5	3	2	9
NOT REPORTED	28	15	6	8	13
MEDIAN	61	138	194	114	50-
ONLY INSTALLED STORM DOORS	428	236	87	149	192
LESS THAN $50	65	36	7	30	29
$50 TO $99	164	66	23	43	97
$100 TO $249	121	76	27	50	44
$250 TO $499	33	22	8	14	11
$500 TO $999	5	5	5	-	-
$1,000 OR MORE	4	3	-	3	1
DON'T KNOW	12	9	5	4	3
NOT REPORTED	24	17	11	5	7
MEDIAN	89	105	128	96	81
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	439	235	70	165	205
LESS THAN $50	64	29	8	21	35
$50 TO $99	54	33	10	22	21
$100 TO $249	108	62	12	51	46
$250 TO $499	95	51	19	32	43
$500 TO $999	31	14	5	9	17
$1,000 OR MORE	22	11	3	8	11
DON'T KNOW	36	20	7	13	17
NOT REPORTED	29	15	5	10	14
MEDIAN	195	192	231	183	201

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	26 286	14 884	6 987	7 897	11 402
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	12 093	6 644	2 463	4 181	5 449
DRIVES SELF	8 855	5 049	1 911	3 138	3 807
CARPOOL	2 406	1 161	378	783	1 244
MASS TRANSPORTATION	193	178	87	91	15
BICYCLE, MOTORCYCLE, OR MOPED	113	60	19	41	53
TAXICAB	11	3	-	3	8
WALKS ONLY	204	84	42	42	119
OTHER MEANS	36	17	7	10	20
WORKS AT HOME	275	92	19	74	183
RENTER OCCUPIED	5 699	3 961	2 283	1 677	1 738
DRIVES SELF	3 544	2 510	1 361	1 148	1 035
CARPOOL	1 222	753	440	313	469
MASS TRANSPORTATION	353	346	286	60	7
BICYCLE, MOTORCYCLE, OR MOPED	101	70	36	34	31
TAXICAB	31	21	17	5	9
WALKS ONLY	321	193	111	82	128
OTHER MEANS	18	11	8	2	8
WORKS AT HOME	109	57	24	33	52
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]					
OWNER OCCUPIED	12 093	6 644	2 463	4 181	5 449
HOUSEHOLDER DRIVES ALONE	8 855	5 049	1 911	3 138	3 807
IRREGULAR OR UNUSUAL WORK HOURS	2 823	1 646	585	1 060	1 178
IRREGULAR WORK LOCATION	731	414	161	253	317
CAR NEEDED FOR WORK OR ERRANDS	1 500	906	386	521	594
DOESN'T KNOW ANYONE TO RIDE WITH	2 046	1 081	404	677	965
LIKES PRIVACY	347	217	90	127	130
OUT OF THE WAY TO PICK UP OTHERS	464	252	100	152	212
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	70	37	9	28	33
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	206	136	61	75	70
DOESN'T TRUST OTHERS DRIVING	9	4	2	2	6
SOME OTHER REASON	625	336	107	229	289
NOT REPORTED	34	20	7	13	14
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	3 238	1 595	552	1 044	1 642
RENTER OCCUPIED	5 699	3 961	2 283	1 677	1 738
HOUSEHOLDER DRIVES ALONE	3 544	2 510	1 361	1 148	1 035
IRREGULAR OR UNUSUAL WORK HOURS	1 004	717	372	345	287
IRREGULAR WORK LOCATION	239	155	82	73	84
CAR NEEDED FOR WORK OR ERRANDS	519	380	231	148	139
DOESN'T KNOW ANYONE TO RIDE WITH	937	652	338	314	284
LIKES PRIVACY	192	141	82	59	51
OUT OF THE WAY TO PICK UP OTHERS	204	137	71	65	67
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	52	33	18	15	19
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	100	76	49	26	24
DOESN'T TRUST OTHERS DRIVING	4	4	2	2	-
SOME OTHER REASON	270	198	100	98	72
NOT REPORTED	24	17	15	1	7
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	2 154	1 451	922	529	703
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	12 093	6 644	2 463	4 181	5 449
LESS THAN 1 MILE	745	254	113	141	491
1 TO 4 MILES	2 394	1 186	592	593	1 208
5 TO 9 MILES	2 349	1 480	676	804	868
10 TO 19 MILES	2 708	1 762	544	1 218	946
20 TO 29 MILES	1 005	557	108	448	448
30 TO 49 MILES	700	294	53	241	405
50 MILES OR MORE	287	101	26	75	186
WORKS AT HOME	275	92	19	74	183
NO FIXED PLACE OF WORK	1 630	918	331	587	712
MEDIAN	9.2	9.6	7.6	11.8	8.3

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
DISTANCE FROM HOME TO WORK[1]--CONTINUED					
RENTER OCCUPIED	5 699	3 961	2 283	1 677	1 738
LESS THAN 1 MILE	594	314	169	146	280
1 TO 4 MILES	1 429	968	626	342	461
5 TO 9 MILES	1 239	993	611	382	246
10 TO 19 MILES	1 092	816	442	374	276
20 TO 29 MILES	363	260	113	147	103
30 TO 49 MILES	163	87	33	54	76
50 MILES OR MORE	82	29	18	12	53
WORKS AT HOME	109	57	24	33	52
NO FIXED PLACE OF WORK	627	435	249	186	192
MEDIAN	6.8	7.3	6.7	8.1	5.1
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	12 093	6 644	2 463	4 181	5 449
LESS THAN 15 MINUTES	3 626	1 680	737	943	1 946
15 TO 29 MINUTES	3 751	2 353	964	1 389	1 398
30 TO 44 MINUTES	1 637	1 014	287	728	622
45 TO 59 MINUTES	621	318	65	252	304
1 HOUR TO 1 HOUR AND 29 MINUTES	361	184	44	140	177
1 HOUR AND 30 MINUTES OR MORE	191	85	15	70	106
WORKS AT HOME	275	92	19	74	183
NO FIXED PLACE OF WORK	1 630	918	331	587	712
MEDIAN	20.9	22.2	20.0	23.8	18.5
RENTER OCCUPIED	5 699	3 961	2 283	1 677	1 738
LESS THAN 15 MINUTES	1 972	1 207	691	516	765
15 TO 29 MINUTES	1 839	1 402	847	554	437
30 TO 44 MINUTES	726	564	305	260	162
45 TO 59 MINUTES	216	166	88	77	51
1 HOUR TO 1 HOUR AND 29 MINUTES	130	78	38	40	51
1 HOUR AND 30 MINUTES OR MORE	80	51	41	10	29
WORKS AT HOME	109	57	24	33	52
NO FIXED PLACE OF WORK	627	435	249	186	192
MEDIAN	19.1	20.6	20.5	20.8	15.0-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS	26 286	1 838	4 238	2 831	4 468	3 548	2 830	3 607	1 869	727	331	14700
HOUSE HEATING FUEL												
OWNER OCCUPIED	17 948	828	2 367	1 629	2 778	2 449	2 199	3 027	1 673	683	314	17800
UTILITY GAS	8 404	361	1 080	724	1 259	1 086	1 013	1 438	889	371	182	18600
BOTTLED, TANK, OR LP GAS	1 788	152	395	234	334	237	191	168	48	23	8	11700
FUEL OIL	1 976	92	303	201	327	289	206	298	165	74	22	16100
KEROSENE, ETC	169	20	47	21	34	17	11	11	7	-	-	9500
ELECTRICITY	4 989	133	409	362	702	742	719	1 064	546	211	100	21000
COAL OR COKE	75	12	19	10	14	6	7	5	2	-	-	8700
WOOD	475	45	101	67	97	67	44	36	13	2	2	11200
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	8	-	2	1	-	1	3	-	1	-	-	...
NONE	66	14	12	7	13	3	5	7	2	2	-	9900
RENTER OCCUPIED	8 338	1 009	1 871	1 203	1 690	1 099	630	579	196	44	16	10300
UTILITY GAS	3 886	535	976	563	757	473	249	233	75	14	11	9300
BOTTLED, TANK, OR LP GAS	516	82	134	85	95	62	31	21	5	1	1	8500
FUEL OIL	788	61	198	121	161	95	58	66	21	6	2	10400
KEROSENE, ETC	77	16	24	12	10	7	8	-	-	-	-	6700
ELECTRICITY	2 626	199	405	350	606	422	274	248	95	22	3	13000
COAL OR COKE	47	9	17	7	7	3	1	1	-	-	-	6300
WOOD	244	64	80	34	31	23	8	4	-	-	-	5900
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	5	2	1	2	-	1	-	-	-	-	-	...
NONE	149	41	37	28	23	13	2	6	-	-	-	6700
WATER HEATING FUEL[1]												
OWNER OCCUPIED	17 462	728	2 200	1 565	2 713	2 407	2 182	3 014	1 661	679	313	18200
UTILITY GAS	7 141	295	810	563	1 040	923	921	1 282	793	355	157	19700
BOTTLED, TANK, OR LP GAS	1 065	74	231	131	192	136	117	116	48	17	4	12500
FUEL OIL	260	5	25	17	36	27	26	44	47	23	11	23900
KEROSENE, ETC	6	-	1	2	-	1	-	-	2	1	-	...
ELECTRICITY	8 902	346	1 105	838	1 429	1 312	1 115	1 568	768	283	138	17800
COAL OR COKE	1	-	-	-	1	-	-	-	-	-	-	...
WOOD	5	2	1	1	1	-	-	1	1	-	-	...
SOLAR HEAT	18	-	3	-	1	3	2	3	2	-	3	...
OTHER FUEL	6	-	1	2	1	2	-	1	1	-	-	...
NONE	58	7	23	12	12	2	1	-	-	-	-	6800
RENTER OCCUPIED	7 889	873	1 703	1 126	1 655	1 083	625	571	196	44	14	10700
UTILITY GAS	3 631	463	883	515	716	452	249	244	81	17	9	9700
BOTTLED, TANK, OR LP GAS	278	32	65	54	56	30	24	9	5	2	1	9300
FUEL OIL	200	6	41	29	48	30	14	22	9	2	-	12600
KEROSENE, ETC	5	-	1	1	3	-	-	-	-	-	-	...
ELECTRICITY	3 713	362	688	520	825	566	334	292	101	22	4	11700
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	1	-	-	-	-	-	1	-	-	-	-	...
SOLAR HEAT	3	-	3	-	-	-	-	-	-	-	-	...
OTHER FUEL	12	-	5	-	-	2	2	3	-	-	-	...
NONE	46	10	17	8	7	3	2	-	-	-	-	6000
COOKING FUEL												
OWNER OCCUPIED	17 948	828	2 367	1 629	2 778	2 449	2 199	3 027	1 673	683	314	17800
UTILITY GAS	4 794	263	752	499	818	682	566	667	330	169	48	15500
BOTTLED, TANK, OR LP GAS	1 788	158	416	224	373	236	161	154	50	12	4	11300
FUEL OIL	11	3	2	2	1	-	2	-	2	-	1	...
KEROSENE, ETC	2	1	1	-	-	-	-	-	-	-	-	...
ELECTRICITY	11 285	386	1 167	895	1 582	1 529	1 468	2 206	1 289	501	261	20300
COAL OR COKE	4	1	3	1	-	-	-	-	-	-	-	...
WOOD	48	13	22	5	2	1	2	1	1	-	-	4900
OTHER FUEL	6	1	1	2	-	2	-	-	1	-	-	...
NONE	10	3	3	1	2	-	-	-	2	-	-	...
RENTER OCCUPIED	8 338	1 009	1 871	1 203	1 690	1 099	630	579	196	44	16	10300
UTILITY GAS	3 402	478	917	507	662	385	199	189	54	8	5	8800
BOTTLED, TANK, OR LP GAS	595	101	170	113	104	53	30	18	5	1	-	7700
FUEL OIL	16	2	4	-	8	2	-	-	-	-	-	...
KEROSENE, ETC	8	2	5	-	1	-	-	-	-	-	-	...
ELECTRICITY	4 246	405	753	570	911	651	401	372	137	35	12	12200
COAL OR COKE	1	-	1	-	-	-	-	-	-	-	-	...
WOOD	35	17	10	5	2	1	-	1	-	-	-	3400
OTHER FUEL	2	1	-	-	1	-	-	-	-	-	-	...
NONE	32	4	11	8	1	7	-	-	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[2]	14 268	580	1 684	1 159	2 102	1 960	1 797	2 601	1 484	616	283	19100
ELECTRICITY PAID FOR	14 257	574	1 683	1 158	2 102	1 959	1 797	2 600	1 484	616	283	19100
LESS THAN $10	66	15	26	3	8	5	2	-	2	-	3	5700
$10 TO $19	693	110	248	86	83	67	34	33	21	7	4	6800
$20 TO $29	1 479	113	363	195	267	189	150	124	44	27	6	11300
$30 TO $39	1 835	95	293	219	324	283	210	243	123	30	17	14800
$40 TO $49	1 851	49	212	178	355	288	251	306	145	50	17	17300
$50 TO $59	1 901	62	158	145	314	317	261	376	188	55	26	19300
$60 TO $79	2 989	50	188	187	411	413	458	670	388	164	60	22700
$80 TO $99	1 439	29	90	72	150	187	200	374	203	91	43	24800
$100 TO $149	1 519	35	86	56	149	156	190	391	270	132	55	27300
$150 OR MORE	485	15	19	16	41	56	42	83	100	61	53	31500
MEDIAN	56	35	36	44	50	54	59	66	71	76	84	...
NO ELECTRICITY USED	10	7	2	1	-	1	-	1	-	-	-	...

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
MONTHLY COST PAID FOR ELECTRICITY--CONTINUED												
SPECIFIED RENTER OCCUPIED[1]	8 018	952	1 789	1 142	1 627	1 078	611	569	190	43	16	10400
ELECTRICITY PAID FOR	6 530	764	1 447	911	1 348	893	483	472	164	34	15	10500
LESS THAN $10	209	67	77	20	19	11	3	10	2	-	-	4900
$10 TO $19	931	185	305	152	143	78	33	27	6	1	-	6700
$20 TO $29	1 226	147	345	182	271	150	57	51	16	3	2	9000
$30 TO $39	1 116	132	266	165	257	142	66	55	22	5	5	9900
$40 TO $49	847	77	145	117	180	134	88	75	25	6	1	12400
$50 TO $59	752	63	119	102	181	125	82	55	18	6	2	12500
$60 TO $79	776	55	108	92	149	150	90	85	41	1	3	14400
$80 TO $99	332	25	45	55	62	46	35	51	12	2	-	13300
$100 TO $149	278	8	26	25	74	45	25	52	13	9	1	15500
$150 OR MORE	62	4	9	-	11	11	4	11	10	1	2	18100
MEDIAN	37	28	29	36	38	44	48	53	56	...	...	...
INCLUDED IN RENT	1 480	185	339	232	278	184	128	97	26	9	2	9800
NO ELECTRICITY USED	8	3	3	-	2	-	-	-	-	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	14 268	580	1 684	1 159	2 102	1 960	1 797	2 601	1 484	616	283	19100
GAS PAID FOR	9 360	430	1 233	797	1 384	1 237	1 116	1 608	959	412	184	18400
LESS THAN $10	563	32	108	57	90	73	53	83	40	19	9	14700
$10 TO $14	788	59	149	73	104	123	84	95	71	22	9	15400
$15 TO $19	802	35	122	89	118	112	108	133	61	20	5	16700
$20 TO $24	1 176	52	170	105	168	153	139	194	124	47	23	18000
$25 TO $29	1 051	44	135	119	171	114	138	186	80	45	18	17400
$30 TO $39	1 861	73	245	150	281	237	236	358	193	53	35	18800
$40 TO $49	1 195	62	101	67	195	166	134	225	159	68	18	20200
$50 TO $69	1 364	51	140	101	192	175	173	236	171	81	44	20700
$70 TO $99	394	14	40	27	44	60	38	75	40	42	14	21600
$100 OR MORE	166	8	23	9	20	24	12	23	20	17	10	19600
MEDIAN	31	28	27	27	31	32	31	33	35	40	37	...
NO GAS USED	4 908	150	451	362	719	723	682	993	525	204	99	20400
SPECIFIED RENTER OCCUPIED[1]	8 018	952	1 789	1 142	1 627	1 078	611	569	190	43	16	10400
GAS PAID FOR	3 447	466	874	475	674	420	228	215	73	13	10	9400
LESS THAN $10	590	101	152	87	111	70	37	32	1	-	-	8500
$10 TO $14	469	69	137	56	81	61	27	27	7	-	3	8500
$15 TO $19	410	63	103	48	85	55	27	20	8	-	-	9400
$20 TO $24	438	59	130	67	78	45	16	28	14	-	1	8300
$25 TO $29	338	50	75	47	69	39	21	21	11	6	-	9800
$30 TO $39	506	60	105	79	108	63	35	40	10	2	3	10400
$40 TO $49	286	23	59	46	60	37	28	22	9	2	1	11300
$50 TO $69	269	20	73	33	58	37	21	16	8	3	-	10700
$70 TO $99	98	12	33	4	17	12	10	7	2	-	-	9800
$100 OR MORE	42	7	7	6	9	2	6	2	1	-	2	10200
MEDIAN	22	19	21	23	23	22	26	25	27	...	...	...
INCLUDED IN RENT	2 264	289	495	358	442	289	162	170	43	14	2	9800
NO GAS USED	2 307	197	420	310	511	369	222	184	74	16	5	12200
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	14 268	580	1 684	1 159	2 102	1 960	1 797	2 601	1 484	616	283	19100
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 936	136	390	232	385	374	324	526	334	163	72	19300
LESS THAN $100	748	39	52	48	61	88	92	174	114	48	33	24700
$100 TO $199	500	27	69	41	58	52	57	86	63	38	9	20300
$200 TO $299	308	16	58	21	43	44	34	47	27	8	9	16800
$300 TO $399	274	15	45	29	49	41	25	35	23	12	-	14900
$400 TO $499	247	10	36	26	45	41	29	37	18	3	2	15800
$500 TO $599	238	14	53	13	31	38	23	36	14	11	4	16100
$600 TO $699	214	5	30	17	37	26	22	39	22	13	2	18600
$700 TO $799	103	2	15	3	20	14	12	17	15	5	-	19100
$800 OR MORE	306	9	32	35	40	31	29	55	37	25	12	20900
MEDIAN	271	214	335	323	361	310	238	206	183	189	132	...
FUELS NOT USED OR FREE	11 332	444	1 295	927	1 718	1 586	1 473	2 075	1 151	453	211	19000
SPECIFIED RENTER OCCUPIED[1]	8 018	952	1 789	1 142	1 627	1 078	611	569	190	43	16	10400
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	796	113	197	110	128	93	59	60	27	5	6	9900
LESS THAN $100	154	34	36	18	17	9	9	19	9	-	3	8100
$100 TO $199	135	21	33	17	15	20	9	9	8	1	1	9200
$200 TO $299	120	23	35	15	16	17	5	6	2	-	2	7500
$300 TO $399	114	14	29	11	26	12	13	7	2	1	-	10600
$400 TO $499	89	11	29	12	16	7	6	7	-	-	-	7900
$500 TO $599	65	6	13	16	10	12	4	3	2	-	-	9700
$600 TO $699	41	2	9	6	9	4	4	5	3	-	-	12100
$700 TO $799	22	1	4	5	3	5	3	1	-	-	-	...
$800 OR MORE	56	2	9	9	15	7	7	3	2	3	-	12600
MEDIAN	290	205	281	342	360	305	350	224	...	...	...	...
INCLUDED IN RENT	964	109	234	150	185	127	60	68	24	5	2	9800
FUELS NOT USED OR FREE	6 258	730	1 358	883	1 314	858	493	442	139	33	8	10600
ALL OCCUPIED HOUSING UNITS	26 286	1 838	4 238	2 831	4 468	3 548	2 830	3 607	1 869	727	331	14700
HEATING EQUIPMENT												
OWNER OCCUPIED	17 948	828	2 367	1 629	2 778	2 449	2 199	3 027	1 673	683	314	17800
WARM-AIR FURNACE	9 735	266	841	668	1 321	1 274	1 335	2 070	1 221	508	232	21900
HEAT PUMP	896	18	48	59	89	110	125	209	137	62	39	25000
STEAM OR HOT WATER	512	22	45	26	70	73	59	96	71	36	15	21700
BUILT-IN ELECTRIC UNITS	1 329	43	136	125	230	264	198	198	95	31	9	17500
FLOOR, WALL, OR PIPELESS FURNACE	1 477	69	275	181	311	250	154	154	54	20	8	13400
ROOM HEATERS WITH FLUE	1 136	98	301	165	220	150	92	68	32	7	4	10100
ROOM HEATERS WITHOUT FLUE	1 615	196	447	245	288	156	115	129	28	9	3	9000
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 181	102	264	154	236	168	116	96	33	7	5	11500
NONE	66	14	12	7	13	3	5	7	2	2	-	9900

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
HEATING EQUIPMENT--CONTINUED												
RENTER OCCUPIED	8 338	1 009	1 871	1 203	1 690	1 099	630	579	196	44	16	10300
WARM-AIR FURNACE	3 649	279	542	507	840	557	379	365	140	29	9	13000
HEAT PUMP	225	10	32	29	48	40	26	27	7	5	1	14300
STEAM OR HOT WATER	478	49	127	62	93	66	28	36	11	4	2	10000
BUILT-IN ELECTRIC UNITS	642	64	146	104	131	103	48	30	16	-	-	10300
FLOOR, WALL, OR PIPELESS FURNACE	743	112	197	95	145	96	49	38	8	3	2	9000
ROOM HEATERS WITH FLUE	734	123	229	113	130	76	38	19	5	-	2	7400
ROOM HEATERS WITHOUT FLUE	1 171	209	395	191	191	96	40	40	8	1	1	6800
FIREPLACES, STOVES, OR PORTABLE HEATERS	547	122	167	73	90	51	21	18	1	2	1	6600
NONE	149	41	37	28	23	13	2	6	-	-	-	6700
FIREPLACES AND HEATING STOVES												
OWNER OCCUPIED	17 948	828	2 367	1 629	2 778	2 449	2 199	3 027	1 673	683	314	17800
HOUSING UNITS WITH HEATING EQUIPMENT	17 882	815	2 355	1 621	2 765	2 446	2 194	3 020	1 671	681	314	17800
WITH FIREPLACE OR HEATING STOVE	7 700	301	789	525	946	926	944	1 524	1 037	471	237	21900
IN WORKING ORDER	7 208	264	678	475	852	870	894	1 470	1 012	459	235	22600
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	5 561	171	406	292	582	674	722	1 248	882	401	185	24500
ALL PURCHASED	1 660	61	121	71	139	159	177	382	302	170	79	27700
SOME OR NONE PURCHASED	3 810	109	279	219	426	511	532	853	556	221	104	23400
NOT REPORTED	91	2	6	2	16	4	13	12	24	10	2	26900
COAL	125	20	28	19	23	16	9	8	2	-	-	9300
OTHER FUEL	704	35	147	88	130	78	76	77	38	24	12	13200
NONE	786	37	95	74	116	98	80	128	86	33	37	18600
NOT REPORTED	31	1	2	1	1	4	7	9	5	2	1	...
NOT IN WORKING ORDER	466	36	108	47	93	53	44	51	24	9	1	12300
NOT REPORTED	26	2	3	3	2	3	6	3	1	2	2	...
WITHOUT FIREPLACE OR HEATING STOVE	10 144	510	1 560	1 092	1 811	1 518	1 244	1 492	634	208	77	15300
NOT REPORTED	38	3	6	5	8	3	7	4	-	2	-	13000
HOUSING UNITS WITH NO HEATING EQUIPMENT	66	14	12	7	13	3	5	7	2	2	-	9900
RENTER OCCUPIED	8 338	1 009	1 871	1 203	1 690	1 099	630	579	196	44	16	10300
HOUSING UNITS WITH HEATING EQUIPMENT	8 189	968	1 834	1 175	1 667	1 086	629	574	196	44	16	10400
WITH FIREPLACE OR HEATING STOVE	1 532	210	376	192	275	167	118	132	44	12	7	9800
IN WORKING ORDER	1 299	176	314	153	233	142	101	123	40	10	7	10100
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	775	102	163	94	127	101	57	83	35	8	5	11100
ALL PURCHASED	277	40	67	31	39	26	16	37	15	3	3	10100
SOME OR NONE PURCHASED	462	54	93	60	86	68	37	41	18	3	2	11400
NOT REPORTED	36	7	4	4	2	7	4	5	1	2	-	15600
COAL	50	11	25	3	7	1	2	1	-	-	-	5300
OTHER FUEL	267	43	87	40	56	17	13	9	2	-	-	7300
NONE	193	18	38	15	39	21	29	28	3	2	2	13400
NOT REPORTED	14	2	2	1	5	2	-	2	-	-	-	...
NOT IN WORKING ORDER	223	33	60	38	39	23	17	7	5	2	-	8500
NOT REPORTED	10	2	2	2	2	2	-	2	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	6 636	754	1 453	982	1 384	919	511	439	152	32	10	10500
NOT REPORTED	21	4	6	1	8	-	-	2	-	-	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	149	41	37	28	23	13	2	6	-	-	-	6700
ALL OCCUPIED HOUSING UNITS	26 286	1 838	4 238	2 831	4 468	3 548	2 830	3 607	1 869	727	331	14700
UNITS OCCUPIED LAST WINTER	22 469	1 513	3 636	2 295	3 718	3 003	2 472	3 192	1 669	661	310	15100
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	16 918	790	2 289	1 539	2 635	2 307	2 064	2 814	1 558	626	295	17600
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	490	1 581	1 148	2 132	1 989	1 837	2 592	1 495	609	287	19300
NO ADDITIONAL HEAT SOURCE USED	12 855	437	1 405	1 024	1 900	1 799	1 680	2 372	1 400	575	262	19600
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	998	43	129	89	191	147	122	166	71	23	17	16600
NOT REPORTED	307	10	48	35	40	44	35	54	23	11	8	17400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	300	708	391	503	318	227	222	63	17	8	9800
RENTER OCCUPIED	5 551	722	1 346	755	1 083	696	408	378	111	35	15	9800
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	441	870	547	862	590	359	331	106	34	14	11300
NO ADDITIONAL HEAT SOURCE USED	3 531	375	726	466	718	512	312	291	88	30	12	11400
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	475	42	113	62	114	55	35	35	15	4	-	10900
NOT REPORTED	149	23	31	19	30	23	13	5	3	-	2	10200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	282	477	209	221	106	49	47	5	1	1	6500
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	16 918	790	2 289	1 539	2 635	2 307	2 064	2 814	1 558	626	295	17600
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	490	1 581	1 148	2 132	1 989	1 837	2 592	1 495	609	287	19300
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 924	319	992	757	1 523	1 516	1 510	2 174	1 322	555	257	21200
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 896	161	535	354	566	426	287	356	147	44	21	13500
1 ROOM	708	34	69	55	132	96	72	153	69	15	13	18300
2 ROOMS	643	44	136	92	121	93	59	70	22	4	2	12000
3 ROOMS OR MORE	1 545	83	330	207	313	236	156	134	56	25	6	12500
NOT REPORTED	341	10	54	37	44	47	40	62	26	11	9	17600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	300	708	391	503	318	227	222	63	17	8	9800
RENTER OCCUPIED	5 551	722	1 346	755	1 083	696	408	378	111	35	15	9800
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	441	870	547	862	590	359	331	106	34	14	11300
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 920	268	553	373	614	438	274	279	83	30	8	12200
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 079	150	283	153	217	128	72	45	20	5	5	9100
1 ROOM	249	31	57	36	44	36	16	17	9	2	2	10000
2 ROOMS	319	45	88	47	69	36	19	12	3	1	-	8700
3 ROOMS OR MORE	511	74	138	71	104	57	38	16	8	2	3	8800
NOT REPORTED	156	23	33	21	31	23	13	7	3	-	2	10100
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	282	477	209	221	106	49	47	5	1	1	6500

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
UNITS OCCUPIED LAST WINTER--CONTINUED												
INSUFFICIENT HEAT--CONTINUED												
HOUSING UNIT UNCOMFORTABLY COLD:												
OWNER OCCUPIED	16 918	790	2 289	1 539	2 635	2 307	2 064	2 814	1 558	626	295	17600
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	490	1 581	1 148	2 132	1 989	1 837	2 592	1 495	609	287	19300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	300	708	391	503	318	227	222	63	17	8	9800
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 311	241	575	317	448	270	196	188	58	14	4	10300
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	296	49	108	49	34	28	13	12	2	-	1	6700
NOT REPORTED	150	11	26	25	20	20	17	22	4	3	3	13500
RENTER OCCUPIED	5 551	722	1 346	755	1 083	696	408	378	111	35	15	9800
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	441	870	547	862	590	359	331	106	34	14	11300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	282	477	209	221	106	49	47	5	1	1	6500
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 058	202	349	164	167	88	41	40	4	1	1	6700
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	274	66	102	34	45	15	7	5	-	-	-	5800
NOT REPORTED	66	14	25	10	10	4	1	2	1	-	-	6100
ALL OCCUPIED HOUSING UNITS	26 286	1 838	4 238	2 831	4 468	3 548	2 830	3 607	1 869	727	331	14700
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	17 948	828	2 367	1 629	2 778	2 449	2 199	3 027	1 673	683	314	17800
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 246	116	275	161	249	171	121	103	36	9	5	11400
WITH SELECTED HEATING EQUIPMENT[2]	16 702	713	2 092	1 467	2 530	2 278	2 078	2 924	1 637	674	309	18400
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 277	672	1 959	1 362	2 295	2 071	1 882	2 655	1 491	609	281	18300
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 390	39	125	104	232	200	191	262	146	62	28	19800
SOLAR HEATING EQUIPMENT	7	-	-	-	2	-	2	4	-	-	-	...
STOVE, BURNING WOOD OR COAL	425	13	25	27	57	64	70	102	47	16	2	21800
FIREPLACE, BURNING WOOD OR COAL	233	1	14	6	23	40	41	45	37	17	9	23900
PORTABLE ELECTRIC HEATER	543	13	75	53	113	70	47	83	54	23	13	16200
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	119	8	10	16	31	16	18	16	2	1	1	14000
OTHER	111	5	3	5	17	14	15	24	14	8	6	23800
NOT REPORTED	35	2	7	2	2	6	5	7	1	2	1	...
RENTER OCCUPIED	8 338	1 009	1 871	1 203	1 690	1 099	630	579	196	44	16	10300
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	696	163	203	101	113	64	22	24	1	2	1	6600
WITH SELECTED HEATING EQUIPMENT[2]	7 642	846	1 668	1 101	1 577	1 035	608	555	195	41	15	10700
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 194	803	1 592	1 035	1 463	976	581	510	179	40	15	10600
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	424	42	72	63	105	58	27	41	15	2	-	11700
SOLAR HEATING EQUIPMENT	2	2	-	-	-	-	-	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	44	4	5	9	11	10	2	3	1	-	-	12100
FIREPLACE, BURNING WOOD OR COAL	24	2	1	-	4	6	-	6	4	-	-	...
PORTABLE ELECTRIC HEATER	299	32	59	50	69	36	21	21	10	2	-	10700
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	58	9	10	6	19	7	3	5	-	-	-	11300
OTHER	16	3	1	-	2	-	2	7	-	-	-	...
NOT REPORTED	25	2	4	3	9	1	-	5	2	-	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
OWNER OCCUPIED	17 387	721	2 174	1 553	2 699	2 401	2 180	3 011	1 659	679	310	18200
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	17 183	715	2 148	1 537	2 666	2 374	2 159	2 976	1 627	672	308	18200
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	76	2	6	7	8	10	10	11	19	3	2	23800
NOT REPORTED	128	4	20	9	25	17	11	24	13	3	1	16400
RENTER OCCUPIED	7 839	863	1 682	1 118	1 648	1 080	624	571	196	44	14	10800
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 753	856	1 656	1 110	1 627	1 069	616	568	195	44	14	10800
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26	2	5	2	7	2	5	2	1	-	-	...
NOT REPORTED	60	6	22	7	14	9	2	1	-	-	-	8200
AIR CONDITIONING												
OWNER OCCUPIED	17 948	828	2 367	1 629	2 778	2 449	2 199	3 027	1 673	683	314	17800
WITH AIR CONDITIONING	14 411	446	1 484	1 180	2 128	2 018	1 893	2 750	1 564	648	301	19900
ROOM UNITS	6 502	281	1 011	735	1 235	1 075	798	860	352	121	34	15000
1	3 811	220	707	475	745	658	445	378	138	39	7	13400
2	1 920	47	241	183	386	310	261	312	128	38	13	16600
3	581	12	50	55	81	85	66	142	57	23	9	20600
4	136	1	10	17	22	15	24	23	13	9	2	20700
5 OR MORE	54	1	3	6	1	7	2	5	15	12	3	37500
CENTRAL SYSTEM	7 910	165	473	445	892	943	1 095	1 891	1 213	526	268	29700
WITH NO AIR CONDITIONING	3 537	382	883	448	651	431	306	277	109	35	13	10400
RENTER OCCUPIED	8 338	1 009	1 871	1 203	1 690	1 099	630	579	196	44	16	10300
WITH AIR CONDITIONING	5 717	447	1 039	785	1 249	909	538	518	177	41	14	12400
ROOM UNITS	2 687	267	659	383	546	408	204	167	33	13	7	10300
1	1 983	226	526	286	422	270	126	103	16	5	4	9500
2	574	27	110	81	98	119	64	53	14	5	3	13500
3	93	10	11	10	19	15	12	11	1	3	-	14000
4	25	1	12	2	3	4	2	-	2	-	-	...
5 OR MORE	13	3	1	5	4	-	-	-	1	-	-	...
CENTRAL SYSTEM	3 030	179	380	402	704	501	334	351	144	28	7	13900
WITH NO AIR CONDITIONING	2 621	563	832	418	441	190	92	62	19	2	2	6600

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
OWNER OCCUPIED	17 948	828	2 367	1 629	2 778	2 449	2 199	3 027	1 673	683	314	17800
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	7 910	165	473	445	892	943	1 095	1 891	1 213	526	268	24700
WITH SUPPLEMENTAL EQUIPMENT USED	4 114	84	199	211	447	449	576	1 004	674	303	166	25900
INDIVIDUAL ROOM AIR CONDITIONING UNIT	191	2	9	11	18	17	17	62	31	14	10	28500
AWNINGS	303	1	26	25	51	47	48	52	25	18	9	20100
DEHUMIDIFIER	334	6	8	10	33	25	32	68	67	57	27	32600
CEILING FAN	1 015	19	43	38	72	101	140	264	194	81	64	28600
ATTIC FAN	1 145	14	39	34	87	113	174	295	213	123	51	28700
WINDOW FAN	269	-	6	16	18	35	54	60	55	15	9	25900
PORTABLE FAN	2 197	51	131	131	286	248	301	523	336	127	64	24200
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 683	75	268	227	425	479	502	862	523	221	101	23700
NOT REPORTED	113	6	5	8	20	14	17	25	15	2	1	21000
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 038	664	1 894	1 183	1 886	1 506	1 104	1 137	461	157	47	13400
RENTER OCCUPIED	8 338	1 009	1 871	1 203	1 690	1 099	630	579	196	44	16	10300
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 030	179	380	402	704	501	334	351	144	28	7	13900
WITH SUPPLEMENTAL EQUIPMENT USED	828	31	97	113	189	153	87	102	50	4	3	14600
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	2	3	4	5	-	4	5	-	1	-	...
AWNINGS	15	-	2	4	1	3	-	5	-	-	-	...
DEHUMIDIFIER	13	1	1	-	2	2	-	4	3	-	-	...
CEILING FAN	39	-	4	7	11	5	3	5	3	-	1	14100
ATTIC FAN	48	3	7	3	5	7	3	15	4	2	-	19400
WINDOW FAN	92	3	12	13	33	7	9	10	4	-	-	12700
PORTABLE FAN	659	22	74	89	143	135	74	76	41	1	2	15000
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 158	144	273	283	505	343	241	247	95	24	4	13700
NOT REPORTED	44	4	10	5	10	5	6	2	-	1	-	11300
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 308	830	1 492	801	986	598	296	228	52	15	10	8200
ALL OCCUPIED HOUSING UNITS	26 286	1 838	4 238	2 831	4 468	3 548	2 830	3 607	1 869	727	331	14700
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	21 318	1 305	3 191	2 140	3 450	2 873	2 419	3 200	1 726	692	321	16000
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	17 359	804	2 251	1 560	2 691	2 384	2 129	2 935	1 623	673	310	17900
ALL WINDOWS COVERED	6 164	228	579	442	874	870	856	1 162	725	306	121	20500
SOME WINDOWS COVERED	1 978	88	260	167	288	262	232	337	196	103	44	18500
NO WINDOWS COVERED	9 158	485	1 403	947	1 520	1 245	1 034	1 421	698	260	144	15900
NOT REPORTED	60	2	8	3	9	8	6	15	3	4	1	19500
RENTER OCCUPIED	3 959	501	941	581	759	489	290	265	103	19	12	9800
ALL WINDOWS COVERED	762	58	133	91	171	126	68	72	36	6	2	12900
SOME WINDOWS COVERED	288	35	50	52	57	39	20	20	10	1	3	10600
NO WINDOWS COVERED	2 753	392	711	407	506	313	192	165	51	9	7	9000
NOT REPORTED	156	17	46	30	25	11	9	9	6	3	-	8500
STORM DOORS												
OWNER OCCUPIED	17 359	804	2 251	1 560	2 691	2 384	2 129	2 935	1 623	673	310	17900
ALL DOORS COVERED	5 677	208	632	452	871	836	772	1 032	562	244	67	19000
SOME DOORS COVERED	3 292	116	348	281	510	486	466	582	335	110	59	19000
NO DOORS COVERED	8 317	473	1 263	824	1 298	1 051	885	1 303	723	316	183	16400
NOT REPORTED	72	6	8	3	12	11	6	18	3	4	1	18400
RENTER OCCUPIED	3 959	501	941	581	759	489	290	265	103	19	12	9800
ALL DOORS COVERED	608	50	104	70	144	106	58	50	23	1	2	12800
SOME DOORS COVERED	396	43	63	61	78	62	42	29	13	1	2	11900
NO DOORS COVERED	2 799	393	729	420	509	309	180	177	61	13	8	9000
NOT REPORTED	157	15	44	30	27	13	9	9	6	3	-	8900
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	17 359	804	2 251	1 560	2 691	2 384	2 129	2 935	1 623	673	310	17900
YES	13 918	440	1 374	1 106	2 078	1 961	1 872	2 667	1 503	633	284	20000
NO	2 713	297	725	381	474	313	207	189	86	19	22	9600
DON'T KNOW	645	62	139	68	127	99	40	62	29	15	3	12100
NOT REPORTED	83	4	13	5	11	12	10	17	5	6	1	18600
RENTER OCCUPIED	3 959	501	941	581	759	489	290	265	103	19	12	9800
YES	1 514	133	252	168	337	234	159	147	66	8	9	13000
NO	1 417	256	448	226	218	127	61	60	14	5	2	7100
DON'T KNOW	872	98	192	156	179	117	60	49	17	3	2	9800
NOT REPORTED	157	15	48	30	25	11	9	9	6	3	-	8500
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	17 359	804	2 251	1 560	2 691	2 384	2 129	2 935	1 623	673	310	17900
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	9 158	485	1 403	947	1 520	1 245	1 034	1 421	698	260	144	15900
SOME OR ALL WINDOWS COVERED	8 141	316	839	609	1 162	1 132	1 088	1 499	922	409	165	20100
NONE INSTALLED	6 854	262	691	526	973	946	939	1 260	772	355	130	20200
SOME OR ALL INSTALLED	1 255	51	144	83	183	178	148	238	144	52	35	19700
NOT REPORTED	32	3	5	1	6	8	2	1	6	2	-	...
NOT REPORTED	60	2	8	3	9	8	6	15	3	4	1	19500
STORM DOORS:												
NO DOORS COVERED	8 317	473	1 263	824	1 298	1 051	885	1 303	723	316	183	16400
SOME OR ALL DOORS COVERED	8 969	325	980	732	1 381	1 322	1 238	1 614	897	353	126	19000
NONE INSTALLED	7 859	284	879	663	1 211	1 167	1 100	1 412	740	291	112	18800
SOME OR ALL INSTALLED	1 027	38	91	61	155	145	129	193	140	59	14	20900
NOT REPORTED	83	3	10	8	15	10	9	9	16	3	-	17900
NOT REPORTED	72	6	8	3	12	11	6	18	3	4	1	18400

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	2 713	297	725	381	474	313	207	189	86	19	22	9600
WITH ATTIC OR ROOF INSULATION	13 918	440	1 374	1 106	2 078	1 961	1 872	2 667	1 503	633	284	20000
NONE ADDED OR INSTALLED	12 667	404	1 252	1 041	1 913	1 811	1 653	2 408	1 341	582	261	19800
SOME OR ALL ADDED OR INSTALLED	1 153	31	113	64	151	138	200	238	151	47	21	22000
NOT REPORTED	97	5	8	1	14	12	19	21	11	5	2	22300
DON'T KNOW	645	62	139	68	127	99	40	62	29	15	3	12100
NOT REPORTED	83	4	13	5	11	12	10	17	5	6	1	18600
WALL INSULATION:												
NONE ADDED OR INSTALLED	16 615	772	2 200	1 514	2 584	2 287	2 005	2 782	1 532	637	300	17700
SOME OR ALL ADDED OR INSTALLED	646	26	42	39	98	82	113	125	84	29	8	21600
NOT REPORTED	98	5	9	6	9	15	11	28	7	7	1	22100
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	14 729	748	2 101	1 414	2 361	2 031	1 693	2 350	1 255	534	241	16800
SOME OR ALL ADDED OR INSTALLED	2 528	50	140	138	320	339	421	557	363	132	68	23300
NOT REPORTED	102	5	9	8	10	13	15	29	5	7	1	21800
OTHER INSULATION:												
NONE ADDED OR INSTALLED	16 228	768	2 173	1 473	2 530	2 222	1 973	2 706	1 474	618	290	17600
SOME OR ALL ADDED OR INSTALLED	1 050	31	71	84	152	148	146	208	142	50	18	21400
NOT REPORTED	81	5	7	2	10	14	10	21	7	4	1	21000
RENTER OCCUPIED	3 959	501	941	581	759	489	290	265	103	19	12	9800
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	2 753	392	711	407	506	313	192	165	51	9	7	9000
SOME OR ALL WINDOWS COVERED	1 050	93	184	143	228	165	88	91	46	7	5	12300
NONE INSTALLED	825	78	139	98	173	136	73	78	38	6	5	12800
SOME OR ALL INSTALLED	213	15	45	43	53	27	12	10	7	1	-	10300
NOT REPORTED	12	-	-	2	2	2	3	3	-	-	-	...
NOT REPORTED	156	17	46	30	25	11	9	9	6	3	-	8500
STORM DOORS:												
NO DOORS COVERED	2 799	393	729	420	509	309	180	177	61	13	8	9000
SOME OR ALL DOORS COVERED	1 004	93	168	130	223	168	101	79	36	3	3	12500
NONE INSTALLED	891	80	152	113	192	157	85	71	34	3	3	12600
SOME OR ALL INSTALLED	78	9	12	13	21	5	10	6	2	-	-	11100
NOT REPORTED	34	4	3	4	9	6	6	1	-	-	-	...
NOT REPORTED	157	15	44	30	27	13	9	9	6	3	-	8900
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 417	256	448	226	218	127	61	60	14	5	2	7100
WITH ATTIC OR ROOF INSULATION	1 514	133	252	168	337	234	159	147	66	8	9	13000
NONE ADDED OR INSTALLED	1 391	122	235	157	312	211	143	135	61	8	7	12900
SOME OR ALL ADDED OR INSTALLED	101	10	14	9	20	20	13	9	4	1	1	14400
NOT REPORTED	21	1	3	2	4	3	4	2	2	-	-	...
DON'T KNOW	872	98	192	156	179	117	60	49	17	3	2	9800
NOT REPORTED	157	15	48	30	25	11	9	9	6	3	-	8500
WALL INSULATION:												
NONE ADDED OR INSTALLED	3 697	481	878	531	713	463	259	248	96	16	12	9800
SOME OR ALL ADDED OR INSTALLED	59	5	10	8	15	7	9	4	-	-	-	12000
NOT REPORTED	203	15	53	41	32	19	21	12	7	3	-	9400
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	3 471	463	851	504	650	425	242	224	88	14	10	9500
SOME OR ALL ADDED OR INSTALLED	282	22	36	35	75	45	26	29	9	2	2	13200
NOT REPORTED	207	16	54	41	33	19	21	12	7	3	-	9400
OTHER INSULATION:												
NONE ADDED OR INSTALLED	3 630	475	870	523	692	452	260	239	92	16	12	9700
SOME OR ALL ADDED OR INSTALLED	123	10	16	16	35	19	9	14	4	-	-	12800
NOT REPORTED	206	16	54	42	32	18	21	13	7	3	-	9300
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	17 359	804	2 251	1 560	2 691	2 384	2 129	2 935	1 623	673	310	17900
NO INSULATION ADDED OR INSTALLED	12 320	648	1 828	1 212	2 003	1 695	1 386	1 922	988	437	201	16400
WITH INSULATION ADDED OR INSTALLED	4 630	136	371	318	637	626	683	936	603	219	102	21700
LESS THAN $50	1 870	69	165	138	256	245	286	390	218	76	26	21100
$50 TO $99	577	13	49	45	88	92	77	122	56	27	9	20200
$100 TO $249	704	15	46	51	106	97	113	120	86	48	21	21600
$250 TO $499	521	13	37	29	62	77	59	121	88	21	15	23600
$500 TO $999	229	2	15	15	22	27	33	52	43	15	7	25200
$1,000 OR MORE	350	13	18	10	52	45	55	68	53	19	15	23300
DON'T KNOW	230	9	26	23	22	27	34	37	38	6	8	21300
NOT REPORTED	149	3	16	8	28	15	25	26	20	7	2	21000
MEDIAN	72	50-	50-	56	71	75	66	69	97	98	179	...
NOT REPORTED OR DON'T KNOW	409	19	52	30	51	64	60	78	32	17	6	19100
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	473	27	62	52	68	72	46	82	40	12	12	16900
LESS THAN $50	206	19	36	30	38	27	22	22	10	2	-	12400
$50 TO $99	42	2	6	3	3	10	5	9	-	-	3	18300
$100 TO $249	71	-	8	8	8	13	9	13	8	3	1	19400
$250 TO $499	52	3	7	2	4	11	5	9	8	3	1	19700
$500 TO $999	40	-	1	3	4	7	2	11	7	3	2	27600
$1,000 OR MORE	19	-	1	-	4	3	1	7	-	-	3	...
DON'T KNOW	14	2	2	2	1	-	-	5	2	1	-	...
NOT REPORTED	28	1	2	2	6	2	2	6	6	-	2	...
MEDIAN	61	...	50-	50-	50-	88	50-	152	...	...	...	...

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ONLY INSTALLED STORM DOORS	428	16	38	38	61	63	49	85	56	20	2	19900
LESS THAN $50	65	3	6	4	10	10	3	18	10	1	-	19500
$50 TO $99	164	6	21	14	22	27	24	29	14	6	-	18300
$100 TO $249	121	3	8	15	20	16	12	23	15	8	2	19800
$250 TO $499	33	1	-	-	5	3	3	7	13	3	-	...
$500 TO $999	5	-	2	-	-	-	2	2	-	-	-	...
$1,000 OR MORE	4	-	-	-	-	1	-	3	-	1	-	...
DON'T KNOW	12	1	1	3	-	4	2	-	2	1	-	...
NOT REPORTED	24	2	-	2	4	3	4	4	3	1	-	...
MEDIAN	89	...	79	...	91	82	88	89	121	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	439	14	50	25	69	49	74	83	50	17	9	20900
LESS THAN $50	64	4	14	5	12	7	10	4	6	2	-	13600
$50 TO $99	54	-	7	5	7	8	5	9	8	4	1	20200
$100 TO $249	108	2	8	5	17	16	25	18	8	5	3	21200
$250 TO $499	95	5	5	3	11	10	11	26	13	6	4	25700
$500 TO $999	31	-	2	4	6	-	6	9	5	-	-	...
$1,000 OR MORE	22	-	2	2	4	3	6	3	2	-	2	...
DON'T KNOW	36	3	7	2	9	3	3	7	3	-	-	14300
NOT REPORTED	29	-	6	-	4	3	7	7	3	-	-	...
MEDIAN	195	...	81	...	182	167	197	278	239	...	...	...
ALL OCCUPIED HOUSING UNITS	26 286	1 838	4 238	2 831	4 468	3 548	2 830	3 607	1 869	727	331	14700
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	12 093	212	580	725	1 757	1 860	1 874	2 673	1 510	614	287	22400
DRIVES SELF	8 855	130	388	506	1 262	1 336	1 390	1 984	1 135	477	246	22900
CARPOOL	2 406	45	99	142	349	404	393	570	294	92	18	22100
MASS TRANSPORTATION	193	3	20	17	33	25	13	28	27	21	5	19600
BICYCLE, MOTORCYCLE, OR MOPED	113	-	3	7	16	26	21	21	14	2	2	20900
TAXICAB	11	-	5	3	1	-	2	-	-	-	-	...
WALKS ONLY	204	9	28	17	41	28	21	33	15	7	6	16400
OTHER MEANS	36	-	-	5	3	8	5	7	7	-	1	22100
WORKS AT HOME	275	24	37	28	52	33	30	29	19	15	8	14600
RENTER OCCUPIED	5 699	287	811	885	1 427	967	576	517	175	39	15	13000
DRIVES SELF	3 544	129	387	521	912	642	409	374	129	29	12	14000
CARPOOL	1 222	77	189	173	316	223	119	92	25	5	3	12700
MASS TRANSPORTATION	353	30	90	60	85	46	12	18	8	3	-	9800
BICYCLE, MOTORCYCLE, OR MOPED	101	5	20	16	22	14	14	5	3	-	-	11900
TAXICAB	31	5	12	6	3	3	-	2	-	-	-	...
WALKS ONLY	321	28	77	85	61	27	12	22	8	-	-	9000
OTHER MEANS	18	1	3	4	4	2	3	2	-	-	-	...
WORKS AT HOME	109	11	32	20	22	10	7	4	1	2	-	8800
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]												
OWNER OCCUPIED	12 093	212	580	725	1 757	1 860	1 874	2 673	1 510	614	287	22400
HOUSEHOLDER DRIVES ALONE	8 855	130	388	506	1 262	1 336	1 390	1 984	1 135	477	246	22900
IRREGULAR OR UNUSUAL WORK HOURS	2 823	40	99	119	356	374	480	675	394	175	110	24400
IRREGULAR WORK LOCATION	731	14	22	38	105	126	106	154	97	52	16	22800
CAR NEEDED FOR WORK OR ERRANDS	1 500	19	63	68	155	194	225	366	234	115	62	25700
DOESN'T KNOW ANYONE TO RIDE WITH	2 046	34	130	198	361	334	320	397	191	60	21	19500
LIKES PRIVACY	347	3	12	13	53	54	61	72	52	19	8	23200
OUT OF THE WAY TO PICK UP OTHERS	464	6	18	25	81	84	73	110	55	11	1	21300
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	70	-	1	5	6	20	12	17	9	2	-	21500
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	206	2	7	11	31	29	40	41	22	12	10	22900
DOESN'T TRUST OTHERS DRIVING	9	-	2	1	3	2	1	1	1	-	-	...
SOME OTHER REASON	625	10	27	28	100	118	70	145	77	32	19	22100
NOT REPORTED	34	2	8	1	11	3	1	6	3	1	-	...
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	3 238	82	192	219	495	524	484	689	375	137	40	21100
RENTER OCCUPIED	5 699	287	811	885	1 427	967	576	517	175	39	15	13000
HOUSEHOLDER DRIVES ALONE	3 544	129	387	521	912	642	409	374	129	29	12	14000
IRREGULAR OR UNUSUAL WORK HOURS	1 004	41	91	106	259	190	148	115	45	7	3	15200
IRREGULAR WORK LOCATION	239	9	22	32	71	37	30	31	5	3	-	14000
CAR NEEDED FOR WORK OR ERRANDS	519	18	41	77	111	80	67	81	30	8	4	15800
DOESN'T KNOW ANYONE TO RIDE WITH	937	36	146	183	239	145	88	65	24	6	3	12200
LIKES PRIVACY	192	7	21	27	55	44	15	18	1	1	2	13700
OUT OF THE WAY TO PICK UP OTHERS	204	4	30	35	57	44	14	14	6	-	-	12900
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	52	-	-	10	25	5	2	6	3	-	-	13200
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	100	1	11	16	18	27	17	8	2	-	-	15800
DOESN'T TRUST OTHERS DRIVING	4	4	-	-	-	-	-	-	1	-	-	...
SOME OTHER REASON	270	9	23	33	68	69	25	29	11	2	-	15100
NOT REPORTED	24	2	2	3	8	1	2	6	-	-	-	...
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	2 154	158	424	363	515	325	167	144	46	10	3	11300

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	12 093	212	580	725	1 757	1 860	1 874	2 673	1 510	614	287	22400
LESS THAN 1 MILE	745	26	81	62	140	103	98	118	75	26	16	18100
1 TO 4 MILES	2 394	35	124	174	357	410	380	502	255	108	50	21300
5 TO 9 MILES	2 349	37	99	150	367	365	352	499	302	117	61	22200
10 TO 19 MILES	2 708	39	105	128	366	416	454	649	362	135	54	23300
20 TO 29 MILES	1 005	10	28	54	138	143	153	255	149	59	15	24200
30 TO 49 MILES	700	5	15	31	93	109	129	186	96	30	6	23700
50 MILES OR MORE	287	5	8	15	31	37	52	88	36	14	2	24600
WORKS AT HOME	275	24	37	28	52	33	30	29	19	15	8	14600
NO FIXED PLACE OF WORK	1 630	31	84	84	214	244	226	346	216	111	75	23500
MEDIAN	9.2	7.4	6.3	7.3	8.4	8.8	9.7	10.4	10.1	9.7	8.0	...
RENTER OCCUPIED	5 699	287	811	885	1 427	967	576	517	175	39	15	13000
LESS THAN 1 MILE	594	43	117	134	146	64	33	47	5	4	-	10100
1 TO 4 MILES	1 429	72	237	225	335	268	122	123	38	3	6	12700
5 TO 9 MILES	1 239	45	164	187	366	193	137	103	34	8	2	13000
10 TO 19 MILES	1 092	43	121	149	285	198	133	110	46	5	1	14100
20 TO 29 MILES	363	18	36	45	95	73	39	40	17	2	-	14400
30 TO 49 MILES	163	12	13	26	42	32	16	12	6	4	-	13700
50 MILES OR MORE	82	2	8	9	20	21	7	13	1	-	1	15400
WORKS AT HOME	109	11	32	20	22	10	7	4	1	2	-	8800
NO FIXED PLACE OF WORK	627	41	82	89	116	109	81	65	26	11	6	14400
MEDIAN	6.8	5.3	4.9	5.8	7.2	7.4	8.2	7.6	9.5	...	...	...
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	12 093	212	580	725	1 757	1 860	1 874	2 673	1 510	614	287	22400
LESS THAN 15 MINUTES	3 626	64	212	245	558	595	555	763	392	155	87	21200
15 TO 29 MINUTES	3 751	65	169	213	570	574	588	831	485	178	78	22400
30 TO 44 MINUTES	1 637	16	48	96	202	255	265	399	234	95	26	23800
45 TO 59 MINUTES	621	7	15	31	84	88	105	167	86	34	5	24100
1 HOUR TO 1 HOUR AND 29 MINUTES	361	2	9	18	50	45	73	88	52	17	8	23900
1 HOUR AND 30 MINUTES OR MORE	191	2	6	11	27	26	32	50	27	9	1	23600
WORKS AT HOME	275	24	37	28	52	33	30	29	19	15	8	14600
NO FIXED PLACE OF WORK	1 630	31	84	84	214	244	226	346	216	111	75	23500
MEDIAN	20.9	18.3	16.6	19.3	19.9	20.1	21.5	21.9	22.6	22.5	18.0	...
RENTER OCCUPIED	5 699	287	811	885	1 427	967	576	517	175	39	15	13000
LESS THAN 15 MINUTES	1 972	101	307	328	491	354	176	170	36	8	2	12600
15 TO 29 MINUTES	1 839	69	247	271	507	291	212	159	67	8	7	13300
30 TO 44 MINUTES	726	31	92	119	179	127	59	84	30	6	-	13400
45 TO 59 MINUTES	216	13	25	26	60	38	22	15	12	3	-	13600
1 HOUR TO 1 HOUR AND 29 MINUTES	130	13	13	16	36	29	15	8	2	-	-	13300
1 HOUR AND 30 MINUTES OR MORE	80	7	13	16	16	10	4	13	-	-	1	11100
WORKS AT HOME	109	11	32	20	22	10	7	4	1	2	-	8800
NO FIXED PLACE OF WORK	627	41	82	89	116	109	81	65	26	11	6	14400
MEDIAN	19.1	18.5	17.5	18.3	19.5	18.6	19.8	20.1	23.4	...	...	...

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE D-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	14 268	491	1 277	2 051	2 480	2 251	1 544	1 830	1 363	865	117	43700
HOUSE HEATING FUEL												
UTILITY GAS	7 447	275	755	1 170	1 284	1 188	730	878	688	434	44	42000
BOTTLED, TANK, OR LP GAS	888	94	199	194	148	101	49	36	47	16	2	27800
FUEL OIL	1 555	38	128	290	283	203	184	191	120	100	18	41900
KEROSENE, ETC	109	13	31	27	16	8	6	4	1	1	2	23600
ELECTRICITY	3 900	24	100	295	671	707	551	699	495	309	49	52800
COAL OR COKE	44	6	11	6	11	5	3	-	2	-	-	28400
WOOD	263	34	46	55	54	31	18	13	10	2	1	29400
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	5	-	-	-	-	1	2	2	1	-	-	***
NONE	58	6	6	13	13	8	2	7	-	3	1	33400
WATER HEATING FUEL[2]												
UTILITY GAS	6 530	192	636	974	1 108	1 054	657	806	653	402	48	43400
BOTTLED, TANK, OR LP GAS	555	44	123	113	90	75	38	26	31	12	4	29800
FUEL OIL	207	-	4	18	37	26	19	33	30	36	5	60000
KEROSENE, ETC	4	-	-	-	-	-	2	1	1	1	-	***
ELECTRICITY	6 607	124	426	884	1 223	1 076	821	954	636	408	55	46000
COAL OR COKE	1	-	-	-	-	-	1	-	-	-	-	***
WOOD	5	1	-	1	2	-	-	1	1	-	-	***
SOLAR HEAT	15	-	-	-	-	-	2	4	2	3	3	***
OTHER FUEL	2	-	-	-	-	2	-	-	1	-	-	***
NONE	30	10	7	6	4	2	-	-	-	-	1	***
COOKING FUEL												
UTILITY GAS	4 137	223	583	848	793	604	336	330	273	133	13	35200
BOTTLED, TANK, OR LP GAS	869	110	190	181	137	106	45	43	42	12	2	27400
FUEL OIL	8	-	3	-	2	2	-	1	-	-	-	***
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	9 221	149	491	1 015	1 545	1 536	1 162	1 456	1 047	719	101	49200
COAL OR COKE	3	1	-	2	1	-	-	-	-	-	-	***
WOOD	21	8	6	2	2	2	1	-	-	-	-	***
OTHER FUEL	2	-	-	1	-	1	-	-	1	-	-	***
NONE	6	1	4	2	-	-	-	-	-	-	-	***
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	14 257	483	1 276	2 050	2 480	2 250	1 544	1 830	1 363	864	117	43700
LESS THAN $10	66	16	13	18	6	3	-	3	2	6	-	22500
$10 TO $19	693	124	162	159	89	60	48	19	22	7	2	23800
$20 TO $29	1 479	119	277	346	301	182	97	84	58	13	2	30000
$30 TO $39	1 835	97	228	368	352	323	159	155	110	40	3	36400
$40 TO $49	1 851	47	204	295	388	308	195	226	128	52	7	39800
$50 TO $59	1 901	33	149	292	349	331	219	234	185	100	10	43900
$60 TO $79	2 989	28	142	304	523	548	420	487	329	194	15	49100
$80 TO $99	1 439	7	55	151	249	227	190	237	177	139	7	51600
$100 TO $149	1 519	10	40	96	170	226	186	312	252	199	26	61500
$150 OR MORE	485	3	7	20	52	43	29	74	99	114	44	78600
MEDIAN	56	28	37	44	53	57	62	68	70	83	123	***
NO ELECTRICITY USED	10	7	1	1	-	1	-	-	-	1	-	***
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	9 360	404	1 068	1 530	1 604	1 437	881	1 033	840	504	60	40500
LESS THAN $10	563	39	71	88	104	89	45	47	48	32	-	38000
$10 TO $14	788	37	100	188	117	112	73	63	66	29	2	35800
$15 TO $19	802	50	110	160	161	140	55	69	31	24	2	35000
$20 TO $24	1 176	61	159	214	184	156	104	130	108	54	4	38300
$25 TO $29	1 051	46	133	160	206	177	101	104	89	28	7	39000
$30 TO $39	1 861	56	192	310	357	314	195	226	137	66	7	40500
$40 TO $49	1 195	42	131	153	210	177	127	143	137	66	10	43500
$50 TO $69	1 364	52	126	183	210	208	124	175	144	129	14	45300
$70 TO $99	394	13	31	54	38	41	38	51	68	50	11	55300
$100 OR MORE	166	7	14	19	15	23	19	24	13	26	3	52000
MEDIAN	31	26	28	28	31	31	33	34	35	43	47	***
NO GAS USED	4 908	87	210	521	876	814	662	797	523	361	56	49300
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 936	121	247	444	409	364	341	416	326	230	39	46800
LESS THAN $100	748	34	42	56	55	95	101	149	125	76	14	59100
$100 TO $199	500	12	39	59	75	70	62	72	68	42	1	49300
$200 TO $299	308	18	32	70	51	35	27	31	24	17	3	36800
$300 TO $399	274	23	38	55	45	37	25	22	19	6	4	34600
$400 TO $499	247	16	36	60	48	25	20	23	9	9	1	32400
$500 TO $599	238	6	23	57	52	32	24	20	12	11	2	36500
$600 TO $699	214	9	18	36	28	23	26	35	17	17	4	46600
$700 TO $799	103	2	8	19	11	11	15	18	9	9	-	50300
$800 OR MORE	306	2	11	32	45	34	40	46	42	44	11	57300
MEDIAN	271	282	329	366	353	246	225	181	155	190	337	***
FUELS NOT USED OR FREE	11 332	370	1 030	1 607	2 071	1 887	1 203	1 414	1 037	635	77	43100
HEATING EQUIPMENT												
WARM-AIR FURNACE	7 793	60	216	716	1 238	1 429	1 093	1 320	1 012	623	85	52200
HEAT PUMP	706	1	3	10	57	96	91	173	136	120	18	68200
STEAM OR HOT WATER	437	3	17	46	62	49	51	70	67	66	4	58000
BUILT-IN ELECTRIC UNITS	1 091	9	48	149	303	232	127	131	66	23	3	41600
FLOOR, WALL, OR PIPELESS FURNACE	1 281	25	215	418	338	174	52	28	20	9	-	29600
ROOM HEATERS WITH FLUE	887	108	213	272	159	69	29	19	18	2	-	24500
ROOM HEATERS WITHOUT FLUE	1 295	198	431	285	167	104	34	42	21	10	2	20600
FIREPLACES, STOVES, OR PORTABLE HEATERS	721	81	128	141	142	91	64	40	23	8	3	30800
NONE	58	6	6	13	13	8	2	7	-	3	1	33400

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE D-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	14 210	485	1 272	2 038	2 467	2 243	1 542	1 822	1 363	862	116	43800
WITH FIREPLACE OR HEATING STOVE	6 316	174	404	525	713	818	805	1 093	980	704	101	56500
IN WORKING ORDER	5 917	150	342	451	641	761	766	1 062	951	695	98	58000
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	4 521	89	178	272	425	564	616	913	808	570	85	61900
ALL PURCHASED	1 511	41	52	86	98	171	183	325	314	212	28	65700
SOME OR NONE PURCHASED	2 935	45	122	183	321	383	416	579	479	351	56	59900
NOT REPORTED	75	3	4	3	7	10	17	9	15	7	1	56600
COAL	89	11	17	23	13	8	7	2	3	-	4	27000
OTHER FUEL	588	41	96	94	99	91	47	49	43	24	3	36300
NONE	690	8	51	61	98	96	96	88	91	96	6	53200
NOT REPORTED	29	-	1	-	5	1	1	10	6	5	1	...
NOT IN WORKING ORDER	382	24	61	74	70	56	38	28	26	3	2	34600
NOT REPORTED	17	1	1	1	2	1	1	3	3	6	-	...
WITHOUT FIREPLACE OR HEATING STOVE	7 864	309	867	1 504	1 750	1 424	735	726	378	154	16	37100
NOT REPORTED	30	2	-	9	4	2	2	3	5	3	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	58	6	6	13	13	8	2	7	-	3	1	33400
SPECIFIED OWNER OCCUPIED[1]	14 268	491	1 277	2 051	2 480	2 251	1 544	1 830	1 363	865	117	43700
UNITS OCCUPIED LAST WINTER	13 515	473	1 246	2 003	2 362	2 150	1 454	1 689	1 247	781	110	43100
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	11 519	201	702	1 573	2 054	1 955	1 355	1 608	1 208	760	104	46300
NO ADDITIONAL HEAT SOURCE USED	10 477	147	593	1 395	1 855	1 791	1 281	1 489	1 121	708	97	47000
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	801	31	87	140	162	124	62	89	60	41	5	38800
NOT REPORTED	241	23	22	38	38	40	12	30	27	11	2	40000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 996	273	543	431	307	194	99	81	39	21	6	24200
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	11 519	201	702	1 573	2 054	1 955	1 355	1 608	1 208	760	104	46300
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 759	71	295	889	1 447	1 583	1 160	1 445	1 076	701	94	50800
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 493	107	383	643	567	328	177	130	102	51	7	32000
1 ROOM	626	15	57	108	129	79	80	51	69	36	2	40500
2 ROOMS	537	36	102	148	114	63	27	28	13	5	1	28800
3 ROOMS OR MORE	1 329	56	223	387	323	186	70	51	20	9	4	30000
NOT REPORTED	268	23	25	41	40	45	17	33	30	9	3	40900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 996	273	543	431	307	194	99	81	39	21	6	24200
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	11 519	201	702	1 573	2 054	1 955	1 355	1 608	1 208	760	104	46300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 996	273	543	431	307	194	99	81	39	21	6	24200
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 667	208	437	361	274	172	89	70	37	15	5	25200
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	224	57	78	37	22	10	2	9	2	6	1	17000
NOT REPORTED	105	8	28	32	12	12	9	2	1	-	1	25400
SPECIFIED OWNER OCCUPIED[1]	14 268	491	1 277	2 051	2 480	2 251	1 544	1 830	1 363	865	117	43700
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	779	86	134	154	155	98	66	47	23	11	4	31000
WITH SELECTED HEATING EQUIPMENT[3]	13 489	404	1 144	1 897	2 325	2 153	1 477	1 782	1 340	854	113	44500
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	12 346	387	1 056	1 754	2 115	1 976	1 349	1 631	1 220	758	100	44400
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 117	14	86	134	207	174	127	149	118	94	12	46700
SOLAR HEATING EQUIPMENT	6	-	-	-	1	2	-	-	4	-	-	...
STOVE, BURNING WOOD OR COAL	347	3	18	31	61	65	45	60	44	17	3	49300
FIREPLACE, BURNING WOOD OR COAL	191	-	4	10	28	33	24	37	28	25	2	58700
PORTABLE ELECTRIC HEATER	418	10	45	64	86	62	40	45	27	33	4	40600
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	96	2	17	20	22	9	7	4	7	5	3	34400
OTHER	102	-	6	14	13	12	11	11	15	17	2	55000
NOT REPORTED	26	3	2	8	3	2	2	2	3	2	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 738	359	1 177	1 957	2 431	2 211	1 519	1 797	1 330	846	111	44300
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	65	-	2	8	7	8	14	6	12	7	1	55200
NOT REPORTED	108	2	10	25	20	14	4	16	10	6	-	38400
AIR CONDITIONING												
WITH AIR CONDITIONING	11 680	181	761	1 478	2 033	1 935	1 382	1 686	1 275	838	110	47200
ROOM UNITS	5 141	166	669	1 171	1 285	806	384	350	188	107	15	34400
1	2 852	130	472	725	737	368	169	147	74	23	8	31300
2	1 623	35	159	353	419	316	133	117	55	35	2	36300
3	498	1	35	86	100	97	64	59	27	27	2	42800
4	119	-	2	6	24	18	16	21	18	14	-	55400
5 OR MORE	49	-	1	-	5	7	2	7	14	9	3	79100
CENTRAL SYSTEM	6 538	15	92	307	748	1 128	999	1 335	1 087	731	95	59800
WITH NO AIR CONDITIONING	2 588	310	516	573	447	316	161	144	88	26	6	28200

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	6 938	15	92	307	748	1 128	999	1 335	1 087	731	95	59800
WITH SUPPLEMENTAL EQUIPMENT USED	3 495	6	35	129	344	536	525	733	643	484	59	63500
INDIVIDUAL ROOM AIR CONDITIONING UNIT	163	-	10	8	11	30	20	25	33	23	3	61400
AWNINGS	240	1	2	23	28	48	38	39	36	24	2	54900
DEHUMIDIFIER	307	-	2	6	10	32	31	50	77	92	9	82800
CEILING FAN	894	1	4	21	49	101	124	219	173	171	33	70200
ATTIC FAN	1 047	2	2	20	98	108	165	219	226	187	22	68900
WINDOW FAN	240	2	2	3	23	42	33	58	49	29	-	64200
PORTABLE FAN	1 788	2	22	82	192	322	280	371	312	191	14	59800
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 955	8	53	172	393	581	456	580	436	240	36	55900
NOT REPORTED	89	1	3	6	12	11	18	23	8	6	1	56300
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 729	476	1 186	1 743	1 732	1 123	545	494	276	134	21	32700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	5 095	78	270	619	872	849	636	761	583	386	40	48300
SOME WINDOWS COVERED	1 655	60	142	222	279	262	178	202	178	120	12	44700
NO WINDOWS COVERED	7 478	351	863	1 206	1 326	1 135	725	856	597	355	64	39900
NOT REPORTED	40	2	2	4	3	5	5	11	4	3	1	58500
STORM DOORS												
ALL DOORS COVERED	4 832	83	319	717	997	829	595	598	432	241	18	43600
SOME DOORS COVERED	2 675	79	221	387	464	463	298	347	254	145	16	44000
NO DOORS COVERED	6 709	327	733	940	1 012	953	645	873	672	472	82	43600
NOT REPORTED	52	2	5	6	7	5	5	11	4	7	1	52700
ATTIC OR ROOF INSULATION												
YES	11 621	168	664	1 453	2 072	1 986	1 405	1 667	1 289	813	106	47300
NO	2 133	289	511	501	308	204	108	114	55	37	6	25300
DON'T KNOW	453	30	94	92	94	54	23	36	15	11	4	31100
NOT REPORTED	62	4	9	5	6	7	8	13	5	3	-	49000
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	7 478	351	863	1 206	1 326	1 135	725	856	597	355	64	39900
SOME OR ALL WINDOWS COVERED	6 750	138	413	841	1 151	1 110	814	963	762	506	52	47500
NONE INSTALLED	5 718	100	323	720	968	958	671	827	672	433	46	47800
SOME OR ALL INSTALLED	1 010	36	88	120	183	147	139	135	87	70	6	45300
NOT REPORTED	22	2	2	1	-	6	5	2	3	3	-	...
NOT REPORTED	40	2	2	4	3	5	5	11	4	3	1	58500
STORM DOORS:												
NO DOORS COVERED	6 709	327	733	940	1 012	953	645	873	672	472	82	43600
SOME OR ALL DOORS COVERED	7 507	162	540	1 105	1 462	1 293	894	945	687	386	34	43800
NONE INSTALLED	6 528	141	473	987	1 283	1 151	756	795	593	322	27	43300
SOME OR ALL INSTALLED	905	21	59	105	166	130	129	139	89	60	6	47800
NOT REPORTED	73	-	7	12	13	12	9	12	4	4	1	43800
NOT REPORTED	52	2	5	6	7	5	5	11	4	7	1	52700
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	2 133	289	511	501	308	204	108	114	55	37	6	25300
WITH ATTIC OR ROOF INSULATION	11 621	168	664	1 453	2 072	1 986	1 405	1 667	1 289	813	106	47300
NONE ADDED OR INSTALLED	10 521	140	591	1 331	1 886	1 833	1 247	1 495	1 162	733	104	47200
SOME OR ALL ADDED OR INSTALLED	1 016	26	70	117	179	140	142	158	109	72	3	48300
NOT REPORTED	83	2	3	5	7	14	15	13	17	8	-	58100
DON'T KNOW	453	30	94	92	94	54	23	36	15	11	4	31100
NOT REPORTED	62	4	9	5	6	7	8	13	5	3	-	49000
WALL INSULATION:												
NONE ADDED OR INSTALLED	13 643	474	1 228	1 979	2 378	2 158	1 472	1 720	1 303	818	112	43500
SOME OR ALL ADDED OR INSTALLED	552	15	47	60	92	83	61	94	55	41	4	47500
NOT REPORTED	73	2	2	11	10	10	10	16	5	6	1	51600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	11 956	466	1 154	1 828	2 135	1 839	1 244	1 459	1 057	675	99	42100
SOME OR ALL ADDED OR INSTALLED	2 235	22	121	212	335	400	289	354	301	184	17	50900
NOT REPORTED	78	3	2	11	10	12	11	17	5	6	1	50800
OTHER INSULATION:												
NONE ADDED OR INSTALLED	13 385	477	1 220	1 953	2 346	2 129	1 432	1 688	1 236	792	113	43300
SOME OR ALL ADDED OR INSTALLED	826	14	55	87	125	116	108	127	122	69	3	51400
NOT REPORTED	57	-	2	11	10	6	4	15	5	3	1	49000
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	10 025	399	986	1 574	1 789	1 545	1 012	1 207	870	556	89	41700
WITH INSULATION ADDED OR INSTALLED	3 927	84	278	428	646	647	498	577	454	289	26	48200
LESS THAN $50	1 532	42	122	169	255	285	171	207	188	90	3	46200
$50 TO $99	497	20	43	43	84	91	62	78	45	29	3	46500
$100 TO $249	602	10	44	72	97	90	74	87	65	56	7	48600
$250 TO $499	461	6	33	52	83	63	58	69	52	42	3	49000
$500 TO $999	191	1	3	20	30	34	37	31	20	15	-	52000
$1,000 OR MORE	310	1	13	29	51	33	51	46	50	33	3	55600
DON'T KNOW	206	3	13	28	27	27	20	38	27	17	6	51800
NOT REPORTED	127	2	7	14	18	24	25	22	7	8	1	49500
MEDIAN	76	50-	57	77	77	57	94	83	74	136	...	...
NOT REPORTED OR DON'T KNOW	316	7	14	49	46	59	33	46	39	20	3	47100

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE D-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	349	19	42	44	65	58	40	41	20	17	3	40700
LESS THAN $50	134	17	29	19	27	13	8	11	9	2	-	30700
$50 TO $99	30	1	3	3	3	6	5	7	1	2	-	...
$100 TO $249	56	1	5	10	10	12	4	6	2	6	1	42100
$250 TO $499	44	-	2	6	10	9	3	5	5	2	2	45100
$500 TO $999	33	-	-	3	4	6	12	4	1	2	-	...
$1,000 OR MORE	18	-	-	-	6	4	2	1	1	4	-	...
DON'T KNOW	14	-	2	1	3	4	3	-	-	-	-	...
NOT REPORTED	21	1	1	2	3	3	2	7	2	-	-	...
MEDIAN	88	...	50	77	104	181	...	...	...	...	...	...
ONLY INSTALLED STORM DOORS	381	11	24	52	79	59	39	62	36	16	2	44100
LESS THAN $50	60	3	3	5	21	13	2	10	3	-	-	39000
$50 TO $99	144	7	12	23	33	25	13	19	8	3	-	38900
$100 TO $249	103	1	5	12	14	12	12	25	15	5	2	56100
$250 TO $499	33	-	-	4	2	5	5	4	6	5	1	...
$500 TO $999	5	-	-	2	-	-	2	-	2	-	-	...
$1,000 OR MORE	4	-	-	-	-	1	2	-	1	1	-	...
DON'T KNOW	11	-	2	5	2	-	1	2	1	-	-	...
NOT REPORTED	22	-	2	2	8	2	2	3	1	1	-	...
MEDIAN	89	...	...	89	71	79	131	102	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	381	12	44	47	64	57	40	57	37	22	1	44200
LESS THAN $50	53	4	10	11	10	3	5	7	-	1	-	30600
$50 TO $99	50	3	1	7	13	7	2	8	4	4	-	41300
$100 TO $249	94	3	13	10	9	17	8	11	13	9	-	47100
$250 TO $499	81	2	12	12	9	13	9	13	8	3	-	44500
$500 TO $999	26	-	2	2	9	6	-	4	4	-	-	...
$1,000 OR MORE	21	-	2	2	5	-	7	1	3	2	-	...
DON'T KNOW	32	-	4	3	7	4	4	6	5	1	-	...
NOT REPORTED	24	-	-	2	2	7	4	7	-	2	1	...
MEDIAN	195	...	201	154	169	214	...	187	...	...	-	...

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE D-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]	8 018	834	890	1 219	1 411	1 252	799	422	427	221	542	228
HOUSE HEATING FUEL												
UTILITY GAS	3 810	500	560	711	668	491	290	144	153	81	213	202
BOTTLED, TANK, OR LP GAS	416	46	65	77	64	37	19	6	12	4	86	184
FUEL OIL	756	50	87	144	168	111	53	45	31	14	53	220
KEROSENE, ETC	70	11	15	10	20	2	2	-	-	-	10	167
ELECTRICITY	2 603	122	95	223	448	591	424	223	228	121	128	279
COAL OR COKE	34	12	5	8	1	-	-	-	-	-	7	...
WOOD	177	69	35	17	13	5	-	-	-	2	37	101
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	2	2	-	1	-	-	-	-	-	-	...
NONE	148	21	27	30	30	15	10	5	3	-	8	187
WATER HEATING FUEL[2]												
UTILITY GAS	3 593	455	475	652	612	511	300	149	175	89	173	210
BOTTLED, TANK, OR LP GAS	213	12	39	45	37	18	8	5	6	2	43	188
FUEL OIL	196	12	11	34	42	38	19	20	10	4	5	245
KEROSENE, ETC	5	1	1	-	3	1	-	-	-	-	-	...
ELECTRICITY	3 597	177	287	452	698	674	469	240	236	118	247	254
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	-	-	-	-	-	-	-	-	-	-	-	-
SOLAR HEAT	3	2	2	-	-	-	-	-	-	-	-	...
OTHER FUEL	12	2	-	3	-	2	2	3	-	-	-	...
NONE	38	11	5	10	4	1	-	-	-	3	5	...
COOKING FUEL												
UTILITY GAS	3 360	479	498	654	595	457	226	130	130	50	141	197
BOTTLED, TANK, OR LP GAS	485	67	80	87	74	42	22	8	5	2	97	176
FUEL OIL	16	2	4	-	2	5	-	2	-	-	-	...
KEROSENE, ETC	5	2	2	-	1	-	-	-	-	-	1	...
ELECTRICITY	4 098	260	295	473	737	746	551	282	292	169	294	259
COAL OR COKE	1	1	-	-	-	-	-	-	-	-	-	...
WOOD	23	16	-	-	-	-	-	-	-	-	6	...
OTHER FUEL	2	-	1	-	-	1	-	-	-	-	1	...
NONE	28	7	11	5	2	1	-	-	-	-	2	...
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	6 530	574	739	1 030	1 182	991	672	335	381	203	421	229
LESS THAN $10	209	96	40	28	21	10	-	2	-	-	12	103
$10 TO $19	931	250	193	183	141	58	16	11	10	2	68	146
$20 TO $29	1 226	117	204	273	242	166	74	22	21	13	93	194
$30 TO $39	1 116	69	157	222	281	171	79	37	19	10	72	213
$40 TO $49	847	20	90	139	168	180	91	47	36	22	55	243
$50 TO $59	752	10	38	93	151	164	126	61	58	10	40	269
$60 TO $79	776	9	13	73	119	147	169	82	97	33	34	303
$80 TO $99	332	2	2	13	41	54	70	37	56	30	27	329
$100 TO $149	278	-	2	6	20	36	45	34	64	57	15	384
$150 OR MORE	62	-	-	-	-	5	3	3	20	27	5	490
MEDIAN	37	17	26	31	36	45	55	57	69	88	35	...
INCLUDED IN RENT	1 480	258	149	188	229	258	127	87	46	18	120	218
NO ELECTRICITY USED	8	3	2	2	-	2	-	-	-	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	3 447	327	509	705	630	404	237	117	168	97	253	204
LESS THAN $10	590	94	77	123	121	73	25	16	18	8	36	192
$10 TO $14	469	71	101	89	76	38	28	19	18	7	23	178
$15 TO $19	410	57	80	70	65	40	28	9	18	9	34	185
$20 TO $24	438	48	72	97	64	36	29	13	25	13	42	189
$25 TO $29	338	27	49	64	73	52	22	4	15	9	24	211
$30 TO $39	506	24	65	101	100	72	44	23	22	12	44	221
$40 TO $49	286	2	39	77	49	37	18	16	20	13	15	217
$50 TO $69	269	3	21	65	57	35	23	12	14	15	24	229
$70 TO $99	98	-	5	17	16	12	14	5	14	7	7	280
$100 OR MORE	42	-	1	2	9	9	8	1	5	4	3	294
MEDIAN	22	14	19	23	23	26	27	28	27	33	23	...
INCLUDED IN RENT	2 264	361	240	269	371	393	230	128	92	24	156	224
NO GAS USED	2 307	147	141	245	410	455	333	177	167	100	133	266
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	796	109	113	127	132	75	47	34	40	26	93	201
LESS THAN $100	154	39	20	10	15	8	11	11	15	10	16	202
$100 TO $199	135	31	19	13	19	8	6	4	11	7	17	183
$200 TO $299	120	18	18	24	14	15	5	2	3	1	20	178
$300 TO $399	114	12	20	20	25	11	7	4	3	-	13	196
$400 TO $499	89	4	16	28	15	11	3	3	-	2	7	186
$500 TO $599	65	4	12	16	16	7	2	2	2	2	3	196
$600 TO $699	41	1	6	8	12	2	5	-	2	2	4	213
$700 TO $799	22	-	1	5	5	3	3	2	-	-	3	...
$800 OR MORE	56	-	1	3	11	11	6	6	5	3	11	286
MEDIAN	290	149	297	379	370	364	328	...	144	...	269	...
INCLUDED IN RENT	964	104	104	139	183	155	99	65	45	17	52	229
FUELS NOT USED OR FREE	6 258	621	673	954	1 096	1 021	653	324	342	178	396	231
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 607	175	150	339	618	811	574	288	318	153	181	276
HEAT PUMP	223	8	4	10	28	33	27	35	34	30	12	339
STEAM OR HOT WATER	474	48	47	86	112	85	32	20	14	14	16	221
BUILT-IN ELECTRIC UNITS	631	43	55	114	155	103	51	28	20	12	50	225
FLOOR, WALL, OR PIPELESS FURNACE	724	103	91	170	164	61	43	29	18	6	38	193
ROOM HEATERS WITH FLUE	679	116	166	151	119	42	17	4	4	2	50	159
ROOM HEATERS WITHOUT FLUE	1 093	199	266	243	148	72	38	12	10	2	103	156
FIREPLACES, STOVES, OR PORTABLE HEATERS	439	121	84	77	36	30	8	2	6	2	74	136
NONE	148	21	27	30	30	15	10	5	3	-	8	187

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE D-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	7 869	813	863	1 190	1 381	1 237	790	418	424	221	534	228
WITH FIREPLACE OR HEATING STOVE	1 346	176	188	200	153	108	75	88	82	98	178	206
IN WORKING ORDER	1 128	146	152	151	120	86	63	78	80	94	159	215
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	636	90	73	40	60	51	40	39	60	70	113	247
ALL PURCHASED	248	42	34	20	16	10	20	14	29	32	29	238
SOME OR NONE PURCHASED	353	46	36	18	44	35	20	22	25	27	79	240
NOT REPORTED	34	2	2	2	-	5	-	3	5	10	5	...
COAL	41	12	7	10	2	1	-	-	2	-	8	...
OTHER FUEL	254	32	58	70	43	14	5	4	4	2	22	168
NONE	183	11	13	29	9	20	18	33	13	23	15	306
NOT REPORTED	14	1	1	1	5	2	1	2	1	-	1	...
NOT IN WORKING ORDER	208	28	37	47	30	20	12	9	2	5	19	181
NOT REPORTED	10	2	-	2	3	2	-	2	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	6 505	632	674	990	1 222	1 124	713	329	342	123	356	231
NOT REPORTED	19	4	2	-	5	6	2	-	-	-	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	148	21	27	30	30	15	10	5	3	-	8	187
SPECIFIED RENTER OCCUPIED[1]	8 018	834	890	1 219	1 411	1 252	799	422	427	221	542	228
UNITS OCCUPIED LAST WINTER	5 283	716	690	851	829	753	452	233	212	115	432	210
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	4 044	425	400	606	698	686	415	220	205	112	277	232
NO ADDITIONAL HEAT SOURCE USED	3 452	366	337	500	580	594	366	199	173	95	243	234
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	451	39	51	75	98	74	34	16	22	14	27	223
NOT REPORTED	141	21	12	30	20	18	14	5	10	3	8	209
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 238	291	289	245	131	67	37	13	7	3	154	143
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	4 044	425	400	606	698	686	415	220	205	112	277	232
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 874	264	214	354	486	563	349	187	167	101	187	252
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 023	140	171	222	190	105	51	27	27	8	81	185
1 ROOM	240	32	37	50	27	31	22	10	12	4	16	193
2 ROOMS	305	50	67	64	51	26	10	7	9	-	20	169
3 ROOMS OR MORE	477	57	67	109	112	48	19	10	6	4	45	191
NOT REPORTED	148	21	15	29	21	18	14	6	10	3	10	208
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 238	291	289	245	131	67	37	13	7	3	154	143
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	4 044	425	400	606	698	686	415	220	205	112	277	232
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 238	291	289	245	131	67	37	13	7	3	154	143
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	938	218	217	181	100	60	32	8	6	2	115	144
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	239	52	62	57	20	4	5	5	2	2	31	141
NOT REPORTED	61	20	11	7	11	3	1	-	-	-	8	128
SPECIFIED RENTER OCCUPIED[1]	8 018	834	890	1 219	1 411	1 252	799	422	427	221	542	228
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	142	110	107	66	45	18	6	9	2	83	149
WITH SELECTED HEATING EQUIPMENT[3]	7 431	692	780	1 113	1 345	1 207	781	416	418	219	459	233
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 016	662	740	1 039	1 260	1 140	743	408	398	202	423	233
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	392	27	38	73	79	61	38	8	15	17	36	225
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	30	2	3	10	5	4	1	1	1	-	4	...
FIREPLACE, BURNING WOOD OR COAL	22	-	1	2	2	4	1	1	5	4	3	...
PORTABLE ELECTRIC HEATER	283	18	28	50	61	48	30	6	9	8	24	226
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	53	8	2	15	12	5	5	-	-	-	5	193
OTHER	13	-	3	1	-	-	2	-	-	7	1	...
NOT REPORTED	22	2	2	-	6	6	-	-	5	-	1	...
AIR CONDITIONING												
WITH AIR CONDITIONING	5 594	293	389	701	1 046	1 101	737	392	398	211	326	259
ROOM UNITS	2 593	193	338	550	568	350	200	88	74	29	201	210
1	1 912	167	292	432	448	217	121	46	32	7	149	198
2	553	20	39	103	104	110	68	30	33	10	35	245
3	91	1	6	10	9	17	11	11	9	8	10	294
4	24	3	-	3	5	7	-	-	-	2	4	...
5 OR MORE	13	2	1	2	2	-	-	2	-	2	3	...
CENTRAL SYSTEM	3 001	100	51	151	478	750	537	303	323	182	125	293
WITH NO AIR CONDITIONING	2 424	541	501	518	365	151	62	31	29	10	216	156

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE D-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 001	100	51	151	478	750	537	303	323	182	125	293
WITH SUPPLEMENTAL EQUIPMENT USED	819	10	17	46	136	185	126	91	107	60	41	298
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	-	1	2	2	3	6	3	4	2	-	...
AWNINGS	15	-	-	1	1	1	2	3	-	-	7	...
DEHUMIDIFIER	13	-	-	2	-	1	-	-	2	7	1	...
CEILING FAN	37	-	-	-	9	8	3	3	5	4	5	...
ATTIC FAN	48	1	-	2	6	4	5	3	10	8	11	373
WINDOW FAN	90	2	1	7	23	23	12	12	5	4	2	275
PORTABLE FAN	655	7	16	38	109	147	110	72	92	41	23	298
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 138	84	34	103	336	550	406	208	215	122	80	292
NOT REPORTED	43	6	-	2	6	15	4	4	2	-	4	266
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 017	734	839	1 068	933	501	263	119	104	59	417	183
SPECIFIED RENTER OCCUPIED[1]	8 018	834	890	1 219	1 411	1 252	799	422	427	221	542	228
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 639	350	500	603	586	407	245	136	213	133	466	211
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	688	37	62	97	87	95	55	38	48	41	129	247
SOME WINDOWS COVERED	243	18	26	45	35	19	14	17	17	11	40	217
NO WINDOWS COVERED	2 557	276	392	438	428	276	161	78	135	81	292	203
NOT REPORTED	151	18	20	23	36	17	15	4	13	-	5	216
STORM DOORS												
ALL DOORS COVERED	545	24	35	88	79	79	47	41	36	23	92	249
SOME DOORS COVERED	364	20	40	55	53	50	32	17	31	10	57	236
NO DOORS COVERED	2 578	291	405	436	414	261	151	75	133	99	313	200
NOT REPORTED	152	16	20	23	39	17	15	4	13	-	5	218
ATTIC OR ROOF INSULATION												
YES	1 397	55	116	163	239	170	116	74	126	91	247	251
NO	1 254	224	260	260	168	78	48	13	33	10	159	162
DON'T KNOW	835	54	103	156	143	143	65	45	41	31	55	227
NOT REPORTED	153	16	21	25	36	17	15	4	13	-	5	215

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	26 286	19 581	1 941	1 112	988	927	1 737
HOUSE HEATING FUEL							
OWNER OCCUPIED	17 948	16 004	324	52	60	153	1 355
UTILITY GAS	8 404	7 854	154	11	12	15	358
BOTTLED, TANK, OR LP GAS	1 788	1 338	7	1	-	-	443
FUEL OIL	1 976	1 767	39	5	3	8	153
KEROSENE, ETC	169	128	3	-	-	-	38
ELECTRICITY	4 989	4 331	118	35	45	129	331
COAL OR COKE	75	74	-	-	-	-	1
WOOD	475	446	1	-	-	-	27
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	8	8	-	-	-	-	-
NONE	66	59	2	-	-	-	5
RENTER OCCUPIED	8 338	3 577	1 616	1 060	928	774	383
UTILITY GAS	3 886	1 915	883	405	372	203	109
BOTTLED, TANK, OR LP GAS	516	357	34	2	-	-	124
FUEL OIL	788	356	137	77	45	111	63
KEROSENE, ETC	77	58	9	1	-	-	9
ELECTRICITY	2 626	551	514	548	495	442	75
COAL OR COKE	47	42	3	-	-	2	-
WOOD	244	239	2	-	2	-	2
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	5	1	-	2	-	2	-
NONE	149	59	34	25	15	15	2
WATER HEATING FUEL[1]							
OWNER OCCUPIED	17 462	15 566	318	52	60	153	1 314
UTILITY GAS	7 141	6 774	139	16	12	12	189
BOTTLED, TANK, OR LP GAS	1 065	895	3	-	-	1	165
FUEL OIL	260	230	9	6	2	11	2
KEROSENE, ETC	6	4	-	-	1	-	1
ELECTRICITY	8 902	7 589	164	30	45	123	951
COAL OR COKE	1	1	-	-	-	-	-
WOOD	5	5	-	-	-	-	-
SOLAR HEAT	18	16	2	-	-	-	-
OTHER FUEL	6	4	-	-	-	2	1
NONE	58	47	-	-	-	5	6
RENTER OCCUPIED	7 889	3 174	1 587	1 057	925	772	375
UTILITY GAS	3 631	1 636	821	453	403	262	56
BOTTLED, TANK, OR LP GAS	278	196	19	11	2	-	49
FUEL OIL	200	37	39	30	42	51	1
KEROSENE, ETC	5	3	2	-	-	-	-
ELECTRICITY	3 713	1 279	701	551	474	445	264
COAL OR COKE	-	-	-	-	-	-	-
WOOD	1	1	-	-	-	-	-
SOLAR HEAT	3	-	-	3	-	-	-
OTHER FUEL	12	-	3	-	-	8	-
NONE	46	23	2	8	3	5	5
COOKING FUEL							
OWNER OCCUPIED	17 948	16 004	324	52	60	153	1 355
UTILITY GAS	4 794	4 335	107	11	12	17	312
BOTTLED, TANK, OR LP GAS	1 788	1 242	9	1	-	-	536
FUEL OIL	11	11	-	-	-	-	1
KEROSENE, ETC	2	1	-	-	-	-	1
ELECTRICITY	11 285	10 354	207	40	48	135	501
COAL OR COKE	4	4	-	-	-	-	-
WOOD	48	48	-	-	-	-	-
OTHER FUEL	6	3	-	-	-	2	1
NONE	10	7	1	-	-	-	3
RENTER OCCUPIED	8 338	3 577	1 616	1 060	928	774	383
UTILITY GAS	3 402	1 460	766	413	377	271	115
BOTTLED, TANK, OR LP GAS	595	390	33	9	2	-	161
FUEL OIL	16	4	2	2	6	2	1
KEROSENE, ETC	8	5	2	-	-	-	1
ELECTRICITY	4 246	1 668	811	625	539	498	105
COAL OR COKE	1	1	-	-	-	-	-
WOOD	35	35	-	-	-	-	-
OTHER FUEL	2	1	-	1	-	-	-
NONE	32	13	2	11	4	2	-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	14 268	14 268	...	...	...	...	...
ELECTRICITY PAID FOR	14 257	14 257	...	...	...	...	...
LESS THAN $10	66	66	...	...	...	...	...
$10 TO $19	693	693	...	...	...	...	...
$20 TO $29	1 479	1 479	...	...	...	...	...
$30 TO $39	1 835	1 835	...	...	...	...	...
$40 TO $49	1 851	1 851	...	...	...	...	...
$50 TO $59	1 901	1 901	...	...	...	...	...
$60 TO $79	2 989	2 989	...	...	...	...	...
$80 TO $99	1 439	1 439	...	...	...	...	...
$100 TO $149	1 519	1 519	...	...	...	...	...
$150 OR MORE	485	485	...	...	...	...	...
MEDIAN	56	56	...	...	...	...	...
NO ELECTRICITY USED	10	10	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	8 018	3 256	1 616	1 060	928	774	383
ELECTRICITY PAID FOR	6 530	3 042	1 342	726	660	423	337
LESS THAN $10	209	73	72	32	7	18	7
$10 TO $19	931	424	236	98	83	45	45
$20 TO $29	1 226	608	246	118	127	82	45
$30 TO $39	1 116	490	215	130	130	84	67
$40 TO $49	847	433	135	87	108	47	38
$50 TO $59	752	314	151	91	96	54	46
$60 TO $79	776	352	172	96	59	63	33
$80 TO $99	332	156	63	34	29	19	32
$100 TO $149	278	153	40	36	21	7	21
$150 OR MORE	62	39	12	5	-	3	4
MEDIAN	37	38	35	38	38	37	41
INCLUDED IN RENT	1 480	213	275	332	267	349	46
NO ELECTRICITY USED	8	2	-	2	2	2	-
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	14 268	14 268	...	...	...	...	...
GAS PAID FOR	9 360	9 360	...	...	...	...	...
LESS THAN $10	563	563	...	...	...	...	...
$10 TO $14	788	788	...	...	...	...	...
$15 TO $19	802	802	...	...	...	...	...
$20 TO $24	1 176	1 176	...	...	...	...	...
$25 TO $29	1 051	1 051	...	...	...	...	...
$30 TO $39	1 861	1 861	...	...	...	...	...
$40 TO $49	1 195	1 195	...	...	...	...	...
$50 TO $69	1 364	1 364	...	...	...	...	...
$70 TO $99	394	394	...	...	...	...	...
$100 OR MORE	166	166	...	...	...	...	...
MEDIAN	31	31	...	...	...	...	...
NO GAS USED	4 908	4 908	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	8 018	3 256	1 616	1 060	928	774	383
GAS PAID FOR	3 447	2 145	684	192	148	43	235
LESS THAN $10	590	258	155	66	43	20	49
$10 TO $14	469	265	100	23	21	12	49
$15 TO $19	410	240	87	41	18	-	24
$20 TO $24	438	266	102	19	20	3	28
$25 TO $29	338	226	57	17	10	4	24
$30 TO $39	506	367	74	15	19	2	30
$40 TO $49	286	212	47	8	8	2	9
$50 TO $69	269	204	45	1	8	-	11
$70 TO $99	98	76	13	2	-	-	7
$100 OR MORE	42	32	5	-	2	-	4
MEDIAN	22	26	20	16	17	11	18
INCLUDED IN RENT	2 264	407	473	450	445	399	91
NO GAS USED	2 307	705	460	419	335	331	57

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	14 268	14 268	...	...	...	...	...
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 936	2 936	...	...	...	...	...
LESS THAN $100	748	748	...	...	...	...	...
$100 TO $199	500	500	...	...	...	...	...
$200 TO $299	308	308	...	...	...	...	...
$300 TO $399	274	274	...	...	...	...	...
$400 TO $499	247	247	...	...	...	...	...
$500 TO $599	238	238	...	...	...	...	...
$600 TO $699	214	214	...	...	...	...	...
$700 TO $799	103	103	...	...	...	...	...
$800 OR MORE	306	306	...	...	...	...	...
MEDIAN	271	271	...	...	...	...	...
FUELS NOT USED OR FREE	11 332	11 332	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	8 018	3 256	1 616	1 060	928	774	383
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	796	624	83	15	5	4	66
LESS THAN $100	154	127	13	5	3	2	3
$100 TO $199	135	95	20	9	2	2	7
$200 TO $299	120	90	14	1	-	-	16
$300 TO $399	114	87	12	-	-	-	15
$400 TO $499	89	72	3	-	-	-	14
$500 TO $599	65	53	9	-	-	-	4
$600 TO $699	41	29	7	-	-	-	5
$700 TO $799	22	20	2	-	-	-	-
$800 OR MORE	56	52	2	-	-	-	3
MEDIAN	290	299	257	...	...	...	348
INCLUDED IN RENT	964	218	194	162	157	191	42
FUELS NOT USED OR FREE	6 258	2 415	1 340	883	766	579	275
ALL OCCUPIED HOUSING UNITS	26 286	19 581	1 941	1 112	988	927	1 737
HEATING EQUIPMENT							
OWNER OCCUPIED	17 948	16 004	324	52	60	153	1 355
WARM-AIR FURNACE	9 735	8 383	126	30	32	79	1 085
HEAT PUMP	896	767	33	9	12	53	22
STEAM OR HOT WATER	512	475	26	3	2	6	1
BUILT-IN ELECTRIC UNITS	1 329	1 214	25	6	14	11	61
FLOOR, WALL, OR PIPELESS FURNACE	1 477	1 385	34	-	-	1	58
ROOM HEATERS WITH FLUE	1 136	1 073	33	2	-	-	29
ROOM HEATERS WITHOUT FLUE	1 615	1 548	36	-	-	-	31
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 181	1 101	12	2	-	3	63
NONE	66	59	2	-	-	-	5
RENTER OCCUPIED	8 338	3 577	1 616	1 060	928	774	383
WARM-AIR FURNACE	3 649	930	571	679	675	490	304
HEAT PUMP	225	65	40	15	37	66	1
STEAM OR HOT WATER	478	99	139	95	55	89	1
BUILT-IN ELECTRIC UNITS	642	181	181	99	87	79	14
FLOOR, WALL, OR PIPELESS FURNACE	743	421	207	56	26	10	23
ROOM HEATERS WITH FLUE	734	484	164	42	18	15	10
ROOM HEATERS WITHOUT FLUE	1 171	878	230	33	11	7	13
FIREPLACES, STOVES, OR PORTABLE HEATERS	547	459	50	15	5	3	15
NONE	149	59	34	25	15	15	2
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	17 948	16 004	324	52	60	153	1 355
HOUSING UNITS WITH HEATING EQUIPMENT	17 882	15 945	323	52	60	153	1 350
WITH FIREPLACE OR HEATING STOVE	7 700	7 465	107	10	3	8	107
IN WORKING ORDER	7 208	6 994	94	8	3	7	102
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	5 561	5 404	57	7	2	5	86
ALL PURCHASED	1 660	1 617	27	3	2	-	12
SOME OR NONE PURCHASED	3 810	3 697	31	3	1	5	74
NOT REPORTED	91	90	-	-	-	-	1
COAL	125	125	1	-	-	-	-
OTHER FUEL	704	667	20	2	1	2	13
NONE	786	767	16	-	-	-	3
NOT REPORTED	31	31	-	-	-	-	-
NOT IN WORKING ORDER	466	447	13	-	-	2	4
NOT REPORTED	26	24	-	2	-	-	1
WITHOUT FIREPLACE OR HEATING STOVE	10 144	8 445	215	42	57	145	1 241
NOT REPORTED	38	36	-	-	-	-	2
HOUSING UNITS WITH NO HEATING EQUIPMENT	66	59	2	-	-	-	5

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES--CONTINUED							
RENTER OCCUPIED	8 338	3 577	1 616	1 060	928	774	383
HOUSING UNITS WITH HEATING EQUIPMENT	8 189	3 518	1 583	1 035	914	759	381
WITH FIREPLACE OR HEATING STOVE	1 532	1 187	217	71	31	23	4
IN WORKING ORDER	1 299	1 018	175	59	26	18	2
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	775	666	75	20	7	4	2
ALL PURCHASED	277	221	41	7	6	2	-
SOME OR NONE PURCHASED	462	414	30	11	1	3	2
NOT REPORTED	36	31	3	2	-	-	-
COAL	50	49	2	-	-	-	-
OTHER FUEL	267	174	62	11	12	8	-
NONE	193	119	33	27	7	6	1
NOT REPORTED	14	10	3	-	-	-	-
NOT IN WORKING ORDER	223	160	42	12	5	3	2
NOT REPORTED	10	9	-	-	-	2	-
WITHOUT FIREPLACE OR HEATING STOVE	6 636	2 320	1 364	962	880	733	376
NOT REPORTED	21	11	2	2	2	3	1
HOUSING UNITS WITH NO HEATING EQUIPMENT	149	59	34	25	15	15	2
ALL OCCUPIED HOUSING UNITS	26 286	19 581	1 941	1 112	988	927	1 737
UNITS OCCUPIED LAST WINTER	22 469	17 777	1 369	718	601	632	1 371
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	16 918	15 183	308	47	51	144	1 186
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	12 569	259	45	51	140	1 097
NO ADDITIONAL HEAT SOURCE USED	12 855	11 423	231	42	47	128	983
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	998	877	23	2	4	9	82
NOT REPORTED	307	268	4	2	-	3	31
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	2 614	49	2	-	3	89
RENTER OCCUPIED	5 551	2 595	1 061	672	550	489	185
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	1 514	852	619	532	472	165
NO ADDITIONAL HEAT SOURCE USED	3 531	1 212	736	544	482	424	133
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	475	242	83	47	43	35	24
NOT REPORTED	149	60	33	29	7	13	7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	1 081	209	52	18	17	20
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	16 918	15 183	308	47	51	144	1 186
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	12 569	259	45	51	140	1 097
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 924	9 486	193	38	41	134	1 031
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 896	2 787	63	5	8	3	29
1 ROOM	708	676	16	3	3	-	9
2 ROOMS	643	616	12	-	-	-	14
3 ROOMS OR MORE	1 545	1 495	35	2	5	3	5
NOT REPORTED	341	296	2	2	2	3	37
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	2 614	49	2	-	3	89
RENTER OCCUPIED	5 551	2 595	1 061	672	550	489	185
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	1 514	852	619	532	472	165
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 920	804	555	516	471	435	140
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 079	651	262	71	54	25	16
1 ROOM	249	108	85	20	24	6	6
2 ROOMS	319	187	75	25	16	8	7
3 ROOMS OR MORE	511	355	103	26	14	10	3
NOT REPORTED	156	59	35	32	8	13	9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	1 081	209	52	18	17	20
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	16 918	15 183	308	47	51	144	1 186
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	12 569	259	45	51	140	1 097
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	2 614	49	2	-	3	89
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 311	2 194	43	-	-	3	70
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	296	283	3	-	-	-	10
NOT REPORTED	150	137	3	2	-	-	9

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED							
RENTER OCCUPIED	5 551	2 595	1 061	672	550	489	185
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	1 514	852	619	532	472	165
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	1 081	209	52	18	17	20
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 058	803	162	46	15	15	17
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	274	229	34	5	3	2	1
NOT REPORTED	66	49	14	2	-	-	2
ALL OCCUPIED HOUSING UNITS	26 286	19 581	1 941	1 112	988	927	1 737
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	17 948	16 004	324	52	60	153	1 355
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 246	1 160	13	2	-	3	68
WITH SELECTED HEATING EQUIPMENT[2]	16 702	14 844	311	50	60	150	1 287
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 277	13 545	290	47	58	147	1 190
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 390	1 268	21	2	2	2	95
SOLAR HEATING EQUIPMENT	7	7	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	425	410	2	-	-	-	13
FIREPLACE, BURNING WOOD OR COAL	233	223	3	2	2	-	5
PORTABLE ELECTRIC HEATER	543	462	12	1	-	2	66
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	119	105	4	-	-	-	9
OTHER	111	108	1	-	-	-	2
NOT REPORTED	35	31	-	1	-	2	2
RENTER OCCUPIED	8 338	3 577	1 616	1 060	928	774	383
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	696	518	83	40	19	18	17
WITH SELECTED HEATING EQUIPMENT[2]	7 642	3 059	1 533	1 020	909	756	366
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 194	2 785	1 463	987	882	735	342
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	424	264	68	30	23	16	23
SOLAR HEATING EQUIPMENT	2	2	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	44	42	2	-	-	-	1
FIREPLACE, BURNING WOOD OR COAL	24	17	3	3	-	-	-
PORTABLE ELECTRIC HEATER	299	161	58	21	21	16	21
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	58	46	4	6	2	-	1
OTHER	16	13	2	2	-	-	-
NOT REPORTED	25	9	2	3	4	5	1
AIR CONDITIONING							
OWNER OCCUPIED	17 948	16 004	324	52	60	153	1 355
WITH AIR CONDITIONING	14 411	12 831	261	50	58	153	1 057
ROOM UNITS	6 502	5 750	142	9	15	18	566
1	3 811	3 250	78	6	12	7	458
2	1 920	1 769	39	2	3	5	102
3	581	550	19	2	-	6	4
4	136	129	6	-	-	-	1
5 OR MORE	54	53	-	-	-	-	1
CENTRAL SYSTEM	7 910	7 081	119	41	43	135	491
WITH NO AIR CONDITIONING	3 537	3 173	63	2	2	-	297
RENTER OCCUPIED	8 338	3 577	1 616	1 060	928	774	383
WITH AIR CONDITIONING	5 717	1 990	1 049	851	836	717	275
ROOM UNITS	2 687	1 378	624	212	155	144	174
1	1 983	958	475	175	121	110	144
2	574	332	124	35	26	28	28
3	93	63	16	2	6	5	-
4	25	15	5	-	2	2	2
5 OR MORE	13	10	3	-	-	-	-
CENTRAL SYSTEM	3 030	611	425	640	681	572	101
WITH NO AIR CONDITIONING	2 621	1 587	568	209	93	57	108

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	17 948	16 004	324	52	60	153	1 355
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	7 910	7 081	119	41	43	135	491
WITH SUPPLEMENTAL EQUIPMENT USED	4 114	3 782	41	13	11	44	223
INDIVIDUAL ROOM AIR CONDITIONING UNIT	191	179	2	-	-	4	8
AWNINGS	303	251	3	2	-	4	43
DEHUMIDIFIER	334	324	3	-	-	3	4
CEILING FAN	1 015	970	16	2	2	8	17
ATTIC FAN	1 145	1 132	10	-	-	-	2
WINDOW FAN	269	253	2	2	-	-	12
PORTABLE FAN	2 197	1 936	25	11	9	33	182
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 683	3 198	78	27	30	91	258
NOT REPORTED	113	102	-	1	2	-	10
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 038	8 923	205	11	17	18	863
RENTER OCCUPIED	8 338	3 577	1 616	1 060	928	774	383
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 030	611	425	640	681	572	101
WITH SUPPLEMENTAL EQUIPMENT USED	828	246	111	166	139	114	51
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	6	6	2	2	6	3
AWNINGS	15	9	-	1	2	2	1
DEHUMIDIFIER	13	8	3	-	-	1	-
CEILING FAN	39	24	6	5	1	2	1
ATTIC FAN	48	44	5	-	-	-	-
WINDOW FAN	92	24	23	24	17	1	3
PORTABLE FAN	659	167	80	142	119	106	44
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 158	348	308	473	530	452	47
NOT REPORTED	44	17	6	1	12	6	2
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 308	2 965	1 192	420	247	201	282

TABLE D-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS	26 286	211	532	2 370	5 204	7 080	5 582	5 308	5.2
HOUSE HEATING FUEL									
OWNER OCCUPIED	17 948	33	116	494	2 443	5 261	4 710	4 891	5.6
UTILITY GAS	8 404	14	36	175	1 016	2 382	2 329	2 451	5.7
BOTTLED, TANK, OR LP GAS	1 788	7	28	117	417	582	394	243	5.0
FUEL OIL	1 976	2	17	36	239	529	512	640	5.8
KEROSENE, ETC	169	-	1	9	49	60	38	12	4.9
ELECTRICITY	4 989	5	23	126	599	1 512	1 289	1 435	5.7
COAL OR COKE	75	-	2	5	14	23	19	12	5.2
WOOD	475	2	6	20	93	154	111	90	5.3
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	8	-	-	-	2	2	2	2	...
NONE	66	2	4	6	14	19	16	5	4.9
RENTER OCCUPIED	8 338	178	416	1 877	2 761	1 818	871	417	4.1
UTILITY GAS	3 886	67	181	831	1 234	938	435	199	4.2
BOTTLED, TANK, OR LP GAS	516	9	15	62	181	140	74	34	4.4
FUEL OIL	788	20	52	161	230	141	120	63	4.2
KEROSENE, ETC	77	1	4	9	22	22	9	10	4.6
ELECTRICITY	2 626	51	130	728	955	492	182	88	3.9
COAL OR COKE	47	2	1	6	17	10	6	6	4.4
WOOD	244	5	6	29	84	65	40	16	4.5
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	5	2	2	1	-	-	-	-	...
NONE	149	22	24	50	37	9	6	1	3.0
WATER HEATING FUEL[1]									
OWNER OCCUPIED	17 462	26	101	437	2 296	5 139	4 616	4 847	5.6
UTILITY GAS	7 141	9	24	105	800	2 008	2 034	2 161	5.8
BOTTLED, TANK, OR LP GAS	1 065	6	15	44	212	372	252	163	5.2
FUEL OIL	260	-	2	6	19	39	73	121	6.4
KEROSENE, ETC	6	-	1	1	-	1	2	1	...
ELECTRICITY	8 902	10	57	267	1 243	2 704	2 237	2 384	5.6
COAL OR COKE	1	-	-	-	-	1	-	-	...
WOOD	5	-	-	-	-	1	2	2	...
SOLAR HEAT	18	-	-	-	2	1	5	10	...
OTHER FUEL	6	-	-	2	1	1	2	2	...
NONE	58	1	2	12	19	12	8	5	4.3
RENTER OCCUPIED	7 889	165	397	1 777	2 598	1 738	819	395	4.1
UTILITY GAS	3 631	70	183	793	1 115	857	431	182	4.2
BOTTLED, TANK, OR LP GAS	278	8	14	26	93	78	32	27	4.5
FUEL OIL	200	11	15	62	54	30	19	9	3.7
KEROSENE, ETC	5	-	-	-	3	1	1	-	...
ELECTRICITY	3 713	70	179	875	1 327	757	331	175	4.0
COAL OR COKE	-	-	-	-	-	-	-	-	-
WOOD	1	-	-	-	-	1	-	-	...
SOLAR HEAT	3	-	-	-	-	2	2	-	...
OTHER FUEL	12	2	2	5	-	2	2	-	...
NONE	46	4	4	16	6	12	2	2	3.4
COOKING FUEL									
OWNER OCCUPIED	17 948	33	116	494	2 443	5 261	4 710	4 891	5.6
UTILITY GAS	4 794	10	24	145	780	1 529	1 298	1 007	5.4
BOTTLED, TANK, OR LP GAS	1 788	9	31	152	473	573	346	204	4.9
FUEL OIL	11	-	-	-	2	2	4	3	...
KEROSENE, ETC	2	-	-	1	1	-	-	-	...
ELECTRICITY	11 285	13	58	189	1 171	3 141	3 048	3 665	5.8
COAL OR COKE	4	-	-	-	-	2	-	3	...
WOOD	48	1	2	2	12	11	12	8	5.1
OTHER FUEL	6	-	1	2	-	1	2	1	...
NONE	10	-	1	3	4	2	-	1	...
RENTER OCCUPIED	8 338	178	416	1 877	2 761	1 818	871	417	4.1
UTILITY GAS	3 402	80	178	807	1 084	797	330	127	4.1
BOTTLED, TANK, OR LP GAS	595	8	26	93	221	151	68	28	4.3
FUEL OIL	16	2	2	6	4	-	2	-	...
KEROSENE, ETC	8	-	2	1	4	-	1	-	...
ELECTRICITY	4 246	75	200	955	1 435	862	463	258	4.1
COAL OR COKE	1	-	-	-	1	-	-	-	...
WOOD	35	1	2	10	7	7	5	4	4.3
OTHER FUEL	2	-	-	-	2	-	-	-	...
NONE	32	12	7	6	3	2	2	-	...

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE D-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
MONTHLY COST PAID FOR ELECTRICITY									
SPECIFIED OWNER OCCUPIED[1]	14 268	19	72	182	1 398	4 173	4 095	4 330	5.8
ELECTRICITY PAID FOR	14 257	19	72	181	1 394	4 170	4 093	4 329	5.8
LESS THAN $10	66	1	2	10	22	18	2	11	4.4
$10 TO $19	693	2	7	32	172	248	142	90	5.0
$20 TO $29	1 479	1	9	38	282	476	412	262	5.4
$30 TO $39	1 835	2	12	32	236	659	520	372	5.5
$40 TO $49	1 851	3	7	27	200	598	545	470	5.7
$50 TO $59	1 901	-	10	17	174	596	571	533	5.8
$60 TO $79	2 989	3	12	12	199	835	924	1 003	6.0
$80 TO $99	1 439	2	5	6	60	376	449	542	6.1
$100 TO $149	1 519	2	4	5	32	313	428	735	6.4
$150 OR MORE	485	1	5	2	16	51	99	311	6.5+
MEDIAN	56	...	50	33	38	51	57	68	...
NO ELECTRICITY USED	10	-	-	1	4	2	2	1	...
SPECIFIED RENTER OCCUPIED[2]	8 018	175	411	1 860	2 677	1 724	806	364	4.1
ELECTRICITY PAID FOR	6 530	57	249	1 437	2 248	1 509	708	321	4.2
LESS THAN $10	209	9	17	69	72	29	6	7	3.6
$10 TO $19	931	11	60	343	303	146	56	13	3.7
$20 TO $29	1 226	11	76	300	401	261	139	37	4.1
$30 TO $39	1 116	16	31	267	430	239	83	50	4.1
$40 TO $49	847	1	26	167	310	190	101	52	4.2
$50 TO $59	752	2	12	122	299	174	98	46	4.3
$60 TO $79	776	3	20	90	279	224	106	54	4.5
$80 TO $99	332	1	6	44	92	117	51	21	4.7
$100 TO $149	278	3	-	25	50	111	61	29	5.0
$150 OR MORE	62	-	1	10	13	19	8	12	4.9
MEDIAN	37	27	26	30	37	44	46	50	...
INCLUDED IN RENT	1 480	116	159	422	427	215	98	43	3.6
NO ELECTRICITY USED	8	2	3	2	2	-	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	14 268	19	72	182	1 398	4 173	4 095	4 330	5.8
GAS PAID FOR	9 360	12	48	148	1 002	2 690	2 710	2 751	5.8
LESS THAN $10	563	1	2	18	105	193	121	124	5.3
$10 TO $14	788	-	4	26	104	281	213	160	5.4
$15 TO $19	802	-	6	16	108	267	229	178	5.5
$20 TO $24	1 176	1	9	21	137	364	358	285	5.6
$25 TO $29	1 051	-	4	13	139	328	301	266	5.6
$30 TO $39	1 861	2	12	20	194	525	557	551	5.8
$40 TO $49	1 195	6	2	12	88	311	364	412	6.0
$50 TO $69	1 364	2	4	16	99	312	405	526	6.1
$70 TO $99	394	-	4	4	21	68	117	181	6.4
$100 OR MORE	166	-	1	2	9	40	46	69	6.2
MEDIAN	31	...	28	23	26	28	32	36	...
NO GAS USED	4 908	7	24	34	396	1 483	1 385	1 579	5.9
SPECIFIED RENTER OCCUPIED[2]	8 018	175	411	1 860	2 677	1 724	806	364	4.1
GAS PAID FOR	3 447	23	92	643	1 142	870	479	198	4.3
LESS THAN $10	590	10	34	157	213	110	45	20	3.9
$10 TO $14	469	3	19	108	174	110	45	9	4.1
$15 TO $19	410	3	11	86	140	102	50	17	4.2
$20 TO $24	438	3	9	88	155	103	62	18	4.3
$25 TO $29	338	-	3	50	119	92	57	17	4.5
$30 TO $39	506	3	7	67	167	162	79	22	4.5
$40 TO $49	286	-	3	34	77	77	56	40	4.9
$50 TO $69	269	-	-	39	67	74	55	34	4.9
$70 TO $99	98	-	2	13	21	29	22	11	5.0
$100 OR MORE	42	-	2	3	9	10	7	11	5.2
MEDIAN	22	...	12	18	21	25	28	38	...
INCLUDED IN RENT	2 264	110	201	617	685	442	145	65	3.8
NO GAS USED	2 307	41	119	601	851	413	182	100	4.0

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	14 268	19	72	182	1 398	4 173	4 095	4 330	5.8
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 936	4	13	29	247	720	814	1 110	6.0
LESS THAN $100	748	-	1	11	51	150	199	336	6.3
$100 TO $199	500	1	1	3	47	130	138	179	6.0
$200 TO $299	308	1	2	2	37	92	76	98	5.8
$300 TO $399	274	1	1	1	39	99	63	70	5.4
$400 TO $499	247	-	1	2	32	74	78	60	5.7
$500 TO $599	238	1	1	5	23	72	75	61	5.7
$600 TO $699	214	-	3	2	8	51	59	91	6.2
$700 TO $799	103	-	2	2	3	16	32	48	6.4
$800 OR MORE	306	1	2	1	6	36	94	166	6.5+
MEDIAN	271	...	...	...	268	286	291	240	...
FUELS NOT USED OR FREE	11 332	15	59	153	1 151	3 453	3 282	3 220	5.8
SPECIFIED RENTER OCCUPIED[2]	8 018	175	411	1 860	2 677	1 724	806	364	4.1
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	796	5	9	94	239	207	153	90	4.7
LESS THAN $100	154	4	-	17	41	49	28	15	4.8
$100 TO $199	135	-	2	31	35	33	25	10	4.5
$200 TO $299	120	-	2	17	45	30	23	4	4.4
$300 TO $399	114	1	2	14	38	29	19	13	4.6
$400 TO $499	89	-	2	7	34	19	18	10	4.6
$500 TO $599	65	-	2	3	19	14	12	16	5.2
$600 TO $699	41	-	-	1	15	13	6	6	4.8
$700 TO $799	22	-	-	1	5	5	5	5	...
$800 OR MORE	56	-	1	3	7	16	19	10	5.5
MEDIAN	290	...	...	194	297	272	304	428	...
INCLUDED IN RENT	964	51	73	260	305	166	79	30	3.8
FUELS NOT USED OR FREE	6 258	119	329	1 506	2 133	1 352	574	244	4.0
ALL OCCUPIED HOUSING UNITS	26 286	211	532	2 370	5 204	7 080	5 582	5 308	5.2
HEATING EQUIPMENT									
OWNER OCCUPIED	17 948	33	116	494	2 443	5 261	4 710	4 891	5.6
WARM-AIR FURNACE	9 735	17	48	190	1 079	2 608	2 595	3 196	5.8
HEAT PUMP	896	-	7	35	91	201	199	363	6.1
STEAM OR HOT WATER	512	-	-	5	32	64	164	248	6.4
BUILT-IN ELECTRIC UNITS	1 329	1	8	34	148	508	357	273	5.4
FLOOR, WALL, OR PIPELESS FURNACE	1 477	2	14	30	260	574	397	202	5.3
ROOM HEATERS WITH FLUE	1 136	3	10	45	240	379	304	154	5.2
ROOM HEATERS WITHOUT FLUE	1 615	4	13	92	355	526	385	241	5.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 181	3	11	56	225	382	295	209	5.3
NONE	66	2	4	6	14	19	16	5	4.9
RENTER OCCUPIED	8 338	178	416	1 877	2 761	1 818	871	417	4.1
WARM-AIR FURNACE	3 649	54	129	799	1 298	784	386	199	4.1
HEAT PUMP	225	5	13	66	75	32	18	17	3.9
STEAM OR HOT WATER	478	18	45	161	111	63	48	33	3.6
BUILT-IN ELECTRIC UNITS	642	26	56	198	183	112	49	16	3.7
FLOOR, WALL, OR PIPELESS FURNACE	743	11	24	128	273	211	74	23	4.3
ROOM HEATERS WITH FLUE	734	8	42	107	267	172	89	48	4.3
ROOM HEATERS WITHOUT FLUE	1 171	20	61	276	346	294	125	49	4.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	547	15	21	91	169	142	77	32	4.4
NONE	149	22	24	50	37	9	6	1	3.0
FIREPLACES AND HEATING STOVES									
OWNER OCCUPIED	17 948	33	116	494	2 443	5 261	4 710	4 891	5.6
HOUSING UNITS WITH HEATING EQUIPMENT	17 882	31	112	488	2 430	5 243	4 694	4 886	5.6
WITH FIREPLACE OR HEATING STOVE	7 700	13	34	100	534	1 650	2 122	3 246	6.2
IN WORKING ORDER	7 208	13	33	92	481	1 513	1 973	3 103	6.2
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	5 561	10	22	59	322	1 113	1 511	2 524	6.3
ALL PURCHASED	1 660	5	2	17	97	303	404	832	6.5+
SOME OR NONE PURCHASED	3 810	5	20	40	224	800	1 073	1 647	6.3
NOT REPORTED	91	-	-	2	2	9	33	45	6.5
COAL	125	1	3	4	27	34	32	24	5.3
OTHER FUEL	704	2	4	24	78	205	204	188	5.7
NONE	786	-	4	4	51	159	219	348	6.3
NOT REPORTED	31	-	-	1	3	2	7	18	...
NOT IN WORKING ORDER	466	-	1	7	51	131	144	132	5.8
NOT REPORTED	26	-	-	1	2	6	5	12	...
WITHOUT FIREPLACE OR HEATING STOVE	10 144	18	77	388	1 889	3 577	2 563	1 633	5.3
NOT REPORTED	38	-	1	-	6	16	9	7	5.3
HOUSING UNITS WITH NO HEATING EQUIPMENT	66	2	4	6	14	19	16	5	4.9

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE O-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
FIREPLACES AND HEATING STOVES--CONTINUED									
RENTER OCCUPIED	8 338	178	416	1 877	2 761	1 818	871	417	4.1
HOUSING UNITS WITH HEATING EQUIPMENT	8 189	156	391	1 827	2 724	1 809	866	416	4.1
WITH FIREPLACE OR HEATING STOVE	1 532	12	42	195	391	391	281	220	4.8
IN WORKING ORDER	1 299	10	30	156	336	325	242	200	4.9
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	775	5	10	60	171	208	177	144	5.2
ALL PURCHASED	277	3	5	29	68	84	51	38	4.9
SOME OR NONE PURCHASED	462	2	4	28	96	121	116	95	5.3
NOT REPORTED	36	-	1	4	7	3	10	11	5.8
COAL	50	-	-	8	22	7	11	2	4.3
OTHER FUEL	267	3	16	47	91	60	31	18	4.2
NONE	193	2	3	40	47	48	20	33	4.6
NOT REPORTED	14	-	1	-	6	1	3	2	...
NOT IN WORKING ORDER	223	2	12	38	51	65	37	19	4.6
NOT REPORTED	10	-	-	2	4	2	2	2	...
WITHOUT FIREPLACE OR HEATING STOVE	6 636	140	347	1 631	2 327	1 413	582	196	4.0
NOT REPORTED	21	3	2	1	6	5	3	1	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	149	22	24	50	37	9	6	1	3.0
ALL OCCUPIED HOUSING UNITS	26 286	211	532	2 370	5 204	7 080	5 582	5 308	5.2
UNITS OCCUPIED LAST WINTER	22 469	137	368	1 615	4 100	6 226	5 116	4 908	5.3
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	16 918	29	114	442	2 257	4 992	4 483	4 602	5.6
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	21	87	306	1 684	4 090	3 815	4 157	5.7
NO ADDITIONAL HEAT SOURCE USED	12 855	18	77	273	1 511	3 710	3 459	3 805	5.7
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	998	1	5	30	128	265	283	286	5.7
NOT REPORTED	307	2	5	2	44	115	73	66	5.4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	8	26	135	573	902	668	445	5.2
RENTER OCCUPIED	5 551	108	254	1 173	1 843	1 235	633	305	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	70	186	865	1 416	908	467	242	4.2
NO ADDITIONAL HEAT SOURCE USED	3 531	63	160	759	1 205	749	388	206	4.1
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	475	6	18	76	151	124	67	33	4.4
NOT REPORTED	149	1	7	30	61	35	11	3	4.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	37	68	308	427	327	166	64	4.2
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	16 918	29	114	442	2 257	4 992	4 483	4 602	5.6
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	21	87	306	1 684	4 090	3 815	4 157	5.7
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 924	16	70	252	1 177	3 062	2 928	3 420	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 896	3	12	49	463	907	806	655	5.5
1 ROOM	708	3	4	14	66	154	205	262	6.0
2 ROOMS	643	-	8	23	177	181	132	121	5.1
3 ROOMS OR MORE	1 545	-	-	12	220	572	469	273	5.4
NOT REPORTED	341	2	5	6	43	121	82	82	5.4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	8	26	135	573	902	668	445	5.2
RENTER OCCUPIED	5 551	108	254	1 173	1 843	1 235	633	305	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	70	186	865	1 416	908	467	242	4.2
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 920	67	140	688	995	567	313	151	4.1
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 079	2	37	143	365	302	142	88	4.5
1 ROOM	249	2	31	75	67	35	21	19	3.8
2 ROOMS	319	-	6	43	159	75	18	17	4.2
3 ROOMS OR MORE	511	-	-	25	140	192	102	51	5.0
NOT REPORTED	156	2	9	34	57	39	13	3	4.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	37	68	308	427	327	166	64	4.2
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	16 918	29	114	442	2 257	4 992	4 483	4 602	5.6
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	21	87	306	1 684	4 090	3 815	4 157	5.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	8	26	135	573	902	668	445	5.2
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 311	5	22	106	479	768	552	378	5.2
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	296	2	2	23	65	72	81	51	5.3
NOT REPORTED	150	1	2	6	29	62	34	17	5.1

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE D-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
UNITS OCCUPIED LAST WINTER--CONTINUED									
INSUFFICIENT HEAT--CONTINUED									
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED									
RENTER OCCUPIED	5 551	108	254	1 173	1 843	1 235	633	305	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	70	186	865	1 416	908	467	242	4.2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	37	68	308	427	327	166	64	4.2
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 058	25	51	242	324	254	117	44	4.1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	274	10	13	54	88	60	37	11	4.2
NOT REPORTED	66	2	4	12	16	13	12	8	4.5
ALL OCCUPIED HOUSING UNITS	26 286	211	532	2 370	5 204	7 080	5 582	5 308	5.2
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	17 948	33	116	494	2 443	5 261	4 710	4 891	5.6
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 246	5	16	61	238	401	311	214	5.3
WITH SELECTED HEATING EQUIPMENT[2]	16 702	28	100	432	2 205	4 860	4 399	4 677	5.7
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 277	18	92	397	2 042	4 508	4 035	4 185	5.6
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 390	8	8	36	157	335	357	490	5.9
SOLAR HEATING EQUIPMENT	7	-	-	-	1	2	1	4	...
STOVE, BURNING WOOD OR COAL	425	3	3	7	31	107	107	168	6.1
FIREPLACE, BURNING WOOD OR COAL	233	3	2	5	16	36	72	99	6.3
PORTABLE ELECTRIC HEATER	543	3	3	18	86	133	131	169	5.7
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	119	-	-	4	18	37	32	27	5.5
OTHER	111	-	-	2	6	25	27	50	6.3
NOT REPORTED	35	2	-	-	7	18	8	2	...
RENTER OCCUPIED	8 338	178	416	1 877	2 761	1 818	871	417	4.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	696	38	45	140	206	151	82	33	4.1
WITH SELECTED HEATING EQUIPMENT[2]	7 642	141	370	1 737	2 555	1 667	789	384	4.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 194	133	353	1 657	2 439	1 536	727	348	4.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	424	6	15	76	110	124	57	34	4.5
SOLAR HEATING EQUIPMENT	2	-	-	-	-	2	-	-	...
STOVE, BURNING WOOD OR COAL	44	-	-	2	7	15	13	8	5.4
FIREPLACE, BURNING WOOD OR COAL	24	-	-	2	6	9	5	2	...
PORTABLE ELECTRIC HEATER	299	5	14	68	77	87	34	14	4.3
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	58	2	2	8	19	14	5	8	4.4
OTHER	16	-	2	-	3	8	2	2	...
NOT REPORTED	25	2	2	3	6	7	5	1	...
AIR CONDITIONING									
OWNER OCCUPIED	17 948	33	116	494	2 443	5 261	4 710	4 891	5.6
WITH AIR CONDITIONING	14 411	27	89	332	1 735	4 104	3 857	4 266	5.7
ROOM UNITS	6 502	14	54	218	1 068	2 220	1 738	1 189	5.3
1	3 811	10	41	181	768	1 367	930	514	5.2
2	1 920	2	9	33	240	656	589	391	5.5
3	581	3	4	3	53	168	172	179	5.8
4	136	-	1	2	7	22	41	64	6.4
5 OR MORE	54	-	-	-	-	7	5	41	6.5+
CENTRAL SYSTEM	7 910	13	34	114	667	1 884	2 119	3 078	6.1
WITH NO AIR CONDITIONING	3 537	5	27	161	708	1 157	854	625	5.2
RENTER OCCUPIED	8 338	178	416	1 877	2 761	1 818	871	417	4.1
WITH AIR CONDITIONING	5 717	115	267	1 319	1 928	1 244	567	277	4.1
ROOM UNITS	2 687	63	142	575	836	630	310	131	4.2
1	1 983	63	129	482	628	418	188	75	4.0
2	574	-	12	86	167	180	94	34	4.6
3	93	-	-	7	28	23	21	14	5.0
4	25	-	-	-	12	7	2	4	...
5 OR MORE	13	-	-	-	2	3	5	3	...
CENTRAL SYSTEM	3 030	53	125	744	1 091	613	257	146	4.0
WITH NO AIR CONDITIONING	2 621	63	149	558	833	575	304	140	4.1

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE D-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
SUPPLEMENTAL COOLING EQUIPMENT									
OWNER OCCUPIED	17 948	33	116	494	2 443	5 261	4 710	4 891	5.6
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	7 910	13	34	114	667	1 884	2 119	3 078	6.1
WITH SUPPLEMENTAL EQUIPMENT USED	4 114	7	17	49	293	839	1 131	1 778	6.3
INDIVIDUAL ROOM AIR CONDITIONING UNIT	191	1	-	-	6	31	56	98	6.5+
AWNINGS	303	2	2	5	53	83	76	81	5.6
DEHUMIDIFIER	334	2	-	2	24	41	63	203	6.5+
CEILING FAN	1 015	-	4	13	44	183	294	478	6.4
ATTIC FAN	1 145	1	9	1	25	170	311	628	6.5+
WINDOW FAN	269	-	-	2	15	62	55	135	6.5+
PORTABLE FAN	2 197	2	6	38	203	497	610	841	6.1
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 683	7	17	63	364	1 010	961	1 262	5.9
NOT REPORTED	113	-	1	2	10	36	27	38	5.8
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 038	19	81	380	1 776	3 377	2 592	1 813	5.3
RENTER OCCUPIED	8 338	178	416	1 877	2 761	1 818	871	417	4.1
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 030	53	125	744	1 091	613	257	146	4.0
WITH SUPPLEMENTAL EQUIPMENT USED	828	10	21	163	281	199	91	64	4.3
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	-	-	6	6	7	2	2	...
AWNINGS	15	-	-	1	3	4	4	3	...
DEHUMIDIFIER	13	-	-	1	-	2	2	8	...
CEILING FAN	39	-	-	2	13	10	6	7	4.9
ATTIC FAN	48	-	-	-	7	12	15	15	5.8
WINDOW FAN	92	1	3	23	36	16	4	8	4.0
PORTABLE FAN	659	8	20	133	227	164	67	40	4.2
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 158	42	99	571	796	406	163	81	4.0
NOT REPORTED	44	1	5	10	15	8	4	1	3.9
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 308	125	290	1 133	1 670	1 205	614	271	4.2
ALL OCCUPIED HOUSING UNITS	26 286	211	532	2 370	5 204	7 080	5 582	5 308	5.2
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	21 318	62	191	824	3 392	6 227	5 383	5 239	5.5
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	17 359	29	111	386	2 227	5 089	4 665	4 852	5.7
ALL WINDOWS COVERED	6 164	10	30	75	625	1 742	1 681	2 001	5.8
SOME WINDOWS COVERED	1 978	2	12	23	201	470	545	723	6.0
NO WINDOWS COVERED	9 158	17	69	285	1 390	2 850	2 426	2 121	5.5
NOT REPORTED	60	-	-	3	11	27	12	7	5.1
RENTER OCCUPIED	3 959	33	80	438	1 165	1 139	717	387	4.7
ALL WINDOWS COVERED	762	2	2	56	183	242	157	120	5.1
SOME WINDOWS COVERED	288	-	2	26	67	67	74	52	5.2
NO WINDOWS COVERED	2 753	25	73	323	847	796	476	213	4.6
NOT REPORTED	156	7	3	33	68	34	11	1	4.0
STORM DOORS									
OWNER OCCUPIED	17 359	29	111	386	2 227	5 089	4 665	4 852	5.7
ALL DOORS COVERED	5 677	12	23	50	566	1 687	1 664	1 675	5.8
SOME DOORS COVERED	3 292	3	23	38	385	994	865	984	5.7
NO DOORS COVERED	8 317	14	64	294	1 259	2 379	2 120	2 185	5.6
NOT REPORTED	72	-	-	3	16	29	17	8	5.1
RENTER OCCUPIED	3 959	33	80	438	1 165	1 139	717	387	4.7
ALL DOORS COVERED	608	2	5	30	138	207	134	91	5.1
SOME DOORS COVERED	396	-	-	15	91	135	97	58	5.2
NO DOORS COVERED	2 799	25	72	362	865	764	475	237	4.6
NOT REPORTED	157	7	3	31	72	32	11	1	4.0
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	17 359	29	111	386	2 227	5 089	4 665	4 852	5.7
YES	13 918	24	77	225	1 461	3 991	3 835	4 305	5.8
NO	2 713	4	30	128	591	870	654	437	5.2
DON'T KNOW	645	1	5	30	162	189	161	97	5.2
NOT REPORTED	83	-	-	3	13	39	16	13	5.2
RENTER OCCUPIED	3 959	33	80	438	1 165	1 139	717	387	4.7
YES	1 514	5	15	126	355	455	345	212	5.1
NO	1 417	15	48	198	460	365	216	115	4.5
DON'T KNOW	872	7	13	84	282	283	146	57	4.7
NOT REPORTED	157	7	3	31	68	35	11	2	4.0

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS	26 286	7 763	18 523	6 251	4 653	2 748	4 871
HOUSE HEATING FUEL							
OWNER OCCUPIED	17 948	5 536	12 412	4 409	3 431	1 743	2 828
UTILITY GAS	8 404	1 599	6 805	2 196	2 008	981	1 620
BOTTLED, TANK, OR LP GAS	1 788	542	1 247	422	282	205	337
FUEL OIL	1 976	251	1 724	498	474	268	484
KEROSENE, ETC	169	26	143	47	33	29	34
ELECTRICITY	4 989	2 986	2 003	1 132	531	166	175
COAL OR COKE	75	5	70	9	14	16	30
WOOD	475	116	359	90	67	67	135
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	8	3	5	2	1	1	1
NONE	66	9	56	13	20	10	14
RENTER OCCUPIED	8 338	2 227	6 111	1 842	1 222	1 005	2 043
UTILITY GAS	3 886	552	3 334	807	737	624	1 167
BOTTLED, TANK, OR LP GAS	516	74	443	115	85	75	169
FUEL OIL	788	53	735	153	136	138	307
KEROSENE, ETC	77	5	73	11	15	6	41
ELECTRICITY	2 626	1 520	1 106	702	177	85	143
COAL OR COKE	47	1	46	2	5	6	32
WOOD	244	9	236	27	33	34	142
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	5	2	3	-	-	1	2
NONE	149	12	137	26	34	36	41
WATER HEATING FUEL[1]							
OWNER OCCUPIED	17 462	5 473	11 989	4 338	3 358	1 645	2 648
UTILITY GAS	7 141	1 288	5 853	1 859	1 775	853	1 367
BOTTLED, TANK, OR LP GAS	1 065	290	775	231	176	131	238
FUEL OIL	260	34	227	63	52	35	77
KEROSENE, ETC	6	1	5	2	2	-	-
ELECTRICITY	8 902	3 845	5 057	2 159	1 333	619	946
COAL OR COKE	1	-	1	-	-	-	1
WOOD	5	2	4	1	1	-	2
SOLAR HEAT	18	8	9	3	7	-	-
OTHER FUEL	6	2	4	3	-	-	1
NONE	58	4	54	18	12	7	17
RENTER OCCUPIED	7 889	2 213	5 676	1 793	1 156	928	1 799
UTILITY GAS	3 631	546	3 085	794	655	574	1 062
BOTTLED, TANK, OR LP GAS	278	37	240	58	47	35	100
FUEL OIL	200	13	186	54	28	50	55
KEROSENE, ETC	5	-	5	-	2	1	2
ELECTRICITY	3 713	1 608	2 106	876	414	258	557
COAL OR COKE	-	-	-	-	-	-	-
WOOD	1	-	1	-	1	-	-
SOLAR HEAT	3	-	3	-	3	-	-
OTHER FUEL	12	5	7	2	-	-	5
NONE	46	3	43	9	6	11	17
COOKING FUEL							
OWNER OCCUPIED	17 948	5 536	12 412	4 409	3 431	1 743	2 828
UTILITY GAS	4 794	724	4 070	983	1 207	716	1 164
BOTTLED, TANK, OR LP GAS	1 788	578	1 210	444	255	188	322
FUEL OIL	11	4	8	1	3	-	4
KEROSENE, ETC	2	-	2	1	-	-	1
ELECTRICITY	11 285	4 227	7 058	2 967	1 961	828	1 302
COAL OR COKE	4	1	3	-	-	-	3
WOOD	48	-	48	7	5	9	26
OTHER FUEL	6	2	4	2	1	-	1
NONE	10	1	9	3	-	2	4

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
COOKING FUEL--CONTINUED							
RENTER OCCUPIED	8 338	2 227	6 111	1 842	1 222	1 005	2 043
UTILITY GAS	3 402	427	2 975	664	627	592	1 092
BOTTLED, TANK, OR LP GAS	595	83	513	144	87	75	206
FUEL OIL	16	7	9	-	2	2	5
KEROSENE, ETC	8	-	8	2	2	-	4
ELECTRICITY	4 246	1 709	2 538	1 026	493	317	702
COAL OR COKE	1	-	1	-	-	-	1
WOOD	35	-	35	3	4	6	22
OTHER FUEL	2	-	2	1	-	1	-
NONE	32	2	30	1	6	12	11
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	14 268	3 927	10 341	3 608	3 110	1 473	2 150
ELECTRICITY PAID FOR	14 257	3 926	10 331	3 606	3 108	1 472	2 146
LESS THAN $10	66	8	57	5	10	13	29
$10 TO $19	693	27	666	78	163	124	302
$20 TO $29	1 479	151	1 328	272	355	271	429
$30 TO $39	1 835	268	1 568	401	470	314	383
$40 TO $49	1 851	358	1 492	554	458	199	281
$50 TO $59	1 901	515	1 386	510	466	165	245
$60 TO $79	2 989	1 041	1 948	835	645	208	260
$80 TO $99	1 439	631	808	392	236	78	102
$100 TO $149	1 519	672	847	437	254	79	77
$150 OR MORE	485	255	230	121	51	21	37
MEDIAN	56	72	50	59	52	41	37
NO ELECTRICITY USED	10	1	10	1	3	2	4
SPECIFIED RENTER OCCUPIED[2]	8 018	2 211	5 807	1 800	1 177	966	1 864
ELECTRICITY PAID FOR	6 530	1 825	4 705	1 322	983	810	1 590
LESS THAN $10	209	28	181	36	39	31	75
$10 TO $19	931	92	839	151	140	167	381
$20 TO $29	1 226	219	1 007	235	210	181	381
$30 TO $39	1 116	276	840	253	173	135	279
$40 TO $49	847	282	565	165	137	99	164
$50 TO $59	752	298	454	164	115	72	103
$60 TO $79	776	317	458	175	96	65	122
$80 TO $99	332	146	186	63	39	33	50
$100 TO $149	278	144	135	61	28	24	22
$150 OR MORE	62	23	40	17	7	3	13
MEDIAN	37	50	33	38	35	32	28
INCLUDED IN RENT	1 480	386	1 095	476	194	156	269
NO ELECTRICITY USED	8	-	8	2	-	1	5
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	14 268	3 927	10 341	3 608	3 110	1 473	2 150
GAS PAID FOR	9 360	1 651	7 709	2 432	2 323	1 163	1 790
LESS THAN $10	563	118	445	116	142	74	113
$10 TO $14	788	118	670	193	213	93	171
$15 TO $19	802	133	669	202	211	101	157
$20 TO $24	1 176	231	945	274	288	153	230
$25 TO $29	1 051	194	857	265	267	154	171
$30 TO $39	1 861	324	1 537	520	433	243	341
$40 TO $49	1 195	195	1 001	343	304	143	211
$50 TO $69	1 364	250	1 114	339	341	139	294
$70 TO $99	394	68	327	123	89	44	70
$100 OR MORE	166	20	145	58	36	20	31
MEDIAN	31	31	32	33	31	30	31
NO GAS USED	4 908	2 276	2 632	1 175	787	310	360

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	8 018	2 211	5 807	1 800	1 177	966	1 864
GAS PAID FOR	3 447	361	3 086	618	680	592	1 196
LESS THAN $10	590	57	533	109	116	97	211
$10 TO $14	469	63	406	91	91	74	151
$15 TO $19	410	42	367	85	86	74	123
$20 TO $24	438	47	391	74	86	79	152
$25 TO $29	338	35	303	74	51	68	110
$30 TO $39	506	67	439	84	107	77	171
$40 TO $49	286	20	266	47	62	46	111
$50 TO $69	269	19	251	35	54	59	102
$70 TO $99	98	7	90	11	19	13	48
$100 OR MORE	42	3	39	9	7	7	16
MEDIAN	22	22	22	21	22	23	23
INCLUDED IN RENT	2 264	661	1 604	660	288	251	404
NO GAS USED	2 307	1 189	1 117	522	209	122	265
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[2]	14 268	3 927	10 341	3 608	3 110	1 473	2 150
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	2 936	641	2 295	773	617	336	569
LESS THAN $100	748	275	473	232	114	45	83
$100 TO $199	500	166	334	155	87	34	57
$200 TO $299	308	60	248	72	88	42	45
$300 TO $399	274	36	238	81	53	45	58
$400 TO $499	247	27	220	45	79	33	63
$500 TO $599	238	19	218	51	53	47	68
$600 TO $699	214	20	194	58	53	29	53
$700 TO $799	103	6	97	20	24	16	37
$800 OR MORE	306	33	273	59	65	43	106
MEDIAN	271	128	339	199	336	403	466
FUELS NOT USED OR FREE	11 332	3 286	8 046	2 834	2 493	1 137	1 581
SPECIFIED RENTER OCCUPIED[1]	8 018	2 211	5 807	1 800	1 177	966	1 864
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	796	78	718	117	131	129	340
LESS THAN $100	154	27	127	24	22	25	57
$100 TO $199	135	28	107	16	22	19	49
$200 TO $299	120	9	111	19	17	21	54
$300 TO $399	114	7	107	19	25	6	56
$400 TO $499	89	4	85	12	15	14	43
$500 TO $599	65	1	64	10	7	21	26
$600 TO $699	41	1	39	8	7	7	18
$700 TO $799	22	-	22	2	5	5	10
$800 OR MORE	56	1	55	6	11	12	27
MEDIAN	290	142	313	297	317	298	318
INCLUDED IN RENT	964	192	772	254	142	126	250
FUELS NOT USED OR FREE	6 258	1 940	4 318	1 429	904	711	1 274
ALL OCCUPIED HOUSING UNITS	26 286	7 763	18 523	6 251	4 653	2 748	4 871
HEATING EQUIPMENT							
OWNER OCCUPIED	17 948	5 536	12 412	4 409	3 431	1 743	2 828
WARM-AIR FURNACE	9 735	3 859	5 876	2 822	1 736	544	774
HEAT PUMP	896	651	245	135	71	20	19
STEAM OR HOT WATER	512	23	490	93	61	78	257
BUILT-IN ELECTRIC UNITS	1 329	517	812	454	198	84	76
FLOOR, WALL, OR PIPELESS FURNACE	1 477	99	1 379	244	531	274	329
ROOM HEATERS WITH FLUE	1 136	54	1 083	173	249	207	454
ROOM HEATERS WITHOUT FLUE	1 615	81	1 534	225	328	380	601
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 181	242	939	251	236	147	305
NONE	66	9	56	13	20	10	14
RENTER OCCUPIED	8 338	2 227	6 111	1 842	1 222	1 005	2 043
WARM-AIR FURNACE	3 649	1 756	1 893	1 080	373	164	276
HEAT PUMP	225	138	87	61	11	7	8
STEAM OR HOT WATER	478	12	466	58	55	111	242
BUILT-IN ELECTRIC UNITS	642	231	410	197	80	39	94
FLOOR, WALL, OR PIPELESS FURNACE	743	36	707	165	246	140	155
ROOM HEATERS WITH FLUE	734	1	732	72	142	139	379
ROOM HEATERS WITHOUT FLUE	1 171	16	1 155	127	199	278	551
FIREPLACES, STOVES, OR PORTABLE HEATERS	547	24	522	54	82	90	296
NONE	149	12	137	26	34	36	41

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	17 948	5 536	12 412	4 409	3 431	1 743	2 828
HOUSING UNITS WITH HEATING EQUIPMENT	17 882	5 527	12 356	4 396	3 411	1 733	2 815
WITH FIREPLACE OR HEATING STOVE	7 700	2 628	5 072	1 712	1 156	715	1 489
IN WORKING ORDER	7 208	2 581	4 627	1 678	1 089	619	1 240
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	5 561	2 285	3 276	1 394	766	374	742
ALL PURCHASED	1 660	688	972	483	205	105	179
SOME OR NONE PURCHASED	3 810	1 567	2 243	883	549	266	545
NOT REPORTED	91	30	61	28	12	3	18
COAL	125	9	116	16	21	21	58
OTHER FUEL	704	77	627	120	135	133	239
NONE	786	196	590	140	160	89	201
NOT REPORTED	31	14	18	7	9	2	-
NOT IN WORKING ORDER	466	34	432	31	62	93	245
NOT REPORTED	26	13	13	3	4	2	3
WITHOUT FIREPLACE OR HEATING STOVE	10 144	2 895	7 250	2 676	2 247	1 012	1 316
NOT REPORTED	38	4	34	8	9	7	10
HOUSING UNITS WITH NO HEATING EQUIPMENT	66	9	56	13	20	10	14
RENTER OCCUPIED	8 338	2 227	6 111	1 842	1 222	1 005	2 043
HOUSING UNITS WITH HEATING EQUIPMENT	8 189	2 215	5 974	1 816	1 188	968	2 002
WITH FIREPLACE OR HEATING STOVE	1 532	223	1 309	155	189	198	768
IN WORKING ORDER	1 299	212	1 086	148	166	163	609
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	775	132	643	106	107	93	337
ALL PURCHASED	277	57	220	38	40	32	110
SOME OR NONE PURCHASED	462	66	396	59	62	57	217
NOT REPORTED	36	9	27	9	4	4	10
COAL	50	1	49	1	4	7	37
OTHER FUEL	267	9	258	21	35	46	157
NONE	193	68	125	16	18	18	73
NOT REPORTED	14	1	12	3	3	-	5
NOT IN WORKING ORDER	223	9	214	7	23	34	150
NOT REPORTED	10	2	8	-	-	-	8
WITHOUT FIREPLACE OR HEATING STOVE	6 636	1 989	4 647	1 659	995	767	1 225
NOT REPORTED	21	3	18	2	4	3	8
HOUSING UNITS WITH NO HEATING EQUIPMENT	149	12	137	26	34	36	41
ALL OCCUPIED HOUSING UNITS	26 286	7 763	18 523	6 251	4 653	2 748	4 871
UNITS OCCUPIED LAST WINTER	22 469	6 127	16 343	5 469	4 180	2 429	4 265
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	16 918	4 908	12 010	4 270	3 314	1 691	2 735
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	4 599	9 562	3 796	2 746	1 171	1 850
NO ADDITIONAL HEAT SOURCE USED	12 855	4 267	8 588	3 473	2 468	1 051	1 596
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	998	239	760	250	210	86	214
NOT REPORTED	307	93	214	72	68	34	40
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	309	2 449	475	568	521	885
RENTER OCCUPIED	5 551	1 219	4 332	1 198	867	738	1 530
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	1 187	2 967	1 052	644	436	836
NO ADDITIONAL HEAT SOURCE USED	3 531	1 085	2 446	925	523	330	668
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	475	56	418	90	91	89	148
NOT REPORTED	149	45	103	36	30	18	20
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	32	1 365	147	223	302	694

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	16 918	4 908	12 010	4 270	3 314	1 691	2 735
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	4 599	9 562	3 796	2 746	1 171	1 850
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 924	4 259	6 665	3 112	1 846	688	1 019
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 896	241	2 655	603	825	443	784
1 ROOM	708	124	584	195	150	73	165
2 ROOMS	643	42	600	99	188	119	195
3 ROOMS OR MORE	1 545	74	1 471	310	487	251	424
NOT REPORTED	341	99	242	80	75	40	47
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	309	2 449	475	568	521	885
RENTER OCCUPIED	5 551	1 219	4 332	1 198	867	738	1 530
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	1 187	2 967	1 052	644	436	836
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 920	1 083	1 837	821	360	232	423
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 079	54	1 025	195	252	186	391
1 ROOM	249	23	226	49	43	35	99
2 ROOMS	319	20	299	56	72	60	111
3 ROOMS OR MORE	511	11	500	90	137	91	181
NOT REPORTED	156	50	106	35	31	18	22
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	32	1 365	147	223	302	694
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	16 918	4 908	12 010	4 270	3 314	1 691	2 735
WITH SPECIFIED HEATING EQUIPMENT[1]	14 161	4 599	9 562	3 796	2 746	1 171	1 850
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 757	309	2 449	475	568	521	885
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 311	262	2 048	406	487	421	734
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	296	28	269	44	51	78	97
NOT REPORTED	150	19	131	25	31	21	55
RENTER OCCUPIED	5 551	1 219	4 332	1 198	867	738	1 530
WITH SPECIFIED HEATING EQUIPMENT[1]	4 154	1 187	2 967	1 052	644	436	836
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 397	32	1 365	147	223	302	694
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 058	27	1 030	112	176	226	516
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	274	5	268	26	32	72	139
NOT REPORTED	66	-	66	9	14	4	39
ALL OCCUPIED HOUSING UNITS	26 286	7 763	18 523	6 251	4 653	2 748	4 871
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	17 948	5 536	12 412	4 409	3 431	1 743	2 828
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 246	252	995	263	256	157	318
WITH SELECTED HEATING EQUIPMENT[2]	16 702	5 284	11 417	4 146	3 175	1 586	2 510
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 277	4 830	10 447	3 811	2 893	1 463	2 279
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 390	447	944	329	275	120	220
SOLAR HEATING EQUIPMENT	7	6	2	2	-	-	-
STOVE, BURNING WOOD OR COAL	425	155	270	98	82	26	65
FIREPLACE, BURNING WOOD OR COAL	233	98	136	58	37	15	25
PORTABLE ELECTRIC HEATER	543	146	397	123	126	55	93
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	119	25	94	29	20	16	29
OTHER	111	30	81	34	21	7	19
NOT REPORTED	35	8	27	6	7	4	11

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED	8 338	2 227	6 111	1 842	1 222	1 005	2 043
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	696	36	659	80	116	127	337
WITH SELECTED HEATING EQUIPMENT[1]	7 642	2 191	5 452	1 762	1 106	878	1 705
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 194	2 113	5 081	1 684	1 016	815	1 566
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	424	67	356	77	87	59	134
SOLAR HEATING EQUIPMENT	2	-	2	-	-	2	-
STOVE, BURNING WOOD OR COAL	44	5	39	7	7	8	17
FIREPLACE, BURNING WOOD OR COAL	24	6	18	6	8	3	-
PORTABLE ELECTRIC HEATER	299	42	257	59	62	43	93
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	58	5	53	6	11	11	26
OTHER	16	9	7	-	-	2	5
NOT REPORTED	25	11	14	1	3	5	5
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[2]							
OWNER OCCUPIED	17 387	5 461	11 926	4 317	3 339	1 638	2 632
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	17 183	5 400	11 783	4 269	3 299	1 618	2 597
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	76	36	41	14	12	8	7
NOT REPORTED	128	25	102	34	28	13	28
RENTER OCCUPIED	7 839	2 210	5 629	1 784	1 147	917	1 781
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 753	2 196	5 557	1 766	1 139	889	1 762
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26	7	18	5	2	6	6
NOT REPORTED	60	6	54	13	6	23	13
AIR CONDITIONING							
OWNER OCCUPIED	17 948	5 536	12 412	4 409	3 431	1 743	2 828
WITH AIR CONDITIONING	14 411	4 875	9 537	3 746	2 820	1 204	1 767
ROOM UNITS	6 502	1 019	5 482	1 488	1 679	888	1 428
1	3 811	723	3 088	920	849	517	801
2	1 920	266	1 654	441	588	244	380
3	581	24	557	112	190	92	162
4	136	4	131	12	29	26	64
5 OR MORE	54	1	53	2	22	8	20
CENTRAL SYSTEM	7 910	3 856	4 054	2 258	1 142	316	339
WITH NO AIR CONDITIONING	3 537	661	2 875	663	611	539	1 062
RENTER OCCUPIED	8 338	2 227	6 111	1 842	1 222	1 005	2 043
WITH AIR CONDITIONING	5 717	2 024	3 693	1 484	792	519	897
ROOM UNITS	2 687	265	2 422	573	581	462	805
1	1 983	213	1 770	455	402	342	571
2	574	43	530	92	153	97	189
3	93	9	84	18	20	20	26
4	25	-	25	7	6	1	11
5 OR MORE	13	-	13	2	2	2	8
CENTRAL SYSTEM	3 030	1 759	1 271	911	211	57	92
WITH NO AIR CONDITIONING	2 621	203	2 418	357	429	486	1 146
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	17 948	5 536	12 412	4 409	3 431	1 743	2 828
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	7 910	3 856	4 054	2 258	1 142	316	339
WITH SUPPLEMENTAL EQUIPMENT USED	4 114	1 977	2 137	1 223	593	145	176
INDIVIDUAL ROOM AIR CONDITIONING UNIT	191	57	134	79	29	7	20
AWNINGS	303	108	194	84	69	23	19
DEHUMIDIFIER	334	119	214	119	57	24	16
CEILING FAN	1 015	535	480	279	121	23	57
ATTIC FAN	1 145	538	607	345	190	42	29
WINDOW FAN	269	124	146	82	33	16	14
PORTABLE FAN	2 197	1 077	1 120	687	294	63	77
WITH NO SUPPLEMENTAL EQUIPMENT USED	3 683	1 833	1 850	1 000	532	161	157
NOT REPORTED	113	46	68	35	17	9	7
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	10 038	1 680	8 358	2 151	2 290	1 427	2 489

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT--CONTINUED							
RENTER OCCUPIED	8 338	2 227	6 111	1 842	1 222	1 005	2 043
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 030	1 759	1 271	911	211	57	92
WITH SUPPLEMENTAL EQUIPMENT USED	828	450	378	249	79	18	33
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	6	18	9	5	-	3
AWNINGS	15	3	12	3	2	-	7
DEHUMIDIFIER	13	2	10	6	3	-	2
CEILING FAN	39	21	18	9	4	2	3
ATTIC FAN	48	17	32	12	13	1	5
WINDOW FAN	92	60	32	17	7	2	5
PORTABLE FAN	659	359	300	213	55	14	18
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 158	1 287	871	655	125	38	52
NOT REPORTED	44	22	22	7	8	1	6
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 308	468	4 840	930	1 011	948	1 951
ALL OCCUPIED HOUSING UNITS	26 286	7 763	18 523	6 251	4 653	2 748	4 871
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	21 318	5 859	15 459	4 995	4 130	2 328	4 006
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	17 359	5 302	12 057	4 279	3 381	1 695	2 701
ALL WINDOWS COVERED	6 164	2 251	3 912	1 357	1 056	571	929
SOME WINDOWS COVERED	1 978	382	1 595	477	398	231	488
NO WINDOWS COVERED	9 158	2 644	6 514	2 436	1 919	886	1 272
NOT REPORTED	60	24	36	8	9	7	12
RENTER OCCUPIED	3 959	557	3 402	716	748	633	1 305
ALL WINDOWS COVERED	762	145	618	128	156	105	228
SOME WINDOWS COVERED	288	17	271	49	53	47	120
NO WINDOWS COVERED	2 753	346	2 407	503	525	455	924
NOT REPORTED	156	49	107	35	14	26	32
STORM DOORS							
OWNER OCCUPIED	17 359	5 302	12 057	4 279	3 381	1 695	2 701
ALL DOORS COVERED	5 677	1 506	4 171	1 359	1 182	637	992
SOME DOORS COVERED	3 292	1 100	2 193	816	597	297	483
NO DOORS COVERED	8 317	2 666	5 652	2 095	1 592	754	1 210
NOT REPORTED	72	30	42	8	10	7	17
RENTER OCCUPIED	3 959	557	3 402	716	748	633	1 305
ALL DOORS COVERED	608	102	506	107	140	87	172
SOME DOORS COVERED	396	62	334	62	80	73	119
NO DOORS COVERED	2 799	344	2 455	510	513	449	984
NOT REPORTED	157	50	107	37	16	24	31
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	17 359	5 302	12 057	4 279	3 381	1 695	2 701
YES	13 918	4 867	9 051	3 695	2 656	1 118	1 582
NO	2 713	253	2 459	430	564	507	958
DON'T KNOW	645	154	491	141	147	60	143
NOT REPORTED	83	28	55	11	15	10	19
RENTER OCCUPIED	3 959	557	3 402	716	748	633	1 305
YES	1 514	340	1 173	326	335	192	320
NO	1 417	67	1 350	168	225	249	709
DON'T KNOW	872	100	771	187	173	167	245
NOT REPORTED	157	49	107	36	15	26	31

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	17 359	5 302	12 057	4 279	3 381	1 695	2 701
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	9 158	2 644	6 514	2 436	1 919	886	1 272
SOME OR ALL WINDOWS COVERED	8 141	2 634	5 507	1 834	1 454	802	1 417
NONE INSTALLED	6 854	2 234	4 620	1 536	1 228	675	1 181
SOME OR ALL INSTALLED	1 255	386	868	289	223	125	231
NOT REPORTED	32	14	19	9	3	2	5
NOT REPORTED	60	24	36	8	9	7	12
STORM DOORS:							
NO DOORS COVERED	8 317	2 666	5 652	2 095	1 592	754	1 210
SOME OR ALL DOORS COVERED	8 969	2 606	6 363	2 175	1 780	934	1 474
NONE INSTALLED	7 859	2 165	5 694	1 932	1 591	838	1 334
SOME OR ALL INSTALLED	1 027	418	609	225	169	84	130
NOT REPORTED	83	23	61	18	19	12	11
NOT REPORTED	72	30	42	8	10	7	17
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	2 713	253	2 459	430	564	507	958
WITH ATTIC OR ROOF INSULATION	13 918	4 867	9 051	3 695	2 656	1 118	1 582
NONE ADDED OR INSTALLED	12 667	4 437	8 230	3 413	2 414	998	1 405
SOME OR ALL ADDED OR INSTALLED	1 153	386	768	265	224	117	161
NOT REPORTED	97	44	53	17	18	3	15
DON'T KNOW	645	154	491	141	147	60	143
NOT REPORTED	83	28	55	11	15	10	19
WALL INSULATION:							
NONE ADDED OR INSTALLED	16 615	5 030	11 585	4 148	3 245	1 623	2 569
SOME OR ALL ADDED OR INSTALLED	646	231	416	118	120	64	113
NOT REPORTED	98	42	56	12	17	9	19
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	14 729	4 391	10 338	3 620	2 888	1 490	2 341
SOME OR ALL ADDED OR INSTALLED	2 528	866	1 662	648	474	198	342
NOT REPORTED	102	45	57	11	20	8	19
OTHER INSULATION:							
NONE ADDED OR INSTALLED	16 228	4 845	11 383	4 049	3 197	1 610	2 527
SOME OR ALL ADDED OR INSTALLED	1 050	425	625	221	170	77	158
NOT REPORTED	81	32	49	9	14	9	17
RENTER OCCUPIED	3 959	557	3 402	716	748	633	1 305
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	2 753	346	2 407	503	525	455	924
SOME OR ALL WINDOWS COVERED	1 050	162	888	178	209	153	348
NONE INSTALLED	825	139	686	156	161	110	259
SOME OR ALL INSTALLED	213	19	194	22	44	43	85
NOT REPORTED	12	4	8	-	3	-	5
NOT REPORTED	156	49	107	35	14	26	32
STORM DOORS:							
NO DOORS COVERED	2 799	344	2 455	510	513	449	984
SOME OR ALL DOORS COVERED	1 004	163	840	169	220	160	291
NONE INSTALLED	891	147	745	157	185	141	262
SOME OR ALL INSTALLED	78	14	65	8	23	14	19
NOT REPORTED	34	3	31	4	12	5	10
NOT REPORTED	157	50	107	37	16	24	31
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	1 417	67	1 350	168	225	249	709
WITH ATTIC OR ROOF INSULATION	1 514	340	1 173	326	335	192	320
NONE ADDED OR INSTALLED	1 391	322	1 068	315	309	168	277
SOME OR ALL ADDED OR INSTALLED	101	14	88	11	17	21	38
NOT REPORTED	21	4	17	-	9	3	5
DON'T KNOW	872	100	771	187	173	167	245
NOT REPORTED	157	49	107	36	15	26	31
WALL INSULATION:							
NONE ADDED OR INSTALLED	3 697	485	3 212	670	707	597	1 239
SOME OR ALL ADDED OR INSTALLED	59	11	48	4	14	9	22
NOT REPORTED	203	61	142	42	28	28	44

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED--CONTINUED							
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	3 471	458	3 013	624	666	558	1 164
SOME OR ALL ADDED OR INSTALLED	282	38	244	50	56	45	93
NOT REPORTED	207	61	146	42	27	29	48
OTHER INSULATION:							
NONE ADDED OR INSTALLED	3 630	483	3 147	653	708	586	1 200
SOME OR ALL ADDED OR INSTALLED	123	13	110	23	13	18	56
NOT REPORTED	206	61	145	40	27	29	48
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	17 359	5 302	12 057	4 279	3 381	1 695	2 701
NO INSULATION ADDED OR INSTALLED	12 320	3 601	8 719	3 053	2 438	1 257	1 971
WITH INSULATION ADDED OR INSTALLED	4 630	1 547	3 083	1 143	868	405	667
LESS THAN $50	1 870	671	1 198	448	324	162	265
$50 TO $99	577	170	408	167	115	55	71
$100 TO $249	704	229	475	178	141	55	100
$250 TO $499	521	150	370	141	105	53	71
$500 TO $999	229	74	156	55	43	20	38
$1,000 OR MORE	350	119	231	71	67	30	62
DON'T KNOW	230	85	145	48	32	24	40
NOT REPORTED	149	49	100	35	41	5	19
MEDIAN	72	60	77	74	81	73	77
NOT REPORTED OR DON'T KNOW	409	154	255	83	75	34	63
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	473	122	350	116	92	47	95
LESS THAN $50	206	40	166	50	32	24	59
$50 TO $99	42	12	29	12	11	3	3
$100 TO $249	71	26	44	13	15	9	8
$250 TO $499	52	14	38	17	10	3	8
$500 TO $999	40	12	28	9	8	3	8
$1,000 OR MORE	19	4	15	5	7	2	2
DON'T KNOW	14	5	10	3	3	-	4
NOT REPORTED	28	8	20	8	6	2	4
MEDIAN	61	113	50-	60	92	50-	50-
ONLY INSTALLED STORM DOORS	428	171	256	107	78	24	47
LESS THAN $50	65	30	36	13	9	5	8
$50 TO $99	164	57	107	45	31	10	21
$100 TO $249	121	52	69	31	27	2	9
$250 TO $499	33	14	20	7	6	4	3
$500 TO $999	5	-	5	-	2	2	2
$1,000 OR MORE	4	1	3	3	-	-	-
DON'T KNOW	12	4	8	3	-	2	3
NOT REPORTED	24	14	10	5	4	-	2
MEDIAN	89	91	88	89	95	...	82
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	439	106	334	116	90	49	78
LESS THAN $50	64	19	46	12	8	6	19
$50 TO $99	54	13	41	15	11	8	7
$100 TO $249	108	25	83	31	25	9	17
$250 TO $499	95	18	76	26	21	14	16
$500 TO $999	31	9	22	8	5	3	6
$1,000 OR MORE	22	2	21	5	4	3	8
DON'T KNOW	36	9	27	12	7	5	4
NOT REPORTED	29	11	18	7	8	1	2
MEDIAN	195	166	204	203	208	219	193

TABLE D-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY										
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	14 268	66	693	1 479	1 835	1 851	1 901	2 989	1 439	1 519	485	10	56
HOUSE HEATING FUEL													
ELECTRICITY	3 900	8	24	71	149	277	470	1 067	711	838	285	-	77
OTHER THAN ELECTRICITY	10 310	55	667	1 398	1 678	1 563	1 421	1 912	727	678	201	10	48
UTILITY GAS	7 447	39	467	1 018	1 121	1 077	1 026	1 451	563	515	165	4	49
BOTTLED, TANK, OR LP GAS	888	4	71	142	174	155	116	120	43	50	14	-	43
FUEL OIL	1 555	-	90	173	304	264	224	283	100	99	19	1	47
KEROSENE, ETC	109	3	10	11	27	14	10	14	9	8	2	-	42
COAL OR COKE	44	6	7	9	5	9	4	3	-	1	-	1	30
WOOD	263	4	21	45	48	42	40	40	12	6	1	5	43
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	5	-	-	1	-	2	1	1	-	-	-	-	...
NONE	58	2	2	9	8	10	10	10	2	4	-	-	47
WATER HEATING FUEL[3]													
ELECTRICITY	6 607	11	122	350	619	748	900	1 628	921	997	310	-	66
OTHER FUEL	7 319	36	490	1 041	1 149	1 082	979	1 342	514	511	172	5	48
NONE	30	-	14	4	5	1	4	-	-	2	-	1	...
COOKING FUEL													
ELECTRICITY	9 221	13	202	568	963	1 153	1 337	2 205	1 146	1 224	410	-	63
OTHER FUEL	5 041	52	491	909	873	696	565	784	292	296	76	10	42
NONE	6	-	-	2	-	2	-	-	2	-	-	1	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	3 497	4	13	57	116	235	416	988	655	761	253	-	77
ALL OTHER FUEL COMBINATIONS	6 475	17	236	587	958	1 025	1 034	1 355	550	540	175	-	54
NONE	4 296	44	444	835	762	591	452	647	234	218	58	10	41
HEATING EQUIPMENT													
WARM-AIR FURNACE	7 793	10	174	546	867	981	1 107	1 845	904	1 009	348	1	62
HEAT PUMP	706	-	3	7	20	35	85	196	141	158	60	-	81
STEAM OR HOT WATER	437	-	43	85	93	66	55	58	16	16	4	-	39
BUILT-IN ELECTRIC UNITS	1 091	3	10	26	49	102	167	337	191	169	38	-	71
FLOOR, WALL, OR PIPELESS FURNACE	1 281	8	121	221	276	209	153	170	67	45	10	2	41
ROOM HEATERS WITH FLUE	887	13	115	190	174	159	81	88	30	32	5	-	36
ROOM HEATERS WITHOUT FLUE	1 295	19	175	280	239	181	144	151	48	40	16	3	36
FIREPLACES, STOVES, OR PORTABLE HEATERS	721	12	50	114	108	107	99	134	40	47	4	6	46
NONE	58	2	2	9	8	10	10	10	2	4	-	-	47
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	14 210	64	691	1 470	1 827	1 840	1 891	2 979	1 437	1 515	485	10	56
WITH FIREPLACE OR HEATING STOVE	6 316	24	250	533	740	785	873	1 376	668	767	294	6	58
IN WORKING ORDER	5 917	23	203	459	686	726	812	1 328	645	744	287	6	61
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	4 521	14	98	270	476	550	626	1 091	547	611	233	5	64
ALL PURCHASED	1 511	5	43	90	148	166	182	363	203	213	95	2	66
SOME OR NONE PURCHASED	2 935	9	55	175	318	376	432	718	332	383	134	2	63
NOT REPORTED	75	-	-	6	10	7	12	10	12	14	3	-	64
COAL	89	6	11	20	22	10	6	7	4	1	2	1	33
OTHER FUEL	588	2	51	101	92	88	62	86	48	43	16	-	45
NONE	690	2	40	65	94	76	114	140	43	83	34	-	55
NOT REPORTED	29	-	2	2	1	3	4	5	4	6	3	-	...
NOT IN WORKING ORDER	382	2	46	74	53	57	57	46	20	21	7	-	43
NOT REPORTED	17	-	1	1	1	3	5	2	4	2	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	7 864	38	437	935	1 081	1 053	1 013	1 599	766	748	189	5	53
NOT REPORTED	30	2	4	2	7	3	4	4	3	1	2	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	58	2	2	9	8	10	10	10	2	4	-	-	47
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	779	14	52	123	117	117	110	144	42	50	4	6	46
WITH SELECTED HEATING EQUIPMENT[4]	13 489	52	641	1 355	1 719	1 734	1 791	2 845	1 397	1 469	481	5	56
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	12 346	50	601	1 279	1 545	1 571	1 639	2 589	1 269	1 361	437	5	56
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 117	2	34	73	170	159	148	251	127	108	44	-	57
SOLAR HEATING EQUIPMENT	6	-	-	-	-	2	-	1	-	4	-	-	...
STOVE, BURNING WOOD OR COAL	347	2	8	18	62	52	46	85	37	28	10	-	56
FIREPLACE, BURNING WOOD OR COAL	191	-	-	8	14	25	41	50	16	25	11	-	63
PORTABLE ELECTRIC HEATER	418	-	20	35	64	63	44	87	51	37	17	-	56
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	96	-	1	8	26	14	15	18	6	5	3	-	48
OTHER	102	-	5	6	12	12	14	16	18	14	5	-	63
NOT REPORTED	26	-	6	3	4	3	4	4	2	-	-	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 738	42	602	1 368	1 747	1 807	1 848	2 933	1 425	1 490	473	5	56
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	65	-	-	4	2	8	17	17	3	10	5	-	63
NOT REPORTED	108	3	10	17	20	15	12	17	5	8	1	-	42

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	11 680	25	305	825	1 302	1 499	1 650	2 779	1 369	1 462	463	2	62
ROOM UNITS	5 141	17	267	641	860	834	746	994	398	330	53	2	48
1	2 852	14	212	401	517	469	389	488	207	130	24	1	45
2	1 623	4	45	169	271	246	247	344	135	143	19	1	53
3	498	-	8	55	60	92	83	111	46	34	9	-	54
4	119	-	2	13	7	24	17	36	9	12	-	-	57
5 OR MORE	49	-	-	3	5	3	9	15	2	12	-	-	65
CENTRAL SYSTEM	6 538	7	38	184	442	666	904	1 785	971	1 132	409	1	71
WITH NO AIR CONDITIONING	2 588	41	389	654	533	351	252	211	70	58	23	8	33
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	6 538	7	38	184	442	666	904	1 785	971	1 132	409	1	71
WITH SUPPLEMENTAL EQUIPMENT USED	3 495	6	20	83	239	370	479	977	530	545	246	-	71
INDIVIDUAL ROOM AIR CONDITIONING UNIT	163	-	-	5	13	14	15	42	20	35	20	-	76
AWNINGS	240	-	3	8	28	25	36	70	27	29	14	-	65
DEHUMIDIFIER	307	-	7	15	24	36	53	85	34	36	18	-	64
CEILING FAN	594	-	3	13	44	63	123	250	127	168	103	-	75
ATTIC FAN	1 047	2	2	30	69	128	158	302	142	153	61	-	68
WINDOW FAN	240	2	6	10	29	27	32	64	28	34	10	-	65
PORTABLE FAN	1 788	2	11	35	120	200	244	500	308	266	103	-	71
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 955	2	17	93	191	291	416	786	432	568	159	1	71
NOT REPORTED	89	-	1	8	12	4	9	22	10	19	5	-	69
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 729	58	655	1 294	1 393	1 185	998	1 204	466	387	76	10	43
PERSONS													
1 PERSON	2 068	40	343	480	359	215	210	228	88	71	27	7	34
2 PERSONS	4 448	13	207	499	698	667	690	900	337	362	73	1	52
3 PERSONS	2 781	8	75	193	301	410	390	648	338	328	89	2	60
4 PERSONS	2 747	3	28	164	270	319	367	701	395	355	145	1	66
5 PERSONS	1 306	1	18	80	115	147	140	311	166	254	74	-	69
6 PERSONS	563	-	11	28	50	61	76	116	79	94	49	-	69
7 PERSONS OR MORE	355	-	10	36	43	33	28	86	36	55	28	-	66
MEDIAN	2.7	1.5-	1.5	2.0	2.3	2.6	2.6	3.1	3.4	3.5	3.9	...	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	5 095	19	205	489	698	655	728	1 106	547	490	154	3	56
SOME WINDOWS COVERED	1 655	8	114	198	222	230	236	319	130	151	46	-	52
NO WINDOWS COVERED	7 478	39	370	790	908	964	929	1 557	760	871	284	7	56
NOT REPORTED	40	-	5	2	7	2	7	7	2	7	2	-	55
STORM DOORS													
ALL DOORS COVERED	4 832	7	240	559	710	665	727	1 014	426	379	104	2	53
SOME DOORS COVERED	2 675	18	112	233	344	391	371	598	274	267	66	1	56
NO DOORS COVERED	6 709	41	336	683	770	793	792	1 370	737	866	312	8	58
NOT REPORTED	52	-	5	3	12	2	12	7	2	7	3	-	53
ATTIC OR ROOF INSULATION													
YES	11 621	34	386	932	1 376	1 487	1 614	2 657	1 301	1 388	444	2	59
NO	2 133	29	268	455	377	305	215	250	101	98	29	7	37
DON'T KNOW	453	3	33	87	73	52	64	74	35	22	11	1	45
NOT REPORTED	62	-	7	5	10	7	8	8	3	12	2	-	52
SPECIFIED RENTER OCCUPIED[3]	8 018	209	931	1 226	1 116	847	752	776	332	278	62	1 488	37
HOUSE HEATING FUEL													
ELECTRICITY	2 603	20	82	251	350	312	346	398	181	156	33	474	51
OTHER THAN ELECTRICITY	5 266	188	833	937	748	522	394	370	151	122	29	977	32
UTILITY GAS	3 810	146	617	677	495	389	281	280	116	90	18	701	32
BOTTLED, TANK, OR LP GAS	416	9	59	74	80	44	46	39	16	13	7	29	36
FUEL OIL	756	21	103	120	102	61	46	36	16	13	4	232	32
KEROSENE, ETC	70	2	11	12	23	5	9	2	1	-	-	5	33
COAL OR COKE	34	3	8	7	8	4	1	-	-	1	-	3	...
WOOD	177	8	34	46	37	20	11	12	2	5	-	3	29
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	-	-	-	-	-	-	-	-	-	-	4	-
NONE	148	2	17	38	21	13	13	8	-	-	-	38	29
WATER HEATING FUEL[4]													
ELECTRICITY	3 597	23	178	440	585	470	476	489	230	189	29	528	47
OTHER FUEL	4 022	161	628	692	504	355	259	271	101	87	32	932	31
NONE	38	2	8	14	7	2	1	-	-	-	-	4	...
COOKING FUEL													
ELECTRICITY	4 098	46	253	528	586	521	513	550	225	203	39	632	46
OTHER FUEL	3 892	161	673	697	529	326	237	225	107	75	23	838	29
NONE	28	2	4	1	-	1	2	1	-	-	-	17	...

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE D-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 167	12	52	201	284	277	300	366	164	138	25	347	53
ALL OTHER FUEL COMBINATIONS	2 599	41	284	422	425	313	289	235	94	88	19	409	38
NONE	3 251	156	614	604	406	257	163	174	73	52	18	732	27
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 607	56	217	372	421	388	400	440	199	183	38	893	47
HEAT PUMP	223	-	12	21	21	34	36	39	22	16	2	19	53
STEAM OR HOT WATER	474	21	106	72	44	17	6	9	8	5	4	182	22
BUILT-IN ELECTRIC UNITS	631	6	37	97	131	70	75	83	43	20	5	62	42
FLOOR, WALL, OR PIPELESS FURNACE	724	37	116	129	109	92	54	54	15	18	3	97	33
ROOM HEATERS WITH FLUE	679	30	141	143	120	63	44	45	16	5	2	73	28
ROOM HEATERS WITHOUT FLUE	1 093	43	214	260	163	114	86	70	20	22	8	93	28
FIREPLACES, STOVES, OR PORTABLE HEATERS	439	14	72	94	85	58	38	29	8	9	-	31	32
NONE	148	2	17	38	21	13	13	8	-	-	-	38	29
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	7 869	208	914	1 188	1 095	834	739	768	332	278	62	1 450	37
WITH FIREPLACE OR HEATING STOVE	1 346	31	188	222	224	160	102	141	71	59	16	132	37
IN WORKING ORDER	1 128	24	141	183	186	132	89	126	64	57	13	113	38
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	636	13	69	97	100	89	52	82	37	38	10	49	42
ALL PURCHASED	248	4	34	33	42	22	19	33	17	17	6	20	40
SOME OR NONE PURCHASED	353	8	33	61	54	63	29	43	17	18	1	25	41
NOT REPORTED	34	1	2	2	4	4	4	6	3	3	2	3	...
COAL	41	2	12	9	7	5	1	4	-	-	-	1	26
OTHER FUEL	254	6	45	51	46	19	24	18	6	6	-	32	32
NONE	183	2	15	21	30	19	13	21	20	10	3	29	44
NOT REPORTED	14	-	2	5	2	-	-	1	-	1	-	2	...
NOT IN WORKING ORDER	208	7	45	34	36	28	11	15	7	2	3	19	32
NOT REPORTED	10	-	2	5	2	-	2	-	-	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	6 505	177	726	961	866	671	636	627	261	219	46	1 314	38
NOT REPORTED	19	-	-	5	5	3	2	-	-	-	-	4	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	148	2	17	38	21	13	13	8	-	-	-	38	29
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	16	88	132	106	70	51	37	8	9	-	69	32
WITH SELECTED HEATING EQUIPMENT[3]	7 431	194	843	1 094	1 009	777	701	739	323	269	62	1 419	38
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 016	184	805	1 021	947	706	675	701	296	251	59	1 371	38
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	392	10	38	68	60	64	24	36	28	18	2	44	39
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	30	-	1	8	4	6	2	4	2	1	-	1	...
FIREPLACE, BURNING WOOD OR COAL	22	-	-	2	4	2	1	2	2	3	2	5	...
PORTABLE ELECTRIC HEATER	283	4	33	51	46	45	17	25	16	11	1	34	37
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	53	6	3	7	6	10	5	5	1	4	-	5	41
OTHER	13	-	-	2	-	2	-	2	6	1	-	-	...
NOT REPORTED	22	-	-	5	1	6	2	2	-	-	1	5	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 531	182	794	1 119	1 037	819	726	752	329	276	61	1 436	38
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26	-	2	5	4	1	1	5	1	-	-	8	...
NOT REPORTED	59	-	9	8	9	5	8	4	1	-	-	16	35
AIR CONDITIONING													
WITH AIR CONDITIONING	5 594	72	370	696	758	665	630	690	296	258	55	1 104	45
ROOM UNITS	2 593	54	263	457	452	316	274	272	100	71	13	321	37
1	1 912	51	219	350	350	211	179	178	58	43	9	264	35
2	553	2	38	96	89	90	70	69	37	20	4	37	43
3	91	-	3	4	9	10	22	20	5	7	1	11	56
4	24	-	-	7	3	3	1	3	-	1	-	6	...
5 OR MORE	13	-	3	-	1	2	2	2	-	-	-	3	...
CENTRAL SYSTEM	3 001	19	107	239	306	348	356	418	196	187	42	784	52
WITH NO AIR CONDITIONING	2 424	137	561	530	357	183	123	86	36	20	7	384	25
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 001	19	107	239	306	348	356	418	196	187	42	784	52
WITH SUPPLEMENTAL EQUIPMENT USED	819	6	25	55	97	103	97	144	77	64	12	140	55
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	-	3	-	-	1	1	6	3	3	-	6	...
AWNINGS	15	-	-	-	4	2	-	3	-	1	-	5	...
DEHUMIDIFIER	13	-	-	-	2	2	-	2	-	2	2	5	...
CEILING FAN	37	-	-	2	8	2	2	4	6	4	1	8	...
ATTIC FAN	48	-	1	2	3	13	2	6	7	2	-	12	49
WINDOW FAN	90	2	3	2	15	15	11	18	9	6	1	7	54
PORTABLE FAN	655	4	21	49	74	82	82	121	52	48	9	113	55
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 138	13	79	175	206	240	253	270	119	122	28	632	51
NOT REPORTED	43	-	3	9	3	5	5	4	-	1	1	11	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 017	190	824	988	809	499	397	358	136	91	21	705	32

[1] RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	2 599	120	459	438	378	202	181	132	29	15	7	637	28
2 PERSONS	2 335	49	213	358	352	284	247	245	113	72	21	379	40
3 PERSONS	1 311	11	121	162	184	159	138	165	79	61	14	217	44
4 PERSONS	937	11	72	125	112	109	103	121	61	74	10	138	46
5 PERSONS	447	9	35	67	44	45	54	62	29	33	5	63	47
6 PERSONS	193	4	14	40	22	24	10	33	10	13	4	21	42
7 PERSONS OR MORE	197	5	16	36	23	24	20	17	11	10	2	33	41
MEDIAN	2.1	1.5-	1.5	2.0	2.0	2.3	2.3	2.6	2.8	3.3	2.7	1.8	...
SPECIFIED RENTER OCCUPIED[2]	8 018	209	931	1 226	1 116	847	752	776	332	278	62	1 488	37
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 639	80	469	653	557	471	360	386	187	174	43	260	38
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	688	8	61	91	118	101	81	84	48	38	10	49	44
SOME WINDOWS COVERED	243	5	34	39	41	30	20	29	14	11	2	18	38
NO WINDOWS COVERED	2 557	67	357	499	381	307	251	262	116	122	26	170	36
NOT REPORTED	151	-	16	25	17	33	9	11	10	3	4	24	42
STORM DOORS													
ALL DOORS COVERED	545	4	50	80	88	79	62	75	24	33	3	47	43
SOME DOORS COVERED	364	2	35	65	48	55	39	42	28	24	3	23	43
NO DOORS COVERED	2 578	73	368	485	403	304	251	256	125	114	33	166	36
NOT REPORTED	152	-	16	23	18	33	9	13	10	3	4	24	42
ATTIC OR ROOF INSULATION													
YES	1 397	17	100	191	193	218	153	185	98	104	22	116	46
NO	1 254	38	238	302	215	124	103	95	34	27	8	70	31
DON'T KNOW	835	25	114	135	131	95	95	96	45	39	9	51	38
NOT REPORTED	153	-	17	25	19	33	9	11	10	3	4	24	41

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	14 268	563	788	802	1 176	1 051	1 861	1 195	1 364	394	166	4 908	31
HOUSE HEATING FUEL													
GAS	8 335	344	616	683	1 027	961	1 755	1 136	1 298	371	144	-	33
UTILITY GAS	7 447	311	544	609	930	873	1 602	1 038	1 117	313	112	-	33
BOTTLED, TANK, OR LP GAS	888	33	72	73	97	87	153	102	180	58	32	-	35
OTHER THAN GAS	5 876	212	165	119	148	87	105	59	65	24	20	4 871	20
FUEL OIL	1 555	76	65	47	45	27	23	17	15	8	6	1 227	17
KEROSENE, ETC	109	7	8	4	6	4	2	3	1	1	3	70	20
ELECTRICITY	3 900	102	72	53	80	50	71	36	43	13	9	3 371	22
COAL OR COKE	44	6	-	-	1	1	-	-	-	-	-	35	...
WOOD	263	20	18	15	15	5	10	4	7	2	3	165	18
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	5	-	2	-	-	-	-	-	-	-	-	3	...
NONE	58	8	7	-	1	3	1	-	1	-	1	37	...
WATER HEATING FUEL[3]													
GAS	7 085	300	535	607	900	827	1 464	942	1 075	315	121	-	32
UTILITY GAS	6 530	284	497	559	819	773	1 389	873	959	278	99	-	32
BOTTLED, TANK, OR LP GAS	555	16	38	47	81	53	75	68	116	38	22	-	35
OTHER FUEL	6 841	236	223	164	241	206	354	227	255	70	40	4 825	28
NONE	30	5	3	2	3	3	2	1	2	1	1	5	...
COOKING FUEL													
GAS	5 006	294	460	497	620	609	965	600	673	197	89	-	30
UTILITY GAS	4 137	199	338	420	517	539	839	523	550	151	60	-	31
BOTTLED, TANK, OR LP GAS	869	95	122	76	103	70	126	77	124	46	30	-	27
OTHER FUEL	9 256	269	326	306	555	441	896	595	690	197	76	4 905	33
NONE	6	-	2	-	-	2	-	-	-	-	-	3	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	3 868	139	276	361	474	498	810	503	574	169	66	-	32
ALL OTHER FUEL COMBINATIONS	5 281	367	487	426	672	530	1 029	680	772	221	97	-	31
NONE	5 119	58	25	16	29	23	22	13	18	5	2	4 908	21
HEATING EQUIPMENT													
WARM-AIR FURNACE	7 793	246	364	373	630	606	1 120	807	926	266	99	2 356	34
HEAT PUMP	706	17	11	10	7	7	2	4	5	2	-	641	17
STEAM OR HOT WATER	437	25	24	27	23	19	44	28	63	25	11	150	36
BUILT-IN ELECTRIC UNITS	1 091	28	19	16	7	9	12	3	5	-	2	991	16
FLOOR, WALL, OR PIPELESS FURNACE	1 281	75	105	121	186	147	248	133	103	25	13	125	27
ROOM HEATERS WITH FLUE	887	42	58	66	103	62	142	67	88	24	15	221	30
ROOM HEATERS WITHOUT FLUE	1 295	62	143	149	172	177	243	133	145	42	13	14	28
FIREPLACES, STOVES, OR PORTABLE HEATERS	721	61	57	41	47	22	51	20	29	10	11	373	21
NONE	58	8	7	-	1	3	1	-	1	-	1	37	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	14 210	556	781	802	1 175	1 048	1 860	1 195	1 363	394	164	4 871	31
WITH FIREPLACE OR HEATING STOVE	6 316	238	249	238	448	384	712	540	664	219	92	2 533	34
IN WORKING ORDER	5 917	210	234	219	407	358	645	489	612	207	86	2 448	34
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	4 521	143	143	164	296	252	451	368	461	152	60	2 031	35
ALL PURCHASED	1 511	43	32	45	112	92	182	135	161	81	28	601	37
SOME OR NONE PURCHASED	2 935	96	110	116	183	155	253	229	286	67	31	1 408	34
NOT REPORTED	75	4	1	3	1	5	16	4	13	3	2	22	37
COAL	89	5	6	3	7	2	7	2	3	3	2	48	23
OTHER FUEL	588	33	47	31	53	57	116	63	63	21	13	90	32
NONE	690	29	36	22	48	45	69	52	82	31	11	267	34
NOT REPORTED	29	-	2	-	3	2	3	5	3	-	-	12	...
NOT IN WORKING ORDER	382	28	14	18	41	25	64	51	48	12	6	73	34
NOT REPORTED	17	-	-	-	1	-	2	-	3	-	-	11	...
WITHOUT FIREPLACE OR HEATING STOVE	7 864	313	527	565	724	664	1 144	655	696	175	70	2 331	29
NOT REPORTED	30	4	5	-	3	1	5	-	3	-	2	7	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	58	8	7	-	1	3	1	-	1	-	1	37	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	779	68	69	41	48	25	52	20	30	10	12	409	21
WITH SELECTED HEATING EQUIPMENT[4]	13 489	495	724	762	1 128	1 026	1 809	1 176	1 333	384	154	4 498	32
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	12 346	448	662	723	1 053	941	1 700	1 083	1 234	353	134	4 016	32
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 117	45	57	36	71	85	106	90	100	31	18	478	32
SOLAR HEATING EQUIPMENT	6	-	-	-	3	-	-	-	-	-	-	4	...
STOVE, BURNING WOOD OR COAL	347	11	15	12	11	13	31	14	21	6	4	211	32
FIREPLACE, BURNING WOOD OR COAL	191	3	7	9	3	17	16	22	23	5	3	83	39
PORTABLE ELECTRIC HEATER	418	17	27	11	34	42	44	44	39	17	6	139	32
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	96	7	7	4	8	7	17	15	12	2	2	15	34
OTHER	102	9	6	2	13	5	4	4	11	2	3	43	24
NOT REPORTED	26	2	5	2	4	-	3	3	-	-	2	4	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 738	528	748	762	1 117	1 017	1 790	1 144	1 323	381	159	4 768	32
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	65	4	1	2	5	6	6	9	2	-	-	31	...
NOT REPORTED	108	3	8	7	19	10	20	16	5	4	2	13	29

[1] RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	11 680	415	614	608	934	856	1 539	1 015	1 116	330	140	4 113	32
ROOM UNITS	5 141	244	332	362	490	433	766	416	441	115	60	1 482	29
1	2 852	146	194	207	273	238	410	223	217	63	30	852	28
2	1 623	68	110	107	134	134	260	128	162	28	19	472	31
3	498	25	19	38	57	44	79	39	49	19	6	122	31
4	119	5	5	9	15	14	12	18	12	2	2	24	29
5 OR MORE	49	1	3	-	9	4	6	8	2	2	3	11	33
CENTRAL SYSTEM	6 538	171	282	246	445	423	772	599	675	215	80	2 632	35
WITH NO AIR CONDITIONING	2 588	148	174	194	241	195	322	181	248	65	26	794	28
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	6 538	171	282	246	445	423	772	599	675	215	80	2 632	35
WITH SUPPLEMENTAL EQUIPMENT USED	3 495	112	160	128	236	241	426	337	366	108	47	1 335	34
INDIVIDUAL ROOM AIR CONDITIONING UNIT	163	6	7	13	10	5	19	19	16	7	3	57	36
AWNINGS	240	11	17	3	24	13	36	19	12	7	5	92	31
DEHUMIDIFIER	307	6	3	8	20	20	30	41	45	17	8	106	42
CEILING FAN	894	44	39	31	77	57	102	49	85	17	5	390	30
ATTIC FAN	1 047	19	26	23	54	61	127	112	120	55	14	437	39
WINDOW FAN	240	6	10	9	5	12	43	26	25	8	10	87	37
PORTABLE FAN	1 788	66	89	76	135	137	205	176	181	48	24	653	33
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 955	58	122	113	200	178	335	253	300	105	31	1 260	35
NOT REPORTED	89	2	1	6	8	4	12	8	8	2	1	37	34
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 729	392	506	556	731	628	1 089	597	689	179	86	2 276	28
PERSONS													
1 PERSON	2 068	144	191	152	207	182	284	138	145	43	13	570	26
2 PERSONS	4 448	182	263	273	378	355	579	353	395	112	41	1 517	30
3 PERSONS	2 781	98	118	149	222	178	368	235	295	74	34	1 010	33
4 PERSONS	2 747	83	121	113	218	184	349	233	262	65	30	1 087	33
5 PERSONS	1 306	39	51	61	84	91	165	120	154	45	30	465	35
6 PERSONS	563	10	22	38	41	33	78	77	67	30	15	154	37
7 PERSONS OR MORE	355	7	22	16	25	28	37	40	45	25	3	105	36
MEDIAN	2.7	2.3	2.3	2.4	2.5	2.5	2.7	2.9	3.0	3.1	3.3	2.9	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	5 095	158	182	171	330	332	580	438	459	129	68	2 247	34
SOME WINDOWS COVERED	1 655	64	97	88	114	87	223	176	203	57	20	527	35
NO WINDOWS COVERED	7 478	340	502	541	725	632	1 051	582	699	207	78	2 120	29
NOT REPORTED	40	2	7	2	6	-	7	-	3	2	-	14	...
STORM DOORS													
ALL DOORS COVERED	4 832	133	201	206	348	346	632	452	475	130	64	1 843	34
SOME DOORS COVERED	2 675	96	120	153	221	195	381	246	304	92	28	838	33
NO DOORS COVERED	6 709	333	460	441	598	509	837	497	580	171	74	2 208	28
NOT REPORTED	52	2	7	2	8	1	10	-	4	2	-	18	...
ATTIC OR ROOF INSULATION													
YES	11 621	407	543	594	905	793	1 448	980	1 101	316	131	4 402	32
NO	2 133	121	203	166	224	210	335	187	209	59	23	397	28
DON'T KNOW	453	33	35	41	37	49	68	29	46	18	11	86	28
NOT REPORTED	62	2	7	2	10	-	10	-	9	2	-	21	30
SPECIFIED RENTER OCCUPIED[3]	8 018	590	469	410	438	338	506	286	269	98	42	4 571	22
HOUSE HEATING FUEL													
GAS	4 226	409	387	348	377	288	467	261	254	85	34	1 316	23
UTILITY GAS	3 810	366	343	310	340	249	414	230	203	66	14	1 275	23
BOTTLED, TANK, OR LP GAS	416	43	44	38	37	39	53	31	51	19	19	41	28
OTHER THAN GAS	3 644	159	77	54	55	48	36	25	14	13	7	3 155	16
FUEL OIL	756	75	36	19	20	16	14	7	7	4	4	553	13
KEROSENE, ETC	70	6	5	-	6	4	1	-	1	-	1	47	...
ELECTRICITY	2 603	60	30	25	20	20	17	15	4	9	2	2 401	17
COAL OR COKE	34	-	2	2	-	-	1	-	-	1	-	28	...
WOOD	177	18	5	7	8	8	4	2	1	-	1	123	18
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	-	-	-	-	-	-	-	-	-	-	4	-
NONE	148	22	5	7	6	2	3	-	2	-	2	101	12
WATER HEATING FUEL[4]													
GAS	3 806	373	352	311	318	250	362	219	185	74	22	1 341	22
UTILITY GAS	3 593	351	328	290	298	232	335	206	166	65	11	1 310	22
BOTTLED, TANK, OR LP GAS	213	22	23	21	20	18	27	14	18	8	11	30	26
OTHER FUEL	3 813	179	85	77	91	55	107	57	66	18	16	3 063	22
NONE	38	13	5	3	-	-	1	-	2	-	-	14	...
COOKING FUEL													
GAS	3 845	494	381	330	323	275	347	201	172	59	19	1 244	21
UTILITY GAS	3 360	400	309	286	270	229	298	174	139	46	6	1 202	21
BOTTLED, TANK, OR LP GAS	485	94	72	43	54	46	48	27	32	13	13	42	21
OTHER FUEL	4 145	94	87	79	114	63	160	85	98	37	23	3 306	28
NONE	28	2	2	1	1	-	-	-	-	2	-	21	...

[1] RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE D-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 593	258	258	230	238	195	265	162	132	43	7	806	22
ALL OTHER FUEL COMBINATIONS	2 588	323	210	176	191	139	236	118	135	53	33	974	22
NONE	2 836	8	2	3	8	5	5	7	3	2	1	2 791	26
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 607	148	158	115	151	115	183	111	80	34	10	2 502	23
HEAT PUMP	223	5	2	2	1	-	2	-	-	-	-	210	...
STEAM OR HOT WATER	474	59	8	12	9	10	13	15	16	12	-	319	18
BUILT-IN ELECTRIC UNITS	631	25	12	5	4	8	3	2	2	2	1	568	12
FLOOR, WALL, OR PIPELESS FURNACE	724	90	71	51	71	45	97	28	41	12	9	210	23
ROOM HEATERS WITH FLUE	679	55	61	47	48	47	63	44	48	13	9	244	26
ROOM HEATERS WITHOUT FLUE	1 093	129	127	148	130	98	129	80	73	22	10	146	22
FIREPLACES, STOVES, OR PORTABLE HEATERS	439	55	25	23	17	15	12	7	9	3	2	272	16
NONE	148	22	5	7	6	2	3	-	2	-	2	101	12
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	7 869	568	464	402	432	337	503	286	268	98	41	4 470	22
WITH FIREPLACE OR HEATING STOVE	1 346	114	101	69	82	76	92	65	67	24	15	642	23
IN WORKING ORDER	1 128	93	78	59	63	53	70	51	52	18	14	576	23
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	636	44	39	25	24	26	40	29	34	7	7	360	26
ALL PURCHASED	248	15	19	8	6	16	12	8	10	4	4	146	26
SOME OR NONE PURCHASED	353	27	19	13	17	10	26	18	23	3	4	192	27
NOT REPORTED	34	1	2	4	-	-	2	3	1	-	-	22	...
COAL	41	2	2	9	3	-	-	-	2	1	-	22	...
OTHER FUEL	254	40	23	22	24	23	21	10	9	5	3	74	21
NONE	183	8	12	2	12	2	9	9	8	6	4	112	28
NOT REPORTED	14	-	2	-	-	2	-	3	-	-	-	7	...
NOT IN WORKING ORDER	208	18	23	10	18	21	20	13	15	5	1	63	26
NOT REPORTED	10	3	-	-	-	2	2	-	-	-	-	3	...
WITHOUT FIREPLACE OR HEATING STOVE	6 505	452	361	332	350	257	411	222	201	73	25	3 821	22
NOT REPORTED	19	2	2	2	-	3	-	-	-	2	-	8	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	148	22	5	7	6	2	3	-	2	-	2	101	12
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	77	30	30	23	16	15	7	10	3	4	372	15
WITH SELECTED HEATING EQUIPMENT[3]	7 431	513	439	380	415	322	491	279	259	95	38	4 199	23
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 016	487	408	355	381	298	453	258	242	85	36	4 013	23
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	392	23	29	23	34	23	38	22	18	8	2	173	25
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	30	-	2	2	2	1	-	4	1	-	-	18	...
FIREPLACE, BURNING WOOD OR COAL	22	-	2	-	1	2	-	-	2	-	-	16	...
PORTABLE ELECTRIC HEATER	283	16	20	16	27	15	28	15	13	7	1	124	25
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	53	7	5	5	4	2	10	6	1	1	1	11	27
OTHER	13	-	1	-	-	3	-	-	1	-	-	8	...
NOT REPORTED	22	2	2	2	-	2	-	-	-	2	-	13	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 531	537	430	381	403	300	466	274	247	90	35	4 368	22
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26	-	2	1	2	2	2	2	-	-	3	12	...
NOT REPORTED	59	11	5	6	3	3	1	-	4	2	-	23	16
AIR CONDITIONING													
WITH AIR CONDITIONING	5 594	347	262	242	263	210	325	175	157	51	20	3 540	23
ROOM UNITS	2 593	281	181	173	189	150	230	130	127	35	17	1 080	23
1	1 912	198	125	121	130	112	162	93	78	21	11	861	23
2	553	70	52	43	52	32	48	32	41	9	6	168	22
3	91	6	5	4	6	5	18	2	7	3	-	35	31
4	24	3	-	2	-	2	2	2	2	2	-	10	...
5 OR MORE	13	3	-	2	2	-	-	1	-	-	-	6	...
CENTRAL SYSTEM	3 001	66	81	69	74	60	96	45	30	17	4	2 460	23
WITH NO AIR CONDITIONING	2 424	243	207	168	174	128	181	112	112	47	22	1 031	22
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 001	66	81	69	74	60	96	45	30	17	4	2 460	23
WITH SUPPLEMENTAL EQUIPMENT USED	819	28	26	24	29	19	36	21	9	7	2	618	23
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	-	1	1	1	-	2	1	1	-	-	17	...
AWNINGS	15	-	-	3	1	-	1	-	-	-	-	10	...
DEHUMIDIFIER	13	-	-	-	2	-	3	-	-	2	-	6	...
CEILING FAN	37	3	3	-	3	3	-	-	-	-	-	25	...
ATTIC FAN	88	2	2	2	2	1	6	3	4	-	-	27	...
WINDOW FAN	90	9	3	-	-	-	5	2	1	-	-	70	...
PORTABLE FAN	655	17	19	19	23	15	24	17	6	7	2	506	23
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 138	35	54	42	45	40	58	23	21	8	2	1 811	23
NOT REPORTED	43	3	2	3	-	1	2	1	1	2	-	30	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 017	524	388	340	364	278	411	241	239	81	39	2 111	22

[1] RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	2 599	242	160	109	131	85	108	42	30	23	11	1 659	17
2 PERSONS	2 335	166	137	127	117	98	121	78	70	19	9	1 394	21
3 PERSONS	1 311	81	75	74	88	52	106	54	52	15	5	709	23
4 PERSONS	937	54	59	46	51	57	89	46	47	12	7	467	27
5 PERSONS	447	26	22	31	25	21	45	35	34	16	4	190	31
6 PERSONS	193	13	9	9	18	20	13	13	17	10	2	71	28
7 PERSONS OR MORE	197	8	7	15	8	5	24	19	20	3	4	82	35
MEDIAN	2.1	1.8	2.0	2.3	2.3	2.4	2.7	2.9	3.2	2.9	2.7	1.9	...
SPECIFIED RENTER OCCUPIED[2]	8 018	590	469	410	438	338	506	286	269	98	42	4 571	22
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 639	307	313	264	294	250	396	222	215	83	35	1 259	25
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	688	48	41	28	49	34	70	48	45	17	7	300	28
SOME WINDOWS COVERED	243	24	22	9	15	18	28	21	10	3	4	89	27
NO WINDOWS COVERED	2 557	229	242	215	226	194	294	149	154	61	24	769	24
NOT REPORTED	151	5	8	12	5	5	3	5	6	2	-	101	19
STORM DOORS													
ALL DOORS COVERED	545	32	22	22	52	20	63	33	43	15	8	235	31
SOME DOORS COVERED	364	28	26	16	28	28	40	28	19	5	5	140	27
NO DOORS COVERED	2 578	240	258	216	209	195	290	156	148	61	22	783	24
NOT REPORTED	152	7	8	10	5	6	3	5	6	2	-	101	21
ATTIC OR ROOF INSULATION													
YES	1 397	121	104	68	117	74	164	80	78	32	10	550	26
NO	1 254	106	127	118	102	108	151	86	79	35	8	332	25
DON'T KNOW	835	75	74	68	71	63	78	51	51	14	17	273	24
NOT REPORTED	153	5	8	10	5	5	3	5	6	2	-	105	21

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION

	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	14 268	748	500	308	274	247	238	214	103	306	11 332	271
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	1 971	116	178	192	222	215	219	190	95	278	266	466
FUEL OIL	1 555	78	135	139	184	185	210	176	92	268	88	506
COAL OR COKE	44	2	5	5	10	6	4	1	-	3	7	348
KEROSENE, ETC	109	11	10	21	18	19	5	10	-	7	6	348
WOOD	263	24	28	26	9	5	-	2	2	1	166	189
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	12 240	631	321	116	52	30	19	24	8	28	11 011	100-
UTILITY GAS	7 447	385	180	64	29	21	12	16	5	12	6 722	100-
BOTTLED, TANK, OR LP GAS	888	43	25	14	5	1	4	4	2	6	783	137
ELECTRICITY	3 900	201	116	37	17	7	3	4	2	9	3 503	100-
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	5	2	-	-	-	-	-	-	-	-	3	...
NONE	58	1	1	-	-	2	-	-	-	-	54	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	7 793	474	274	146	147	138	148	132	58	148	6 130	257
HEAT PUMP	706	51	13	7	6	1	-	-	-	3	626	100-
STEAM OR HOT WATER	437	6	9	8	8	11	30	37	32	113	183	755
BUILT-IN ELECTRIC UNITS	1 091	34	26	12	3	4	-	1	-	2	1 009	127
FLOOR, WALL, OR PIPELESS FURNACE	1 281	41	34	30	32	27	11	8	2	16	1 080	283
ROOM HEATERS WITH FLUE	887	38	54	43	48	48	39	32	7	19	559	361
ROOM HEATERS WITHOUT FLUE	1 295	42	27	8	4	2	3	1	1	3	1 203	113
FIREPLACES, STOVES, OR PORTABLE HEATERS	721	61	62	55	26	13	6	4	3	1	490	187
NONE	58	1	1	-	-	2	-	-	-	-	54	...
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	14 210	746	499	308	274	245	238	214	103	306	11 278	271
WITH FIREPLACE OR HEATING STOVE	6 316	653	393	210	154	138	130	137	66	203	4 232	198
IN WORKING ORDER	5 917	641	390	206	144	131	122	129	62	190	3 902	193
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	4 521	590	353	172	94	91	74	89	39	138	2 881	165
ALL PURCHASED	1 511	377	238	106	40	33	29	29	16	44	599	133
SOME OR NONE PURCHASED	2 935	204	110	64	53	57	45	59	21	92	2 231	259
NOT REPORTED	75	10	6	2	2	1	-	2	2	2	50	...
COAL	89	11	12	13	16	6	6	2	1	7	16	301
OTHER FUEL	588	25	14	11	21	19	14	17	2	9	455	378
NONE	690	13	9	10	13	14	26	21	20	35	529	581
NOT REPORTED	29	2	2	-	-	1	2	-	-	2	22	...
NOT IN WORKING ORDER	382	10	3	3	10	8	8	8	3	12	316	491
NOT REPORTED	17	3	-	1	-	-	-	-	-	-	14	...
WITHOUT FIREPLACE OR HEATING STOVE	7 864	93	104	96	118	107	107	77	37	101	7 024	408
NOT REPORTED	30	-	2	3	2	-	-	-	-	2	22	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	58	1	1	-	-	2	-	-	-	-	54	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 738	702	480	287	252	229	226	208	100	299	10 956	272
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	65	10	4	1	3	-	-	1	-	-	47	...
NOT REPORTED	108	3	2	-	4	3	2	-	-	2	92	...
AIR CONDITIONING												
WITH AIR CONDITIONING	11 680	621	406	212	176	144	145	146	74	225	9 529	222
ROOM UNITS	5 141	163	150	109	92	95	93	90	47	143	4 159	375
1	2 852	82	82	67	64	65	61	49	17	69	2 295	373
2	1 823	50	55	34	22	21	22	36	13	47	1 324	350
3	498	22	12	7	7	6	8	4	13	18	401	406
4	119	5	1	1	-	3	2	-	2	5	101	...
5 OR MORE	49	4	-	-	-	-	-	2	2	4	38	...
CENTRAL SYSTEM	6 538	459	257	102	84	49	52	56	27	82	5 370	148
WITH NO AIR CONDITIONING	2 588	127	93	96	97	102	93	67	28	81	1 803	378
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	6 538	459	257	102	84	49	52	56	27	82	5 370	148
WITH SUPPLEMENTAL EQUIPMENT USED	3 495	253	150	57	53	28	29	32	14	51	2 827	153
INDIVIDUAL ROOM AIR CONDITIONING UNIT	163	8	7	4	5	1	-	-	-	8	129	...
AWNINGS	240	10	2	3	4	6	2	-	4	8	198	408
DEHUMIDIFIER	307	22	12	7	3	6	6	6	3	8	235	233
CEILING FAN	894	77	41	19	6	5	6	4	2	6	729	114
ATTIC FAN	1 047	85	52	20	18	12	18	17	10	28	788	186
WINDOW FAN	240	19	7	3	2	3	2	-	-	7	199	125
PORTABLE FAN	1 788	124	83	18	30	10	14	13	8	21	1 468	143
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 955	205	105	46	29	21	23	23	12	29	2 462	139
NOT REPORTED	89	1	2	-	2	-	-	1	1	2	81	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 729	289	243	206	190	197	186	158	75	224	5 962	376
PERSONS												
1 PERSON	2 068	96	67	46	48	48	43	27	15	42	1 637	313
2 PERSONS	4 448	250	137	100	102	76	96	94	35	108	3 451	311
3 PERSONS	2 781	156	99	60	46	55	38	27	22	53	2 225	238
4 PERSONS	2 747	151	124	57	44	33	37	36	15	60	2 190	206
5 PERSONS	1 306	67	49	22	20	21	12	21	14	15	1 064	220
6 PERSONS	563	16	16	15	10	8	6	7	1	18	467	312
7 PERSONS OR MORE	355	11	8	7	3	5	7	3	2	11	298	354
MEDIAN	2.7	2.7	3.0	2.6	2.4	2.5	2.3	2.3	2.6	2.6	2.8	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	5 095	290	190	127	125	115	123	121	54	202	3 747	352
SOME WINDOWS COVERED	1 655	86	62	47	33	43	40	40	24	47	1 235	386
NO WINDOWS COVERED	7 478	369	248	133	114	89	75	52	25	53	6 320	184
NOT REPORTED	40	2	-	1	2	-	-	2	-	4	29	...
STORM DOORS												
ALL DOORS COVERED	4 832	223	181	114	112	122	127	124	62	179	3 588	392
SOME DOORS COVERED	2 675	155	82	73	63	50	70	35	19	60	2 067	291
NO DOORS COVERED	6 709	368	236	121	97	75	40	53	21	63	5 635	171
NOT REPORTED	52	2	-	1	2	-	-	2	-	4	42	...
ATTIC OR ROOF INSULATION												
YES	11 621	634	428	249	218	201	179	181	86	265	9 179	263
NO	2 133	101	62	52	44	40	47	25	14	30	1 719	284
DON'T KNOW	453	11	9	6	10	6	11	6	3	7	386	376
NOT REPORTED	62	2	1	2	2	-	1	2	-	5	48	...
SPECIFIED RENTER OCCUPIED[3]	8 018	154	135	120	114	89	65	41	22	56	7 221	290
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	1 037	52	74	86	97	79	57	36	19	52	483	366
FUEL OIL	756	21	40	55	62	64	45	30	17	43	379	417
COAL OR COKE	34	2	6	5	5	4	1	1	-	1	9	...
KEROSENE, ETC	70	2	4	13	15	7	8	1	1	8	10	370
WOOD	177	27	24	14	16	4	3	4	1	1	85	182
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	6 833	101	60	34	17	9	7	5	3	4	6 593	130
UTILITY GAS	3 810	53	23	23	13	5	7	5	2	2	3 675	159
BOTTLED, TANK, OR LP GAS	416	13	14	7	3	1	-	-	1	1	375	149
ELECTRICITY	2 603	35	23	3	1	2	-	-	-	1	2 538	100-
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	-	-	-	-	-	-	-	-	-	4	-
NONE	148	1	1	-	-	1	1	-	-	-	145	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 607	54	45	34	41	42	20	12	4	18	3 337	304
HEAT PUMP	223	1	1	-	-	2	-	-	-	-	220	...
STEAM OR HOT WATER	474	3	5	6	1	4	4	10	2	19	419	644
BUILT-IN ELECTRIC UNITS	631	6	1	1	-	1	-	-	-	-	623	...
FLOOR, WALL, OR PIPELESS FURNACE	724	3	10	11	7	5	3	4	4	-	677	294
ROOM HEATERS WITH FLUE	679	28	17	34	35	22	29	9	10	16	478	361
ROOM HEATERS WITHOUT FLUE	1 093	16	15	2	4	2	2	-	1	-	1 050	134
FIREPLACES, STOVES, OR PORTABLE HEATERS	439	42	41	32	27	10	6	6	1	2	272	204
NONE	148	1	1	-	-	1	1	-	-	-	145	...
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	7 869	154	138	120	114	88	64	41	22	56	7 076	290
WITH FIREPLACE OR HEATING STOVE	1 346	113	90	54	52	42	35	17	13	28	902	234
IN WORKING ORDER	1 128	103	88	52	42	38	32	17	11	26	718	226
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	636	91	71	34	29	18	20	10	5	14	344	177
ALL PURCHASED	248	60	45	26	18	13	9	5	2	5	67	168
SOME OR NONE PURCHASED	353	28	25	7	8	5	10	4	3	8	256	181
NOT REPORTED	34	3	1	1	3	1	2	2	-	1	21	...
COAL	41	5	8	6	8	6	1	-	2	1	3	298
OTHER FUEL	254	1	1	6	4	9	7	5	5	9	207	531
NONE	183	3	6	4	2	4	3	1	-	2	158	...
NOT REPORTED	14	2	2	2	-	-	-	1	-	-	6	...
NOT IN WORKING ORDER	208	9	2	2	7	4	2	1	2	2	177	...
NOT REPORTED	10	2	-	-	2	-	-	-	-	-	6	...
WITHOUT FIREPLACE OR HEATING STOVE	6 505	40	43	65	63	46	30	23	9	28	6 158	340
NOT REPORTED	19	-	2	1	-	-	-	-	-	-	16	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	148	1	1	-	-	1	1	-	-	-	145	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 531	111	94	90	96	82	55	38	20	49	6 898	322
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	26	2	1	-	-	-	-	-	-	-	23	...
NOT REPORTED	59	-	2	1	-	-	-	-	-	-	56	...

[1] RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3] EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE D-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	5 594	65	66	51	50	38	27	14	12	25	5 246	285
ROOM UNITS	2 593	21	38	47	43	31	24	13	10	20	2 346	340
1	1 912	14	30	39	36	20	18	8	5	13	1 729	323
2	553	5	5	7	5	9	6	2	3	5	505	409
3	91	2	2	-	2	2	-	-	2	2	82	...
4	24	-	2	-	-	-	-	2	-	-	21	...
5 OR MORE	13	-	-	-	-	-	-	2	-	1	10	...
CENTRAL SYSTEM	3 001	44	27	4	7	6	3	2	2	5	2 900	123
WITH NO AIR CONDITIONING	2 424	89	69	69	65	51	38	26	10	31	1 976	294
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	3 001	44	27	4	7	6	3	2	2	5	2 900	123
WITH SUPPLEMENTAL EQUIPMENT USED	819	20	12	2	-	4	2	2	1	4	772	125
INDIVIDUAL ROOM AIR CONDITIONING UNIT	24	-	1	-	-	-	-	-	-	2	21	...
AWNINGS	15	-	-	-	-	-	-	-	-	-	15	-
DEHUMIDIFIER	13	-	-	-	-	-	2	2	-	-	9	...
CEILING FAN	37	4	1	-	-	-	-	-	-	-	32	...
ATTIC FAN	48	-	-	-	-	-	-	-	-	2	46	...
WINDOW FAN	90	4	2	-	-	1	1	-	-	1	82	...
PORTABLE FAN	655	18	10	2	-	3	2	-	1	1	618	103
WITH NO SUPPLEMENTAL EQUIPMENT USED	2 138	24	15	1	7	2	1	-	-	1	2 087	111
NOT REPORTED	43	-	-	1	-	-	-	-	2	1	40	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 017	110	108	116	108	83	62	39	20	51	4 322	313
PERSONS												
1 PERSON	2 599	38	34	39	34	22	14	5	2	3	2 408	257
2 PERSONS	2 335	33	37	37	30	22	16	15	14	11	2 120	302
3 PERSONS	1 311	30	24	17	19	14	12	9	2	18	1 165	307
4 PERSONS	937	30	21	11	18	21	15	6	1	9	805	320
5 PERSONS	447	13	12	10	6	4	3	2	2	3	393	217
6 PERSONS	193	6	2	5	2	2	1	3	1	5	166	...
7 PERSONS OR MORE	197	4	3	2	5	4	4	3	1	7	164	...
MEDIAN	2.1	2.7	2.4	2.1	2.3	2.5	2.7	2.6	...	3.3	2.1	...
SPECIFIED RENTER OCCUPIED[2]	8 018	154	135	120	114	89	65	41	22	56	7 221	290
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 639	130	102	105	102	85	56	33	20	55	2 949	307
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	688	28	22	22	26	25	14	14	9	29	498	382
SOME WINDOWS COVERED	243	9	2	15	13	11	6	3	4	8	171	370
NO WINDOWS COVERED	2 557	87	78	67	58	50	36	17	7	18	2 140	264
NOT REPORTED	151	5	-	1	5	-	-	-	-	-	140	...
STORM DOORS												
ALL DOORS COVERED	545	9	13	21	24	15	10	11	5	18	418	382
SOME DOORS COVERED	364	15	6	10	6	12	14	6	7	11	276	452
NO DOORS COVERED	2 578	102	83	73	68	58	32	16	9	25	2 112	265
NOT REPORTED	152	3	-	1	5	-	-	-	-	-	143	...
ATTIC OR ROOF INSULATION												
YES	1 397	59	44	37	34	25	24	16	11	21	1 125	288
NO	1 254	51	43	47	43	34	25	10	5	24	971	300
DON'T KNOW	835	16	15	20	18	26	7	6	4	10	712	356
NOT REPORTED	153	3	-	1	7	-	-	-	-	-	142	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-11. HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

SOUTH REGION	TOTAL	HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE, MOTOR-CYCLE, OR MOPED	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME
HOUSING UNITS WITH EMPLOYED HOUSEHOLDERS[1]	17 792	12 400	3 628	546	214	42	524	54	384
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	12 093	8 855	2 406	193	113	11	204	36	275
LESS THAN 1 MILE	745	483	54	-	9	3	185	11	-
1 TO 4 MILES	2 394	2 005	298	36	34	3	14	3	-
5 TO 9 MILES	2 349	1 886	359	67	25	3	2	7	-
10 TO 19 MILES	2 708	1 999	636	49	25	-	-	-	-
20 TO 29 MILES	1 005	591	379	21	14	-	-	-	-
30 TO 49 MILES	700	384	308	2	6	-	-	-	-
50 MILES OR MORE	287	159	127	2	-	-	-	-	-
WORKS AT HOME	275	-	-	-	-	-	-	-	275
NO FIXED PLACE OF WORK	1 630	1 348	245	16	2	2	2	15	-
MEDIAN	9.2	8.3	15.8	8.9	7.6	...	1.0-	...	-
RENTER OCCUPIED	5 699	3 544	1 222	353	101	31	321	18	109
LESS THAN 1 MILE	594	246	62	5	19	2	258	3	-
1 TO 4 MILES	1 429	966	245	98	43	23	47	6	-
5 TO 9 MILES	1 239	865	231	120	18	2	-	2	-
10 TO 19 MILES	1 092	694	303	85	11	-	-	-	-
20 TO 29 MILES	363	219	125	16	2	-	-	-	-
30 TO 49 MILES	163	94	67	2	1	-	-	-	-
50 MILES OR MORE	82	46	35	1	-	-	-	-	-
WORKS AT HOME	109	-	-	-	-	-	-	-	-
NO FIXED PLACE OF WORK	627	413	154	27	6	5	16	6	109
MEDIAN	6.8	7.0	9.9	7.5	3.6	...	1.0-	...	-
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	12 093	8 855	2 406	193	113	11	204	36	275
LESS THAN 15 MINUTES	3 626	2 992	410	8	37	5	168	6	-
15 TO 29 MINUTES	3 751	2 868	760	36	52	5	26	4	-
30 TO 44 MINUTES	1 637	1 054	503	55	16	-	5	3	-
45 TO 59 MINUTES	621	322	261	31	4	-	-	3	-
1 HOUR TO 1 HOUR AND 29 MINUTES	361	168	156	34	2	-	-	1	-
1 HOUR AND 30 MINUTES OR MORE	191	104	71	13	-	-	2	2	-
WORKS AT HOME	275	-	-	-	-	-	-	-	275
NO FIXED PLACE OF WORK	1 630	1 348	245	16	2	2	2	15	-
MEDIAN	20.9	19.0	28.2	42.2	20.5	...	15.0-	...	-
RENTER OCCUPIED	5 699	3 544	1 222	353	101	31	321	18	109
LESS THAN 15 MINUTES	1 972	1 340	306	29	49	19	223	5	-
15 TO 29 MINUTES	1 839	1 232	424	78	37	7	59	2	-
30 TO 44 MINUTES	726	379	205	117	7	-	17	1	-
45 TO 59 MINUTES	216	110	61	42	1	-	3	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	130	37	52	38	1	-	2	-	-
1 HOUR AND 30 MINUTES OR MORE	80	34	21	22	-	-	-	2	-
WORKS AT HOME	109	-	-	-	-	-	-	-	109
NO FIXED PLACE OF WORK	627	413	154	27	6	5	16	6	-
MEDIAN	19.1	17.7	23.1	37.2	15.0-	...	15.0-	...	-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	15 681	12 411	5 180	7 231	3 270
HOUSE HEATING FUEL					
OWNER OCCUPIED	9 472	7 264	2 664	4 600	2 209
UTILITY GAS	6 540	5 565	2 149	3 416	975
BOTTLED, TANK, OR LP GAS	298	128	11	117	170
FUEL OIL	456	298	120	178	158
KEROSENE, ETC	1	-	-	-	1
ELECTRICITY	1 801	1 065	310	755	736
COAL OR COKE	12	2	-	2	10
WOOD	203	52	9	43	151
SOLAR HEAT	7	5	-	5	2
OTHER FUEL	1	-	-	-	1
NONE	154	149	65	84	5
RENTER OCCUPIED	6 208	5 147	2 516	2 632	1 061
UTILITY GAS	3 952	3 453	1 712	1 741	499
BOTTLED, TANK, OR LP GAS	109	42	3	38	68
FUEL OIL	215	144	105	38	71
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	1 588	1 245	573	672	342
COAL OR COKE	6	1	-	1	5
WOOD	80	29	-	29	51
SOLAR HEAT	3	1	-	1	2
OTHER FUEL	35	29	27	2	6
NONE	221	204	95	109	17
WATER HEATING FUEL[1]					
OWNER OCCUPIED	9 427	7 247	2 662	4 584	2 180
UTILITY GAS	6 291	5 477	2 139	3 337	815
BOTTLED, TANK, OR LP GAS	259	106	18	88	153
FUEL OIL	14	7	4	3	7
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	2 825	1 631	495	1 136	1 194
COAL OR COKE	1	-	-	-	1
WOOD	6	3	-	3	2
SOLAR HEAT	25	17	3	14	8
OTHER FUEL	3	3	2	2	-
NONE	3	3	2	1	-
RENTER OCCUPIED	6 148	5 118	2 504	2 614	1 030
UTILITY GAS	4 042	3 579	1 812	1 767	464
BOTTLED, TANK, OR LP GAS	90	37	-	37	53
FUEL OIL	15	12	12	-	3
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	1 960	1 459	664	795	500
COAL OR COKE	-	-	-	-	-
WOOD	1	1	-	1	-
SOLAR HEAT	6	1	-	1	5
OTHER FUEL	14	14	9	5	-
NONE	20	15	6	9	5
COOKING FUEL					
OWNER OCCUPIED	9 472	7 264	2 664	4 600	2 209
UTILITY GAS	3 403	2 998	1 181	1 818	405
BOTTLED, TANK, OR LP GAS	273	113	12	101	160
FUEL OIL	6	6	4	2	-
KEROSENE, ETC	2	1	-	1	1
ELECTRICITY	5 762	4 136	1 466	2 670	1 627
COAL OR COKE	-	-	-	-	-
WOOD	16	2	-	2	15
OTHER FUEL	5	3	2	2	2
NONE	4	4	-	4	-
RENTER OCCUPIED	6 208	5 147	2 516	2 632	1 061
UTILITY GAS	2 933	2 657	1 387	1 270	276
BOTTLED, TANK, OR LP GAS	105	41	2	40	63
FUEL OIL	12	10	5	5	2
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	3 090	2 388	1 090	1 297	703
COAL OR COKE	1	-	-	-	1
WOOD	9	3	-	3	6
OTHER FUEL	3	-	-	-	3
NONE	55	49	32	16	7

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
MONTHLY COST PAID FOR ELECTRICITY					
SPECIFIED OWNER OCCUPIED[1]	7 718	6 137	2 361	3 776	1 581
ELECTRICITY PAID FOR	7 709	6 135	2 361	3 773	1 575
LESS THAN $10	116	97	59	38	18
$10 TO $19	1 156	910	382	528	245
$20 TO $29	1 838	1 458	590	868	380
$30 TO $39	1 589	1 277	451	826	312
$40 TO $49	986	781	304	477	205
$50 TO $59	644	505	174	331	139
$60 TO $79	686	541	193	348	145
$80 TO $99	262	220	74	146	42
$100 TO $149	333	265	107	158	68
$150 OR MORE	100	80	27	52	20
MEDIAN	34	34	33	35	34
NO ELECTRICITY USED	9	2	-	2	6
SPECIFIED RENTER OCCUPIED[2]	6 118	5 114	2 516	2 599	1 004
ELECTRICITY PAID FOR	4 914	4 129	1 961	2 168	785
LESS THAN $10	680	620	348	271	61
$10 TO $19	1 552	1 360	645	715	193
$20 TO $29	1 229	1 010	487	523	219
$30 TO $39	644	507	205	301	138
$40 TO $49	308	237	110	127	71
$50 TO $59	222	182	73	109	40
$60 TO $79	157	116	46	70	41
$80 TO $99	37	31	17	14	6
$100 TO $149	60	45	20	26	14
$150 OR MORE	24	23	11	12	2
MEDIAN	22	21	19	22	26
INCLUDED IN RENT	1 177	963	543	420	214
NO ELECTRICITY USED	28	22	11	11	5
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	7 718	6 137	2 361	3 776	1 581
GAS PAID FOR	6 175	5 210	2 058	3 151	965
LESS THAN $10	428	356	136	219	72
$10 TO $14	815	742	267	475	72
$15 TO $19	949	836	325	511	113
$20 TO $24	929	798	316	482	131
$25 TO $29	717	599	224	375	118
$30 TO $39	1 068	882	369	513	185
$40 TO $49	584	470	222	248	114
$50 TO $69	482	365	131	234	117
$70 TO $99	151	116	53	63	35
$100 OR MORE	53	45	14	31	8
MEDIAN	24	23	24	23	28
NO GAS USED	1 543	928	303	625	615
SPECIFIED RENTER OCCUPIED[2]	6 118	5 114	2 516	2 599	1 004
GAS PAID FOR	3 285	2 853	1 382	1 471	432
LESS THAN $10	981	899	456	443	83
$10 TO $14	716	636	280	356	80
$15 TO $19	516	447	213	234	70
$20 TO $24	346	287	136	151	59
$25 TO $29	243	199	103	96	44
$30 TO $39	244	213	106	106	31
$40 TO $49	122	88	41	47	34
$50 TO $69	76	57	33	24	19
$70 TO $99	22	14	8	6	8
$100 OR MORE	17	14	7	7	3
MEDIAN	14	13	13	13	18
INCLUDED IN RENT	1 427	1 166	625	541	261
NO GAS USED	1 406	1 095	509	587	311

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	7 718	6 137	2 361	3 776	1 581
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 232	872	352	520	360
LESS THAN $100	379	270	132	138	110
$100 TO $199	313	230	88	142	83
$200 TO $299	131	88	27	61	43
$300 TO $399	79	36	13	23	43
$400 TO $499	68	41	17	24	27
$500 TO $599	67	45	21	24	21
$600 TO $699	58	44	17	27	14
$700 TO $799	44	40	16	24	4
$800 OR MORE	94	77	20	57	16
MEDIAN	175	171	149	185	185
FUELS NOT USED OR FREE	6 486	5 266	2 010	3 256	1 221
SPECIFIED RENTER OCCUPIED[2]	6 118	5 114	2 516	2 599	1 004
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	287	201	99	102	86
LESS THAN $100	132	101	54	48	31
$100 TO $199	56	43	20	23	13
$200 TO $299	20	6	3	3	14
$300 TO $399	16	8	2	6	8
$400 TO $499	18	16	6	9	2
$500 TO $599	12	6	5	2	5
$600 TO $699	5	5	2	3	1
$700 TO $799	5	2	-	2	4
$800 OR MORE	23	15	8	7	8
MEDIAN	121	100-	100-	115	194
INCLUDED IN RENT	547	448	182	266	99
FUELS NOT USED OR FREE	5 284	4 465	2 235	2 230	818
ALL OCCUPIED HOUSING UNITS	15 681	12 411	5 180	7 231	3 270
HEATING EQUIPMENT					
OWNER OCCUPIED	9 472	7 264	2 664	4 600	2 209
WARM-AIR FURNACE	6 038	4 890	1 802	3 088	1 149
HEAT PUMP	254	199	68	131	55
STEAM OR HOT WATER	221	117	56	61	104
BUILT-IN ELECTRIC UNITS	715	368	99	269	347
FLOOR, WALL, OR PIPELESS FURNACE	1 394	1 240	498	742	154
ROOM HEATERS WITH FLUE	262	142	47	95	120
ROOM HEATERS WITHOUT FLUE	36	24	9	15	12
FIREPLACES, STOVES, OR PORTABLE HEATERS	399	136	21	115	263
NONE	154	149	65	84	5
RENTER OCCUPIED	6 208	5 147	2 516	2 632	1 061
WARM-AIR FURNACE	1 818	1 473	683	790	344
HEAT PUMP	54	49	22	27	5
STEAM OR HOT WATER	395	320	272	48	76
BUILT-IN ELECTRIC UNITS	1 108	882	412	470	226
FLOOR, WALL, OR PIPELESS FURNACE	1 977	1 807	871	936	170
ROOM HEATERS WITH FLUE	413	297	119	178	115
ROOM HEATERS WITHOUT FLUE	51	30	19	11	21
FIREPLACES, STOVES, OR PORTABLE HEATERS	172	85	23	62	87
NONE	221	204	95	109	17
FIREPLACES AND HEATING STOVES					
OWNER OCCUPIED	9 472	7 264	2 664	4 600	2 209
HOUSING UNITS WITH HEATING EQUIPMENT	9 319	7 115	2 599	4 516	2 204
WITH FIREPLACE OR HEATING STOVE	5 859	4 609	1 681	2 928	1 251
IN WORKING ORDER	5 702	4 481	1 609	2 871	1 221
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	4 558	3 452	1 207	2 245	1 106
ALL PURCHASED	1 439	1 179	494	685	260
SOME OR NONE PURCHASED	3 056	2 225	690	1 535	831
NOT REPORTED	63	48	23	25	15
COAL	10	5	-	5	5
OTHER FUEL	501	455	168	287	46
NONE	623	562	234	328	61
NOT REPORTED	10	6	-	6	5
NOT IN WORKING ORDER	150	125	70	55	25
NOT REPORTED	7	3	2	2	4
WITHOUT FIREPLACE OR HEATING STOVE	3 435	2 490	908	1 583	945
NOT REPORTED	24	16	11	6	8
HOUSING UNITS WITH NO HEATING EQUIPMENT	154	149	65	84	5

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
FIREPLACES AND HEATING STOVES--CONTINUED					
RENTER OCCUPIED	6 208	5 147	2 516	2 632	1 061
HOUSING UNITS WITH HEATING EQUIPMENT	5 987	4 943	2 421	2 522	1 044
WITH FIREPLACE OR HEATING STOVE	1 147	928	390	538	219
IN WORKING ORDER	1 068	854	354	500	214
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	745	564	233	332	181
ALL PURCHASED	245	206	92	113	39
SOME OR NONE PURCHASED	475	340	132	208	135
NOT REPORTED	24	18	8	11	6
COAL	3	2	-	2	1
OTHER FUEL	167	144	60	84	23
NONE	144	135	57	79	8
NOT REPORTED	9	9	5	4	1
NOT IN WORKING ORDER	75	70	34	36	4
NOT REPORTED	4	3	2	2	1
WITHOUT FIREPLACE OR HEATING STOVE	4 818	3 996	2 020	1 976	822
NOT REPORTED	23	20	11	8	3
HOUSING UNITS WITH NO HEATING EQUIPMENT	221	204	95	109	17
ALL OCCUPIED HOUSING UNITS	15 681	12 411	5 180	7 231	3 270
UNITS OCCUPIED LAST WINTER	12 870	10 228	4 222	6 007	2 641
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	8 765	6 751	2 493	4 259	2 014
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	6 452	2 401	4 051	1 753
NO ADDITIONAL HEAT SOURCE USED	7 623	5 999	2 214	3 785	1 623
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	491	382	161	221	108
NOT REPORTED	91	70	26	44	21
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	299	91	208	260
RENTER OCCUPIED	4 105	3 477	1 729	1 748	628
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	3 241	1 619	1 622	537
NO ADDITIONAL HEAT SOURCE USED	3 311	2 851	1 408	1 443	460
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	392	327	180	147	66
NOT REPORTED	76	64	32	32	12
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	236	110	126	90
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	8 765	6 751	2 493	4 259	2 014
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	6 452	2 401	4 051	1 753
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 227	4 851	1 767	3 084	1 376
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 850	1 498	596	902	352
1 ROOM	458	357	146	211	101
2 ROOMS	512	400	160	240	112
3 ROOMS OR MORE	880	741	290	451	139
NOT REPORTED	128	103	38	65	25
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	299	91	208	260
RENTER OCCUPIED	4 105	3 477	1 729	1 748	628
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	3 241	1 619	1 622	537
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 170	1 824	930	894	346
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 522	1 343	652	691	179
1 ROOM	543	492	257	236	51
2 ROOMS	582	515	223	292	67
3 ROOMS OR MORE	397	336	173	163	61
NOT REPORTED	87	74	37	37	13
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	236	110	126	90
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	8 765	6 751	2 493	4 259	2 014
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	6 452	2 401	4 051	1 753
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	299	91	208	260
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	478	261	77	184	217
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	51	24	5	19	27
NOT REPORTED	30	14	9	5	16

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
UNITS OCCUPIED LAST WINTER--CONTINUED					
INSUFFICIENT HEAT--CONTINUED					
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED					
RENTER OCCUPIED	4 105	3 477	1 729	1 748	628
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	3 241	1 619	1 622	537
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	236	110	126	90
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	252	185	88	97	67
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	31	18	13	14
NOT REPORTED	28	19	3	16	9
ALL OCCUPIED HOUSING UNITS	15 681	12 411	5 180	7 231	3 270
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	9 472	7 264	2 664	4 600	2 209
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	553	285	86	199	268
WITH SELECTED HEATING EQUIPMENT[2]	8 919	6 979	2 578	4 401	1 940
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 264	6 501	2 393	4 108	1 763
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	629	460	175	285	170
SOLAR HEATING EQUIPMENT	20	12	2	10	8
STOVE, BURNING WOOD OR COAL	177	108	43	65	69
FIREPLACE, BURNING WOOD OR COAL	112	86	26	60	26
PORTABLE ELECTRIC HEATER	236	189	78	111	47
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	28	22	9	13	6
OTHER	78	61	24	37	17
NOT REPORTED	26	19	11	8	7
RENTER OCCUPIED	6 208	5 147	2 516	2 632	1 061
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	393	289	118	171	104
WITH SELECTED HEATING EQUIPMENT[2]	5 815	4 858	2 398	2 460	957
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 588	4 682	2 307	2 375	906
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	160	83	77	48
SOLAR HEATING EQUIPMENT	2	-	-	-	2
STOVE, BURNING WOOD OR COAL	15	11	3	7	4
FIREPLACE, BURNING WOOD OR COAL	6	6	3	3	-
PORTABLE ELECTRIC HEATER	168	131	70	61	37
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	6	5	2	4	1
OTHER	12	7	5	2	5
NOT REPORTED	19	16	8	8	3
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]					
OWNER OCCUPIED	9 400	7 227	2 657	4 570	2 173
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 214	7 073	2 619	4 455	2 140
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	96	80	14	65	17
NOT REPORTED	90	74	24	50	16
RENTER OCCUPIED	6 122	5 101	2 498	2 604	1 020
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 043	5 032	2 459	2 574	1 010
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	14	6	7	5
NOT REPORTED	60	55	33	23	5
AIR CONDITIONING					
OWNER OCCUPIED	9 472	7 264	2 664	4 600	2 209
WITH AIR CONDITIONING	3 505	2 793	977	1 816	712
ROOM UNITS	1 182	860	293	567	323
1	963	693	230	464	270
2	169	123	51	72	46
3	35	28	9	19	6
4	9	9	2	7	-
5 OR MORE	7	6	2	4	1
CENTRAL SYSTEM	2 322	1 933	684	1 249	389
WITH NO AIR CONDITIONING	5 968	4 471	1 687	2 784	1 497

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
AIR CONDITIONING--CONTINUED					
RENTER OCCUPIED	6 208	5 147	2 516	2 632	1 061
WITH AIR CONDITIONING	1 844	1 572	730	841	272
ROOM UNITS	1 025	870	402	468	155
1	923	787	371	416	136
2	85	69	24	44	17
3	12	11	5	6	1
4	3	2	-	2	2
5 OR MORE	2	2	2	-	-
CENTRAL SYSTEM	819	702	329	373	117
WITH NO AIR CONDITIONING	4 364	3 575	1 785	1 790	789
SUPPLEMENTAL COOLING EQUIPMENT					
OWNER OCCUPIED	9 472	7 264	2 664	4 600	2 209
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	2 322	1 933	684	1 249	389
WITH SUPPLEMENTAL EQUIPMENT USED	960	792	260	533	168
INDIVIDUAL ROOM AIR CONDITIONING UNIT	69	61	18	43	8
AWNINGS	202	176	55	122	25
DEHUMIDIFIER	37	30	15	15	7
CEILING FAN	73	59	24	36	13
ATTIC FAN	215	173	56	118	41
WINDOW FAN	32	28	9	19	4
PORTABLE FAN	548	451	144	307	97
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 312	1 103	412	691	210
NOT REPORTED	50	38	12	26	12
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 150	5 331	1 980	3 350	1 820
RENTER OCCUPIED	6 208	5 147	2 516	2 632	1 061
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	819	702	329	373	117
WITH SUPPLEMENTAL EQUIPMENT USED	154	116	52	65	37
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	4	2	2	2
AWNINGS	22	19	8	12	2
DEHUMIDIFIER	2	2	2	-	1
CEILING FAN	-	-	-	-	-
ATTIC FAN	11	8	-	8	3
WINDOW FAN	14	13	6	7	1
PORTABLE FAN	115	84	42	42	31
WITH NO SUPPLEMENTAL EQUIPMENT USED	644	566	269	297	79
NOT REPORTED	21	20	8	12	1
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 389	4 445	2 187	2 258	944
ALL OCCUPIED HOUSING UNITS	15 681	12 411	5 180	7 231	3 270
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 262	8 449	3 074	5 375	2 813
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	8 997	6 837	2 477	4 360	2 160
ALL WINDOWS COVERED	1 918	992	334	658	926
SOME WINDOWS COVERED	1 108	754	299	454	354
NO WINDOWS COVERED	5 921	5 049	1 830	3 219	872
NOT REPORTED	50	42	14	28	7
RENTER OCCUPIED	2 264	1 612	597	1 015	653
ALL WINDOWS COVERED	253	101	34	67	152
SOME WINDOWS COVERED	180	96	35	62	84
NO WINDOWS COVERED	1 738	1 344	514	829	394
NOT REPORTED	93	71	14	57	23
STORM DOORS					
OWNER OCCUPIED	8 997	6 837	2 477	4 360	2 160
ALL DOORS COVERED	1 167	602	288	315	565
SOME DOORS COVERED	944	566	216	350	378
NO DOORS COVERED	6 835	5 625	1 958	3 667	1 210
NOT REPORTED	51	44	16	29	7
RENTER OCCUPIED	2 264	1 612	597	1 015	653
ALL DOORS COVERED	132	58	20	37	75
SOME DOORS COVERED	109	51	17	33	59
NO DOORS COVERED	1 928	1 430	544	886	498
NOT REPORTED	95	74	16	58	21

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
ATTIC OR ROOF INSULATION					
OWNER OCCUPIED	8 997	6 837	2 477	4 360	2 160
YES	7 088	5 197	1 818	3 379	1 891
NO	1 494	1 306	556	750	189
DON'T KNOW	368	295	87	207	73
NOT REPORTED	47	40	16	25	7
RENTER OCCUPIED	2 264	1 612	597	1 015	653
YES	904	569	203	366	335
NO	672	560	229	331	112
DON'T KNOW	589	404	150	254	184
NOT REPORTED	100	78	16	63	21
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	8 997	6 837	2 477	4 360	2 160
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	5 921	5 049	1 830	3 219	872
SOME OR ALL WINDOWS COVERED	3 027	1 746	633	1 113	1 281
NONE INSTALLED	2 414	1 347	485	861	1 067
SOME OR ALL INSTALLED	568	386	139	248	182
NOT REPORTED	45	13	9	4	32
NOT REPORTED	50	42	14	28	7
STORM DOORS:					
NO DOORS COVERED	6 835	5 625	1 958	3 667	1 210
SOME OR ALL DOORS COVERED	2 112	1 169	503	665	943
NONE INSTALLED	1 854	1 021	433	588	833
SOME OR ALL INSTALLED	214	136	65	71	79
NOT REPORTED	43	12	5	7	32
NOT REPORTED	51	44	16	29	7
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	1 494	1 306	556	750	189
WITH ATTIC OR ROOF INSULATION	7 088	5 197	1 818	3 379	1 891
NONE ADDED OR INSTALLED	6 343	4 654	1 606	3 047	1 690
SOME OR ALL ADDED OR INSTALLED	666	494	193	301	172
NOT REPORTED	79	49	19	31	30
DON'T KNOW	368	295	87	207	73
NOT REPORTED	47	40	16	25	7
WALL INSULATION:					
NONE ADDED OR INSTALLED	8 511	6 497	2 360	4 137	2 015
SOME OR ALL ADDED OR INSTALLED	425	289	97	192	136
NOT REPORTED	61	52	21	31	10
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	7 650	5 863	2 091	3 772	1 787
SOME OR ALL ADDED OR INSTALLED	1 291	926	367	559	364
NOT REPORTED	57	48	19	29	8
OTHER INSULATION:					
NONE ADDED OR INSTALLED	8 110	6 199	2 249	3 951	1 910
SOME OR ALL ADDED OR INSTALLED	836	595	211	384	242
NOT REPORTED	51	43	17	26	8
RENTER OCCUPIED	2 264	1 612	597	1 015	653
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	1 738	1 344	514	829	394
SOME OR ALL WINDOWS COVERED	433	198	69	129	236
NONE INSTALLED	337	157	52	105	180
SOME OR ALL INSTALLED	87	38	15	23	49
NOT REPORTED	10	3	2	1	7
NOT REPORTED	93	71	14	57	23
STORM DOORS:					
NO DOORS COVERED	1 928	1 430	544	886	498
SOME OR ALL DOORS COVERED	242	108	37	71	134
NONE INSTALLED	212	94	33	61	118
SOME OR ALL INSTALLED	19	11	5	6	8
NOT REPORTED	11	3	-	3	8
NOT REPORTED	95	74	16	58	21

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
RENTER OCCUPIED--CONTINUED					
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	672	560	229	331	112
WITH ATTIC OR ROOF INSULATION	904	569	203	366	335
NONE ADDED OR INSTALLED	822	518	192	326	305
SOME OR ALL ADDED OR INSTALLED	64	38	9	29	25
NOT REPORTED	18	13	2	11	5
DON'T KNOW	589	404	150	254	184
NOT REPORTED	100	78	16	63	21
WALL INSULATION:					
NONE ADDED OR INSTALLED	2 074	1 482	563	918	592
SOME OR ALL ADDED OR INSTALLED	31	16	2	13	16
NOT REPORTED	159	115	32	83	44
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	1 966	1 418	534	884	548
SOME OR ALL ADDED OR INSTALLED	140	80	31	49	60
NOT REPORTED	158	114	32	82	44
OTHER INSULATION:					
NONE ADDED OR INSTALLED	2 044	1 466	554	912	578
SOME OR ALL ADDED OR INSTALLED	68	36	12	25	32
NOT REPORTED	152	110	32	78	42
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	8 997	6 837	2 477	4 360	2 160
NO INSULATION ADDED OR INSTALLED	6 394	4 973	1 773	3 199	1 421
WITH INSULATION ADDED OR INSTALLED	2 446	1 759	666	1 093	686
LESS THAN $50	1 068	769	272	498	299
$50 TO $99	266	187	76	110	80
$100 TO $249	335	215	94	120	120
$250 TO $499	239	178	63	115	61
$500 TO $999	156	125	56	69	32
$1,000 OR MORE	206	158	63	95	48
DON'T KNOW	105	81	29	51	25
NOT REPORTED	69	47	12	35	22
MEDIAN	62	62	76	53	63
NOT REPORTED OR DON'T KNOW	158	105	38	68	53
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	243	161	45	116	83
LESS THAN $50	95	54	18	36	41
$50 TO $99	30	19	7	12	12
$100 TO $249	32	19	9	11	13
$250 TO $499	21	15	1	14	6
$500 TO $999	17	15	3	12	2
$1,000 OR MORE	25	24	5	19	2
DON'T KNOW	4	3	2	1	1
NOT REPORTED	19	12	-	12	6
MEDIAN	75	99	74	147	50-
ONLY INSTALLED STORM DOORS	70	40	15	25	30
LESS THAN $50	10	5	2	3	5
$50 TO $99	28	17	4	14	11
$100 TO $249	19	11	7	4	8
$250 TO $499	4	3	2	2	1
$500 TO $999	-	-	-	-	-
$1,000 OR MORE	-	-	-	-	-
DON'T KNOW	-	-	-	-	-
NOT REPORTED	8	3	2	2	5
MEDIAN	65	88	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	280	212	77	136	68
LESS THAN $50	34	24	5	19	10
$50 TO $99	34	26	5	21	7
$100 TO $249	77	50	24	26	27
$250 TO $499	64	52	14	38	12
$500 TO $999	26	24	12	12	2
$1,000 OR MORE	8	7	3	3	2
DON'T KNOW	20	15	5	10	5
NOT REPORTED	17	14	7	7	3
MEDIAN	204	222	235	210	170

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	15 681	12 411	5 180	7 231	3 270
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	6 582	5 142	1 854	3 289	1 439
DRIVES SELF	4 910	3 878	1 439	2 440	1 031
CARPOOL	1 014	790	236	554	225
MASS TRANSPORTATION	182	173	72	101	9
BICYCLE, MOTORCYCLE, OR MOPED	164	129	50	79	34
TAXICAB	7	7	5	2	-
WALKS ONLY	109	56	21	35	53
OTHER MEANS	23	12	3	9	10
WORKS AT HOME	174	98	29	68	77
RENTER OCCUPIED	4 156	3 448	1 591	1 856	709
DRIVES SELF	2 602	2 157	929	1 228	446
CARPOOL	663	551	235	317	111
MASS TRANSPORTATION	341	334	239	96	7
BICYCLE, MOTORCYCLE, OR MOPED	170	143	58	86	27
TAXICAB	2	2	2	-	-
WALKS ONLY	283	203	107	96	80
OTHER MEANS	9	3	2	2	6
WORKS AT HOME	87	55	22	33	32
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]					
OWNER OCCUPIED	6 582	5 142	1 854	3 289	1 439
HOUSEHOLDER DRIVES ALONE	4 910	3 878	1 439	2 440	1 031
IRREGULAR OR UNUSUAL WORK HOURS	1 822	1 415	521	895	407
IRREGULAR WORK LOCATION	470	387	135	251	84
CAR NEEDED FOR WORK OR ERRANDS	859	683	266	416	176
DOESN'T KNOW ANYONE TO RIDE WITH	790	632	224	407	158
LIKES PRIVACY	174	148	64	84	25
OUT OF THE WAY TO PICK UP OTHERS	270	195	65	130	76
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	41	40	21	19	2
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	126	108	46	61	19
DOESN'T TRUST OTHERS DRIVING	9	8	2	6	1
SOME OTHER REASON	331	248	84	163	83
NOT REPORTED	18	16	10	6	1
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	1 672	1 264	415	849	408
RENTER OCCUPIED	4 156	3 448	1 591	1 856	709
HOUSEHOLDER DRIVES ALONE	2 602	2 157	929	1 228	446
IRREGULAR OR UNUSUAL WORK HOURS	861	719	309	410	142
IRREGULAR WORK LOCATION	182	137	56	81	45
CAR NEEDED FOR WORK OR ERRANDS	362	288	140	148	74
DOESN'T KNOW ANYONE TO RIDE WITH	608	518	224	293	91
LIKES PRIVACY	135	124	42	82	11
OUT OF THE WAY TO PICK UP OTHERS	147	121	39	82	27
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	25	24	11	13	1
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	77	61	35	26	16
DOESN'T TRUST OTHERS DRIVING	8	6	3	3	2
SOME OTHER REASON	185	150	64	86	35
NOT REPORTED	12	8	5	3	4
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	1 554	1 291	663	628	263
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	6 582	5 142	1 854	3 289	1 439
LESS THAN 1 MILE	326	174	58	115	152
1 TO 4 MILES	1 231	824	345	479	407
5 TO 9 MILES	1 294	1 037	454	583	258
10 TO 19 MILES	1 530	1 345	435	909	185
20 TO 29 MILES	602	524	128	396	79
30 TO 49 MILES	331	275	72	203	56
50 MILES OR MORE	124	89	37	52	35
WORKS AT HOME	174	98	29	68	77
NO FIXED PLACE OF WORK	969	778	294	484	191
MEDIAN	9.5	10.7	9.0	12.1	5.5

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
DISTANCE FROM HOME TO WORK[1]--CONTINUED					
RENTER OCCUPIED	4 156	3 448	1 591	1 856	709
LESS THAN 1 MILE	449	301	147	154	148
1 TO 4 MILES	1 103	873	424	449	231
5 TO 9 MILES	884	767	405	362	117
10 TO 19 MILES	761	700	291	409	61
20 TO 29 MILES	270	244	96	148	26
30 TO 49 MILES	145	115	32	83	31
50 MILES OR MORE	42	31	18	14	10
WORKS AT HOME	87	55	22	33	32
NO FIXED PLACE OF WORK	416	362	156	206	54
MEDIAN	6.5	7.2	6.7	7.8	3.8
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	6 582	5 142	1 854	3 289	1 439
LESS THAN 15 MINUTES	1 869	1 228	487	741	641
15 TO 29 MINUTES	2 071	1 744	659	1 085	327
30 TO 44 MINUTES	880	777	226	550	103
45 TO 59 MINUTES	333	292	88	204	41
1 HOUR TO 1 HOUR AND 29 MINUTES	196	160	47	113	36
1 HOUR AND 30 MINUTES OR MORE	90	66	23	43	23
WORKS AT HOME	174	98	29	68	77
NO FIXED PLACE OF WORK	969	778	294	484	191
MEDIAN	21.1	22.8	21.3	23.7	15.0-
RENTER OCCUPIED	4 156	3 448	1 591	1 856	709
LESS THAN 15 MINUTES	1 467	1 089	474	615	378
15 TO 29 MINUTES	1 362	1 199	588	610	163
30 TO 44 MINUTES	505	468	221	247	37
45 TO 59 MINUTES	160	144	68	76	16
1 HOUR TO 1 HOUR AND 29 MINUTES	114	95	40	55	19
1 HOUR AND 30 MINUTES OR MORE	46	36	23	13	10
WORKS AT HOME	87	55	22	33	32
NO FIXED PLACE OF WORK	416	362	156	206	54
MEDIAN	19.0	20.3	20.9	19.8	15.0-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS	15 681	696	2 201	1 612	2 488	2 021	1 738	2 404	1 517	690	314	17100
HOUSE HEATING FUEL												
OWNER OCCUPIED	9 472	254	864	683	1 184	1 110	1 209	1 906	1 341	634	287	22700
UTILITY GAS	6 540	169	591	432	792	750	815	1 330	1 000	451	210	23300
BOTTLED, TANK, OR LP GAS	298	22	29	35	62	37	23	45	27	13	6	15200
FUEL OIL	456	8	54	31	63	44	52	90	55	50	9	22600
KEROSENE, ETC	1	-	-	1	-	-	-	-	-	-	-	...
ELECTRICITY	1 801	46	139	150	220	235	269	369	218	100	54	22000
COAL OR COKE	12	1	4	-	2	2	2	1	-	-	-	...
WOOD	203	7	32	23	27	28	25	35	15	7	3	17200
SOLAR HEAT	7	-	4	-	-	-	-	3	-	-	-	...
OTHER FUEL	1	-	-	1	-	-	-	-	-	-	-	...
NONE	154	2	10	11	18	14	23	32	26	13	6	25000
RENTER OCCUPIED	6 208	442	1 337	929	1 304	911	529	498	176	56	27	11500
UTILITY GAS	3 952	264	810	633	855	586	332	318	99	39	15	11600
BOTTLED, TANK, OR LP GAS	109	10	26	16	19	20	10	5	2	2	-	10900
FUEL OIL	215	14	46	39	48	25	16	15	8	1	4	10900
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 588	117	366	196	297	242	155	138	60	8	8	11900
COAL OR COKE	6	2	2	1	2	-	-	-	-	-	-	...
WOOD	80	8	22	14	19	12	3	1	1	-	-	9100
SOLAR HEAT	3	-	-	1	-	-	-	2	-	-	-	...
OTHER FUEL	35	4	10	5	11	-	2	3	1	-	-	9500
NONE	221	24	55	23	56	26	12	16	5	4	-	10700
WATER HEATING FUEL[1]												
OWNER OCCUPIED	9 427	243	855	677	1 177	1 108	1 206	1 900	1 340	633	287	22700
UTILITY GAS	6 291	150	531	418	762	716	795	1 303	959	452	206	23600
BOTTLED, TANK, OR LP GAS	259	18	32	32	49	20	31	36	22	14	4	14800
FUEL OIL	14	-	2	-	2	-	-	7	2	2	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 825	75	289	224	354	367	378	547	354	162	76	21400
COAL OR COKE	1	-	-	-	1	-	-	-	-	-	-	...
WOOD	6	-	1	1	2	-	-	1	-	1	-	...
SOLAR HEAT	25	-	1	1	4	3	2	6	3	3	2	...
OTHER FUEL	3	-	-	2	2	-	-	-	-	-	-	...
NONE	3	-	-	-	1	2	-	-	-	-	-	...
RENTER OCCUPIED	6 148	426	1 312	921	1 299	904	529	498	176	56	27	11600
UTILITY GAS	4 042	275	833	651	879	583	334	326	106	37	17	11500
BOTTLED, TANK, OR LP GAS	90	6	20	12	23	17	7	4	1	1	-	11500
FUEL OIL	15	3	3	2	3	2	2	-	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 960	137	446	252	385	294	187	165	67	18	10	11900
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	1	-	1	-	-	-	-	-	-	-	-	...
SOLAR HEAT	6	-	-	1	-	-	-	3	2	-	-	...
OTHER FUEL	14	2	2	-	5	6	-	-	-	-	-	...
NONE	20	3	8	3	5	2	-	-	-	-	-	...
COOKING FUEL												
OWNER OCCUPIED	9 472	254	864	683	1 184	1 110	1 209	1 906	1 341	634	287	22700
UTILITY GAS	3 403	105	381	290	514	422	419	587	415	192	77	19900
BOTTLED, TANK, OR LP GAS	273	27	43	45	52	30	22	30	18	5	1	12100
FUEL OIL	6	-	-	-	-	-	1	4	-	-	2	...
KEROSENE, ETC	2	-	-	-	-	1	-	-	-	1	-	...
ELECTRICITY	5 762	120	434	342	611	656	764	1 285	908	434	208	24700
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	16	1	5	5	2	1	2	-	-	1	-	...
OTHER FUEL	5	-	2	2	2	-	-	-	-	-	-	...
NONE	4	-	-	-	4	-	-	-	-	-	-	...
RENTER OCCUPIED	6 208	442	1 337	929	1 304	911	529	498	176	56	27	11500
UTILITY GAS	2 933	227	629	496	639	405	247	206	53	17	12	10900
BOTTLED, TANK, OR LP GAS	105	8	32	14	23	16	7	4	-	1	-	9600
FUEL OIL	12	2	3	-	3	2	-	1	2	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	3 090	191	645	407	629	485	274	286	121	39	15	12400
COAL OR COKE	1	-	1	-	-	-	-	-	-	-	-	...
WOOD	9	3	5	-	-	-	-	1	-	-	-	...
OTHER FUEL	3	-	-	3	-	-	-	-	-	-	-	...
NONE	55	10	22	9	10	3	2	-	-	-	-	6200
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[2]	7 718	179	606	486	884	897	1 015	1 674	1 189	547	240	24000
ELECTRICITY PAID FOR	7 709	177	606	482	884	897	1 015	1 673	1 189	547	240	24000
LESS THAN $10	116	7	31	14	19	17	12	8	2	6	-	11500
$10 TO $19	1 156	42	184	137	169	141	140	187	99	46	11	16600
$20 TO $29	1 838	43	148	118	248	244	246	387	269	105	30	22400
$30 TO $39	1 589	39	110	71	176	180	219	394	253	123	24	25000
$40 TO $49	986	15	38	48	99	112	120	253	187	77	38	27400
$50 TO $59	644	10	30	39	74	73	102	135	102	48	32	24700
$60 TO $79	686	15	34	22	51	64	97	176	131	59	37	28400
$80 TO $99	262	3	15	11	15	25	28	60	60	29	14	30500
$100 TO $149	333	2	14	14	24	34	43	57	70	37	39	31300
$150 OR MORE	100	-	2	8	8	8	9	16	16	17	16	34500
MEDIAN	34	28	25	27	30	32	35	36	38	38	55	...
NO ELECTRICITY USED	9	2	-	4	1	-	-	2	-	-	-	...

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
MONTHLY COST PAID FOR ELECTRICITY--CONTINUED												
SPECIFIED RENTER OCCUPIED[1]	6 118	432	1 318	920	1 290	895	518	492	170	55	27	11500
ELECTRICITY PAID FOR	4 914	289	912	714	1 074	783	469	444	156	49	25	12500
LESS THAN $10	680	42	138	111	180	103	53	34	8	8	3	11300
$10 TO $19	1 552	89	329	228	357	250	141	108	35	8	6	11800
$20 TO $29	1 229	98	214	173	262	183	118	120	46	10	2	12500
$30 TO $39	644	31	107	89	130	111	73	65	18	13	8	13700
$40 TO $49	308	14	46	46	63	52	32	40	11	2	3	13800
$50 TO $59	222	7	31	28	40	45	21	33	11	4	2	15500
$60 TO $79	157	3	30	18	24	22	17	28	12	2	2	15800
$80 TO $99	37	-	3	7	6	8	5	5	2	-	-	16400
$100 TO $149	60	4	6	11	7	8	5	8	7	2	-	16000
$150 OR MORE	24	2	7	2	5	2	3	3	2	-	-	...
MEDIAN	22	21	19	21	19	22	23	26	27	28	...	...
INCLUDED IN RENT	1 177	142	400	202	205	112	47	46	15	6	2	7700
NO ELECTRICITY USED	28	1	6	5	11	-	3	2	-	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	7 718	179	606	486	884	897	1 015	1 674	1 189	547	240	24000
GAS PAID FOR	6 175	152	469	381	713	704	790	1 331	988	448	198	24200
LESS THAN $10	428	16	72	38	53	52	44	81	48	15	8	18300
$10 TO $14	815	19	81	50	97	122	113	168	107	41	15	21600
$15 TO $19	949	31	78	66	133	102	139	203	133	49	15	22300
$20 TO $24	929	17	66	50	88	115	144	187	182	70	9	24400
$25 TO $29	717	14	48	39	88	79	96	171	108	49	25	24700
$30 TO $39	1 068	23	67	63	120	114	122	254	163	104	38	26000
$40 TO $49	584	15	24	32	64	56	71	129	113	50	30	27300
$50 TO $69	482	12	20	30	59	53	44	101	98	44	21	27300
$70 TO $99	151	5	6	12	7	9	13	26	26	19	28	34000
$100 OR MORE	53	-	7	-	4	2	3	10	11	7	10	36400
MEDIAN	24	22	20	23	23	23	23	26	26	29	36	...
NO GAS USED	1 543	27	137	105	171	193	225	343	201	99	42	23100
SPECIFIED RENTER OCCUPIED[1]	6 118	432	1 318	920	1 290	895	518	492	170	55	27	11500
GAS PAID FOR	3 285	186	640	504	728	503	293	288	98	33	11	12100
LESS THAN $10	981	58	190	155	251	139	96	70	12	6	5	11800
$10 TO $14	716	32	152	99	159	134	48	68	16	6	2	12400
$15 TO $19	516	36	114	74	102	74	44	48	17	6	2	11700
$20 TO $24	386	17	60	64	64	44	33	38	20	5	1	12400
$25 TO $29	243	13	43	35	55	40	22	21	11	3	1	12800
$30 TO $39	244	15	35	50	49	32	23	21	13	4	2	12200
$40 TO $49	122	5	26	16	27	22	14	8	4	1	-	12600
$50 TO $69	76	9	13	7	12	11	8	12	3	1	-	13800
$70 TO $99	22	-	6	2	4	3	3	2	2	-	-	...
$100 OR MORE	17	1	3	1	5	4	2	1	-	1	-	...
MEDIAN	14	15	13	14	13	13	15	16	21	...	...	...
INCLUDED IN RENT	1 427	138	354	246	291	191	86	77	28	9	7	9700
NO GAS USED	1 406	108	324	169	271	201	139	127	44	13	9	11900
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	7 718	179	606	486	884	897	1 015	1 674	1 189	547	240	24000
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 232	24	95	73	121	93	143	289	205	137	51	27300
LESS THAN $100	379	10	23	25	19	17	52	93	87	33	20	29700
$100 TO $199	313	6	16	6	30	24	28	84	59	47	14	30600
$200 TO $299	131	1	11	12	19	9	11	33	12	19	4	25900
$300 TO $399	79	3	14	6	16	9	8	8	10	5	-	15400
$400 TO $499	68	-	8	2	12	4	15	11	8	5	3	22600
$500 TO $599	67	-	5	9	10	10	8	12	8	4	-	19800
$600 TO $699	58	1	5	1	6	8	6	14	8	9	-	26700
$700 TO $799	44	-	5	5	4	3	5	11	3	4	3	24000
$800 OR MORE	94	4	7	7	7	8	11	22	11	11	6	26200
MEDIAN	175	...	267	248	266	255	171	160	127	175	137	...
FUELS NOT USED OR FREE	6 486	154	511	413	763	804	871	1 385	984	410	190	23400
SPECIFIED RENTER OCCUPIED[1]	6 118	432	1 318	920	1 290	895	518	492	170	55	27	11500
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	287	18	38	32	52	52	24	41	19	4	7	15400
LESS THAN $100	132	6	9	18	23	34	9	20	8	4	1	16400
$100 TO $199	56	4	12	6	9	6	5	6	6	-	2	13200
$200 TO $299	20	2	5	3	4	2	3	2	-	-	-	...
$300 TO $399	16	2	5	1	2	2	1	3	2	-	-	...
$400 TO $499	18	-	5	1	6	3	2	-	2	-	-	...
$500 TO $599	12	1	-	-	2	2	1	4	-	1	2	...
$600 TO $699	5	1	-	2	-	-	2	1	-	-	-	...
$700 TO $799	5	-	2	2	1	-	1	-	-	-	-	...
$800 OR MORE	23	2	2	-	6	3	1	5	2	-	2	...
MEDIAN	121	...	180	...	135	100-	...	114	...	...	...	...
INCLUDED IN RENT	547	49	155	94	100	74	36	22	15	2	-	9200
FUELS NOT USED OR FREE	5 284	366	1 125	794	1 138	770	458	429	136	48	20	11600
ALL OCCUPIED HOUSING UNITS	15 681	696	2 201	1 612	2 488	2 021	1 738	2 404	1 517	690	314	17100
HEATING EQUIPMENT												
OWNER OCCUPIED	9 472	254	864	683	1 184	1 110	1 209	1 906	1 341	634	287	22700
WARM-AIR FURNACE	6 038	125	414	388	711	641	771	1 330	978	472	209	24800
HEAT PUMP	254	6	10	10	24	27	30	74	41	16	15	27700
STEAM OR HOT WATER	221	5	14	14	18	20	17	49	36	31	17	29500
BUILT-IN ELECTRIC UNITS	715	24	66	62	85	98	108	132	83	38	18	21000
FLOOR, WALL, OR PIPELESS FURNACE	1 394	55	210	105	222	215	182	205	143	42	15	17400
ROOM HEATERS WITH FLUE	262	17	72	42	38	31	21	24	6	8	2	10000
ROOM HEATERS WITHOUT FLUE	36	5	11	2	8	7	2	3	-	-	-	10900
FIREPLACES, STOVES, OR PORTABLE HEATERS	399	17	57	49	60	56	55	57	28	15	5	16500
NONE	154	2	10	11	18	14	23	32	26	13	6	25000

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
HEATING EQUIPMENT--CONTINUED												
RENTER OCCUPIED	6 208	442	1 337	929	1 304	911	529	498	176	56	27	11500
WARM-AIR FURNACE	1 818	112	307	246	371	278	188	191	76	34	14	13300
HEAT PUMP	54	5	7	6	6	15	8	4	3	-	-	15900
STEAM OR HOT WATER	395	30	86	77	82	56	25	24	11	4	-	10300
BUILT-IN ELECTRIC UNITS	1 108	77	268	136	216	158	107	93	38	8	6	11700
FLOOR, WALL, OR PIPELESS FURNACE	1 977	127	442	316	457	295	152	140	39	5	5	11100
ROOM HEATERS WITH FLUE	413	46	112	85	68	49	31	18	2	1	1	8700
ROOM HEATERS WITHOUT FLUE	51	6	12	14	13	4	-	3	-	-	-	8900
FIREPLACES, STOVES, OR PORTABLE HEATERS	172	15	48	25	36	28	7	9	3	-	2	9800
NONE	221	24	55	23	56	26	12	16	5	4	-	10700
FIREPLACES AND HEATING STOVES												
OWNER OCCUPIED	9 472	254	864	683	1 184	1 110	1 209	1 906	1 341	634	287	22700
HOUSING UNITS WITH HEATING EQUIPMENT	9 319	252	854	672	1 166	1 096	1 186	1 874	1 315	621	281	22600
WITH FIREPLACE OR HEATING STOVE	5 859	148	328	294	568	568	730	1 341	1 087	553	242	27200
IN WORKING ORDER	5 702	140	311	276	542	551	708	1 320	1 075	542	238	27500
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	4 558	93	225	207	442	433	597	1 083	894	407	177	27600
ALL PURCHASED	1 439	25	74	52	117	109	201	347	282	162	71	29100
SOME OR NONE PURCHASED	3 056	67	147	154	321	314	390	725	591	241	106	26900
NOT REPORTED	63	-	3	2	4	10	6	12	22	4	-	30000
COAL	10	-	-	-	3	3	1	2	-	2	-	...
OTHER FUEL	501	26	38	21	37	35	42	101	88	75	38	30200
NONE	623	22	48	46	60	80	66	129	91	59	23	24200
NOT REPORTED	10	-	-	2	-	-	2	5	2	-	-	...
NOT IN WORKING ORDER	150	8	14	18	26	16	22	21	10	9	4	17700
NOT REPORTED	7	-	3	-	-	1	-	-	2	2	-	...
WITHOUT FIREPLACE OR HEATING STOVE	3 435	103	527	378	597	527	453	525	224	67	36	16100
NOT REPORTED	24	2	-	1	2	1	3	7	4	2	3	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	154	2	10	11	18	14	23	32	26	13	6	25000
RENTER OCCUPIED	6 208	442	1 337	929	1 304	911	529	498	176	56	27	11500
HOUSING UNITS WITH HEATING EQUIPMENT	5 987	418	1 282	905	1 249	884	517	482	171	52	27	11600
WITH FIREPLACE OR HEATING STOVE	1 147	48	161	123	210	186	139	158	73	29	19	15800
IN WORKING ORDER	1 068	41	150	116	195	176	133	148	61	29	19	15900
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	745	31	88	81	134	124	103	105	48	22	10	16600
ALL PURCHASED	245	7	27	17	30	40	35	45	28	13	3	20200
SOME OR NONE PURCHASED	475	21	61	59	99	77	64	58	20	9	7	14900
NOT REPORTED	24	3	1	5	5	6	3	2	-	-	-	...
COAL	3	-	2	-	1	-	-	-	-	-	-	...
OTHER FUEL	167	2	34	16	34	25	19	25	7	2	4	14600
NONE	144	8	22	16	26	27	11	17	5	6	5	14700
NOT REPORTED	9	-	3	2	1	-	-	2	1	-	1	...
NOT IN WORKING ORDER	75	6	10	6	15	11	6	10	12	-	-	15600
NOT REPORTED	4	2	2	1	-	-	-	-	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	4 818	367	1 115	781	1 032	698	377	323	94	22	8	10700
NOT REPORTED	23	3	6	2	6	-	2	1	4	-	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	221	24	55	23	56	26	12	16	5	4	-	10700
ALL OCCUPIED HOUSING UNITS	15 681	696	2 201	1 612	2 488	2 021	1 738	2 404	1 517	690	314	17100
UNITS OCCUPIED LAST WINTER	12 870	454	1 753	1 229	1 936	1 649	1 491	2 080	1 370	628	281	18200
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	8 765	229	829	627	1 098	1 009	1 120	1 742	1 257	589	265	22600
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	206	757	568	1 015	935	1 046	1 653	1 205	565	255	23000
NO ADDITIONAL HEAT SOURCE USED	7 623	176	700	523	945	876	972	1 558	1 114	526	234	23000
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	491	22	50	36	60	53	66	81	77	33	13	21800
NOT REPORTED	91	8	7	9	10	7	8	14	14	7	8	23500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	23	71	59	82	74	75	89	53	23	11	18000
RENTER OCCUPIED	4 105	225	924	601	839	640	370	338	113	40	15	11800
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	202	840	555	766	592	353	314	106	36	14	11900
NO ADDITIONAL HEAT SOURCE USED	3 311	167	736	476	663	526	312	291	94	34	14	12100
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	392	29	95	70	78	54	36	20	8	2	-	10100
NOT REPORTED	76	6	10	9	25	12	5	4	5	-	-	12600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	23	84	46	73	48	17	24	7	4	2	10700
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	8 765	229	829	627	1 098	1 009	1 120	1 742	1 257	589	265	22600
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	206	757	568	1 015	935	1 046	1 653	1 205	565	255	23000
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 227	137	467	422	726	669	791	1 324	978	496	218	24400
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 850	62	278	132	278	254	243	305	209	61	27	18400
1 ROOM	458	13	53	24	58	58	69	82	73	19	10	21700
2 ROOMS	512	24	115	47	75	70	46	78	31	16	9	14600
3 ROOMS OR MORE	880	25	109	61	145	126	128	145	105	27	8	18900
NOT REPORTED	128	7	13	14	12	11	11	24	18	8	10	23300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	23	71	59	82	74	75	89	53	23	11	18000
RENTER OCCUPIED	4 105	225	924	601	839	640	370	338	113	40	15	11800
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	202	840	555	766	592	353	314	106	36	14	11900
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 170	105	486	300	415	335	216	204	72	27	10	12300
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 522	90	344	239	325	244	132	106	29	8	4	11300
1 ROOM	543	21	146	78	142	82	48	18	5	2	2	10900
2 ROOMS	582	44	129	91	107	95	54	46	11	4	2	11300
3 ROOMS OR MORE	397	26	69	70	76	67	30	42	14	2	1	12200
NOT REPORTED	87	7	10	16	27	14	5	4	5	-	-	12000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	23	84	46	73	48	17	24	7	4	2	10700

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
UNITS OCCUPIED LAST WINTER--CONTINUED												
INSUFFICIENT HEAT--CONTINUED												
HOUSING UNIT UNCOMFORTABLY COLD:												
OWNER OCCUPIED	8 765	229	829	627	1 098	1 009	1 120	1 742	1 257	589	265	22600
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	206	757	568	1 015	935	1 046	1 653	1 205	565	255	23000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	23	71	59	82	74	75	89	53	23	11	18000
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	478	18	57	53	71	61	61	79	47	22	10	18300
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	51	5	13	4	7	6	10	2	4	-	-	12600
NOT REPORTED	30	-	2	2	5	7	4	7	1	2	1	...
RENTER OCCUPIED	4 105	225	924	601	839	640	370	338	113	40	15	11800
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	202	840	555	766	592	353	314	106	36	14	11900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	23	84	46	73	48	17	24	7	4	2	10700
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	252	20	65	34	59	35	13	15	5	4	2	10600
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	1	13	7	13	9	2	-	1	-	-	10800
NOT REPORTED	28	1	6	5	1	4	2	8	2	-	-	...
ALL OCCUPIED HOUSING UNITS	15 681	696	2 201	1 612	2 488	2 021	1 738	2 404	1 517	690	314	17100
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	9 472	254	864	683	1 184	1 110	1 209	1 906	1 341	634	287	22700
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	553	18	67	60	78	70	78	89	54	28	11	18800
WITH SELECTED HEATING EQUIPMENT[2]	8 919	235	797	623	1 106	1 040	1 131	1 817	1 287	606	277	22900
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 264	223	756	585	1 004	972	1 044	1 664	1 202	563	251	22800
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	629	11	39	37	100	65	84	143	83	43	24	23700
SOLAR HEATING EQUIPMENT	20	-	2	1	6	-	3	4	1	2	2	...
STOVE, BURNING WOOD OR COAL	177	3	16	8	20	19	29	37	27	12	6	23900
FIREPLACE, BURNING WOOD OR COAL	112	-	2	5	13	10	8	39	18	12	6	29500
PORTABLE ELECTRIC HEATER	236	5	16	19	51	28	26	45	27	11	7	19700
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	28	1	3	3	3	3	3	4	3	3	2	...
OTHER	78	2	2	6	10	5	15	19	8	5	5	24500
NOT REPORTED	26	2	2	1	2	2	3	10	2	-	2	...
RENTER OCCUPIED	6 208	442	1 337	929	1 304	911	529	498	176	56	27	11500
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	393	38	103	48	91	55	19	24	8	4	2	10300
WITH SELECTED HEATING EQUIPMENT[2]	5 815	403	1 234	880	1 213	856	510	473	168	52	25	11600
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 588	385	1 184	842	1 162	823	498	458	158	52	25	11600
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	13	47	39	46	33	10	15	6	-	-	10700
SOLAR HEATING EQUIPMENT	2	-	-	-	1	1	-	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	15	-	-	2	5	4	2	2	-	-	-	...
FIREPLACE, BURNING WOOD OR COAL	6	-	-	-	2	3	-	2	-	-	-	...
PORTABLE ELECTRIC HEATER	168	12	44	34	36	23	7	9	3	-	-	9500
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	6	-	1	-	1	2	1	2	-	-	-	...
OTHER	12	1	2	3	2	1	-	2	2	-	-	...
NOT REPORTED	19	5	3	-	5	-	2	1	4	-	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
OWNER OCCUPIED	9 400	243	855	676	1 172	1 103	1 204	1 894	1 336	630	286	22700
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 214	239	838	668	1 158	1 096	1 183	1 852	1 304	602	275	22600
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	96	-	8	2	7	-	13	19	23	21	6	35500
NOT REPORTED	90	4	10	7	8	8	9	23	10	8	5	25100
RENTER OCCUPIED	6 122	423	1 304	917	1 294	902	529	495	174	56	27	11600
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 043	414	1 282	903	1 285	894	524	488	170	56	27	11600
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	1	6	3	3	4	2	-	-	-	-	...
NOT REPORTED	60	8	16	11	7	5	3	7	4	-	-	8700
AIR CONDITIONING												
OWNER OCCUPIED	9 472	254	864	683	1 184	1 110	1 209	1 906	1 341	634	287	22700
WITH AIR CONDITIONING	3 505	93	287	241	441	386	431	710	527	240	149	23500
ROOM UNITS	1 182	38	152	105	157	137	137	215	154	54	32	20100
1	963	29	142	83	132	111	106	168	123	45	23	19300
2	169	5	9	17	21	18	27	38	23	3	6	22500
3	35	3	2	2	-	7	4	5	6	3	2	...
4	9	-	-	2	2	2	-	2	2	-	-	...
5 OR MORE	7	-	-	-	2	-	1	2	-	2	1	...
CENTRAL SYSTEM	2 322	55	135	136	284	249	294	494	373	186	117	25200
WITH NO AIR CONDITIONING	5 968	160	577	442	743	724	778	1 196	814	394	138	22200
RENTER OCCUPIED	6 208	442	1 337	929	1 304	911	529	498	176	56	27	11500
WITH AIR CONDITIONING	1 844	106	327	235	403	302	172	193	74	27	5	13200
ROOM UNITS	1 025	48	177	132	259	184	79	101	28	13	4	13000
1	923	40	162	126	238	160	72	85	26	10	4	12800
2	85	8	10	6	16	22	6	11	2	3	-	15500
3	12	-	2	-	3	2	1	5	-	-	-	...
4	3	-	2	-	2	-	-	-	-	-	-	...
5 OR MORE	2	-	2	-	-	-	-	-	-	-	-	...
CENTRAL SYSTEM	819	59	150	103	144	118	93	92	46	14	1	13400
WITH NO AIR CONDITIONING	4 364	335	1 010	694	901	609	357	305	102	29	22	10800

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
OWNER OCCUPIED	9 472	254	864	683	1 184	1 110	1 209	1 906	1 341	634	287	22700
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	2 322	55	135	136	284	249	294	494	373	186	117	25200
WITH SUPPLEMENTAL EQUIPMENT USED	960	15	46	62	112	122	107	238	134	87	37	25700
INDIVIDUAL ROOM AIR CONDITIONING UNIT	69	-	2	2	11	6	7	14	13	8	7	30500
AWNINGS	202	4	10	19	31	20	24	51	16	16	11	23600
DEHUMIDIFIER	37	2	4	2	4	4	-	5	2	8	5	28200
CEILING FAN	73	-	1	4	5	5	11	23	12	7	5	29600
ATTIC FAN	215	6	10	13	8	21	22	63	38	22	10	29200
WINDOW FAN	32	-	-	-	2	8	4	9	6	2	2	...
PORTABLE FAN	588	6	23	38	74	81	68	140	72	38	10	23900
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 312	37	81	71	165	123	181	246	235	98	76	24900
NOT REPORTED	50	3	8	2	7	3	6	11	4	2	3	20900
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 150	198	729	547	900	861	916	1 411	969	447	171	21800
RENTER OCCUPIED	6 208	442	1 337	929	1 304	911	529	498	176	56	27	11500
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	819	59	150	103	144	118	93	92	46	14	1	13400
WITH SUPPLEMENTAL EQUIPMENT USED	154	6	31	15	25	21	16	25	12	2	1	15000
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	2	1	-	1	-	-	2	-	-	1	...
AWNINGS	22	-	3	2	4	3	2	2	5	2	-	...
DEHUMIDIFIER	2	-	-	-	-	2	-	-	-	1	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	11	2	-	2	2	1	1	-	3	-	-	...
WINDOW FAN	14	-	2	2	-	3	3	5	-	-	-	...
PORTABLE FAN	115	2	25	11	19	17	11	20	9	-	-	14900
WITH NO SUPPLEMENTAL EQUIPMENT USED	644	52	115	85	117	91	72	67	33	12	-	13000
NOT REPORTED	21	1	3	3	2	7	5	1	-	-	-	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 389	383	1 187	826	1 160	793	436	406	130	42	26	11300
ALL OCCUPIED HOUSING UNITS	15 681	696	2 201	1 612	2 488	2 021	1 738	2 404	1 517	690	314	17100
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 262	406	1 254	984	1 576	1 385	1 349	2 041	1 377	617	273	20100
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	8 997	245	819	646	1 125	1 039	1 150	1 835	1 283	590	265	22700
ALL WINDOWS COVERED	1 918	33	145	140	255	222	277	425	238	128	54	23000
SOME WINDOWS COVERED	1 108	26	94	80	138	135	134	230	165	77	29	23000
NO WINDOWS COVERED	5 921	185	575	422	726	678	731	1 171	872	381	180	22600
NOT REPORTED	50	2	4	5	6	4	7	9	9	4	2	23400
RENTER OCCUPIED	2 264	162	436	338	451	346	199	206	93	26	8	12200
ALL WINDOWS COVERED	253	29	39	36	47	39	25	20	14	4	-	12400
SOME WINDOWS COVERED	180	8	35	27	30	32	21	22	2	1	1	13300
NO WINDOWS COVERED	1 738	119	342	258	345	262	153	156	76	21	7	12200
NOT REPORTED	93	6	20	17	29	13	-	8	1	-	-	10800
STORM DOORS												
OWNER OCCUPIED	8 997	245	819	646	1 125	1 039	1 150	1 835	1 283	590	265	22700
ALL DOORS COVERED	1 167	24	111	92	161	160	169	235	138	56	20	21000
SOME DOORS COVERED	944	15	71	75	128	119	132	219	97	61	27	22400
NO DOORS COVERED	6 835	204	632	476	830	756	842	1 372	1 038	469	214	23100
NOT REPORTED	51	2	4	3	6	4	7	9	10	3	3	25100
RENTER OCCUPIED	2 264	162	436	338	451	346	199	206	93	26	8	12200
ALL DOORS COVERED	132	13	21	17	26	18	17	12	6	3	-	13000
SOME DOORS COVERED	109	8	15	11	20	20	11	16	5	3	-	15000
NO DOORS COVERED	1 928	133	380	294	375	293	171	171	81	20	8	12100
NOT REPORTED	95	7	20	17	29	14	-	7	1	-	-	10700
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	8 997	245	819	646	1 125	1 039	1 150	1 835	1 283	590	265	22700
YES	7 088	162	583	466	860	777	916	1 511	1 081	499	233	23800
NO	1 494	68	187	139	201	208	172	255	167	71	26	18600
DON'T KNOW	368	13	44	36	58	51	56	61	26	17	5	18200
NOT REPORTED	47	2	4	5	6	2	6	8	10	3	2	23800
RENTER OCCUPIED	2 264	162	436	338	451	346	199	206	93	26	8	12200
YES	904	62	163	127	146	155	98	97	38	11	5	13400
NO	672	46	144	92	149	107	50	48	27	9	1	11800
DON'T KNOW	589	45	108	102	127	71	48	52	27	7	2	11500
NOT REPORTED	100	9	20	17	29	13	3	9	1	-	-	10800
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	8 997	245	819	646	1 125	1 039	1 150	1 835	1 283	590	265	22700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	5 921	185	575	422	726	678	731	1 171	872	381	180	22600
SOME OR ALL WINDOWS COVERED	3 027	58	239	220	394	357	412	655	403	206	83	23000
NONE INSTALLED	2 414	44	192	173	299	293	341	525	323	158	65	23000
SOME OR ALL INSTALLED	568	13	39	46	84	61	68	126	70	47	15	23100
NOT REPORTED	45	2	8	1	11	3	3	4	10	1	2	16400
NOT REPORTED	50	2	4	5	6	4	7	9	9	4	2	23400
STORM DOORS:												
NO DOORS COVERED	6 835	204	632	476	830	756	842	1 372	1 038	469	214	23100
SOME OR ALL DOORS COVERED	2 112	39	182	167	289	279	301	454	235	118	47	21600
NONE INSTALLED	1 854	37	155	160	243	247	278	397	193	103	40	21500
SOME OR ALL INSTALLED	214	2	18	4	37	29	20	49	38	14	4	24300
NOT REPORTED	43	-	9	3	9	3	3	8	4	1	3	15800
NOT REPORTED	51	2	4	3	6	4	7	9	10	3	3	25100

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 494	68	187	139	201	208	172	255	167	71	26	18600
WITH ATTIC OR ROOF INSULATION	7 088	162	583	466	860	777	916	1 511	1 081	499	233	23800
NONE ADDED OR INSTALLED	6 343	142	528	415	775	696	828	1 364	944	443	207	23700
SOME OR ALL ADDED OR INSTALLED	666	17	47	44	71	73	82	129	126	54	21	24900
NOT REPORTED	79	2	9	7	13	8	6	17	11	2	4	20300
DON'T KNOW	368	13	44	36	58	51	56	61	26	17	5	18200
NOT REPORTED	47	2	4	5	6	2	6	8	10	3	2	23800
WALL INSULATION:												
NONE ADDED OR INSTALLED	8 511	230	797	621	1 078	989	1 094	1 726	1 188	539	249	22500
SOME OR ALL ADDED OR INSTALLED	425	11	15	22	38	47	46	98	85	48	14	28300
NOT REPORTED	61	4	7	3	9	3	9	11	11	3	2	22600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	7 650	214	758	564	990	902	958	1 501	1 044	489	229	22100
SOME OR ALL ADDED OR INSTALLED	1 291	28	55	79	127	134	184	322	229	98	34	26200
NOT REPORTED	57	3	5	3	8	3	8	11	11	3	2	23700
OTHER INSULATION:												
NONE ADDED OR INSTALLED	8 110	226	773	579	1 038	953	1 029	1 636	1 122	516	237	22400
SOME OR ALL ADDED OR INSTALLED	836	15	39	65	80	84	115	189	153	71	27	26100
NOT REPORTED	51	3	7	3	7	3	6	9	9	3	2	22600
RENTER OCCUPIED	2 264	162	436	338	451	346	199	206	93	26	8	12200
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	1 738	119	342	258	345	262	153	156	76	21	7	12200
SOME OR ALL WINDOWS COVERED	433	37	75	63	77	71	46	42	16	6	1	12800
NONE INSTALLED	337	34	50	42	58	59	39	35	12	6	1	13600
SOME OR ALL INSTALLED	87	3	21	19	16	12	7	7	1	-	-	10000
NOT REPORTED	10	-	3	2	3	-	-	-	2	-	-	...
NOT REPORTED	93	6	20	17	29	13	-	8	1	-	-	10800
STORM DOORS:												
NO DOORS COVERED	1 928	133	380	294	375	293	171	171	81	20	8	12100
SOME OR ALL DOORS COVERED	242	21	36	27	47	38	28	28	11	6	-	13900
NONE INSTALLED	212	20	30	21	39	36	25	26	9	6	-	14500
SOME OR ALL INSTALLED	19	1	4	4	6	2	1	1	2	-	-	...
NOT REPORTED	11	1	2	2	2	-	2	2	-	-	-	...
NOT REPORTED	95	7	20	17	29	14	-	7	1	-	-	10700
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	672	46	144	92	149	107	50	48	27	9	1	11800
WITH ATTIC OR ROOF INSULATION	904	62	163	127	146	155	98	97	38	11	5	13400
NONE ADDED OR INSTALLED	822	58	152	109	129	144	91	93	31	11	5	13600
SOME OR ALL ADDED OR INSTALLED	64	2	9	15	15	7	7	4	5	-	-	11800
NOT REPORTED	18	2	2	3	2	5	1	1	3	-	-	...
DON'T KNOW	589	45	108	102	127	71	48	52	27	7	2	11500
NOT REPORTED	100	9	20	17	29	13	3	9	1	-	-	10800
WALL INSULATION:												
NONE ADDED OR INSTALLED	2 074	147	398	296	409	323	187	197	85	25	8	12400
SOME OR ALL ADDED OR INSTALLED	31	2	8	7	3	3	5	2	2	-	-	...
NOT REPORTED	159	13	30	35	39	19	7	8	6	1	-	10200
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	1 966	137	382	282	387	302	179	184	83	23	8	12300
SOME OR ALL ADDED OR INSTALLED	140	11	24	21	24	25	13	15	4	2	-	12700
NOT REPORTED	158	13	29	35	39	19	7	8	6	1	-	10200
OTHER INSULATION:												
NONE ADDED OR INSTALLED	2 044	145	395	286	398	318	186	196	87	25	8	12500
SOME OR ALL ADDED OR INSTALLED	68	4	12	19	14	10	7	2	-	-	-	10000
NOT REPORTED	152	13	29	33	38	18	5	8	6	1	-	10200
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
OWNER OCCUPIED	8 997	245	819	646	1 125	1 039	1 150	1 835	1 283	590	265	22700
NO INSULATION ADDED OR INSTALLED	6 394	186	662	472	824	769	794	1 244	843	405	195	21800
WITH INSULATION ADDED OR INSTALLED	2 446	52	138	159	272	254	342	568	417	180	63	25100
LESS THAN $50	1 068	21	69	84	120	107	173	254	171	54	15	23800
$50 TO $99	266	2	10	20	39	33	37	60	48	9	8	23900
$100 TO $249	335	7	20	18	37	36	45	65	66	28	12	25600
$250 TO $499	239	4	11	9	27	25	25	74	43	17	5	27600
$500 TO $999	156	-	7	8	16	14	17	39	35	16	4	29000
$1,000 OR MORE	206	5	8	16	20	30	24	34	28	25	16	25100
DON'T KNOW	105	8	10	1	10	5	14	20	14	20	2	27000
NOT REPORTED	69	4	3	2	3	4	7	22	12	12	-	30300
MEDIAN	62	50-	50-	50-	62	73	50-	58	75	160	184	...
NOT REPORTED OR DON'T KNOW	158	7	19	16	29	17	13	23	23	5	7	17600
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	243	8	17	20	36	31	31	56	23	18	3	21500
LESS THAN $50	95	4	10	16	15	11	12	16	7	4	-	16200
$50 TO $99	30	-	-	3	7	4	4	6	5	2	-	...
$100 TO $249	32	2	3	-	2	9	5	4	5	2	-	...
$250 TO $499	21	-	-	2	4	2	1	10	-	3	-	...
$500 TO $999	17	-	2	-	2	1	3	7	1	2	-	...
$1,000 OR MORE	25	-	1	-	2	3	4	5	4	3	3	...
DON'T KNOW	4	1	-	-	-	2	-	1	-	-	-	...
NOT REPORTED	19	2	2	-	2	-	2	8	1	3	-	...
MEDIAN	75	...	...	...	...	...	...	183	...	...	...	...

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
OWNER OCCUPIED--CONTINUED												
ONLY INSTALLED STORM DOORS	70	-	3	-	17	5	9	18	11	6	1	25300
LESS THAN $50	10	-	2	-	3	-	1	2	1	-	-	...
$50 TO $99	28	-	1	-	9	2	4	8	3	-	1	...
$100 TO $249	19	-	-	-	5	2	1	3	4	3	-	...
$250 TO $499	4	-	-	-	-	-	-	2	2	1	-	...
$500 TO $999	-	-	-	-	-	-	-	-	-	-	-	-
$1,000 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
DON'T KNOW	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	8	-	-	-	-	-	3	2	1	2	-	...
MEDIAN	85	-	...	-	...	...	...	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	280	9	26	21	31	21	38	56	55	21	4	24400
LESS THAN $50	34	1	5	3	6	-	4	5	11	-	-	...
$50 TO $99	34	2	3	2	3	2	6	8	5	3	-	...
$100 TO $249	77	1	10	9	5	9	11	10	14	7	2	22200
$250 TO $499	64	2	5	2	8	5	13	16	13	-	-	24200
$500 TO $999	26	-	2	2	3	2	-	6	8	4	-	...
$1,000 OR MORE	8	-	-	-	2	1	-	2	3	1	-	...
DON'T KNOW	20	1	-	1	3	1	4	5	-	2	2	...
NOT REPORTED	17	2	2	1	2	2	-	3	2	4	-	...
MEDIAN	204	...	...	...	...	...	...	259	218	...	...	...
ALL OCCUPIED HOUSING UNITS	15 681	696	2 201	1 612	2 488	2 021	1 738	2 404	1 517	690	314	17100
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	6 582	94	165	192	642	796	986	1 658	1 209	572	268	27500
DRIVES SELF	4 910	70	112	141	485	585	753	1 214	911	425	213	27500
CARPOOL	1 014	10	23	25	83	130	148	285	193	93	23	28100
MASS TRANSPORTATION	182	2	2	5	17	23	26	52	32	14	10	28200
BICYCLE, MOTORCYCLE, OR MOPED	164	-	2	1	12	18	26	66	24	8	7	28500
TAXICAB	7	-	-	-	-	3	2	2	-	-	-	...
WALKS ONLY	109	4	7	7	14	15	11	15	23	10	3	23800
OTHER MEANS	23	-	2	-	4	-	5	6	3	3	-	...
WORKS AT HOME	174	10	17	14	26	21	17	19	22	19	11	19900
RENTER OCCUPIED	4 156	165	444	590	1 040	770	471	444	156	52	25	14200
DRIVES SELF	2 602	80	247	343	681	495	308	283	108	41	17	14600
CARPOOL	663	20	44	85	160	130	83	107	23	6	5	15800
MASS TRANSPORTATION	341	15	53	77	89	49	30	17	9	2	-	11500
BICYCLE, MOTORCYCLE, OR MOPED	170	11	16	24	30	42	25	13	8	-	2	15500
TAXICAB	2	-	2	-	-	-	-	-	-	-	-	...
WALKS ONLY	283	27	57	51	65	46	18	17	2	1	-	10600
OTHER MEANS	9	-	-	1	2	1	2	-	2	-	2	...
WORKS AT HOME	87	12	26	10	12	9	5	6	5	2	-	8500
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]												
OWNER OCCUPIED	6 582	94	165	192	642	796	986	1 658	1 209	572	268	27500
HOUSEHOLDER DRIVES ALONE	4 910	70	112	141	485	585	753	1 214	911	425	213	27500
IRREGULAR OR UNUSUAL WORK HOURS	1 822	26	44	40	179	209	279	483	315	155	92	27800
IRREGULAR WORK LOCATION	470	10	6	19	32	43	77	123	87	49	25	29000
CAR NEEDED FOR WORK OR ERRANDS	859	11	28	15	62	79	104	202	209	102	47	31500
DOESN'T KNOW ANYONE TO RIDE WITH	790	8	19	39	100	125	128	174	147	32	18	24100
LIKES PRIVACY	174	3	3	5	25	22	21	42	27	22	3	26700
OUT OF THE WAY TO PICK UP OTHERS	270	-	4	8	36	46	53	55	47	13	8	23800
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	41	2	-	-	3	7	13	13	3	-	-	23400
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	126	7	2	1	14	11	27	24	25	14	3	25600
DOESN'T TRUST OTHERS DRIVING	9	-	2	-	2	2	1	1	-	2	-	...
SOME OTHER REASON	331	2	5	13	32	41	44	94	49	34	16	27900
NOT REPORTED	18	-	-	1	2	-	5	3	2	2	2	...
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	1 672	25	53	51	157	210	233	444	298	147	54	27400
RENTER OCCUPIED	4 156	165	444	590	1 040	770	471	444	156	52	25	14200
HOUSEHOLDER DRIVES ALONE	2 602	80	247	343	681	495	308	283	108	41	17	14600
IRREGULAR OR UNUSUAL WORK HOURS	861	28	62	93	225	144	117	111	42	14	5	15700
IRREGULAR WORK LOCATION	182	3	30	17	43	33	26	20	7	-	2	14700
CAR NEEDED FOR WORK OR ERRANDS	362	8	23	51	75	83	46	38	20	13	6	16500
DOESN'T KNOW ANYONE TO RIDE WITH	608	17	81	106	165	100	54	53	20	10	2	13000
LIKES PRIVACY	135	10	15	18	32	26	14	14	6	-	-	13900
OUT OF THE WAY TO PICK UP OTHERS	147	6	8	23	44	31	16	15	2	-	2	14200
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	25	-	1	3	13	-	4	5	-	-	-	...
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	77	2	5	7	29	15	6	11	1	1	-	14200
DOESN'T TRUST OTHERS DRIVING	8	-	2	2	2	2	-	2	-	-	-	...
SOME OTHER REASON	185	6	21	23	50	39	20	15	7	3	1	14200
NOT REPORTED	12	-	-	1	3	3	4	-	2	-	-	...
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	1 554	85	198	247	359	275	163	160	48	11	8	13400

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $3,000	$3,000 TO $6,999	$7,000 TO $9,999	$10,000 TO $14,999	$15,000 TO $19,999	$20,000 TO $24,999	$25,000 TO $34,999	$35,000 TO $49,999	$50,000 TO $74,999	$75,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	6 582	94	165	192	642	796	986	1 658	1 209	572	268	27500
LESS THAN 1 MILE	326	11	16	17	47	50	23	76	55	25	7	24800
1 TO 4 MILES	1 231	15	44	42	158	136	198	286	216	92	44	25800
5 TO 9 MILES	1 294	9	20	34	121	191	201	354	229	97	37	27000
10 TO 19 MILES	1 530	20	24	30	137	203	245	412	281	133	43	27600
20 TO 29 MILES	602	8	6	20	39	54	100	167	123	54	34	29500
30 TO 49 MILES	331	4	10	5	23	35	54	76	75	27	23	29500
50 MILES OR MORE	128	-	2	1	12	18	17	35	22	11	6	28600
WORKS AT HOME	174	10	17	14	26	21	17	19	22	19	11	19900
NO FIXED PLACE OF WORK	969	18	27	29	78	88	132	234	185	114	63	29800
MEDIAN	9.5	9.0	5.1	7.3	7.6	9.1	9.9	9.8	10.0	10.4	12.1	...
RENTER OCCUPIED	4 156	165	444	590	1 040	770	471	444	156	52	25	14200
LESS THAN 1 MILE	449	31	71	69	113	81	35	38	9	2	-	12300
1 TO 4 MILES	1 103	52	139	178	281	195	113	101	29	5	10	13300
5 TO 9 MILES	884	31	65	139	232	168	96	99	43	8	3	14500
10 TO 19 MILES	761	20	69	111	196	150	89	80	33	12	2	14600
20 TO 29 MILES	270	3	13	36	66	59	43	33	11	5	2	16400
30 TO 49 MILES	145	5	9	3	50	24	24	18	8	3	2	16100
50 MILES OR MORE	42	5	3	5	7	4	5	12	1	-	-	17100
WORKS AT HOME	87	12	26	10	12	9	5	6	5	2	-	8500
NO FIXED PLACE OF WORK	416	7	49	40	82	81	61	57	18	14	7	16800
MEDIAN	6.5	4.3	4.3	5.8	6.7	6.9	7.8	7.6	8.4	11.8	...	...
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	6 582	94	165	192	642	796	986	1 658	1 209	572	268	27500
LESS THAN 15 MINUTES	1 869	30	60	65	223	215	276	451	327	154	67	26500
15 TO 29 MINUTES	2 071	23	38	47	182	307	338	551	380	146	61	26800
30 TO 44 MINUTES	880	6	15	26	74	103	128	248	163	83	35	28600
45 TO 59 MINUTES	333	-	3	7	35	28	55	79	74	36	17	29900
1 HOUR TO 1 HOUR AND 29 MINUTES	196	8	5	3	21	21	27	50	38	12	9	27300
1 HOUR AND 30 MINUTES OR MORE	90	-	-	1	2	13	13	26	19	10	5	30800
WORKS AT HOME	174	10	17	14	26	21	17	19	22	19	11	19900
NO FIXED PLACE OF WORK	969	18	27	29	78	88	132	234	185	114	63	29800
MEDIAN	21.1	16.9	15.2	18.2	18.8	21.3	21.3	21.8	21.8	21.8	22.2	...
RENTER OCCUPIED	4 156	165	444	590	1 040	770	471	444	156	52	25	14200
LESS THAN 15 MINUTES	1 467	66	182	214	361	270	154	151	49	11	10	13800
15 TO 29 MINUTES	1 362	53	105	221	379	260	140	133	52	14	5	14000
30 TO 44 MINUTES	505	11	53	65	116	112	60	58	22	8	-	15300
45 TO 59 MINUTES	160	2	16	18	44	24	29	18	6	2	2	15100
1 HOUR TO 1 HOUR AND 29 MINUTES	114	5	12	16	35	13	16	12	2	2	2	13500
1 HOUR AND 30 MINUTES OR MORE	46	10	2	5	11	2	6	9	1	-	-	12900
WORKS AT HOME	87	12	26	10	12	9	5	6	5	2	-	8500
NO FIXED PLACE OF WORK	416	7	49	40	82	81	61	57	18	14	7	16800
MEDIAN	19.0	17.1	15.4	18.8	19.4	19.0	20.2	19.5	20.0	22.5	...	...

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE E-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	7 718	27	117	257	436	710	755	1 363	1 797	1 823	434	77700
HOUSE HEATING FUEL												
UTILITY GAS	5 660	13	79	185	274	457	491	979	1 413	1 456	353	81900
BOTTLED, TANK, OR LP GAS	127	5	6	15	13	12	10	10	23	28	7	64200
FUEL OIL	383	-	7	29	29	45	49	90	79	44	11	65500
KEROSENE, ETC	1	-	1	-	-	-	-	-	-	-	-	...
ELECTRICITY	1 276	3	17	46	95	174	174	258	252	215	43	67600
COAL OR COKE	6	-	-	1	3	-	-	-	1	1	-	...
WOOD	138	5	6	15	18	19	23	28	18	7	-	52700
SOLAR HEAT	7	-	-	-	-	-	2	-	-	5	-	...
OTHER FUEL	1	-	-	1	-	-	-	-	-	-	-	...
NONE	120	1	2	6	4	3	5	-	13	67	19	139700
WATER HEATING FUEL[2]												
UTILITY GAS	5 455	9	72	123	230	424	469	957	1 388	1 438	346	83000
BOTTLED, TANK, OR LP GAS	108	4	8	14	14	6	9	11	12	25	7	59500
FUEL OIL	12	-	-	-	1	4	3	1	2	1	1	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 088	9	34	115	186	274	268	392	384	349	77	66000
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	4	-	-	-	1	1	-	-	1	2	-	...
SOLAR HEAT	25	-	-	-	1	-	3	2	8	9	2	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	2	-	-	-	-	-	2	-	-	-	-	...
COOKING FUEL												
UTILITY GAS	2 802	11	66	97	142	251	228	465	748	658	138	79800
BOTTLED, TANK, OR LP GAS	87	7	11	15	14	5	7	8	7	11	1	37400
FUEL OIL	6	-	-	-	-	-	4	2	-	1	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	4 809	7	39	141	280	451	514	889	1 042	1 152	295	77000
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	11	2	2	3	-	3	1	-	-	1	-	...
OTHER FUEL	2	-	-	-	-	-	2	-	-	-	-	...
NONE	-	-	-	-	-	-	-	-	-	-	-	-
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	7 709	27	116	256	436	707	754	1 363	1 796	1 821	434	77700
LESS THAN $10	116	2	5	10	10	15	11	38	12	10	3	62100
$10 TO $19	1 156	9	35	65	83	136	139	222	262	175	30	67500
$20 TO $29	1 838	7	35	85	116	179	210	320	428	401	57	73400
$30 TO $39	1 589	5	12	48	102	141	153	285	395	382	65	78000
$40 TO $49	986	2	21	20	41	72	84	175	249	266	56	82700
$50 TO $59	644	1	4	12	33	68	44	122	154	169	37	81200
$60 TO $79	686	-	1	10	30	57	60	111	157	204	55	86700
$80 TO $99	262	-	-	5	7	13	25	37	58	90	26	93600
$100 TO $149	333	1	3	2	10	20	19	44	66	94	75	102300
$150 OR MORE	100	-	-	-	3	6	8	9	14	30	30	133300
MEDIAN	34	...	25	26	31	32	31	33	34	38	51	...
NO ELECTRICITY USED	9	-	1	1	-	2	1	-	2	2	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	6 175	20	92	172	317	505	553	1 064	1 506	1 568	377	81000
LESS THAN $10	428	2	9	14	29	45	48	73	104	81	22	73700
$10 TO $14	815	2	10	18	44	66	69	149	240	189	26	80000
$15 TO $19	949	2	18	34	47	55	85	179	239	232	57	80700
$20 TO $24	929	3	17	16	27	82	82	140	236	284	41	85300
$25 TO $29	717	1	13	18	35	52	70	129	156	196	46	81400
$30 TO $39	1 068	4	12	39	62	102	102	175	251	257	63	78600
$40 TO $49	584	2	6	22	30	42	41	118	129	159	34	80800
$50 TO $69	482	3	6	4	32	46	37	83	119	116	35	81300
$70 TO $99	151	-	-	6	6	13	12	14	23	44	32	101500
$100 OR MORE	53	1	2	1	3	2	5	2	9	8	20	122600
MEDIAN	24	...	22	26	26	25	24	24	23	24	29	...
NO GAS USED	1 543	6	25	84	120	205	201	299	291	255	57	66600
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 232	2	15	52	63	102	122	247	270	307	53	76300
LESS THAN $100	379	1	2	6	11	38	37	85	86	93	20	78000
$100 TO $199	313	-	3	7	13	10	21	62	65	113	17	90000
$200 TO $299	131	1	1	5	5	10	16	21	35	37	1	80300
$300 TO $399	79	1	2	7	11	13	3	7	21	13	2	65700
$400 TO $499	68	-	1	7	6	11	14	13	6	9	2	56700
$500 TO $599	67	-	2	3	11	10	8	17	9	5	2	59000
$600 TO $699	58	-	1	2	2	3	4	15	22	7	1	75900
$700 TO $799	44	-	1	6	-	4	4	13	6	7	3	67600
$800 OR MORE	94	-	2	9	2	3	14	14	20	22	7	77200
MEDIAN	175	...	...	421	311	235	216	162	174	152	136	...
FUELS NOT USED OR FREE	6 486	24	102	205	373	608	633	1 117	1 527	1 516	381	76000
HEATING EQUIPMENT												
WARM-AIR FURNACE	4 911	4	30	89	203	390	454	885	1 181	1 322	353	83500
HEAT PUMP	206	-	-	-	2	26	26	37	55	48	11	80200
STEAM OR HOT WATER	175	-	-	2	9	7	14	24	45	60	14	92500
BUILT-IN ELECTRIC UNITS	508	2	8	37	53	92	70	95	80	64	8	58900
FLOOR, WALL, OR PIPELESS FURNACE	1 301	2	27	59	104	127	126	252	358	224	23	72300
ROOM HEATERS WITH FLUE	198	8	29	37	19	26	16	22	25	13	3	42400
ROOM HEATERS WITHOUT FLUE	27	3	5	3	3	3	1	6	2	1	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	273	7	17	25	39	36	42	44	38	24	1	52900
NONE	120	1	2	6	4	3	5	-	13	67	19	139700

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE E-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	7 598	26	115	251	432	707	749	1 363	1 784	1 755	414	77200
WITH FIREPLACE OR HEATING STOVE	5 235	8	39	91	174	269	409	866	1 357	1 618	404	89000
IN WORKING ORDER	5 099	8	38	86	162	255	396	842	1 324	1 587	401	89400
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	4 088	7	29	66	138	205	326	727	1 113	1 201	276	87300
ALL PURCHASED	1 309	2	7	20	27	46	79	226	355	437	110	92400
SOME OR NONE PURCHASED	2 720	6	21	45	111	158	242	495	734	742	167	84600
NOT REPORTED	59	-	1	-	-	1	4	7	24	22	-	91800
COAL	8	-	-	1	-	3	-	-	-	4	-	...
OTHER FUEL	418	1	7	9	10	13	20	38	68	175	76	124300
NONE	577	-	2	11	14	34	51	74	140	203	48	93300
NOT REPORTED	9	-	-	-	-	-	-	2	2	4	-	...
NOT IN WORKING ORDER	134	-	2	5	11	14	13	23	32	31	3	74900
NOT REPORTED	3	-	-	-	-	-	-	2	1	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	2 347	18	76	160	256	435	336	492	427	137	10	56800
NOT REPORTED	15	-	-	-	2	2	5	5	-	1	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	120	1	2	6	4	3	5	-	13	67	19	139700
SPECIFIED OWNER OCCUPIED[1]	7 718	27	117	257	436	710	755	1 363	1 797	1 823	434	77700
UNITS OCCUPIED LAST WINTER	7 201	27	111	249	418	659	694	1 262	1 660	1 726	396	77700
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	6 802	16	88	215	371	622	648	1 220	1 610	1 636	376	78400
NO ADDITIONAL HEAT SOURCE USED	6 316	13	73	193	350	568	607	1 125	1 508	1 527	351	78800
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	422	2	13	19	19	46	37	82	86	94	23	73600
NOT REPORTED	64	-	2	3	2	7	4	12	16	15	3	77200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	399	11	23	34	47	37	46	42	50	89	20	60700
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[3]	6 802	16	88	215	371	622	648	1 220	1 610	1 636	376	78400
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	5 010	5	33	116	234	434	471	914	1 173	1 304	325	81300
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 698	10	54	94	131	182	170	290	410	308	48	70700
1 ROOM	395	2	7	18	27	38	45	66	83	89	19	73600
2 ROOMS	459	5	27	40	39	50	43	68	91	82	14	65600
3 ROOMS OR MORE	844	3	20	36	65	93	82	156	236	137	15	71800
NOT REPORTED	95	-	2	5	6	6	7	15	26	25	3	81600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	399	11	23	34	47	37	46	42	50	89	20	60700
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	6 802	16	88	215	371	622	648	1 220	1 610	1 636	376	78400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	399	11	23	34	47	37	46	42	50	89	20	60700
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	334	7	21	25	35	32	37	31	43	85	17	64700
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	43	4	2	6	8	4	5	7	4	2	2	46300
NOT REPORTED	23	-	1	3	4	2	3	4	3	2	2	...
SPECIFIED OWNER OCCUPIED[1]	7 718	27	117	257	436	710	755	1 363	1 797	1 823	434	77700
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	393	8	18	31	43	39	47	44	51	92	20	63400
WITH SELECTED HEATING EQUIPMENT[3]	7 325	19	99	226	393	671	707	1 320	1 747	1 731	413	78300
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 779	18	91	211	354	626	638	1 204	1 623	1 632	384	78800
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	525	1	8	15	38	41	64	108	122	99	29	73300
SOLAR HEATING EQUIPMENT	19	-	-	1	-	-	5	2	6	4	-	...
STOVE, BURNING WOOD OR COAL	152	-	3	2	12	15	24	32	40	23	1	69300
FIREPLACE, BURNING WOOD OR COAL	105	-	-	3	9	3	11	23	26	24	6	78300
PORTABLE ELECTRIC HEATER	173	1	4	5	14	15	21	33	34	31	15	72100
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	26	-	-	4	-	3	2	3	7	3	2	...
OTHER	69	-	1	2	4	4	6	16	11	18	7	77200
NOT REPORTED	21	-	-	-	1	4	6	8	1	1	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 502	22	113	251	423	703	734	1 340	1 750	1 752	414	77400
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	88	-	-	2	2	2	7	8	14	39	13	120300
NOT REPORTED	77	-	1	-	6	3	7	12	22	22	3	85500
AIR CONDITIONING												
WITH AIR CONDITIONING	2 740	6	26	72	141	244	276	505	661	628	180	78800
ROOM UNITS	947	6	23	56	90	100	87	163	219	175	30	70400
1	764	6	21	46	75	82	74	139	170	129	22	68400
2	145	-	1	10	13	14	10	19	40	35	4	78900
3	24	-	1	-	2	3	2	3	7	7	-	...
4	7	-	-	-	-	-	2	-	-	2	3	...
5 OR MORE	6	-	-	-	-	-	-	2	3	2	-	...
CENTRAL SYSTEM	1 793	1	3	16	51	144	189	342	442	454	151	83500
WITH NO AIR CONDITIONING	4 978	20	91	184	295	466	479	859	1 136	1 195	253	77100

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 793	1	3	16	51	144	189	342	442	454	151	83500
WITH SUPPLEMENTAL EQUIPMENT USED	738	-	-	5	25	67	97	158	168	170	49	77600
INDIVIDUAL ROOM AIR CONDITIONING UNIT	57	-	-	-	2	1	8	7	6	22	12	126800
AWNINGS	115	-	-	-	5	13	11	28	26	27	5	75600
DEHUMIDIFIER	25	-	-	1	-	2	4	2	9	8	-	...
CEILING FAN	61	-	-	-	1	-	6	15	18	15	5	85900
ATTIC FAN	198	-	-	1	3	9	19	39	58	58	12	87600
WINDOW FAN	20	-	-	-	1	-	1	3	9	6	-	...
PORTABLE FAN	410	-	-	5	20	48	63	102	78	75	20	70300
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 016	1	3	10	26	73	85	177	269	274	98	87400
NOT REPORTED	38	-	-	2	-	4	8	7	6	9	3	72500
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 925	26	114	240	385	566	566	1 021	1 355	1 369	283	75800
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 480	8	32	52	125	180	169	309	321	228	56	68500
SOME WINDOWS COVERED	966	4	18	58	68	97	113	184	201	172	51	70300
NO WINDOWS COVERED	5 250	15	67	145	241	432	469	867	1 272	1 416	326	82600
NOT REPORTED	22	-	1	2	2	2	4	3	3	7	-	...
STORM DOORS												
ALL DOORS COVERED	980	5	19	69	106	152	148	212	162	97	11	59400
SOME DOORS COVERED	770	2	16	31	64	86	114	213	159	72	12	65000
NO DOORS COVERED	5 944	20	81	157	265	470	487	935	1 471	1 647	411	84500
NOT REPORTED	24	-	1	-	2	2	6	3	5	7	-	...
ATTIC OR ROOF INSULATION												
YES	6 058	16	74	184	342	564	615	1 103	1 417	1 419	325	77300
NO	1 336	10	35	63	75	102	112	202	304	341	91	80600
DON'T KNOW	301	-	7	10	18	42	24	56	69	57	18	73300
NOT REPORTED	24	-	1	-	2	2	4	3	7	7	-	...
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	5 250	15	67	145	241	432	469	867	1 272	1 416	326	82600
SOME OR ALL WINDOWS COVERED	2 445	12	49	110	193	277	281	493	522	400	107	69100
NONE INSTALLED	1 921	8	36	87	154	219	224	386	418	311	78	69000
SOME OR ALL INSTALLED	495	4	11	22	36	56	52	104	100	86	23	69500
NOT REPORTED	29	-	2	1	3	2	5	2	5	3	6	...
NOT REPORTED	22	-	1	2	2	2	4	3	3	7	-	...
STORM DOORS:												
NO DOORS COVERED	5 944	20	81	157	265	470	487	935	1 471	1 647	411	84500
SOME OR ALL DOORS COVERED	1 750	6	35	100	170	238	262	426	321	169	23	62200
NONE INSTALLED	1 517	4	29	90	139	211	244	367	272	140	22	61700
SOME OR ALL INSTALLED	199	2	4	7	29	24	12	55	41	22	1	65400
NOT REPORTED	34	-	2	2	2	2	7	3	7	7	-	...
NOT REPORTED	24	-	1	-	2	2	6	3	5	7	-	...
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 336	10	35	63	75	102	112	202	304	341	91	80600
WITH ATTIC OR ROOF INSULATION	6 058	16	74	184	342	564	615	1 103	1 417	1 419	325	77300
NONE ADDED OR INSTALLED	5 377	9	55	157	314	499	548	980	1 255	1 278	281	77500
SOME OR ALL ADDED OR INSTALLED	616	7	19	25	25	59	59	119	138	126	39	74300
NOT REPORTED	65	-	-	2	3	6	7	3	24	15	4	86100
DON'T KNOW	301	-	7	10	18	42	24	56	69	57	18	73300
NOT REPORTED	24	-	1	-	2	2	4	3	7	7	-	...
WALL INSULATION:												
NONE ADDED OR INSTALLED	7 288	25	107	241	418	673	717	1 288	1 702	1 710	407	77600
SOME OR ALL ADDED OR INSTALLED	396	2	10	14	17	33	33	68	90	103	27	81000
NOT REPORTED	34	-	1	1	2	3	4	8	6	10	-	...
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	6 522	20	94	226	367	593	620	1 126	1 518	1 577	381	78600
SOME OR ALL ADDED OR INSTALLED	1 166	7	22	30	68	115	131	232	273	235	52	73600
NOT REPORTED	30	-	1	1	2	2	4	6	6	10	-	...
OTHER INSULATION:												
NONE ADDED OR INSTALLED	6 977	26	105	234	399	651	686	1 224	1 619	1 649	384	77500
SOME OR ALL ADDED OR INSTALLED	717	1	11	21	36	56	64	133	174	169	50	80000
NOT REPORTED	25	-	1	1	2	3	4	6	4	5	-	...
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	5 841	16	73	176	297	483	518	908	1 275	1 365	329	79900
WITH INSULATION ADDED OR INSTALLED	2 173	11	41	75	135	213	225	443	491	440	99	73100
LESS THAN $50	928	6	13	33	55	96	119	205	209	168	24	70400
$50 TO $99	228	1	7	7	24	24	17	51	42	44	12	70200
$100 TO $249	301	2	5	12	17	34	30	58	79	58	8	73500
$250 TO $499	217	2	5	11	14	22	19	37	57	42	8	74500
$500 TO $999	144	1	4	8	8	7	13	31	25	42	5	75000
$1,000 OR MORE	190	-	3	2	11	18	17	34	42	42	23	82000
DON'T KNOW	100	-	2	2	2	7	8	15	21	25	18	91900
NOT REPORTED	64	-	2	2	4	6	2	12	15	20	1	81400
MEDIAN	66	...	89	72	69	59	50-	53	71	84	170	...
NOT REPORTED OR DON'T KNOW	104	-	3	6	4	14	11	13	31	17	5	75900

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE E-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $10,000	$10,000 TO $19,999	$20,000 TO $29,999	$30,000 TO $39,999	$40,000 TO $49,999	$50,000 TO $59,999	$60,000 TO $74,999	$75,000 TO $99,999	$100,000 TO $199,999	$200,000 OR MORE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED												
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	208	1	6	12	16	20	27	44	36	33	11	67000
LESS THAN $50	79	1	3	9	8	10	14	19	10	5	-	56100
$50 TO $99	20	-	-	-	3	4	1	3	2	5	1	...
$100 TO $249	30	-	-	3	1	3	3	6	8	4	2	...
$250 TO $499	17	1	2	-	-	2	2	-	7	2	-	...
$500 TO $999	17	-	-	-	2	-	3	5	-	4	3	...
$1,000 OR MORE	25	-	-	-	2	1	2	6	6	4	5	...
DON'T KNOW	4	-	-	-	-	-	1	-	-	3	-	...
NOT REPORTED	16	-	2	-	-	-	1	5	3	6	-	...
MEDIAN	87	...	...	...	...	...	...	54	...	...	...	...
ONLY INSTALLED STORM DOORS	63	-	3	3	8	8	6	19	13	2	1	62100
LESS THAN $50	10	-	1	2	-	3	2	2	1	-	1	...
$50 TO $99	24	-	2	-	5	1	2	10	3	1	-	...
$100 TO $249	18	-	1	1	2	2	1	5	6	1	-	...
$250 TO $499	3	-	-	-	1	2	-	-	-	-	-	...
$500 TO $999	-	-	-	-	-	-	-	-	-	-	-	-
$1,000 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
DON'T KNOW	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	8	-	-	-	-	2	2	2	3	-	-	...
MEDIAN	85	-	...	...	...	...	...	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	254	2	5	12	12	25	19	47	60	64	8	77300
LESS THAN $50	32	1	1	4	4	2	1	6	6	7	-	...
$50 TO $99	29	-	2	1	2	3	6	6	3	8	-	...
$100 TO $249	67	-	2	1	-	8	10	17	16	13	-	71100
$250 TO $499	59	1	-	4	5	3	1	9	20	12	3	82400
$500 TO $999	26	-	-	-	-	2	1	3	7	13	-	...
$1,000 OR MORE	7	-	-	1	1	-	-	2	2	2	-	...
DON'T KNOW	17	-	-	-	-	2	1	3	5	2	4	...
NOT REPORTED	16	-	1	2	1	4	-	-	2	7	-	...
MEDIAN	208	...	...	...	...	...	...	187	276	242	...	...

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE E-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]	6 118	323	434	775	1 005	990	776	562	576	438	239	270
HOUSE HEATING FUEL												
UTILITY GAS	3 929	126	280	528	696	611	510	349	384	327	117	272
BOTTLED, TANK, OR LP GAS	90	10	16	15	12	14	5	2	1	1	15	190
FUEL OIL	204	7	15	45	54	23	10	16	12	8	14	225
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 575	149	70	119	203	318	230	173	156	82	74	282
COAL OR COKE	6	-	3	2	1	-	-	-	-	-	1	***
WOOD	58	3	12	14	9	2	3	5	1	-	10	183
SOLAR HEAT	3	-	-	-	-	-	2	-	-	-	1	***
OTHER FUEL	35	2	9	13	3	2	1	-	5	1	1	***
NONE	219	26	30	40	26	20	16	18	18	19	6	221
WATER HEATING FUEL[2]												
UTILITY GAS	4 036	132	291	529	704	628	515	365	392	353	124	273
BOTTLED, TANK, OR LP GAS	69	8	11	9	10	11	5	1	-	2	13	204
FUEL OIL	15	-	2	3	7	3	1	-	-	-	-	***
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 909	162	115	221	270	341	249	195	182	82	92	270
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	1	-	-	-	1	-	-	-	-	-	-	***
SOLAR HEAT	6	-	-	-	-	2	2	-	-	2	1	***
OTHER FUEL	14	-	-	3	5	3	2	-	2	-	-	***
NONE	20	8	2	3	5	-	1	-	-	-	2	***
COOKING FUEL												
UTILITY GAS	2 929	108	253	450	535	433	359	253	231	204	102	258
BOTTLED, TANK, OR LP GAS	87	12	15	8	13	15	7	1	-	1	16	202
FUEL OIL	12	-	2	2	5	3	-	-	-	-	1	***
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	3 025	182	139	306	447	538	409	308	345	233	118	285
COAL OR COKE	1	-	-	-	-	-	-	-	-	-	1	-
WOOD	7	3	1	-	1	-	-	-	-	-	1	***
OTHER FUEL	3	-	3	-	-	-	-	-	-	-	-	***
NONE	55	17	23	9	3	2	1	-	-	-	1	122
MONTHLY COST PAID FOR ELECTRICITY												
ELECTRICITY PAID FOR	4 914	96	285	546	800	870	706	522	531	416	143	287
LESS THAN $10	680	21	78	117	140	133	82	59	35	11	5	243
$10 TO $19	1 552	36	82	192	319	323	237	121	138	69	35	270
$20 TO $29	1 229	32	77	152	179	202	196	129	146	84	32	288
$30 TO $39	644	1	26	54	97	110	87	100	79	66	24	312
$40 TO $49	308	4	14	17	31	55	49	39	42	38	19	323
$50 TO $59	222	-	2	7	23	28	27	43	41	38	13	369
$60 TO $79	157	2	3	6	10	13	15	18	39	43	8	419
$80 TO $99	37	-	1	-	1	-	5	9	4	15	2	***
$100 TO $149	60	-	-	-	-	5	9	3	4	31	6	500+
$150 OR MORE	24	-	-	-	-	-	-	-	3	21	-	***
MEDIAN	22	17	17	17	17	18	22	26	26	36	30	***
INCLUDED IN RENT	1 177	226	145	214	204	118	69	39	43	22	96	189
NO ELECTRICITY USED	28	1	5	15	-	2	2	2	2	-	-	***
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
GAS PAID FOR	3 285	63	202	388	540	559	454	321	331	333	95	285
LESS THAN $10	981	22	76	131	198	202	140	101	62	36	13	264
$10 TO $14	716	18	33	90	138	112	93	80	68	66	18	281
$15 TO $19	516	15	24	56	74	85	75	51	63	55	19	296
$20 TO $24	346	5	23	39	48	50	61	24	38	43	15	300
$25 TO $29	243	2	16	26	45	36	31	28	24	31	5	291
$30 TO $39	248	-	18	28	16	25	32	25	41	44	14	342
$40 TO $49	122	1	7	10	14	28	15	8	17	17	5	297
$50 TO $69	76	-	4	6	5	14	7	4	10	21	4	345
$70 TO $99	22	-	-	1	-	6	-	1	5	9	1	***
$100 OR MORE	17	-	-	1	3	-	-	-	2	11	1	***
MEDIAN	14	12	13	13	12	13	14	13	17	21	19	***
INCLUDED IN RENT	1 427	130	163	244	270	171	139	87	104	38	81	225
NO GAS USED	1 406	130	69	143	194	260	183	154	141	68	63	275
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	287	4	15	20	29	43	28	37	42	52	17	343
LESS THAN $100	132	1	4	8	7	26	11	19	22	25	9	362
$100 TO $199	56	1	4	5	4	4	11	4	6	15	2	341
$200 TO $299	20	1	2	2	3	4	1	2	2	2	2	***
$300 TO $399	16	1	3	2	1	-	2	2	2	2	2	***
$400 TO $499	18	-	1	1	6	2	3	2	2	2	1	***
$500 TO $599	12	-	1	1	2	2	1	2	2	2	2	***
$600 TO $699	5	-	-	-	-	1	-	1	1	3	-	***
$700 TO $799	5	-	-	-	2	1	-	2	-	-	-	***
$800 OR MORE	23	-	-	1	4	4	-	4	6	3	2	***
MEDIAN	121	***	***	***	***	100-	***	100-	100-	108	***	***
INCLUDED IN RENT	547	43	47	76	102	85	59	34	32	20	48	240
FUELS NOT USED OR FREE	5 284	276	372	679	874	862	689	492	501	386	174	270
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 799	53	68	133	232	284	201	198	256	282	93	320
HEAT PUMP	54	3	-	2	8	9	12	7	3	8	2	317
STEAM OR HOT WATER	393	15	48	77	101	51	30	29	24	11	9	226
BUILT-IN ELECTRIC UNITS	1 101	129	51	102	150	210	171	105	106	35	43	273
FLOOR, WALL, OR PIPELESS FURNACE	1 963	56	136	274	407	354	297	173	151	73	43	262
ROOM HEATERS WITH FLUE	398	24	69	104	63	42	37	17	14	9	21	196
ROOM HEATERS WITHOUT FLUE	48	7	10	13	-	6	-	6	1	-	5	166
FIREPLACES, STOVES, OR PORTABLE HEATERS	144	10	23	32	18	14	14	9	4	1	19	195
NONE	219	26	30	40	26	20	16	18	18	19	6	221

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE E-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	5 900	296	405	736	979	970	761	544	558	419	234	271
WITH FIREPLACE OR HEATING STOVE	1 093	13	36	75	78	121	138	128	188	251	65	370
IN WORKING ORDER	1 015	13	33	65	69	115	121	118	182	239	60	376
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	696	7	23	37	40	86	87	81	143	149	44	378
ALL PURCHASED	242	2	5	5	11	20	29	34	52	76	10	421
SOME OR NONE PURCHASED	430	4	18	31	29	63	56	46	83	66	34	346
NOT REPORTED	24	-	1	2	-	2	2	1	8	8	-	...
COAL	2	-	-	-	-	-	-	-	2	-	1	...
OTHER FUEL	164	5	10	15	15	17	20	24	13	41	5	344
NONE	144	2	-	11	13	13	14	14	23	43	11	397
NOT REPORTED	9	-	-	2	-	-	-	-	2	6	-	...
NOT IN WORKING ORDER	74	-	3	6	9	6	17	10	4	12	4	324
NOT REPORTED	4	-	-	2	-	-	-	-	2	-	1	...
WITHOUT FIREPLACE OR HEATING STOVE	4 784	283	365	654	896	842	622	416	370	168	168	256
NOT REPORTED	23	-	3	7	5	7	-	-	-	-	1	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	219	26	30	40	26	20	16	18	18	19	6	221
SPECIFIED RENTER OCCUPIED[1]	6 118	323	434	775	1 005	990	776	562	576	438	239	270
UNITS OCCUPIED LAST WINTER	4 034	268	339	532	678	670	484	329	330	222	180	258
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 734	236	292	474	642	638	461	313	313	207	157	261
NO ADDITIONAL HEAT SOURCE USED	3 272	215	248	392	554	574	405	276	285	185	138	264
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	386	21	36	71	73	48	52	33	19	18	15	238
NOT REPORTED	76	-	8	11	14	16	5	3	10	4	5	257
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	300	32	48	57	37	31	23	16	17	16	23	202
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 734	236	292	474	642	638	461	313	313	207	157	261
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 152	186	126	250	324	370	256	182	208	152	99	269
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 494	50	156	210	303	251	199	128	94	48	55	250
1 ROOM	538	24	71	86	117	106	55	28	20	10	20	232
2 ROOMS	570	19	51	76	122	91	93	55	35	12	16	255
3 ROOMS OR MORE	386	7	34	47	64	53	50	45	40	27	19	279
NOT REPORTED	87	-	10	14	14	10	7	3	11	6	4	260
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	300	32	48	57	37	31	23	16	17	16	23	202
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 734	236	292	474	642	638	461	313	313	207	157	261
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	300	32	48	57	37	31	23	16	17	16	23	202
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	234	26	36	47	28	19	17	12	16	14	19	198
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	42	3	9	7	6	11	1	2	1	2	2	213
NOT REPORTED	24	3	3	3	2	1	5	3	-	-	2	...
SPECIFIED RENTER OCCUPIED[1]	6 118	323	434	775	1 005	990	776	562	576	438	239	270
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	362	36	53	71	45	34	29	28	21	20	24	209
WITH SELECTED HEATING EQUIPMENT[3]	5 756	287	381	704	960	956	747	534	554	418	215	272
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 535	283	360	669	915	919	718	517	544	403	206	273
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	202	4	19	29	43	31	27	16	10	15	8	252
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	1	-
STOVE, BURNING WOOD OR COAL	15	-	-	-	3	2	1	2	3	2	1	...
FIREPLACE, BURNING WOOD OR COAL	6	-	-	-	-	-	2	-	2	3	-	...
PORTABLE ELECTRIC HEATER	164	4	17	28	38	27	23	9	3	9	5	240
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	5	-	1	2	-	-	2	-	-	-	1	...
OTHER	12	-	2	-	2	2	-	5	2	-	-	...
NOT REPORTED	19	-	2	5	3	5	2	2	-	-	1	...
AIR CONDITIONING												
WITH AIR CONDITIONING	1 828	58	77	144	231	350	275	229	215	164	87	302
ROOM UNITS	1 014	22	59	104	153	180	155	139	109	49	44	290
1	913	22	59	92	144	159	141	126	101	37	33	288
2	84	-	1	10	6	19	12	10	8	9	9	304
3	12	-	-	-	2	-	2	3	-	3	2	...
4	3	-	-	2	2	-	-	-	-	-	-	...
5 OR MORE	2	-	-	-	-	2	-	-	-	-	-	...
CENTRAL SYSTEM	815	36	17	40	78	170	120	90	106	115	42	318
WITH NO AIR CONDITIONING	4 290	265	358	632	773	640	502	333	360	275	152	253

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE E-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CON.

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	LESS THAN $100	$100 TO $149	$150 TO $199	$200 TO $249	$250 TO $299	$300 TO $349	$350 TO $399	$400 TO $499	$500 OR MORE	NO CASH RENT	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	815	36	17	40	78	170	120	90	106	115	42	318
WITH SUPPLEMENTAL EQUIPMENT USED	152	6	3	4	17	24	16	21	22	28	10	351
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	-	-	1	-	-	-	1	2	2	1	...
AWNINGS	22	3	2	-	2	5	-	-	2	7	1	...
DEHUMIDIFIER	2	-	-	-	-	-	-	2	-	-	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	11	-	1	-	2	2	-	-	2	1	2	...
WINDOW FAN	18	-	-	1	-	-	2	8	2	2	-	...
PORTABLE FAN	114	3	1	2	13	18	14	15	19	21	7	354
WITH NO SUPPLEMENTAL EQUIPMENT USED	641	30	14	34	60	143	99	68	81	82	31	313
NOT REPORTED	21	-	-	2	2	3	5	2	3	4	1	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 304	287	417	736	926	820	656	472	469	323	197	261
SPECIFIED RENTER OCCUPIED[1]	6 118	323	434	775	1 005	990	776	562	576	438	239	270
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 175	79	165	308	276	248	210	192	236	300	162	285
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	227	9	11	32	34	36	12	14	28	21	30	266
SOME WINDOWS COVERED	169	2	21	20	31	21	20	15	10	14	14	257
NO WINDOWS COVERED	1 685	65	129	234	187	177	169	158	191	261	115	297
NOT REPORTED	93	3	4	22	23	14	9	5	7	5	2	235
STORM DOORS												
ALL DOORS COVERED	117	6	7	15	21	20	10	5	10	4	19	248
SOME DOORS COVERED	102	1	3	8	15	13	10	11	22	11	8	336
NO DOORS COVERED	1 861	68	150	261	216	201	162	171	196	281	133	291
NOT REPORTED	95	3	4	24	24	14	8	5	7	5	2	231
ATTIC OR ROOF INSULATION												
YES	855	20	62	97	98	110	76	72	89	138	92	297
NO	650	37	58	114	90	61	56	52	69	74	39	255
DON'T KNOW	570	18	40	75	64	63	69	59	71	82	28	307
NOT REPORTED	100	3	4	22	24	14	8	9	7	6	2	239

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	15 681	10 279	1 739	857	667	1 156	983
HOUSE HEATING FUEL							
OWNER OCCUPIED	9 472	8 178	280	85	46	64	820
UTILITY GAS	6 540	5 821	195	32	14	22	457
BOTTLED, TANK, OR LP GAS	298	173	2	-	-	-	124
FUEL OIL	456	436	5	-	2	-	13
KEROSENE, ETC	1	1	-	-	-	-	-
ELECTRICITY	1 801	1 428	71	52	29	18	204
COAL OR COKE	12	12	-	-	-	-	-
WOOD	203	180	3	-	-	-	20
SOLAR HEAT	7	7	-	-	-	-	-
OTHER FUEL	1	1	-	-	-	-	-
NONE	154	120	5	2	2	23	2
RENTER OCCUPIED	6 208	2 102	1 458	772	621	1 093	163
UTILITY GAS	3 952	1 441	1 057	494	389	511	60
BOTTLED, TANK, OR LP GAS	109	62	5	1	-	3	38
FUEL OIL	215	86	24	19	13	71	2
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 588	337	327	237	200	435	52
COAL OR COKE	6	1	3	-	-	2	-
WOOD	80	72	2	-	-	-	5
SOLAR HEAT	3	1	-	-	2	-	-
OTHER FUEL	35	4	2	2	3	25	-
NONE	221	96	38	20	14	46	6
WATER HEATING FUEL[1]							
OWNER OCCUPIED	9 427	8 144	280	85	46	64	809
UTILITY GAS	6 291	5 595	194	34	19	28	423
BOTTLED, TANK, OR LP GAS	259	148	2	-	-	-	110
FUEL OIL	14	13	-	-	-	-	1
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	2 825	2 356	84	52	25	36	273
COAL OR COKE	1	1	-	-	-	-	-
WOOD	6	6	-	-	-	-	-
SOLAR HEAT	25	25	-	-	-	-	-
OTHER FUEL	3	-	-	-	2	-	2
NONE	3	2	-	-	-	-	1
RENTER OCCUPIED	6 148	2 070	1 457	771	621	1 074	156
UTILITY GAS	4 042	1 399	1 071	519	397	592	64
BOTTLED, TANK, OR LP GAS	90	60	6	1	-	-	23
FUEL OIL	15	-	-	5	6	4	-
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 960	605	372	245	209	463	67
COAL OR COKE	-	-	-	-	-	-	-
WOOD	1	-	-	-	-	-	1
SOLAR HEAT	6	3	-	-	3	-	-
OTHER FUEL	14	-	-	-	3	11	-
NONE	20	3	7	2	3	3	2
COOKING FUEL							
OWNER OCCUPIED	9 472	8 178	280	85	46	64	820
UTILITY GAS	3 403	2 854	105	22	4	10	409
BOTTLED, TANK, OR LP GAS	273	120	4	-	-	-	150
FUEL OIL	6	6	-	-	-	-	-
KEROSENE, ETC	2	-	1	-	-	-	1
ELECTRICITY	5 762	5 180	171	64	40	54	254
COAL OR COKE	-	-	-	-	-	-	-
WOOD	16	16	-	-	-	-	-
OTHER FUEL	5	2	-	-	2	-	2
NONE	4	-	-	-	-	-	4
RENTER OCCUPIED	6 208	2 102	1 458	772	621	1 093	163
UTILITY GAS	2 933	1 082	767	391	295	332	66
BOTTLED, TANK, OR LP GAS	105	55	6	1	-	-	43
FUEL OIL	12	-	4	5	-	3	1
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	3 090	951	679	371	321	717	51
COAL OR COKE	1	1	-	-	-	-	-
WOOD	9	8	-	-	-	-	1
OTHER FUEL	3	3	-	-	-	-	-
NONE	55	2	3	4	5	42	1

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	7 718	7 718	...	...	...	...	...
ELECTRICITY PAID FOR	7 709	7 709	...	...	...	...	...
LESS THAN $10	116	116	...	...	...	...	...
$10 TO $19	1 156	1 156	...	...	...	...	...
$20 TO $29	1 838	1 838	...	...	...	...	...
$30 TO $39	1 589	1 589	...	...	...	...	...
$40 TO $49	986	986	...	...	...	...	...
$50 TO $59	644	644	...	...	...	...	...
$60 TO $79	686	686	...	...	...	...	...
$80 TO $99	262	262	...	...	...	...	...
$100 TO $149	333	333	...	...	...	...	...
$150 OR MORE	100	100	...	...	...	...	...
MEDIAN	34	34	...	...	...	...	...
NO ELECTRICITY USED	9	9	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 118	2 012	1 458	772	621	1 093	163
ELECTRICITY PAID FOR	4 914	1 804	1 267	619	498	606	121
LESS THAN $10	680	106	184	128	105	150	8
$10 TO $19	1 552	433	492	219	180	202	27
$20 TO $29	1 229	509	310	134	111	132	33
$30 TO $39	644	301	151	73	52	46	22
$40 TO $49	308	151	58	32	19	31	18
$50 TO $59	222	135	31	23	14	16	3
$60 TO $79	157	95	18	7	13	18	5
$80 TO $99	37	23	7	-	2	5	-
$100 TO $149	60	38	8	2	2	5	5
$150 OR MORE	24	12	8	2	2	2	-
MEDIAN	22	26	18	17	17	17	27
INCLUDED IN RENT	1 177	200	191	149	123	472	42
NO ELECTRICITY USED	28	7	-	5	-	16	-
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	7 718	7 718	...	...	...	...	...
GAS PAID FOR	6 175	6 175	...	...	...	...	...
LESS THAN $10	428	428	...	...	...	...	...
$10 TO $14	815	815	...	...	...	...	...
$15 TO $19	949	949	...	...	...	...	...
$20 TO $24	929	929	...	...	...	...	...
$25 TO $29	717	717	...	...	...	...	...
$30 TO $39	1 068	1 068	...	...	...	...	...
$40 TO $49	584	584	...	...	...	...	...
$50 TO $69	482	482	...	...	...	...	...
$70 TO $99	151	151	...	...	...	...	...
$100 OR MORE	53	53	...	...	...	...	...
MEDIAN	24	24	...	...	...	...	...
NO GAS USED	1 543	1 543	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 118	2 012	1 458	772	621	1 093	163
GAS PAID FOR	3 285	1 404	932	369	260	238	83
LESS THAN $10	981	199	282	173	159	154	14
$10 TO $14	716	282	259	73	49	41	11
$15 TO $19	516	241	156	59	28	16	17
$20 TO $24	346	200	93	27	8	6	12
$25 TO $29	243	145	61	13	6	8	10
$30 TO $39	244	176	40	11	3	8	6
$40 TO $49	122	89	20	6	2	-	6
$50 TO $69	76	49	15	5	3	2	2
$70 TO $99	22	12	5	2	2	-	2
$100 OR MORE	17	12	2	-	-	2	2
MEDIAN	14	19	13	11	10-	10-	19
INCLUDED IN RENT	1 427	257	256	216	186	469	43
NO GAS USED	1 406	350	271	187	175	386	37

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	7 718	7 718	...	...	...	...	...
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 232	1 232	...	...	...	...	...
LESS THAN $100	379	379	...	...	...	...	...
$100 TO $199	313	313	...	...	...	...	...
$200 TO $299	131	131	...	...	...	...	...
$300 TO $399	79	79	...	...	...	...	...
$400 TO $499	68	68	...	...	...	...	...
$500 TO $599	67	67	...	...	...	...	...
$600 TO $699	58	58	...	...	...	...	...
$700 TO $799	44	44	...	...	...	...	...
$800 OR MORE	94	94	...	...	...	...	...
MEDIAN	175	175	...	...	...	...	...
FUELS NOT USED OR FREE	6 486	6 486	...	...	...	...	...
SPECIFIED RENTER OCCUPIED[2]	6 118	2 012	1 458	772	621	1 093	163
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	287	211	46	12	2	13	4
LESS THAN $100	132	79	29	11	2	11	-
$100 TO $199	56	42	10	2	-	2	-
$200 TO $299	20	17	2	-	-	-	1
$300 TO $399	16	15	1	-	-	-	-
$400 TO $499	18	15	2	-	-	-	1
$500 TO $599	12	9	2	-	-	-	-
$600 TO $699	5	5	-	-	-	-	-
$700 TO $799	5	5	-	-	-	-	1
$800 OR MORE	23	23	-	-	-	-	-
MEDIAN	121	162	100-	...	...	...	...
INCLUDED IN RENT	547	147	152	68	53	102	25
FUELS NOT USED OR FREE	5 284	1 654	1 260	691	567	978	134
ALL OCCUPIED HOUSING UNITS	15 681	10 279	1 739	857	667	1 156	983
HEATING EQUIPMENT							
OWNER OCCUPIED	9 472	8 178	280	85	46	64	820
WARM-AIR FURNACE	6 038	5 133	163	36	17	18	672
HEAT PUMP	254	227	11	12	2	-	3
STEAM OR HOT WATER	221	192	10	3	7	8	-
BUILT-IN ELECTRIC UNITS	715	578	39	26	19	12	41
FLOOR, WALL, OR PIPELESS FURNACE	1 394	1 327	40	3	-	2	22
ROOM HEATERS WITH FLUE	262	223	8	3	-	-	27
ROOM HEATERS WITHOUT FLUE	36	31	-	-	-	-	5
FIREPLACES, STOVES, OR PORTABLE HEATERS	399	346	5	-	-	-	49
NONE	154	120	5	2	2	23	2
RENTER OCCUPIED	6 208	2 102	1 458	772	621	1 093	163
WARM-AIR FURNACE	1 818	677	446	192	135	256	113
HEAT PUMP	54	19	9	5	9	12	-
STEAM OR HOT WATER	395	20	45	47	61	223	-
BUILT-IN ELECTRIC UNITS	1 108	215	232	172	146	333	11
FLOOR, WALL, OR PIPELESS FURNACE	1 977	688	582	281	218	199	9
ROOM HEATERS WITH FLUE	413	204	89	47	35	22	15
ROOM HEATERS WITHOUT FLUE	51	37	6	5	2	-	1
FIREPLACES, STOVES, OR PORTABLE HEATERS	172	145	12	5	-	2	8
NONE	221	96	38	20	14	46	6
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	9 472	8 178	280	85	46	64	820
HOUSING UNITS WITH HEATING EQUIPMENT	9 319	8 057	275	84	44	40	818
WITH FIREPLACE OR HEATING STOVE	5 859	5 573	117	31	22	21	95
IN WORKING ORDER	5 702	5 427	109	31	22	20	94
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	4 558	4 371	66	17	20	5	78
ALL PURCHASED	1 439	1 367	37	11	11	3	9
SOME OR NONE PURCHASED	3 056	2 941	29	7	9	2	68
NOT REPORTED	63	62	-	-	-	-	1
COAL	10	10	-	-	-	-	-
OTHER FUEL	501	443	25	7	2	15	10
NONE	623	595	16	6	-	-	5
NOT REPORTED	10	9	2	-	-	-	-
NOT IN WORKING ORDER	150	140	8	-	-	2	-
NOT REPORTED	7	6	-	-	-	-	2
WITHOUT FIREPLACE OR HEATING STOVE	3 435	2 466	156	53	20	19	722
NOT REPORTED	24	18	3	-	2	-	1
HOUSING UNITS WITH NO HEATING EQUIPMENT	154	120	5	2	2	23	2

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES--CONTINUED							
RENTER OCCUPIED	6 208	2 102	1 458	772	621	1 093	163
HOUSING UNITS WITH HEATING EQUIPMENT	5 987	2 005	1 420	752	606	1 047	157
WITH FIREPLACE OR HEATING STOVE	1 147	759	225	64	24	63	11
IN WORKING ORDER	1 068	711	202	60	20	63	11
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	745	545	122	32	11	28	7
ALL PURCHASED	245	157	58	5	5	19	2
SOME OR NONE PURCHASED	475	372	60	24	5	9	5
NOT REPORTED	24	16	3	3	2	-	-
COAL	3	1	2	-	-	-	-
OTHER FUEL	167	79	36	19	5	27	2
NONE	144	77	43	9	5	8	2
NOT REPORTED	9	9	-	-	-	1	-
NOT IN WORKING ORDER	75	46	22	3	3	-	-
NOT REPORTED	4	2	2	1	-	-	-
WITHOUT FIREPLACE OR HEATING STOVE	4 818	1 243	1 184	685	583	979	144
NOT REPORTED	23	3	10	3	-	5	1
HOUSING UNITS WITH NO HEATING EQUIPMENT	221	96	38	20	14	46	6
ALL OCCUPIED HOUSING UNITS	15 681	10 279	1 739	857	667	1 156	983
UNITS OCCUPIED LAST WINTER	12 870	9 055	1 197	579	467	774	798
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	8 765	7 636	249	77	37	54	713
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	7 161	239	75	37	30	663
NO ADDITIONAL HEAT SOURCE USED	7 623	6 643	221	74	36	29	621
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	491	442	15	2	-	2	31
NOT REPORTED	91	76	3	-	1	-	11
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	475	10	2	-	23	50
RENTER OCCUPIED	4 105	1 419	948	502	430	720	85
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	1 208	907	481	417	690	75
NO ADDITIONAL HEAT SOURCE USED	3 311	1 033	786	429	380	620	62
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	392	152	102	41	34	52	10
NOT REPORTED	76	23	19	11	3	17	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	211	41	21	13	30	11
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	8 765	7 636	249	77	37	54	713
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	7 161	239	75	37	30	663
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 227	5 293	183	70	34	30	616
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 850	1 763	52	5	2	-	28
1 ROOM	458	413	20	2	2	-	22
2 ROOMS	512	479	27	-	-	-	6
3 ROOMS OR MORE	880	870	6	3	-	-	-
NOT REPORTED	128	105	3	-	1	-	19
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	475	10	2	-	23	50
RENTER OCCUPIED	4 105	1 419	948	502	430	720	85
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	1 208	907	481	417	690	75
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 170	556	455	281	261	553	63
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 522	623	431	188	152	119	9
1 ROOM	543	136	150	95	84	71	7
2 ROOMS	582	228	193	76	49	35	1
3 ROOMS OR MORE	397	259	88	17	18	13	1
NOT REPORTED	87	30	21	13	5	17	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	211	41	21	13	30	11
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	8 765	7 636	249	77	37	54	713
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	7 161	239	75	37	30	663
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	475	10	2	-	23	50
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	478	402	10	2	-	23	41
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	51	44	-	-	-	-	7
NOT REPORTED	30	28	-	-	-	-	2

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED							
RENTER OCCUPIED	4 105	1 419	948	502	430	720	85
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	1 208	907	481	417	690	75
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	211	41	21	13	30	11
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	252	151	34	17	11	30	9
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	40	3	1	2	-	-
NOT REPORTED	28	21	3	3	-	-	1
ALL OCCUPIED HOUSING UNITS	15 681	10 279	1 739	857	667	1 156	983
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	9 472	8 178	280	85	46	64	820
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	553	466	10	2	2	23	50
WITH SELECTED HEATING EQUIPMENT[2]	8 919	7 712	270	84	44	40	769
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 264	7 138	254	77	44	39	713
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	629	552	14	7	-	2	56
SOLAR HEATING EQUIPMENT	20	20	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	177	161	-	-	-	-	16
FIREPLACE, BURNING WOOD OR COAL	112	107	2	2	-	-	1
PORTABLE ELECTRIC HEATER	236	183	12	3	-	2	35
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	28	27	-	-	-	-	1
OTHER	78	72	-	2	-	-	4
NOT REPORTED	26	22	3	-	-	-	1
RENTER OCCUPIED	6 208	2 102	1 458	772	621	1 093	163
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	393	242	50	25	14	47	14
WITH SELECTED HEATING EQUIPMENT[2]	5 815	1 860	1 408	747	606	1 046	148
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 588	1 756	1 346	721	595	1 027	143
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	102	55	21	11	14	4
SOLAR HEATING EQUIPMENT	2	2	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	15	15	-	-	-	-	-
FIREPLACE, BURNING WOOD OR COAL	6	6	-	-	-	-	-
PORTABLE ELECTRIC HEATER	168	70	53	18	10	14	3
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	6	4	-	2	-	-	1
OTHER	12	7	2	2	2	-	-
NOT REPORTED	19	2	7	5	-	5	1
AIR CONDITIONING							
OWNER OCCUPIED	9 472	8 178	280	85	46	64	820
WITH AIR CONDITIONING	3 505	2 896	109	51	20	36	393
ROOM UNITS	1 182	1 002	28	11	7	13	121
1	963	809	23	11	7	7	107
2	169	154	3	-	-	2	10
3	35	27	2	-	-	5	2
4	9	7	-	-	-	-	2
5 OR MORE	7	6	-	-	-	-	1
CENTRAL SYSTEM	2 322	1 894	81	40	13	23	271
WITH NO AIR CONDITIONING	5 968	5 282	172	34	26	27	427
RENTER OCCUPIED	6 208	2 102	1 458	772	621	1 093	163
WITH AIR CONDITIONING	1 844	466	382	244	237	463	53
ROOM UNITS	1 025	261	208	147	132	250	26
1	923	226	182	141	130	221	22
2	85	30	21	5	2	24	5
3	12	6	-	2	-	5	-
4	3	-	3	-	-	-	-
5 OR MORE	2	-	2	-	-	-	-
CENTRAL SYSTEM	819	205	174	97	104	214	26
WITH NO AIR CONDITIONING	4 364	1 636	1 076	528	384	630	110

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	HOUSING UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	9 472	8 178	280	85	46	64	820
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	2 322	1 894	81	40	13	23	271
WITH SUPPLEMENTAL EQUIPMENT USED	960	778	30	18	-	3	130
INDIVIDUAL ROOM AIR CONDITIONING UNIT	69	60	2	-	-	-	7
AWNINGS	202	128	4	3	-	-	66
DEHUMIDIFIER	37	28	5	-	-	-	4
CEILING FAN	73	62	3	-	-	-	9
ATTIC FAN	215	206	3	-	-	-	5
WINDOW FAN	32	20	-	3	-	-	8
PORTABLE FAN	548	430	21	13	-	3	81
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 312	1 075	49	22	13	20	134
NOT REPORTED	50	41	2	-	-	-	7
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 150	6 284	199	45	33	41	549
RENTER OCCUPIED	6 208	2 102	1 458	772	621	1 093	163
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	819	205	174	97	104	214	26
WITH SUPPLEMENTAL EQUIPMENT USED	154	60	34	15	18	23	4
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	4	2	-	-	1	-
AWNINGS	22	12	-	3	-	3	3
DEHUMIDIFIER	2	1	-	-	-	2	-
CEILING FAN	-	-	-	-	-	-	-
ATTIC FAN	11	11	-	-	-	-	-
WINDOW FAN	14	5	3	3	2	2	-
PORTABLE FAN	115	38	31	9	16	19	2
WITH NO SUPPLEMENTAL EQUIPMENT USED	644	139	133	81	87	183	22
NOT REPORTED	21	6	6	-	-	8	1
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 389	1 897	1 285	675	516	879	136

TABLE E-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS	15 681	440	647	1 789	3 351	3 518	2 862	3 073	4.9
HOUSE HEATING FUEL									
OWNER OCCUPIED	9 472	37	94	294	1 336	2 527	2 386	2 799	5.7
UTILITY GAS	6 540	10	43	148	850	1 782	1 736	1 971	5.8
BOTTLED, TANK, OR LP GAS	298	9	15	35	65	76	51	47	4.8
FUEL OIL	456	1	6	8	47	93	109	192	6.2
KEROSENE, ETC	1	-	-	-	1	-	-	-	...
ELECTRICITY	1 801	12	18	75	309	472	409	507	5.5
COAL OR COKE	12	-	-	1	1	2	3	6	...
WOOD	203	2	8	13	36	54	53	36	5.3
SOLAR HEAT	7	-	-	-	-	3	4	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	...
NONE	154	3	4	14	27	45	22	39	5.1
RENTER OCCUPIED	6 208	404	554	1 495	2 015	991	475	274	3.8
UTILITY GAS	3 952	169	340	988	1 293	656	324	181	3.9
BOTTLED, TANK, OR LP GAS	109	7	10	10	30	32	14	7	4.4
FUEL OIL	215	34	19	28	49	47	16	22	4.0
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 588	151	131	400	561	193	98	54	3.7
COAL OR COKE	6	-	-	3	2	1	-	-	...
WOOD	80	1	8	14	25	20	8	3	4.1
SOLAR HEAT	3	-	-	-	3	-	-	-	...
OTHER FUEL	35	15	7	7	1	3	-	2	1.9
NONE	221	27	39	46	51	40	15	4	3.5
WATER HEATING FUEL[1]									
OWNER OCCUPIED	9 427	30	88	286	1 326	2 521	2 383	2 794	5.7
UTILITY GAS	6 291	8	32	133	821	1 727	1 701	1 869	5.7
BOTTLED, TANK, OR LP GAS	259	3	17	31	60	62	45	42	4.8
FUEL OIL	14	-	-	1	2	4	4	3	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 825	18	39	119	440	716	627	867	5.6
COAL OR COKE	1	-	-	-	-	-	1	-	...
WOOD	6	-	-	-	1	1	2	2	...
SOLAR HEAT	25	-	-	1	2	9	3	11	...
OTHER FUEL	3	-	-	2	-	2	-	-	...
NONE	3	1	-	-	-	2	-	-	...
RENTER OCCUPIED	6 148	384	540	1 486	2 006	987	475	271	3.8
UTILITY GAS	4 042	202	353	1 001	1 335	663	325	164	3.8
BOTTLED, TANK, OR LP GAS	90	2	3	8	30	34	9	3	4.5
FUEL OIL	15	2	2	3	7	2	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 960	161	179	466	623	288	139	104	3.8
COAL OR COKE	-	-	-	-	-	-	-	-	-
WOOD	1	-	1	-	-	-	-	-	...
SOLAR HEAT	6	-	-	-	4	-	2	-	...
OTHER FUEL	14	8	-	2	5	-	-	-	...
NONE	20	9	2	6	2	-	1	-	...
COOKING FUEL									
OWNER OCCUPIED	9 472	37	94	294	1 336	2 527	2 386	2 799	5.7
UTILITY GAS	3 403	4	26	117	622	1 106	849	679	5.3
BOTTLED, TANK, OR LP GAS	273	10	27	45	81	59	33	19	4.2
FUEL OIL	6	-	-	-	4	-	2	-	...
KEROSENE, ETC	2	-	-	-	1	1	-	-	...
ELECTRICITY	5 762	17	40	129	626	1 356	1 497	2 098	6.0
COAL OR COKE	-	-	-	-	-	-	-	-	-
WOOD	16	1	2	2	3	2	5	2	...
OTHER FUEL	5	-	-	2	-	3	-	-	...
NONE	4	4	-	-	-	-	-	-	...
RENTER OCCUPIED	6 208	404	554	1 495	2 015	991	475	274	3.8
UTILITY GAS	2 933	96	312	810	947	490	208	70	3.8
BOTTLED, TANK, OR LP GAS	105	5	10	16	40	25	8	2	4.0
FUEL OIL	12	-	5	1	3	2	2	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	3 090	252	222	666	1 021	470	258	202	3.9
COAL OR COKE	1	-	-	-	1	-	-	-	...
WOOD	9	2	3	1	2	2	-	-	...
OTHER FUEL	3	-	-	-	-	3	-	-	...
NONE	55	49	2	2	2	-	-	-	1.5-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE E-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
MONTHLY COST PAID FOR ELECTRICITY									
SPECIFIED OWNER OCCUPIED[1]	7 718	13	41	109	710	2 087	2 164	2 595	5.9
ELECTRICITY PAID FOR	7 709	12	40	109	708	2 085	2 162	2 595	5.9
LESS THAN $10	116	1	2	14	32	32	18	17	4.8
$10 TO $19	1 156	3	8	26	207	407	274	230	5.3
$20 TO $29	1 838	-	11	43	191	555	529	509	5.7
$30 TO $39	1 589	3	6	11	122	432	463	553	6.0
$40 TO $49	986	-	4	7	51	222	301	401	6.2
$50 TO $59	644	-	4	6	45	157	176	256	6.1
$60 TO $79	686	4	3	1	30	146	217	285	6.2
$80 TO $99	262	1	-	1	13	58	81	109	6.2
$100 TO $149	333	1	-	-	16	59	79	179	6.5+
$150 OR MORE	100	-	2	-	1	15	25	57	6.5+
MEDIAN	34	...	28	23	25	31	35	39	...
NO ELECTRICITY USED	9	2	1	-	2	2	2	-	...
SPECIFIED RENTER OCCUPIED[2]	6 118	402	549	1 490	1 994	966	461	256	3.8
ELECTRICITY PAID FOR	4 914	95	323	1 224	1 773	845	417	236	3.9
LESS THAN $10	680	42	109	275	202	40	9	4	3.2
$10 TO $19	1 552	25	107	520	582	214	73	31	3.7
$20 TO $29	1 229	19	67	238	478	253	112	62	4.1
$30 TO $39	644	4	18	90	248	150	86	48	4.3
$40 TO $49	308	2	12	53	95	69	53	23	4.4
$50 TO $59	222	1	6	15	92	56	32	20	4.5
$60 TO $79	157	3	3	22	43	35	24	27	4.7
$80 TO $99	37	-	-	2	9	10	8	9	5.3
$100 TO $149	60	-	2	4	14	15	15	10	5.2
$150 OR MORE	24	-	-	5	11	2	5	1	...
MEDIAN	22	12	14	16	22	26	32	34	...
INCLUDED IN RENT	1 177	293	226	258	217	119	44	20	2.8
NO ELECTRICITY USED	28	14	-	8	4	2	-	-	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	7 718	13	41	109	710	2 087	2 164	2 595	5.9
GAS PAID FOR	6 175	9	23	77	554	1 705	1 760	2 046	5.9
LESS THAN $10	428	1	2	11	64	158	130	62	5.4
$10 TO $14	815	4	6	15	123	287	236	143	5.4
$15 TO $19	949	1	4	19	102	310	310	203	5.6
$20 TO $24	929	-	2	3	72	261	284	308	5.9
$25 TO $29	717	1	5	11	57	188	219	237	5.9
$30 TO $39	1 068	2	-	6	81	260	277	441	6.2
$40 TO $49	584	-	2	7	25	125	143	283	6.4
$50 TO $69	482	1	3	3	24	91	113	247	6.5+
$70 TO $99	151	-	-	2	2	16	42	89	6.5+
$100 OR MORE	53	-	-	-	3	10	7	32	6.5+
MEDIAN	24	...	...	18	19	22	23	31	...
NO GAS USED	1 543	4	17	32	156	382	404	549	5.9
SPECIFIED RENTER OCCUPIED[2]	6 118	402	549	1 490	1 994	966	461	256	3.8
GAS PAID FOR	3 285	46	190	762	1 187	629	315	155	4.0
LESS THAN $10	981	32	112	354	366	88	21	8	3.5
$10 TO $14	716	9	30	167	295	150	49	16	4.0
$15 TO $19	516	-	16	121	201	111	48	21	4.1
$20 TO $24	346	2	9	45	125	90	63	12	4.4
$25 TO $29	243	2	19	35	82	60	36	11	4.3
$30 TO $39	244	-	1	19	63	67	48	46	5.1
$40 TO $49	122	-	2	8	32	42	24	13	4.9
$50 TO $69	76	-	1	9	10	14	20	21	5.7
$70 TO $99	22	-	-	2	9	7	-	4	...
$100 OR MORE	17	2	-	2	5	1	5	2	...
MEDIAN	14	10-	10-	11	13	18	23	32	...
INCLUDED IN RENT	1 427	204	234	395	352	154	47	42	3.2
NO GAS USED	1 406	153	125	333	455	183	100	58	3.7

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	7 718	13	41	109	710	2 087	2 164	2 595	5.9
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 232	7	12	15	81	250	332	534	6.3
LESS THAN $100	379	4	-	3	16	83	103	169	6.3
$100 TO $199	313	-	2	5	12	64	84	146	6.4
$200 TO $299	131	2	3	2	8	31	34	52	6.1
$300 TO $399	79	1	2	2	13	17	23	20	5.7
$400 TO $499	68	-	2	2	8	18	21	18	5.7
$500 TO $599	67	-	2	1	7	20	18	19	5.7
$600 TO $699	58	-	1	-	9	2	13	33	6.5+
$700 TO $799	44	-	-	-	6	3	14	21	6.5
$800 OR MORE	94	-	-	1	3	13	22	55	6.5+
MEDIAN	175	...	...	...	333	165	174	167	...
FUELS NOT USED OR FREE	6 486	6	29	94	628	1 837	1 831	2 060	5.8
SPECIFIED RENTER OCCUPIED[2]	6 118	402	549	1 490	1 994	966	461	256	3.8
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	287	7	8	20	64	84	47	57	5.0
LESS THAN $100	132	7	2	10	28	50	15	20	4.9
$100 TO $199	56	-	3	5	13	13	14	7	5.0
$200 TO $299	20	-	1	2	6	2	2	6	...
$300 TO $399	16	-	1	2	6	2	4	2	...
$400 TO $499	18	-	1	-	3	6	5	3	...
$500 TO $599	12	-	-	1	2	2	4	4	...
$600 TO $699	5	-	-	-	1	1	2	2	...
$700 TO $799	5	-	-	1	2	2	1	-	...
$800 OR MORE	23	-	-	-	3	6	2	12	...
MEDIAN	121	...	...	...	126	100-	164	217	...
INCLUDED IN RENT	547	33	66	164	164	83	29	9	3.6
FUELS NOT USED OR FREE	5 284	362	475	1 306	1 766	799	386	189	3.8
ALL OCCUPIED HOUSING UNITS	15 681	440	647	1 789	3 351	3 518	2 862	3 073	4.9
HEATING EQUIPMENT									
OWNER OCCUPIED	9 472	37	94	294	1 336	2 527	2 386	2 799	5.7
WARM-AIR FURNACE	6 038	8	45	113	705	1 457	1 620	2 092	5.9
HEAT PUMP	254	-	-	1	30	55	68	99	6.1
STEAM OR HOT WATER	221	-	-	9	24	37	42	110	6.5
BUILT-IN ELECTRIC UNITS	715	8	9	49	135	178	153	182	5.4
FLOOR, WALL, OR PIPELESS FURNACE	1 394	5	10	32	270	573	336	168	5.2
ROOM HEATERS WITH FLUE	262	3	11	38	66	61	44	38	4.7
ROOM HEATERS WITHOUT FLUE	36	2	2	5	10	9	7	2	4.4
FIREPLACES, STOVES, OR PORTABLE HEATERS	399	8	12	34	68	112	95	70	5.2
NONE	154	3	4	14	27	45	22	39	5.1
RENTER OCCUPIED	6 208	404	554	1 495	2 015	991	475	274	3.8
WARM-AIR FURNACE	1 818	42	75	301	609	376	246	168	4.3
HEAT PUMP	54	3	3	17	15	6	3	6	3.7
STEAM OR HOT WATER	395	105	58	84	82	42	6	19	2.9
BUILT-IN ELECTRIC UNITS	1 108	132	108	291	372	115	58	33	3.6
FLOOR, WALL, OR PIPELESS FURNACE	1 977	51	184	581	735	298	108	20	3.7
ROOM HEATERS WITH FLUE	413	35	62	132	92	57	21	14	3.3
ROOM HEATERS WITHOUT FLUE	51	1	7	14	12	11	4	1	3.7
FIREPLACES, STOVES, OR PORTABLE HEATERS	172	8	18	30	48	45	14	9	4.1
NONE	221	27	39	46	51	40	15	4	3.5
FIREPLACES AND HEATING STOVES									
OWNER OCCUPIED	9 472	37	94	294	1 336	2 527	2 386	2 799	5.7
HOUSING UNITS WITH HEATING EQUIPMENT	9 319	34	89	280	1 309	2 482	2 364	2 760	5.7
WITH FIREPLACE OR HEATING STOVE	5 859	13	30	75	403	1 285	1 718	2 335	6.1
IN WORKING ORDER	5 702	13	28	73	379	1 242	1 676	2 291	6.2
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	4 558	13	26	65	275	950	1 337	1 892	6.2
ALL PURCHASED	1 439	5	10	16	79	291	416	621	6.3
SOME OR NONE PURCHASED	3 056	8	14	47	192	646	904	1 244	6.2
NOT REPORTED	63	-	2	2	3	13	17	27	6.2
COAL	10	-	-	-	1	4	4	1	...
OTHER FUEL	501	-	2	3	54	112	142	187	6.0
NONE	623	-	1	5	48	174	192	203	5.9
NOT REPORTED	10	-	-	-	-	2	1	7	...
NOT IN WORKING ORDER	150	-	2	1	25	43	42	38	5.6
NOT REPORTED	7	-	-	2	-	-	-	6	...
WITHOUT FIREPLACE OR HEATING STOVE	3 435	21	60	205	899	1 186	641	423	4.9
NOT REPORTED	24	-	-	-	7	11	5	2	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	154	3	4	14	27	45	22	39	5.1

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
FIREPLACES AND HEATING STOVES--CONTINUED									
RENTER OCCUPIED	6 208	404	554	1 495	2 015	991	475	274	3.8
HOUSING UNITS WITH HEATING EQUIPMENT	5 987	377	515	1 450	1 965	951	460	270	3.8
WITH FIREPLACE OR HEATING STOVE	1 147	23	38	118	282	291	225	170	4.9
IN WORKING ORDER	1 068	23	34	111	255	271	211	164	4.9
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:									
WOOD OR WOOD BYPRODUCTS	745	14	21	62	160	209	148	132	5.0
ALL PURCHASED	245	2	5	18	55	59	46	60	5.2
SOME OR NONE PURCHASED	475	12	15	41	98	144	102	63	5.0
NOT REPORTED	24	-	-	3	7	6	-	8	...
COAL	3	-	-	2	1	1	-	-	...
OTHER FUEL	167	6	14	36	45	31	21	14	4.1
NONE	144	3	-	11	49	28	35	17	4.8
NOT REPORTED	9	-	-	-	1	1	6	1	...
NOT IN WORKING ORDER	75	-	2	7	26	21	14	6	4.7
NOT REPORTED	4	-	2	1	2	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	4 818	352	471	1 327	1 677	657	234	100	3.6
NOT REPORTED	23	2	6	4	6	3	2	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	221	27	39	46	51	40	15	4	3.5
ALL OCCUPIED HOUSING UNITS	15 681	440	647	1 789	3 351	3 518	2 862	3 073	4.9
UNITS OCCUPIED LAST WINTER	12 870	279	419	1 244	2 570	3 031	2 557	2 770	5.1
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	8 765	29	80	256	1 194	2 356	2 241	2 609	5.7
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	18	64	208	1 096	2 195	2 123	2 502	5.7
NO ADDITIONAL HEAT SOURCE USED	7 623	15	55	195	1 014	2 040	1 989	2 315	5.7
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	491	3	7	9	68	130	108	165	5.8
NOT REPORTED	91	-	1	4	14	25	25	21	5.5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	11	16	48	98	161	119	107	5.2
RENTER OCCUPIED	4 105	250	339	988	1 376	675	316	162	3.8
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	231	303	925	1 289	594	287	149	3.8
NO ADDITIONAL HEAT SOURCE USED	3 311	209	260	820	1 120	516	251	134	3.8
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	392	22	32	87	134	74	29	14	3.9
NOT REPORTED	76	-	11	19	35	4	6	1	3.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	18	35	63	87	81	29	13	4.0
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	8 765	29	80	256	1 194	2 356	2 241	2 609	5.7
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	18	64	208	1 096	2 195	2 123	2 502	5.7
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 227	15	50	152	763	1 550	1 629	2 067	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 850	3	13	50	313	611	459	402	5.4
1 ROOM	458	3	8	28	60	92	103	165	5.9
2 ROOMS	512	-	4	19	161	170	91	67	4.9
3 ROOMS OR MORE	880	-	-	3	92	350	265	170	5.5
NOT REPORTED	128	-	1	6	20	34	35	33	5.6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	11	16	48	98	161	119	107	5.2
RENTER OCCUPIED	4 105	250	339	988	1 376	675	316	162	3.8
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	231	303	925	1 289	594	287	149	3.8
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 170	228	212	480	652	324	167	106	3.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 522	3	80	427	598	264	108	42	3.9
1 ROOM	543	3	65	309	118	27	16	5	3.1
2 ROOMS	582	-	15	92	364	79	22	10	4.0
3 ROOMS OR MORE	397	-	-	26	116	157	70	28	4.9
NOT REPORTED	87	-	11	19	39	6	12	1	3.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	18	35	63	87	81	29	13	4.0
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	8 765	29	80	256	1 194	2 356	2 241	2 609	5.7
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	18	64	208	1 096	2 195	2 123	2 502	5.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	11	16	48	98	161	119	107	5.2
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	478	7	14	42	85	142	96	92	5.1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	51	2	2	4	9	9	12	13	5.4
NOT REPORTED	30	2	-	2	5	10	11	2	...

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE E-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
UNITS OCCUPIED LAST WINTER--CONTINUED									
INSUFFICIENT HEAT--CONTINUED									
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED									
RENTER OCCUPIED	4 105	250	339	988	1 376	675	316	162	3.8
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	231	303	925	1 289	594	287	149	3.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	18	35	63	87	81	29	13	4.0
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	252	15	29	51	65	60	22	10	4.0
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	2	2	10	15	9	7	1	4.1
NOT REPORTED	28	2	5	2	7	12	-	2	...
ALL OCCUPIED HOUSING UNITS	15 681	440	647	1 789	3 351	3 518	2 862	3 073	4.9
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	9 472	37	94	294	1 336	2 527	2 386	2 799	5.7
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	553	10	16	48	94	158	118	109	5.2
WITH SELECTED HEATING EQUIPMENT[2]	8 919	26	78	246	1 242	2 369	2 269	2 690	5.7
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 264	24	63	229	1 155	2 205	2 109	2 480	5.7
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	629	2	15	17	80	154	152	209	5.8
SOLAR HEATING EQUIPMENT	20	-	-	-	4	5	3	8	...
STOVE, BURNING WOOD OR COAL	177	1	3	3	18	37	50	66	6.0
FIREPLACE, BURNING WOOD OR COAL	112	-	-	-	5	36	25	46	6.1
PORTABLE ELECTRIC HEATER	236	2	9	12	42	61	49	60	5.4
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	28	-	1	-	3	11	3	10	...
OTHER	78	-	2	2	9	12	24	29	6.1
NOT REPORTED	26	-	-	-	6	11	8	1	...
RENTER OCCUPIED	6 208	404	554	1 495	2 015	991	475	274	3.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	393	35	57	75	99	85	29	13	3.8
WITH SELECTED HEATING EQUIPMENT[2]	5 815	369	497	1 420	1 916	906	446	262	3.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 588	363	484	1 364	1 846	869	417	245	3.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	6	9	48	67	34	27	17	4.1
SOLAR HEATING EQUIPMENT	2	-	-	-	1	-	1	-	...
STOVE, BURNING WOOD OR COAL	15	-	-	2	2	3	4	5	...
FIREPLACE, BURNING WOOD OR COAL	6	-	-	-	2	2	2	2	...
PORTABLE ELECTRIC HEATER	168	6	9	45	54	30	18	7	3.9
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	6	-	-	-	4	-	1	1	...
OTHER	12	-	-	2	6	-	2	4	...
NOT REPORTED	19	-	5	8	3	2	2	-	...
AIR CONDITIONING									
OWNER OCCUPIED	9 472	37	94	294	1 336	2 527	2 386	2 799	5.7
WITH AIR CONDITIONING	3 505	18	38	88	488	984	895	994	5.6
ROOM UNITS	1 182	11	19	40	192	383	257	281	5.4
1	963	11	14	34	156	320	205	223	5.3
2	169	-	3	5	24	47	40	50	5.6
3	35	-	2	2	9	11	7	5	...
4	9	-	-	-	2	2	3	2	...
5 OR MORE	7	-	-	-	1	2	2	2	...
CENTRAL SYSTEM	2 322	7	19	48	296	601	638	713	5.8
WITH NO AIR CONDITIONING	5 968	19	56	206	848	1 543	1 492	1 805	5.7
RENTER OCCUPIED	6 208	404	554	1 495	2 015	991	475	274	3.8
WITH AIR CONDITIONING	1 844	63	131	463	692	273	151	70	3.9
ROOM UNITS	1 025	41	96	262	386	145	69	26	3.8
1	923	41	89	246	343	127	58	18	3.7
2	85	-	6	15	31	18	9	7	4.2
3	12	-	-	2	8	-	2	1	...
4	3	-	-	-	3	-	-	-	...
5 OR MORE	2	-	-	-	2	-	-	-	...
CENTRAL SYSTEM	819	22	35	201	306	129	83	44	4.0
WITH NO AIR CONDITIONING	4 364	341	423	1 032	1 323	717	324	204	3.8

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE E-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	1 ROOM	2 ROOMS	3 ROOMS	4 ROOMS	5 ROOMS	6 ROOMS	7 ROOMS OR MORE	MEDIAN ROOMS
ALL OCCUPIED HOUSING UNITS--CONTINUED									
SUPPLEMENTAL COOLING EQUIPMENT									
OWNER OCCUPIED	9 472	37	94	294	1 336	2 527	2 386	2 799	5.7
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	2 322	7	19	48	296	601	638	713	5.8
WITH SUPPLEMENTAL EQUIPMENT USED	960	4	10	21	112	256	265	293	5.8
INDIVIDUAL ROOM AIR CONDITIONING UNIT	69	-	2	-	7	15	16	30	6.2
AWNINGS	202	2	5	9	35	73	39	39	5.2
DEHUMIDIFIER	37	-	2	-	4	3	15	13	6.1
CEILING FAN	73	-	1	-	7	14	26	25	6.0
ATTIC FAN	215	-	-	4	13	43	71	84	6.2
WINDOW FAN	32	-	-	1	-	8	13	10	...
PORTABLE FAN	548	2	6	11	78	142	165	144	5.7
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 312	3	6	26	174	334	359	410	5.8
NOT REPORTED	50	-	4	1	10	11	14	10	5.3
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 150	30	74	246	1 040	1 926	1 749	2 086	5.6
RENTER OCCUPIED	6 208	404	554	1 495	2 015	991	475	274	3.8
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	819	22	35	201	306	129	83	44	4.0
WITH SUPPLEMENTAL EQUIPMENT USED	154	2	2	23	59	30	20	18	4.3
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	1	-	-	2	1	3	-	...
AWNINGS	22	-	-	5	5	3	3	6	...
DEHUMIDIFIER	2	-	-	-	-	2	-	1	...
CEILING FAN	-	-	-	-	-	-	-	-	-
ATTIC FAN	11	-	-	2	-	5	1	3	...
WINDOW FAN	14	-	-	-	6	6	2	1	...
PORTABLE FAN	115	2	2	16	49	21	15	10	4.3
WITH NO SUPPLEMENTAL EQUIPMENT USED	644	19	33	171	237	97	63	25	3.9
NOT REPORTED	21	-	-	7	10	2	1	1	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 389	382	518	1 295	1 709	862	392	230	3.8
ALL OCCUPIED HOUSING UNITS	15 681	440	647	1 789	3 351	3 518	2 862	3 073	4.9
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 262	61	199	542	1 756	2 997	2 702	3 004	5.5
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	8 997	32	85	238	1 143	2 397	2 339	2 763	5.8
ALL WINDOWS COVERED	1 918	6	15	51	263	440	426	716	5.9
SOME WINDOWS COVERED	1 108	4	10	31	146	234	263	420	6.0
NO WINDOWS COVERED	5 921	21	60	154	722	1 704	1 637	1 623	5.7
NOT REPORTED	50	1	-	2	11	19	13	3	5.0
RENTER OCCUPIED	2 264	29	114	304	614	599	363	241	4.6
ALL WINDOWS COVERED	253	2	11	22	73	61	32	51	4.8
SOME WINDOWS COVERED	180	1	11	13	48	47	32	30	4.9
NO WINDOWS COVERED	1 738	24	90	230	465	477	295	156	4.6
NOT REPORTED	93	2	2	38	27	15	5	4	3.6
STORM DOORS									
OWNER OCCUPIED	8 997	32	85	238	1 143	2 397	2 339	2 763	5.8
ALL DOORS COVERED	1 167	1	9	23	137	285	263	448	6.0
SOME DOORS COVERED	944	3	4	16	115	249	234	322	5.8
NO DOORS COVERED	6 835	27	72	197	879	1 845	1 827	1 987	5.7
NOT REPORTED	51	1	-	2	10	18	15	5	5.2
RENTER OCCUPIED	2 264	29	114	304	614	599	363	241	4.6
ALL DOORS COVERED	132	1	2	10	42	32	23	22	4.8
SOME DOORS COVERED	109	-	4	4	26	28	9	38	5.2
NO DOORS COVERED	1 928	26	106	250	519	522	327	178	4.6
NOT REPORTED	95	2	2	40	27	17	5	3	3.6
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	8 997	32	85	238	1 143	2 397	2 339	2 763	5.8
YES	7 088	23	61	168	817	1 814	1 836	2 370	5.9
NO	1 494	6	22	49	244	452	398	324	5.4
DON'T KNOW	368	2	2	18	71	116	94	64	5.3
NOT REPORTED	47	1	-	2	10	16	12	6	5.1
RENTER OCCUPIED	2 264	29	114	304	614	599	363	241	4.6
YES	904	13	32	87	223	243	177	129	4.9
NO	672	9	42	102	211	172	90	46	4.4
DON'T KNOW	589	5	38	74	151	169	90	62	4.6
NOT REPORTED	100	2	2	42	28	15	6	4	3.6

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS	15 681	4 390	11 291	3 732	3 010	1 567	2 982
HOUSE HEATING FUEL							
OWNER OCCUPIED	9 472	2 947	6 525	2 188	2 001	907	1 429
UTILITY GAS	6 540	1 700	4 840	1 612	1 505	690	1 034
BOTTLED, TANK, OR LP GAS	298	136	163	76	29	21	36
FUEL OIL	456	32	423	58	153	67	145
KEROSENE, ETC	1	-	1	-	-	-	1
ELECTRICITY	1 801	976	824	365	244	93	122
COAL OR COKE	12	2	10	-	3	-	7
WOOD	203	56	148	31	32	22	63
SOLAR HEAT	7	5	2	-	2	-	-
OTHER FUEL	1	-	1	-	-	-	1
NONE	154	41	113	46	34	13	20
RENTER OCCUPIED	6 208	1 442	4 766	1 544	1 009	660	1 553
UTILITY GAS	3 952	670	3 282	993	784	501	1 003
BOTTLED, TANK, OR LP GAS	109	10	100	25	22	16	36
FUEL OIL	215	13	202	32	43	16	111
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 588	702	886	447	111	88	240
COAL OR COKE	6	-	6	-	3	-	3
WOOD	80	4	76	11	9	11	44
SOLAR HEAT	3	3	-	-	-	-	-
OTHER FUEL	35	7	28	2	2	-	25
NONE	221	34	187	33	36	28	90
WATER HEATING FUEL[1]							
OWNER OCCUPIED	9 427	2 938	6 490	2 179	1 994	898	1 419
UTILITY GAS	6 291	1 695	4 597	1 567	1 454	657	919
BOTTLED, TANK, OR LP GAS	259	122	137	61	33	14	30
FUEL OIL	14	2	12	2	7	2	1
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	2 825	1 100	1 725	543	497	225	460
COAL OR COKE	1	-	1	-	-	-	1
WOOD	6	2	4	2	-	-	2
SOLAR HEAT	25	15	10	3	3	-	5
OTHER FUEL	3	2	2	-	2	-	-
NONE	3	-	3	1	-	-	2
RENTER OCCUPIED	6 148	1 441	4 708	1 534	1 003	656	1 514
UTILITY GAS	4 042	735	3 307	992	788	484	1 043
BOTTLED, TANK, OR LP GAS	90	9	81	22	11	14	34
FUEL OIL	15	1	15	-	2	2	11
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 960	685	1 274	511	199	154	410
COAL OR COKE	-	-	-	-	-	-	-
WOOD	1	-	1	-	1	-	-
SOLAR HEAT	6	4	2	2	-	-	-
OTHER FUEL	14	5	9	3	-	-	6
NONE	20	2	19	4	3	2	10
COOKING FUEL							
OWNER OCCUPIED	9 472	2 947	6 525	2 188	2 001	907	1 429
UTILITY GAS	3 403	705	2 698	695	839	462	702
BOTTLED, TANK, OR LP GAS	273	105	168	79	38	20	31
FUEL OIL	6	5	1	-	-	-	1
KEROSENE, ETC	2	2	-	-	-	-	-
ELECTRICITY	5 762	2 127	3 635	1 411	1 118	422	684
COAL OR COKE	-	-	-	-	-	-	-
WOOD	16	2	15	-	1	2	12
OTHER FUEL	5	2	3	2	2	-	-
NONE	4	-	4	1	4	-	-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
COOKING FUEL--CONTINUED							
RENTER OCCUPIED	6 208	1 442	4 766	1 544	1 009	660	1 553
UTILITY GAS	2 933	367	2 566	625	630	438	873
BOTTLED, TANK, OR LP GAS	105	9	95	29	18	14	35
FUEL OIL	12	3	9	5	2	2	2
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	3 090	1 060	2 030	884	355	203	588
COAL OR COKE	1	-	1	-	-	-	1
WOOD	9	-	9	1	1	1	5
OTHER FUEL	3	3	-	-	-	-	-
NONE	55	-	55	1	3	2	49
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	7 718	2 080	5 638	1 716	1 848	848	1 226
ELECTRICITY PAID FOR	7 709	2 078	5 632	1 714	1 844	848	1 226
LESS THAN $10	116	1	114	8	21	22	63
$10 TO $19	1 156	144	1 012	150	333	201	328
$20 TO $29	1 838	388	1 450	380	495	236	341
$30 TO $39	1 589	434	1 155	377	395	154	229
$40 TO $49	986	286	700	264	218	100	119
$50 TO $59	644	237	407	165	123	66	53
$60 TO $79	686	280	406	188	136	38	44
$80 TO $99	262	118	144	68	47	14	15
$100 TO $149	333	150	184	84	57	16	27
$150 OR MORE	100	40	60	31	20	2	7
MEDIAN	34	42	32	38	32	28	26
NO ELECTRICITY USED	9	2	6	2	4	-	1
SPECIFIED RENTER OCCUPIED[2]	6 118	1 436	4 682	1 534	1 002	648	1 499
ELECTRICITY PAID FOR	4 914	1 196	3 718	1 317	848	521	1 032
LESS THAN $10	680	102	578	189	105	70	214
$10 TO $19	1 552	324	1 228	415	311	185	317
$20 TO $29	1 229	277	952	338	209	132	274
$30 TO $39	644	210	434	148	98	69	119
$40 TO $49	308	105	204	82	50	25	47
$50 TO $59	222	69	153	63	35	24	32
$60 TO $79	157	66	91	45	21	11	14
$80 TO $99	37	13	24	13	6	1	4
$100 TO $149	60	24	36	18	9	3	6
$150 OR MORE	24	6	18	7	5	2	5
MEDIAN	22	26	20	21	20	20	19
INCLUDED IN RENT	1 177	237	940	215	148	122	455
NO ELECTRICITY USED	28	3	24	2	5	5	12
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	7 718	2 080	5 638	1 716	1 848	848	1 226
GAS PAID FOR	6 175	1 445	4 730	1 479	1 532	704	1 015
LESS THAN $10	428	83	345	81	113	53	98
$10 TO $14	815	169	646	152	247	118	128
$15 TO $19	949	176	773	201	279	124	168
$20 TO $24	929	216	713	228	237	136	111
$25 TO $29	717	167	550	178	172	81	118
$30 TO $39	1 068	294	773	285	237	80	172
$40 TO $49	584	166	419	165	115	50	88
$50 TO $69	482	129	353	129	100	33	90
$70 TO $99	151	28	123	46	24	25	28
$100 OR MORE	53	16	37	13	6	2	14
MEDIAN	24	27	23	27	22	22	25
NO GAS USED	1 543	635	908	237	315	144	211

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	6 118	1 436	4 682	1 534	1 002	648	1 499
GAS PAID FOR	3 285	556	2 729	825	689	413	801
LESS THAN $10	981	164	817	286	220	99	212
$10 TO $14	716	111	605	183	162	100	161
$15 TO $19	516	87	430	120	120	65	126
$20 TO $24	346	48	298	74	58	69	97
$25 TO $29	243	40	204	57	36	35	76
$30 TO $39	244	57	187	56	48	26	57
$40 TO $49	122	29	93	25	22	8	38
$50 TO $69	76	13	63	15	15	8	26
$70 TO $99	22	5	17	5	6	2	3
$100 OR MORE	17	3	14	4	3	2	6
MEDIAN	14	15	14	13	13	15	16
INCLUDED IN RENT	1 427	338	1 089	315	187	144	443
NO GAS USED	1 406	542	865	393	126	91	255
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[2]	7 718	2 080	5 638	1 716	1 848	848	1 226
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	1 232	330	901	256	315	99	231
LESS THAN $100	379	109	270	98	92	19	61
$100 TO $199	313	138	175	65	61	15	35
$200 TO $299	131	42	88	35	26	7	20
$300 TO $399	79	15	64	14	25	10	15
$400 TO $499	68	6	62	8	22	11	20
$500 TO $599	67	3	64	8	24	8	24
$600 TO $699	58	10	48	9	13	11	15
$700 TO $799	44	-	44	5	13	10	15
$800 OR MORE	94	7	87	13	40	8	27
MEDIAN	175	140	206	145	217	383	304
FUELS NOT USED OR FREE	6 486	1 749	4 737	1 460	1 533	749	995
SPECIFIED RENTER OCCUPIED[1]	6 118	1 436	4 682	1 534	1 002	648	1 499
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	287	65	222	42	53	31	96
LESS THAN $100	132	46	86	18	21	12	35
$100 TO $199	56	18	38	7	8	4	18
$200 TO $299	20	-	20	4	4	6	7
$300 TO $399	16	2	15	5	-	3	7
$400 TO $499	18	-	18	2	4	3	9
$500 TO $599	12	-	12	3	5	-	4
$600 TO $699	5	-	5	-	4	1	1
$700 TO $799	5	-	5	2	2	1	-
$800 OR MORE	23	-	23	-	5	2	16
MEDIAN	121	100-	165	135	160	...	171
INCLUDED IN RENT	547	121	426	114	110	65	137
FUELS NOT USED OR FREE	5 284	1 250	4 034	1 378	838	552	1 266
ALL OCCUPIED HOUSING UNITS	15 681	4 390	11 291	3 732	3 010	1 567	2 982
HEATING EQUIPMENT							
OWNER OCCUPIED	9 472	2 947	6 525	2 188	2 001	907	1 429
WARM-AIR FURNACE	6 038	2 238	3 801	1 611	1 163	379	648
HEAT PUMP	254	170	84	46	29	3	6
STEAM OR HOT WATER	221	64	157	62	43	6	46
BUILT-IN ELECTRIC UNITS	715	288	426	177	120	53	76
FLOOR, WALL, OR PIPELESS FURNACE	1 394	37	1 357	139	458	365	395
ROOM HEATERS WITH FLUE	262	8	253	33	65	33	122
ROOM HEATERS WITHOUT FLUE	36	-	36	7	12	6	12
FIREPLACES, STOVES, OR PORTABLE HEATERS	399	102	297	66	77	48	105
NONE	154	41	113	46	34	13	20
RENTER OCCUPIED	6 208	1 442	4 766	1 544	1 009	660	1 553
WARM-AIR FURNACE	1 818	747	1 070	501	239	99	231
HEAT PUMP	54	39	15	7	2	2	4
STEAM OR HOT WATER	395	62	333	74	31	14	214
BUILT-IN ELECTRIC UNITS	1 108	418	690	333	78	72	206
FLOOR, WALL, OR PIPELESS FURNACE	1 977	126	1 851	521	528	345	456
ROOM HEATERS WITH FLUE	413	11	402	52	60	64	226
ROOM HEATERS WITHOUT FLUE	51	2	49	2	11	5	31
FIREPLACES, STOVES, OR PORTABLE HEATERS	172	4	168	19	24	31	94
NONE	221	34	187	33	36	28	90

[1]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
FIREPLACES AND HEATING STOVES							
OWNER OCCUPIED	9 472	2 947	6 525	2 188	2 001	907	1 429
HOUSING UNITS WITH HEATING EQUIPMENT	9 319	2 907	6 412	2 142	1 967	894	1 409
WITH FIREPLACE OR HEATING STOVE	5 859	1 882	3 977	1 396	1 264	474	843
IN WORKING ORDER	5 702	1 863	3 839	1 383	1 233	452	772
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	4 558	1 487	3 070	1 134	1 012	350	574
ALL PURCHASED	1 439	537	902	363	294	78	168
SOME OR NONE PURCHASED	3 056	922	2 134	757	713	264	400
NOT REPORTED	63	28	34	14	6	8	6
COAL	10	2	7	3	3	-	2
OTHER FUEL	501	165	336	130	88	52	66
NONE	623	200	423	114	130	50	129
NOT REPORTED	10	8	3	1	-	-	2
NOT IN WORKING ORDER	150	18	132	10	31	22	69
NOT REPORTED	7	2	6	3	-	1	2
WITHOUT FIREPLACE OR HEATING STOVE	3 435	1 010	2 425	744	701	418	561
NOT REPORTED	24	14	10	2	2	2	5
HOUSING UNITS WITH NO HEATING EQUIPMENT	154	41	113	46	34	13	20
RENTER OCCUPIED	6 208	1 442	4 766	1 544	1 009	660	1 553
HOUSING UNITS WITH HEATING EQUIPMENT	5 987	1 409	4 579	1 510	973	632	1 463
WITH FIREPLACE OR HEATING STOVE	1 147	322	825	206	153	112	354
IN WORKING ORDER	1 068	317	750	197	148	102	303
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:							
WOOD OR WOOD BYPRODUCTS	745	187	557	141	112	78	226
ALL PURCHASED	245	84	161	57	29	22	53
SOME OR NONE PURCHASED	475	91	385	81	81	55	168
NOT REPORTED	24	12	12	3	2	2	5
COAL	3	2	1	-	-	-	1
OTHER FUEL	167	64	102	18	23	18	43
NONE	144	60	84	38	11	6	30
NOT REPORTED	9	4	5	-	2	-	3
NOT IN WORKING ORDER	75	5	70	9	4	6	51
NOT REPORTED	4	-	4	-	1	3	-
WITHOUT FIREPLACE OR HEATING STOVE	4 818	1 079	3 738	1 299	819	517	1 103
NOT REPORTED	23	7	16	5	2	3	6
HOUSING UNITS WITH NO HEATING EQUIPMENT	221	34	187	33	36	28	90
ALL OCCUPIED HOUSING UNITS	15 681	4 390	11 291	3 732	3 010	1 567	2 982
UNITS OCCUPIED LAST WINTER	12 870	3 360	9 510	3 092	2 629	1 343	2 446
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	8 765	2 559	6 206	2 071	1 908	874	1 353
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	2 427	5 778	1 966	1 784	809	1 218
NO ADDITIONAL HEAT SOURCE USED	7 623	2 299	5 324	1 852	1 652	736	1 085
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	491	95	396	95	109	70	121
NOT REPORTED	91	34	58	19	23	3	12
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	131	428	105	123	65	135
RENTER OCCUPIED	4 105	801	3 304	1 021	722	469	1 093
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	777	3 002	976	672	421	933
NO ADDITIONAL HEAT SOURCE USED	3 311	730	2 582	897	571	354	759
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	392	28	364	63	84	58	159
NOT REPORTED	76	19	56	15	17	9	15
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	24	302	45	50	48	160

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
UNITS OCCUPIED LAST WINTER--CONTINUED							
INSUFFICIENT HEAT--CONTINUED							
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	8 765	2 559	6 206	2 071	1 908	874	1 353
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	2 427	5 778	1 966	1 784	809	1 218
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 227	2 290	3 937	1 683	1 215	393	646
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 850	94	1 756	256	541	408	550
1 ROOM	458	51	407	107	104	56	139
2 ROOMS	512	17	495	52	118	132	193
3 ROOMS OR MORE	880	26	854	97	320	219	218
NOT REPORTED	128	43	85	27	28	8	22
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	131	428	105	123	65	135
RENTER OCCUPIED	4 105	801	3 304	1 021	722	469	1 093
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	777	3 002	976	672	421	933
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 170	661	1 509	598	294	153	463
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 522	94	1 428	359	357	260	451
1 ROOM	543	59	484	130	102	90	162
2 ROOMS	582	28	553	168	134	98	153
3 ROOMS OR MORE	397	7	390	61	120	73	136
NOT REPORTED	87	21	66	18	21	8	19
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	24	302	45	50	48	160
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	8 765	2 559	6 206	2 071	1 908	874	1 353
WITH SPECIFIED HEATING EQUIPMENT[1]	8 205	2 427	5 778	1 966	1 784	809	1 218
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	560	131	428	105	123	65	135
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	478	116	362	93	104	59	106
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	51	8	43	8	12	3	19
NOT REPORTED	30	7	23	4	7	3	9
RENTER OCCUPIED	4 105	801	3 304	1 021	722	469	1 093
WITH SPECIFIED HEATING EQUIPMENT[1]	3 779	777	3 002	976	672	421	933
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	326	24	302	45	50	48	160
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	252	22	230	44	37	33	117
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	-	45	2	2	11	31
NOT REPORTED	28	2	27	-	11	4	12
ALL OCCUPIED HOUSING UNITS	15 681	4 390	11 291	3 732	3 010	1 567	2 982
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	9 472	2 947	6 525	2 188	2 001	907	1 429
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	553	143	410	112	111	62	126
WITH SELECTED HEATING EQUIPMENT[2]	8 919	2 804	6 115	2 076	1 890	845	1 304
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 264	2 586	5 678	1 943	1 775	791	1 169
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	629	204	425	128	114	53	130
SOLAR HEATING EQUIPMENT	20	12	8	4	2	1	2
STOVE, BURNING WOOD OR COAL	177	70	107	34	36	7	31
FIREPLACE, BURNING WOOD OR COAL	112	39	73	16	31	9	17
PORTABLE ELECTRIC HEATER	236	57	179	60	32	32	54
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	28	5	23	2	5	3	12
OTHER	78	26	53	19	12	3	18
NOT REPORTED	26	14	11	6	-	1	5

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED	6 208	1 442	4 766	1 544	1 009	660	1 553
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	393	38	355	53	60	59	184
WITH SELECTED HEATING EQUIPMENT[1]	5 815	1 404	4 411	1 491	950	601	1 369
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 588	1 384	4 204	1 454	897	571	1 282
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	14	195	30	51	29	84
SOLAR HEATING EQUIPMENT	2	-	2	-	-	-	2
STOVE, BURNING WOOD OR COAL	15	3	12	2	-	2	9
FIREPLACE, BURNING WOOD OR COAL	6	-	6	2	2	-	3
PORTABLE ELECTRIC HEATER	168	9	159	24	41	25	69
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	6	1	5	-	2	-	2
OTHER	12	1	12	2	7	2	-
NOT REPORTED	19	7	12	6	2	2	3
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[2]							
OWNER OCCUPIED	9 400	2 923	6 477	2 175	1 992	898	1 412
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 214	2 851	6 362	2 136	1 950	876	1 400
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	96	44	53	19	21	8	4
NOT REPORTED	90	28	62	21	20	14	7
RENTER OCCUPIED	6 122	1 435	4 687	1 529	1 000	653	1 505
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 043	1 414	4 628	1 510	979	645	1 495
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	4	15	3	4	4	3
NOT REPORTED	60	17	44	16	17	5	6
AIR CONDITIONING							
OWNER OCCUPIED	9 472	2 947	6 525	2 188	2 001	907	1 429
WITH AIR CONDITIONING	3 505	1 372	2 132	828	728	257	319
ROOM UNITS	1 182	155	1 028	261	370	164	233
1	963	128	836	231	289	120	195
2	169	18	151	25	67	32	27
3	35	8	27	2	9	9	7
4	9	-	9	2	2	2	3
5 OR MORE	7	1	6	2	3	-	1
CENTRAL SYSTEM	2 322	1 218	1 104	567	357	94	86
WITH NO AIR CONDITIONING	5 968	1 575	4 393	1 360	1 273	649	1 110
RENTER OCCUPIED	6 208	1 442	4 766	1 544	1 009	660	1 553
WITH AIR CONDITIONING	1 844	796	1 047	535	225	110	178
ROOM UNITS	1 025	290	735	330	168	91	146
1	923	265	658	291	152	79	136
2	85	19	67	37	13	8	8
3	12	3	9	2	3	2	2
4	3	2	2	-	-	2	-
5 OR MORE	2	2	-	-	-	-	-
CENTRAL SYSTEM	819	506	313	205	57	19	32
WITH NO AIR CONDITIONING	4 364	646	3 718	1 009	784	551	1 375
SUPPLEMENTAL COOLING EQUIPMENT							
OWNER OCCUPIED	9 472	2 947	6 525	2 188	2 001	907	1 429
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	2 322	1 218	1 104	567	357	94	86
WITH SUPPLEMENTAL EQUIPMENT USED	960	484	476	239	156	40	40
INDIVIDUAL ROOM AIR CONDITIONING UNIT	69	19	50	28	9	5	9
AWNINGS	202	97	105	50	38	11	5
DEHUMIDIFIER	37	13	24	16	3	2	4
CEILING FAN	73	39	34	11	13	3	7
ATTIC FAN	215	93	122	53	48	12	8
WINDOW FAN	32	23	9	3	6	-	-
PORTABLE FAN	548	296	252	137	75	21	19
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 312	706	606	319	199	47	42
NOT REPORTED	50	27	23	9	3	7	4
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	7 150	1 729	5 421	1 621	1 643	813	1 343

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
SUPPLEMENTAL COOLING EQUIPMENT--CONTINUED							
RENTER OCCUPIED	6 208	1 442	4 766	1 544	1 009	660	1 553
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	819	506	313	205	57	19	32
WITH SUPPLEMENTAL EQUIPMENT USED	154	75	79	44	22	4	9
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	3	3	2	-	-	2
AWNINGS	22	15	7	4	3	-	-
DEHUMIDIFIER	2	2	1	-	-	-	1
CEILING FAN	-	-	-	-	-	-	-
ATTIC FAN	11	3	8	3	3	1	-
WINDOW FAN	14	8	6	2	3	-	2
PORTABLE FAN	115	52	63	38	15	4	7
WITH NO SUPPLEMENTAL EQUIPMENT USED	644	420	225	154	33	15	23
NOT REPORTED	21	12	9	7	2	-	-
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 389	936	4 453	1 339	952	641	1 521
ALL OCCUPIED HOUSING UNITS	15 681	4 390	11 291	3 732	3 010	1 567	2 982
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 262	3 039	8 222	2 486	2 417	1 265	2 054
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	8 997	2 708	6 289	2 080	1 964	889	1 355
ALL WINDOWS COVERED	1 918	928	990	356	271	118	246
SOME WINDOWS COVERED	1 108	278	831	284	204	123	220
NO WINDOWS COVERED	5 921	1 466	4 456	1 437	1 488	645	885
NOT REPORTED	50	37	13	3	2	3	5
RENTER OCCUPIED	2 264	331	1 933	406	453	376	698
ALL WINDOWS COVERED	253	57	196	51	45	24	77
SOME WINDOWS COVERED	180	29	151	23	31	29	68
NO WINDOWS COVERED	1 738	229	1 509	310	345	311	543
NOT REPORTED	93	16	77	22	32	12	11
STORM DOORS							
OWNER OCCUPIED	8 997	2 708	6 289	2 080	1 964	889	1 355
ALL DOORS COVERED	1 167	293	874	225	282	131	235
SOME DOORS COVERED	944	326	619	205	197	73	144
NO DOORS COVERED	6 835	2 053	4 782	1 645	1 482	683	972
NOT REPORTED	51	36	15	5	3	2	5
RENTER OCCUPIED	2 264	331	1 933	406	453	376	698
ALL DOORS COVERED	132	16	116	15	28	18	55
SOME DOORS COVERED	109	24	86	15	28	9	33
NO DOORS COVERED	1 928	276	1 652	353	364	336	598
NOT REPORTED	95	16	79	22	32	12	13
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	8 997	2 708	6 289	2 080	1 964	889	1 355
YES	7 088	2 441	4 647	1 726	1 494	603	825
NO	1 494	152	1 342	264	376	236	467
DON'T KNOW	368	82	286	87	91	49	57
NOT REPORTED	47	33	14	3	3	2	6
RENTER OCCUPIED	2 264	331	1 933	406	453	376	698
YES	904	199	705	197	163	126	218
NO	672	36	636	81	126	126	303
DON'T KNOW	589	81	507	104	128	111	164
NOT REPORTED	100	16	84	24	36	12	13

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	8 997	2 708	6 289	2 080	1 964	889	1 355
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	5 921	1 466	4 456	1 437	1 488	645	885
SOME OR ALL WINDOWS COVERED	3 027	1 206	1 821	640	474	241	465
NONE INSTALLED	2 414	1 009	1 404	488	383	180	354
SOME OR ALL INSTALLED	568	172	396	147	86	59	104
NOT REPORTED	45	24	20	5	6	2	8
NOT REPORTED	50	37	13	3	2	3	5
STORM DOORS:							
NO DOORS COVERED	6 835	2 053	4 782	1 645	1 482	683	972
SOME OR ALL DOORS COVERED	2 112	619	1 493	431	479	205	379
NONE INSTALLED	1 854	538	1 316	372	429	186	328
SOME OR ALL INSTALLED	214	72	142	51	40	15	36
NOT REPORTED	43	8	35	7	9	3	15
NOT REPORTED	51	36	15	5	3	2	5
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	1 494	152	1 342	264	376	236	467
WITH ATTIC OR ROOF INSULATION	7 088	2 441	4 647	1 726	1 494	603	825
NONE ADDED OR INSTALLED	6 343	2 232	4 111	1 559	1 350	529	673
SOME OR ALL ADDED OR INSTALLED	666	184	482	145	130	64	144
NOT REPORTED	79	25	54	22	14	9	9
DON'T KNOW	368	82	286	87	91	49	57
NOT REPORTED	47	33	14	3	3	2	6
WALL INSULATION:							
NONE ADDED OR INSTALLED	8 511	2 517	5 994	2 021	1 868	855	1 250
SOME OR ALL ADDED OR INSTALLED	425	153	272	57	87	33	95
NOT REPORTED	61	38	23	2	9	2	10
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	7 650	2 233	5 417	1 809	1 696	761	1 150
SOME OR ALL ADDED OR INSTALLED	1 291	438	853	269	259	126	198
NOT REPORTED	57	37	20	2	9	2	7
OTHER INSULATION:							
NONE ADDED OR INSTALLED	8 110	2 376	5 733	1 869	1 821	840	1 203
SOME OR ALL ADDED OR INSTALLED	836	295	541	209	141	47	144
NOT REPORTED	51	37	14	2	2	2	9
RENTER OCCUPIED	2 264	331	1 933	406	453	376	698
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	1 738	229	1 509	310	345	311	543
SOME OR ALL WINDOWS COVERED	433	86	348	74	77	53	145
NONE INSTALLED	337	78	259	64	58	35	101
SOME OR ALL INSTALLED	87	7	80	6	18	17	39
NOT REPORTED	10	1	9	3	2	-	5
NOT REPORTED	93	16	77	22	32	12	11
STORM DOORS:							
NO DOORS COVERED	1 928	276	1 652	353	364	336	598
SOME OR ALL DOORS COVERED	242	40	202	30	57	27	88
NONE INSTALLED	212	38	174	27	50	25	72
SOME OR ALL INSTALLED	19	1	18	2	7	2	8
NOT REPORTED	11	1	10	2	-	-	8
NOT REPORTED	95	16	79	22	32	12	13
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	672	36	636	81	126	126	303
WITH ATTIC OR ROOF INSULATION	904	199	705	197	163	126	218
NONE ADDED OR INSTALLED	822	189	633	182	144	111	197
SOME OR ALL ADDED OR INSTALLED	64	8	55	6	17	14	19
NOT REPORTED	18	1	17	9	3	2	3
DON'T KNOW	589	81	507	104	128	111	164
NOT REPORTED	100	16	84	24	36	12	13
WALL INSULATION:							
NONE ADDED OR INSTALLED	2 074	299	1 775	365	408	351	653
SOME OR ALL ADDED OR INSTALLED	31	7	25	2	5	4	14
NOT REPORTED	159	26	133	40	40	21	32

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEAR STRUCTURE BUILT					
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER				
			TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
RENTER OCCUPIED--CONTINUED							
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	1 966	291	1 675	344	385	330	616
SOME OR ALL ADDED OR INSTALLED	140	14	126	22	28	25	51
NOT REPORTED	158	26	132	40	40	21	32
OTHER INSULATION:							
NONE ADDED OR INSTALLED	2 044	295	1 748	352	401	352	643
SOME OR ALL ADDED OR INSTALLED	68	10	58	17	12	4	26
NOT REPORTED	152	26	126	37	40	20	29
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	8 997	2 708	6 289	2 080	1 964	889	1 355
NO INSULATION ADDED OR INSTALLED	6 394	1 862	4 531	1 472	1 458	658	944
WITH INSULATION ADDED OR INSTALLED	2 446	778	1 668	579	485	218	386
LESS THAN $50	1 068	363	705	258	205	92	150
$50 TO $99	266	92	174	55	60	26	34
$100 TO $249	335	101	234	79	58	30	67
$250 TO $499	239	50	189	51	58	26	54
$500 TO $999	156	33	124	43	51	10	19
$1,000 OR MORE	206	65	140	63	22	17	37
DON'T KNOW	105	53	53	11	18	9	15
NOT REPORTED	69	21	48	19	12	8	9
MEDIAN	62	50-	72	65	68	66	94
NOT REPORTED OR DON'T KNOW	158	68	90	30	21	13	26
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	243	72	172	70	38	27	36
LESS THAN $50	95	16	79	26	19	11	23
$50 TO $99	30	16	14	3	3	5	2
$100 TO $249	32	9	23	10	3	7	4
$250 TO $499	21	9	12	5	4	1	2
$500 TO $999	17	3	14	7	3	2	3
$1,000 OR MORE	25	7	19	10	5	2	2
DON'T KNOW	4	1	3	2	-	1	-
NOT REPORTED	19	11	8	7	1	-	-
MEDIAN	75	92	55	125	50-	...	50-
ONLY INSTALLED STORM DOORS	70	25	45	15	14	3	13
LESS THAN $50	10	3	7	2	-	2	3
$50 TO $99	28	12	17	5	5	-	7
$100 TO $249	19	6	13	3	6	2	2
$250 TO $499	4	2	3	2	1	-	-
$500 TO $999	-	-	-	-	-	-	-
$1,000 OR MORE	-	-	-	-	-	-	-
DON'T KNOW	-	-	-	-	-	-	-
NOT REPORTED	8	2	6	3	2	-	2
MEDIAN	85	...	86	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	280	70	211	64	72	29	46
LESS THAN $50	34	9	25	4	7	5	9
$50 TO $99	34	13	21	6	11	2	2
$100 TO $249	77	24	53	21	11	7	14
$250 TO $499	64	8	55	15	19	10	12
$500 TO $999	26	3	23	9	11	-	3
$1,000 OR MORE	8	-	8	5	2	-	1
DON'T KNOW	20	11	8	-	7	2	-
NOT REPORTED	17	1	16	3	4	4	4
MEDIAN	204	141	232	241	274	...	195

TABLE E-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	7 718	116	1 156	1 838	1 589	986	644	686	262	333	100	9	34
HOUSE HEATING FUEL													
ELECTRICITY	1 276	2	50	164	219	170	177	213	99	146	35	-	52
OTHER THAN ELECTRICITY	6 322	114	1 098	1 669	1 350	801	447	440	150	181	64	9	32
UTILITY GAS	5 660	96	953	1 479	1 219	726	403	410	143	169	58	4	32
BOTTLED, TANK, OR LP GAS	127	1	19	29	21	14	17	11	3	9	1	2	36
FUEL OIL	383	17	90	122	74	42	18	14	2	1	4	-	26
KEROSENE, ETC	1	-	-	1	-	-	-	-	-	-	-	-	...
COAL OR COKE	6	-	3	1	1	-	1	-	-	-	-	-	...
WOOD	138	1	29	37	33	18	9	5	1	2	1	2	30
SOLAR HEAT	7	-	3	-	2	-	-	-	2	-	-	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	-	-	-	-	...
NONE	120	-	8	5	20	15	20	33	12	6	1	-	55
WATER HEATING FUEL[3]													
ELECTRICITY	2 088	22	227	386	394	262	238	265	111	141	42	-	40
OTHER FUEL	5 604	92	921	1 443	1 194	721	405	421	151	193	58	6	33
NONE	2	-	-	-	-	-	2	-	-	-	-	-	...
COOKING FUEL													
ELECTRICITY	4 809	44	563	1 088	1 022	645	447	497	186	252	66	-	36
OTHER FUEL	2 909	72	592	750	568	341	197	188	76	81	34	9	31
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	1 025	1	32	127	181	135	142	187	75	117	28	-	52
ALL OTHER FUEL COMBINATIONS	3 937	44	551	995	863	529	325	322	126	141	41	-	34
NONE	2 756	71	572	716	545	322	177	176	61	75	31	9	30
HEATING EQUIPMENT													
WARM-AIR FURNACE	4 911	58	624	1 160	1 061	668	427	436	173	227	74	2	35
HEAT PUMP	206	-	3	10	9	21	31	46	34	42	10	-	72
STEAM OR HOT WATER	175	3	25	48	53	23	7	8	3	4	-	-	32
BUILT-IN ELECTRIC UNITS	508	2	19	96	111	74	72	80	21	25	9	-	43
FLOOR, WALL, OR PIPELESS FURNACE	1 301	40	346	392	230	130	56	65	13	21	5	2	26
ROOM HEATERS WITH FLUE	198	10	61	56	37	14	10	3	-	3	-	-	25
ROOM HEATERS WITHOUT FLUE	27	2	9	7	4	2	2	-	-	-	-	1	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	273	1	60	65	64	34	19	15	6	4	1	4	31
NONE	120	-	8	5	20	15	20	33	12	6	1	-	55
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	7 598	116	1 148	1 833	1 569	971	624	653	250	327	99	9	34
WITH FIREPLACE OR HEATING STOVE	5 235	56	677	1 225	1 101	721	464	484	177	247	79	4	35
IN WORKING ORDER	5 099	53	657	1 184	1 070	707	455	471	173	247	79	4	35
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	4 088	35	498	980	885	583	359	377	128	188	51	4	35
ALL PURCHASED	1 309	15	154	298	260	194	113	130	41	79	25	-	36
SOME OR NONE PURCHASED	2 720	20	339	672	605	385	239	243	87	101	26	4	35
NOT REPORTED	59	-	5	11	20	4	7	5	-	8	-	-	36
COAL	8	-	3	1	1	-	-	-	2	2	-	-	...
OTHER FUEL	418	8	47	73	58	63	39	59	19	34	18	-	43
NONE	577	10	109	129	126	59	56	32	24	22	10	-	33
NOT REPORTED	9	-	-	2	-	2	-	2	1	2	-	-	...
NOT IN WORKING ORDER	134	3	20	40	29	15	9	13	4	-	-	-	31
NOT REPORTED	3	-	-	1	2	-	-	-	-	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	2 347	60	467	608	463	250	160	168	67	81	20	5	31
NOT REPORTED	15	-	3	-	5	-	-	2	5	-	-	-	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	120	-	8	5	20	15	20	33	12	6	1	-	55
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	393	1	68	70	84	49	39	48	18	10	2	4	36
WITH SELECTED HEATING EQUIPMENT[4]	7 325	115	1 087	1 768	1 505	937	605	638	244	323	98	5	34
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 779	100	1 010	1 666	1 389	860	549	587	224	300	90	5	34
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	525	15	72	102	111	76	54	51	13	23	9	-	36
SOLAR HEATING EQUIPMENT	19	-	3	6	3	2	2	-	-	2	2	-	...
STOVE, BURNING WOOD OR COAL	152	2	18	35	35	24	16	15	3	4	-	-	35
FIREPLACE, BURNING WOOD OR COAL	105	2	11	10	24	24	11	8	6	7	2	-	42
PORTABLE ELECTRIC HEATER	173	10	23	39	37	18	18	16	4	6	3	-	34
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	26	2	3	7	3	2	3	3	-	1	2	-	...
OTHER	69	-	14	12	14	7	6	9	2	3	3	-	36
NOT REPORTED	21	-	5	-	6	2	2	-	7	-	-	-	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 502	114	1 124	1 797	1 552	955	620	669	245	323	96	6	34
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	88	-	10	16	14	16	6	11	9	3	3	-	42
NOT REPORTED	77	-	10	10	18	12	12	4	7	3	-	-	40

[1] RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	2 740	16	240	459	507	355	282	369	179	252	78	2	44
ROOM UNITS	947	11	139	254	210	124	81	83	17	22	4	2	33
1	764	10	125	209	180	97	64	57	5	14	3	-	32
2	145	1	12	38	25	20	11	20	12	4	1	2	38
3	24	-	1	7	3	5	4	3	-	1	-	-	...
4	7	-	-	-	2	-	2	2	-	2	-	-	...
5 OR MORE	6	-	2	-	-	3	-	-	-	2	-	-	...
CENTRAL SYSTEM	1 793	5	100	205	297	230	202	286	163	230	74	1	53
WITH NO AIR CONDITIONING	4 978	100	916	1 379	1 082	631	362	317	83	82	22	6	31
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 793	5	100	205	297	230	202	286	163	230	74	1	53
WITH SUPPLEMENTAL EQUIPMENT USED	738	2	37	69	130	93	87	131	78	89	22	-	54
INDIVIDUAL ROOM AIR CONDITIONING UNIT	57	-	2	2	6	6	8	10	11	10	2	-	68
AWNINGS	115	-	9	21	19	15	10	25	4	9	2	-	45
DEHUMIDIFIER	25	-	2	2	6	10	2	2	2	-	-	-	...
CEILING FAN	61	-	2	3	17	8	7	7	12	6	1	-	53
ATTIC FAN	198	-	15	18	42	23	17	35	22	20	6	-	50
WINDOW FAN	20	-	2	4	3	3	5	1	-	2	-	-	...
PORTABLE FAN	410	2	12	37	65	44	53	80	49	56	13	-	58
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 016	3	62	129	157	137	112	152	77	134	53	1	52
NOT REPORTED	38	-	1	7	10	-	3	3	7	7	-	-	53
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 925	111	1 055	1 633	1 292	756	442	400	99	104	26	8	31
PERSONS													
1 PERSON	959	63	317	248	161	52	52	29	17	7	11	3	24
2 PERSONS	2 540	42	486	709	491	296	170	179	62	80	23	4	31
3 PERSONS	1 471	3	138	375	331	200	116	142	64	77	25	-	36
4 PERSONS	1 548	8	110	318	341	250	177	174	65	84	20	1	39
5 PERSONS	685	1	73	126	141	100	74	81	28	49	10	1	40
6 PERSONS	334	-	18	46	82	56	38	50	14	23	8	-	44
7 PERSONS OR MORE	182	-	13	17	42	33	17	30	13	12	4	-	45
MEDIAN	2.7	1.5-	2.0	2.4	2.9	3.2	3.4	3.4	3.3	3.5	3.2	...	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 480	20	222	357	315	194	137	119	38	57	19	1	34
SOME WINDOWS COVERED	966	19	132	238	215	118	69	85	32	41	16	1	34
NO WINDOWS COVERED	5 250	77	800	1 242	1 054	672	433	481	184	235	65	7	34
NOT REPORTED	22	-	2	2	6	2	5	-	7	-	-	-	...
STORM DOORS													
ALL DOORS COVERED	980	23	195	286	203	136	53	50	9	19	5	-	29
SOME DOORS COVERED	770	10	117	194	194	89	77	57	13	10	8	2	33
NO DOORS COVERED	5 944	82	842	1 356	1 187	758	510	577	233	304	87	7	35
NOT REPORTED	24	-	2	2	6	2	5	2	7	-	-	-	...
ATTIC OR ROOF INSULATION													
YES	6 058	74	794	1 416	1 259	823	540	548	217	294	86	8	35
NO	1 336	36	305	333	270	135	71	111	31	29	14	-	29
DON'T KNOW	301	6	55	87	54	26	28	27	7	10	-	1	30
NOT REPORTED	24	-	2	2	6	2	5	-	7	-	-	-	...
SPECIFIED RENTER OCCUPIED[3]	6 118	680	1 552	1 229	644	308	222	157	37	60	24	1 204	22
HOUSE HEATING FUEL													
ELECTRICITY	1 575	130	295	327	206	129	85	65	16	27	5	290	26
OTHER THAN ELECTRICITY	4 325	532	1 232	874	415	169	126	84	18	30	17	828	19
UTILITY GAS	3 929	473	1 171	815	369	155	113	76	18	24	16	701	19
BOTTLED, TANK, OR LP GAS	90	5	13	14	14	4	4	2	-	2	-	31	27
FUEL OIL	204	47	31	30	14	8	5	2	-	2	2	65	17
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-
COAL OR COKE	6	2	2	2	1	-	-	-	-	-	-	-	...
WOOD	58	3	11	9	16	3	3	4	-	2	-	8	31
SOLAR HEAT	3	-	1	-	-	-	2	-	-	-	-	-	...
OTHER FUEL	35	3	2	4	2	-	-	1	-	-	-	24	...
NONE	219	18	26	28	24	10	11	8	3	2	2	86	27
WATER HEATING FUEL[4]													
ELECTRICITY	1 909	140	356	415	262	148	103	78	18	30	5	352	26
OTHER FUEL	4 141	540	1 185	809	379	158	119	77	18	29	19	807	19
NONE	20	1	6	-	-	1	-	-	-	-	-	12	...
COOKING FUEL													
ELECTRICITY	3 025	296	659	612	370	198	137	108	25	41	13	566	24
OTHER FUEL	3 038	384	893	618	274	109	85	49	11	19	11	584	18
NONE	55	-	1	-	-	1	-	-	-	-	-	54	...

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE E-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	1 288	83	234	282	182	108	74	59	14	23	4	226	27
ALL OTHER FUEL COMBINATIONS	1 963	249	456	378	206	112	77	54	14	19	9	389	22
NONE	2 867	348	862	569	257	89	71	44	9	18	11	588	18
HEATING EQUIPMENT													
WARM-AIR FURNACE	1 799	98	406	366	233	136	97	76	19	36	12	319	26
HEAT PUMP	54	6	5	1	5	4	4	5	3	3	2	16	45
STEAM OR HOT WATER	393	84	57	42	14	5	1	2	-	2	-	188	13
BUILT-IN ELECTRIC UNITS	1 101	105	227	259	141	73	43	34	6	6	1	207	24
FLOOR, WALL, OR PIPELESS FURNACE	1 963	290	702	417	174	53	48	25	5	5	8	238	17
ROOM HEATERS WITH FLUE	398	59	93	81	23	17	12	1	-	2	-	110	18
ROOM HEATERS WITHOUT FLUE	48	7	11	10	7	1	3	-	-	1	-	9	21
FIREPLACES, STOVES, OR PORTABLE HEATERS	144	13	26	26	23	9	4	7	1	3	-	32	26
NONE	219	18	26	28	24	10	11	8	3	2	2	86	27
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	5 900	663	1 526	1 201	620	298	211	149	34	57	23	1 118	22
WITH FIREPLACE OR HEATING STOVE	1 093	69	260	277	155	83	73	57	12	20	5	81	26
IN WORKING ORDER	1 015	64	246	246	144	80	69	57	12	18	5	74	26
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	696	36	172	170	103	59	49	41	9	12	5	39	26
ALL PURCHASED	242	5	58	65	25	23	26	15	2	7	3	12	27
SOME OR NONE PURCHASED	430	31	106	99	71	36	23	24	7	5	2	26	26
NOT REPORTED	24	-	7	6	7	-	-	2	-	-	-	1	...
COAL	2	-	1	2	-	-	-	-	-	-	-	-	...
OTHER FUEL	164	18	39	39	19	10	8	6	3	1	-	20	23
NONE	144	10	33	32	20	10	11	8	-	5	1	12	26
NOT REPORTED	9	-	1	3	2	1	-	1	-	-	-	2	...
NOT IN WORKING ORDER	74	5	14	28	11	3	4	1	-	1	-	6	25
NOT REPORTED	4	-	-	2	-	-	-	-	-	-	-	2	...
WITHOUT FIREPLACE OR HEATING STOVE	4 784	591	1 264	919	459	213	137	91	22	38	17	1 033	20
NOT REPORTED	23	2	2	5	6	2	-	1	-	-	-	4	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	219	18	26	28	24	10	11	8	3	2	2	86	27
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	362	30	53	54	47	20	15	15	4	5	2	118	27
WITH SELECTED HEATING EQUIPMENT[3]	5 756	650	1 500	1 175	597	289	207	142	33	54	23	1 086	21
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 535	620	1 450	1 120	559	280	194	135	33	53	23	1 066	21
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	202	27	48	47	33	7	13	7	-	1	-	19	23
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	1	-
STOVE, BURNING WOOD OR COAL	15	2	-	5	4	2	-	2	-	1	-	-	...
FIREPLACE, BURNING WOOD OR COAL	6	-	-	-	2	-	3	2	-	-	-	-	...
PORTABLE ELECTRIC HEATER	164	23	48	38	23	4	10	3	-	-	-	16	21
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	5	-	-	3	2	-	-	-	-	-	-	-	...
OTHER	12	3	-	2	2	-	1	2	-	-	-	2	...
NOT REPORTED	19	2	2	9	5	2	-	-	-	-	-	1	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 964	674	1 517	1 201	630	303	220	155	37	60	23	1 144	22
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	3	4	4	-	-	1	-	-	-	-	7	...
NOT REPORTED	60	2	17	20	11	3	-	-	-	-	-	7	23
AIR CONDITIONING													
WITH AIR CONDITIONING	1 828	136	420	356	233	130	106	80	23	48	12	284	25
ROOM UNITS	1 014	98	291	226	133	59	48	30	2	11	5	110	22
1	913	92	275	212	116	46	30	27	2	9	1	102	22
2	84	5	16	13	14	12	14	2	-	1	2	7	34
3	12	2	-	-	2	-	3	2	-	2	2	1	...
4	3	-	-	-	2	2	-	-	-	-	-	-	...
5 OR MORE	2	-	-	2	-	-	-	-	-	-	-	-	...
CENTRAL SYSTEM	815	38	129	130	101	70	58	50	21	37	6	174	32
WITH NO AIR CONDITIONING	4 290	544	1 132	873	411	179	116	76	14	12	13	920	20
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	815	38	129	130	101	70	58	50	21	37	6	174	32
WITH SUPPLEMENTAL EQUIPMENT USED	152	2	19	21	21	19	18	12	5	8	2	25	39
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	-	-	-	2	1	-	-	-	-	2	1	...
AWNINGS	22	-	-	5	3	2	3	-	3	1	-	5	...
DEHUMIDIFIER	2	-	-	-	2	-	-	-	-	-	-	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	11	-	-	5	-	-	-	1	1	1	-	2	...
WINDOW FAN	18	2	3	2	2	1	2	2	-	2	-	-	...
PORTABLE FAN	114	1	18	11	15	17	15	12	3	5	-	18	42
WITH NO SUPPLEMENTAL EQUIPMENT USED	641	35	101	107	74	51	41	37	16	29	3	147	30
NOT REPORTED	21	1	9	2	5	-	-	1	-	-	2	2	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 304	642	1 423	1 099	544	238	164	107	16	23	18	1 030	21

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	MONTHLY COST PAID FOR ELECTRICITY											
		LESS THAN $10	$10 TO $19	$20 TO $29	$30 TO $39	$40 TO $49	$50 TO $59	$60 TO $79	$80 TO $99	$100 TO $149	$150 OR MORE	NO ELECTRICITY USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	2 239	423	590	308	113	53	28	25	7	6	2	684	15
2 PERSONS	1 709	166	473	405	205	84	61	39	4	13	11	248	22
3 PERSONS	934	51	258	208	137	71	42	35	9	16	2	106	25
4 PERSONS	662	21	140	150	110	40	52	20	8	15	8	99	27
5 PERSONS	306	15	47	81	51	25	23	20	4	5	-	36	28
6 PERSONS	151	2	27	48	14	19	9	9	2	4	-	16	27
7 PERSONS OR MORE	117	3	17	30	14	17	7	9	2	1	2	15	31
MEDIAN	2.0	1.5-	1.9	2.3	2.5	2.7	3.0	2.9	3.3	3.2	...	1.5-	...
SPECIFIED RENTER OCCUPIED[2]	6 118	680	1 552	1 229	644	308	222	157	37	60	24	1 204	22
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 175	114	460	542	323	169	138	101	23	44	12	249	26
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	227	10	49	56	39	15	15	10	1	5	2	26	27
SOME WINDOWS COVERED	169	7	43	38	31	21	9	7	2	-	-	10	27
NO WINDOWS COVERED	1 685	84	336	437	244	129	110	82	19	36	9	199	27
NOT REPORTED	93	13	32	11	9	3	5	2	1	3	1	15	17
STORM DOORS													
ALL DOORS COVERED	117	9	36	24	13	14	6	1	-	-	-	13	23
SOME DOORS COVERED	102	1	21	28	23	8	7	7	-	1	1	5	29
NO DOORS COVERED	1 861	91	371	481	276	143	120	91	23	40	9	215	27
NOT REPORTED	95	13	32	10	10	3	5	2	-	3	1	17	17
ATTIC OR ROOF INSULATION													
YES	855	32	168	203	131	79	68	54	13	23	5	80	28
NO	650	35	139	187	100	40	31	23	6	6	5	80	25
DON'T KNOW	570	34	121	141	79	46	35	23	4	12	2	72	26
NOT REPORTED	100	13	32	12	12	5	5	2	-	3	1	17	18

[1]RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	7 718	428	815	949	929	717	1 068	584	482	151	53	1 543	24
HOUSE HEATING FUEL													
GAS	5 788	366	766	891	885	689	1 001	550	449	142	47	-	24
UTILITY GAS	5 660	358	751	882	876	686	975	539	419	135	40	-	24
BOTTLED, TANK, OR LP GAS	127	8	15	9	9	3	27	11	30	8	7	-	36
OTHER THAN GAS	1 810	53	44	51	39	25	64	31	33	9	6	1 455	23
FUEL OIL	383	2	2	4	-	7	5	5	2	2	-	353	...
KEROSENE, ETC	1	-	-	-	-	-	1	-	-	-	-	-	...
ELECTRICITY	1 276	37	36	43	34	17	48	24	25	6	6	1 000	23
COAL OR COKE	6	-	-	-	-	-	3	1	-	-	-	2	...
WOOD	138	15	6	2	6	1	6	1	6	1	-	96	16
SOLAR HEAT	7	-	-	2	-	-	2	-	-	-	-	4	...
OTHER FUEL	1	-	-	-	-	-	-	-	-	-	-	1	-
NONE	120	9	4	7	4	3	2	3	-	-	-	88	...
WATER HEATING FUEL[3]													
GAS	5 563	361	776	911	865	659	941	490	389	126	45	-	23
UTILITY GAS	5 455	357	764	902	856	654	915	482	367	118	41	-	23
BOTTLED, TANK, OR LP GAS	108	4	12	9	9	6	25	8	23	8	4	-	35
OTHER FUEL	2 129	64	38	36	59	56	121	93	92	25	8	1 536	33
NONE	2	-	-	-	-	-	2	-	-	-	-	-	...
COOKING FUEL													
GAS	2 890	253	520	569	471	320	430	145	115	43	23	-	21
UTILITY GAS	2 802	243	511	562	465	315	410	139	99	39	20	-	21
BOTTLED, TANK, OR LP GAS	87	9	10	7	7	5	21	6	16	4	3	-	33
OTHER FUEL	4 828	175	295	380	457	398	637	439	367	108	30	1 543	28
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 678	215	494	541	442	303	401	126	95	39	21	-	21
ALL OTHER FUEL COMBINATIONS	3 429	201	313	400	479	408	657	450	381	110	30	-	28
NONE	1 611	12	8	7	8	6	9	8	6	2	2	1 543	23
HEATING EQUIPMENT													
WARM-AIR FURNACE	4 911	220	448	564	664	523	865	484	387	124	33	598	27
HEAT PUMP	206	10	10	12	5	2	-	6	3	-	-	158	16
STEAM OR HOT WATER	175	-	3	6	9	25	33	25	32	13	8	22	40
BUILT-IN ELECTRIC UNITS	508	7	5	3	5	3	-	3	2	3	2	478	...
FLOOR, WALL, OR PIPELESS FURNACE	1 301	123	289	314	206	136	119	41	40	6	7	18	18
ROOM HEATERS WITH FLUE	198	21	31	23	20	22	30	15	8	4	2	21	23
ROOM HEATERS WITHOUT FLUE	27	4	7	4	3	1	3	1	2	-	2	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	273	33	17	16	11	3	15	7	9	1	-	161	17
NONE	120	9	4	7	4	3	2	3	-	-	-	88	...
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	7 598	419	810	942	925	714	1 066	581	482	151	53	1 455	24
WITH FIREPLACE OR HEATING STOVE	5 235	241	500	573	612	483	740	446	378	134	42	1 086	26
IN WORKING ORDER	5 099	235	484	552	599	475	715	437	367	126	40	1 069	26
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	4 088	171	319	408	447	376	568	372	311	99	23	992	27
ALL PURCHASED	1 309	48	102	120	153	134	200	159	93	37	15	247	28
SOME OR NONE PURCHASED	2 720	115	215	283	289	236	359	210	208	62	8	736	27
NOT REPORTED	59	8	2	6	5	6	10	4	10	-	-	9	28
COAL	8	3	-	-	-	2	-	1	-	-	-	3	...
OTHER FUEL	418	30	50	78	53	39	67	26	36	17	9	13	23
NONE	577	30	114	65	97	58	76	36	21	9	7	62	22
NOT REPORTED	9	-	1	-	2	-	4	2	-	-	-	-	...
NOT IN WORKING ORDER	134	6	16	21	11	8	24	9	11	8	2	17	27
NOT REPORTED	3	-	-	-	2	-	1	-	-	-	-	-	...
WITHOUT FIREPLACE OR HEATING STOVE	2 347	173	309	368	313	231	322	135	104	17	11	365	22
NOT REPORTED	15	5	1	1	-	-	4	-	-	-	-	5	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	120	9	4	7	4	3	2	3	-	-	-	88	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	393	42	21	23	15	7	17	9	9	1	-	249	17
WITH SELECTED HEATING EQUIPMENT[4]	7 325	386	794	926	913	711	1 051	575	473	150	53	1 294	24
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 779	368	755	878	864	674	979	532	418	139	51	1 122	24
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	525	14	38	46	48	35	67	42	56	12	2	165	29
SOLAR HEATING EQUIPMENT	19	2	1	2	2	2	-	-	-	1	-	10	...
STOVE, BURNING WOOD OR COAL	152	4	3	6	8	7	18	14	15	7	-	68	36
FIREPLACE, BURNING WOOD OR COAL	105	2	9	15	10	4	13	8	16	-	2	27	28
PORTABLE ELECTRIC HEATER	173	5	22	12	24	13	26	15	16	2	-	38	26
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	26	-	1	4	2	3	8	1	2	-	2	3	...
OTHER	69	2	3	7	4	7	9	6	9	2	-	20	30
NOT REPORTED	21	3	1	2	1	2	4	-	-	-	-	7	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 502	411	799	926	899	701	1 048	566	470	149	53	1 480	24
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	88	2	5	3	13	6	4	10	9	2	-	35	28
NOT REPORTED	77	8	10	13	10	7	10	7	2	-	-	10	21

[1] RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2] LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3] LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.
[4] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5] LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	2 740	186	334	342	323	285	361	194	165	43	22	525	23
ROOM UNITS,	947	63	127	137	119	92	117	67	62	8	5	152	22
1	764	42	100	104	97	72	99	58	54	6	5	126	23
2	145	18	20	25	19	13	15	5	6	2	-	23	19
3	24	2	7	4	3	5	2	-	-	-	-	1	...
4	7	-	-	2	-	2	-	-	2	-	-	2	...
5 OR MORE	6	-	-	2	-	-	1	3	-	-	-	-	...
CENTRAL SYSTEM	1 793	123	207	206	205	193	245	128	103	35	17	373	23
WITH NO AIR CONDITIONING	4 978	242	481	607	606	472	706	390	317	108	31	1 018	25
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 793	123	207	206	205	193	245	128	103	35	17	373	23
WITH SUPPLEMENTAL EQUIPMENT USED	738	42	73	83	90	71	90	50	53	14	2	171	24
INDIVIDUAL ROOM AIR CONDITIONING UNIT	57	3	6	7	6	5	7	5	6	2	-	10	26
AWNINGS	115	12	11	11	12	15	16	13	5	2	-	18	26
DEHUMIDIFIER	25	-	2	2	2	5	4	-	4	-	2	4	...
CEILING FAN	61	2	5	8	5	8	4	2	8	2	-	17	26
ATTIC FAN	198	8	20	20	26	21	32	9	18	6	-	38	26
WINDOW FAN	20	3	2	2	3	2	4	2	-	-	-	2	...
PORTABLE FAN	410	28	46	48	51	30	37	28	24	7	-	112	22
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 016	78	128	121	106	81	150	78	48	19	13	195	23
NOT REPORTED	38	3	6	2	8	2	4	-	2	2	2	8	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 925	305	608	743	724	564	823	457	379	116	36	1 170	24
PERSONS													
1 PERSON	959	131	132	154	96	75	95	43	35	10	6	181	18
2 PERSONS	2 540	154	289	320	315	269	305	182	119	42	15	530	23
3 PERSONS	1 471	69	167	178	168	130	212	118	86	30	13	301	25
4 PERSONS	1 548	51	126	171	209	140	247	131	130	28	6	308	27
5 PERSONS	685	10	65	70	85	49	128	66	58	23	7	122	30
6 PERSONS	334	8	23	41	34	39	45	28	35	13	6	61	28
7 PERSONS OR MORE	182	5	13	16	21	14	34	16	19	5	-	39	31
MEDIAN	2.7	2.0	2.4	2.5	2.8	2.6	3.1	3.1	3.5	3.3	2.9	2.7	...
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 480	39	36	86	103	115	235	137	127	40	12	550	33
SOME WINDOWS COVERED	966	31	54	68	86	81	129	102	95	27	4	289	31
NO WINDOWS COVERED	5 250	357	724	795	735	522	696	343	260	84	36	698	22
NOT REPORTED	22	2	1	-	6	-	7	2	-	-	-	5	...
STORM DOORS													
ALL DOORS COVERED	980	13	20	51	72	76	193	127	81	31	4	313	35
SOME DOORS COVERED	770	17	22	35	37	63	126	96	78	25	4	268	36
NO DOORS COVERED	5 944	397	772	863	814	576	741	360	323	95	45	957	22
NOT REPORTED	24	2	1	-	6	2	7	2	-	-	-	5	...
ATTIC OR ROOF INSULATION													
YES	6 058	293	561	655	719	545	865	519	417	131	43	1 311	26
NO	1 336	109	216	233	161	140	169	53	44	17	10	183	20
DON'T KNOW	301	24	37	60	43	32	26	10	21	3	-	44	21
NOT REPORTED	24	2	1	1	6	-	8	2	-	-	-	5	...
SPECIFIED RENTER OCCUPIED[3]	6 118	981	716	516	346	243	244	122	76	22	17	2 834	14
HOUSE HEATING FUEL													
GAS	4 019	870	661	469	325	224	233	113	71	18	14	1 021	14
UTILITY GAS	3 929	864	655	463	316	213	224	102	68	15	11	998	14
BOTTLED, TANK, OR LP GAS	90	7	6	6	9	11	8	11	3	2	3	23	27
OTHER THAN GAS	1 881	83	46	39	14	8	10	4	3	5	3	1 665	12
FUEL OIL	204	8	-	2	4	1	-	-	-	1	-	189	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 575	69	39	33	9	7	9	4	2	2	2	1 400	12
COAL OR COKE	6	-	3	-	-	-	-	-	-	-	-	3	...
WOOD	58	3	1	3	-	1	1	1	2	2	1	44	...
SOLAR HEAT	3	-	-	1	-	-	-	-	-	-	-	2	...
OTHER FUEL	35	3	2	-	1	-	-	-	-	-	-	29	...
NONE	219	28	9	8	6	11	2	5	2	-	-	147	13
WATER HEATING FUEL[4]													
GAS	4 104	921	677	488	311	220	229	98	59	19	12	1 071	14
UTILITY GAS	4 036	919	673	478	301	213	219	89	58	15	12	1 058	13
BOTTLED, TANK, OR LP GAS	69	2	4	9	10	6	11	8	2	4	1	13	27
OTHER FUEL	1 945	58	38	24	32	22	15	23	15	3	3	1 712	18
NONE	20	2	-	2	-	-	-	-	1	-	2	14	...
COOKING FUEL													
GAS	3 015	756	539	380	232	153	139	63	38	13	12	689	13
UTILITY GAS	2 929	742	534	371	220	146	130	57	36	10	9	675	13
BOTTLED, TANK, OR LP GAS	87	14	5	9	12	7	10	6	2	4	3	14	23
OTHER FUEL	3 048	225	177	136	114	90	105	59	38	9	5	2 089	17
NONE	55	-	-	-	-	-	-	-	-	-	-	55	-

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE E-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 636	655	499	344	212	134	130	53	32	11	9	556	13
ALL OTHER FUEL COMBINATIONS	1 855	319	212	170	131	104	112	67	44	10	7	679	16
NONE	1 627	7	6	3	2	5	2	2	-	1	1	1 599	...
HEATING EQUIPMENT													
WARM-AIR FURNACE	1 799	214	214	162	146	107	138	66	41	10	5	697	18
HEAT PUMP	54	2	4	1	-	-	-	-	-	-	2	45	...
STEAM OR HOT WATER	393	33	15	7	2	3	4	2	3	-	1	323	11
BUILT-IN ELECTRIC UNITS	1 101	37	11	11	4	3	2	1	-	-	1	1 032	10-
FLOOR, WALL, OR PIPELESS FURNACE	1 963	571	398	273	146	82	73	40	20	5	6	349	12
ROOM HEATERS WITH FLUE	398	71	56	45	34	27	13	4	8	5	2	134	16
ROOM HEATERS WITHOUT FLUE	48	14	4	4	2	6	6	3	-	-	-	9	17
FIREPLACES, STOVES, OR PORTABLE HEATERS	144	12	6	4	5	4	5	2	3	2	1	98	19
NONE	219	28	9	8	6	11	2	5	2	-	-	147	13
FIREPLACES AND HEATING STOVES													
HOUSING UNITS WITH HEATING EQUIPMENT	5 900	953	707	508	339	232	242	117	74	22	17	2 686	14
WITH FIREPLACE OR HEATING STOVE	1 093	109	111	99	109	75	104	37	30	8	8	404	21
IN WORKING ORDER	1 015	96	100	95	97	70	91	37	29	8	8	384	21
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:													
WOOD OR WOOD BYPRODUCTS	696	41	61	67	69	42	62	33	18	6	3	293	22
ALL PURCHASED	242	12	26	31	25	13	26	14	10	2	-	84	22
SOME OR NONE PURCHASED	430	26	36	34	42	25	32	18	8	5	3	201	22
NOT REPORTED	24	2	-	2	2	4	4	1	-	-	-	7	...
COAL	2	-	2	-	-	-	-	-	-	-	-	1	...
OTHER FUEL	164	33	22	7	14	16	16	2	8	1	2	43	18
NONE	144	23	14	18	13	11	11	2	4	-	3	44	18
NOT REPORTED	9	-	-	3	2	1	2	-	-	-	-	2	...
NOT IN WORKING ORDER	74	11	11	4	13	4	12	-	1	-	-	18	21
NOT REPORTED	4	2	-	-	-	-	1	-	-	-	-	2	...
WITHOUT FIREPLACE OR HEATING STOVE	4 784	842	593	409	227	156	139	79	44	14	9	2 270	13
NOT REPORTED	23	2	3	-	2	2	-	1	-	-	-	12	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	219	28	9	8	6	11	2	5	2	-	-	147	13
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	362	41	16	12	11	15	7	7	5	2	1	245	16
WITH SELECTED HEATING EQUIPMENT[3]	5 756	941	700	505	334	228	237	115	71	20	16	2 588	14
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 535	899	674	496	306	213	228	110	65	18	16	2 511	14
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	202	39	24	9	27	13	10	5	7	2	-	66	17
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	1	-
STOVE, BURNING WOOD OR COAL	15	3	1	-	1	1	1	-	-	-	-	9	...
FIREPLACE, BURNING WOOD OR COAL	6	2	3	-	-	-	-	-	-	2	-	-	...
PORTABLE ELECTRIC HEATER	164	33	17	7	22	12	8	5	5	1	-	54	18
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	5	-	-	2	2	-	1	-	1	-	-	-	...
OTHER	12	2	5	-	2	1	-	-	-	-	-	3	...
NOT REPORTED	19	2	3	-	2	2	-	-	-	-	-	11	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]													
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 964	959	705	504	339	240	244	121	74	22	15	2 742	14
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	5	1	2	2	-	-	-	-	-	-	9	...
NOT REPORTED	60	15	9	5	2	2	-	-	-	-	-	27	...
AIR CONDITIONING													
WITH AIR CONDITIONING	1 828	305	221	140	79	53	76	39	17	2	8	889	13
ROOM UNITS	1 014	199	141	64	50	27	40	24	10	-	6	453	12
1	913	190	128	57	43	24	36	18	8	-	4	408	12
2	84	9	12	7	7	1	2	6	2	-	2	36	17
3	12	-	2	-	-	3	2	-	-	-	-	5	...
4	3	-	-	-	-	-	-	-	-	-	-	3	-
5 OR MORE	2	-	2	-	-	-	-	-	-	-	-	-	...
CENTRAL SYSTEM	815	106	80	76	30	26	36	15	7	2	2	436	15
WITH NO AIR CONDITIONING	4 290	677	495	377	267	190	168	84	59	21	9	1 944	15
SUPPLEMENTAL COOLING EQUIPMENT													
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	815	106	80	76	30	26	36	15	7	2	2	436	15
WITH SUPPLEMENTAL EQUIPMENT USED	152	21	13	15	11	5	9	4	1	2	2	70	17
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	-	-	2	-	1	-	-	-	-	-	4	...
AWNINGS	22	5	3	-	1	-	3	1	-	-	-	8	...
DEHUMIDIFIER	2	-	-	-	-	-	-	-	-	-	-	2	-
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	11	-	-	-	2	3	-	1	-	-	-	5	...
WINDOW FAN	14	3	2	-	2	-	3	1	-	-	-	5	...
PORTABLE FAN	114	15	12	14	8	2	6	2	1	2	2	52	16
WITH NO SUPPLEMENTAL EQUIPMENT USED	641	80	63	59	18	21	25	11	6	-	-	358	14
NOT REPORTED	21	4	4	2	1	-	2	-	-	-	-	8	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 304	876	636	441	316	218	208	108	69	21	15	2 397	14

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[3]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS										
		LESS THAN $10	$10 TO $14	$15 TO $19	$20 TO $24	$25 TO $29	$30 TO $39	$40 TO $49	$50 TO $69	$70 TO $99	$100 OR MORE	NO GAS USED OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED													
PERSONS													
1 PERSON	2 239	454	187	135	62	34	37	14	14	3	6	1 292	10
2 PERSONS	1 709	284	227	136	102	59	51	28	17	10	3	792	13
3 PERSONS	934	117	136	109	75	51	53	25	9	2	4	354	16
4 PERSONS	662	79	97	61	42	51	56	17	13	3	2	240	17
5 PERSONS	306	30	47	30	30	27	22	12	10	3	1	94	19
6 PERSONS	151	9	12	30	15	14	10	16	8	1	1	33	22
7 PERSONS OR MORE	117	9	9	15	19	7	16	10	5	-	-	28	22
MEDIAN	2.0	1.6	2.3	2.4	2.6	3.0	3.1	3.3	3.2	...	...	1.6	...
SPECIFIED RENTER OCCUPIED[2]	6 118	981	716	516	346	243	244	122	76	22	17	2 834	14
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 175	213	294	258	212	154	182	94	51	14	14	688	19
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	227	10	13	10	19	9	18	12	12	3	2	120	26
SOME WINDOWS COVERED	169	2	4	15	13	20	18	7	6	1	1	84	27
NO WINDOWS COVERED	1 685	184	264	217	175	126	143	74	34	10	11	448	18
NOT REPORTED	93	17	13	16	5	-	3	2	-	-	-	37	14
STORM DOORS													
ALL DOORS COVERED	117	8	4	7	9	7	12	11	5	2	1	52	27
SOME DOORS COVERED	102	3	4	2	8	11	11	6	5	4	-	46	29
NO DOORS COVERED	1 861	185	273	233	190	135	155	75	41	9	13	553	18
NOT REPORTED	95	17	13	16	5	2	3	2	-	-	-	38	14
ATTIC OR ROOF INSULATION													
YES	855	60	86	79	77	55	86	47	32	9	8	315	22
NO	650	74	100	95	59	73	45	25	13	5	4	157	18
DON'T KNOW	570	62	96	67	70	26	46	20	4	1	1	177	17
NOT REPORTED	100	17	13	18	6	-	3	2	2	-	-	39	15

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]	7 718	379	313	131	79	68	67	58	44	94	6 486	175
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	527	20	27	31	45	52	58	49	40	78	126	542
FUEL OIL	383	11	16	17	35	52	55	48	39	77	33	580
COAL OR COKE	6	3	-	2	-	-	1	-	-	-	-	...
KEROSENE, ETC	1	1	-	-	-	-	-	-	-	-	-	...
WOOD	138	5	11	13	10	-	3	1	1	1	93	245
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	7 071	359	286	99	34	16	8	10	3	16	6 240	120
UTILITY GAS	5 660	278	215	65	13	12	5	2	3	7	5 060	110
BOTTLED, TANK, OR LP GAS	127	9	7	8	3	1	1	3	-	5	90	227
ELECTRICITY	1 276	72	60	26	17	3	2	4	-	4	1 087	137
SOLAR HEAT	7	-	3	-	-	-	-	-	-	-	3	...
OTHER FUEL	1	-	-	1	-	-	-	-	-	-	-	...
NONE	120	-	-	-	-	-	-	-	-	-	120	-
HEATING EQUIPMENT												
WARM-AIR FURNACE	4 911	266	228	85	39	55	49	48	39	71	4 030	176
HEAT PUMP	206	7	9	2	4	-	-	2	-	-	181	...
STEAM OR HOT WATER	175	19	7	4	2	2	3	3	1	10	125	186
BUILT-IN ELECTRIC UNITS	508	33	33	13	7	1	-	1	-	4	416	140
FLOOR, WALL, OR PIPELESS FURNACE	1 301	32	17	2	10	3	5	-	1	2	1 229	120
ROOM HEATERS WITH FLUE	198	6	4	-	5	7	6	3	3	3	161	441
ROOM HEATERS WITHOUT FLUE	27	2	1	-	-	-	-	-	-	-	24	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	273	13	14	24	11	2	3	2	1	3	199	237
NONE	120	-	-	-	-	-	-	-	-	-	120	-
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	7 598	379	313	131	79	68	67	58	44	94	6 366	175
WITH FIREPLACE OR HEATING STOVE	5 235	360	300	127	67	55	52	55	38	84	4 099	169
IN WORKING ORDER	5 099	356	300	126	67	49	50	55	38	82	3 977	168
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	4 088	338	287	118	56	40	47	52	35	76	3 038	164
ALL PURCHASED	1 309	202	200	74	36	10	18	26	8	28	707	149
SOME OR NONE PURCHASED	2 720	134	86	43	20	30	29	26	27	48	2 278	204
NOT REPORTED	59	2	2	2	-	1	-	-	-	-	53	...
COAL	8	-	-	4	-	-	1	-	-	-	3	...
OTHER FUEL	418	10	3	-	4	3	1	2	-	4	390	...
NONE	577	8	9	4	7	5	2	2	3	2	536	284
NOT REPORTED	9	-	-	-	-	-	-	-	-	-	9	-
NOT IN WORKING ORDER	134	3	-	1	-	6	2	-	-	2	120	...
NOT REPORTED	3	-	-	-	-	-	-	-	-	-	3	-
WITHOUT FIREPLACE OR HEATING STOVE	2 367	18	13	4	12	13	15	3	6	10	2 254	401
NOT REPORTED	15	2	1	-	-	-	-	-	-	-	13	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	120	-	-	-	-	-	-	-	-	-	120	-
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 502	372	305	122	76	68	63	55	44	89	6 309	173
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	88	5	4	6	-	-	2	3	-	3	65	...
NOT REPORTED	77	-	2	2	1	-	-	-	-	2	70	...
AIR CONDITIONING												
WITH AIR CONDITIONING	2 740	120	124	37	26	16	9	9	7	14	2 378	149
ROOM UNITS	947	47	34	13	8	8	4	-	3	3	823	143
1	764	38	31	13	6	8	3	-	3	3	659	149
2	145	8	1	-	2	1	1	-	2	-	132	...
3	24	2	1	-	-	-	-	-	-	-	21	...
4	7	-	-	-	-	-	-	-	-	-	7	-
5 OR MORE	6	-	2	-	-	-	-	-	-	-	4	...
CENTRAL SYSTEM	1 793	73	90	24	18	8	5	9	2	11	1 555	151
WITH NO AIR CONDITIONING	4 978	259	189	94	53	52	57	49	37	80	4 108	192
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	1 793	73	90	24	18	8	5	9	2	11	1 555	151
WITH SUPPLEMENTAL EQUIPMENT USED	738	26	37	6	10	2	4	7	-	1	646	154
INDIVIDUAL ROOM AIR CONDITIONING UNIT	57	2	2	-	-	-	2	-	-	-	51	...
AWNINGS	115	6	7	-	1	-	2	2	-	-	97	...
DEHUMIDIFIER	25	-	3	2	1	-	-	-	-	-	20	...
CEILING FAN	61	2	2	2	-	-	-	2	-	-	53	...
ATTIC FAN	198	6	13	3	7	2	-	2	-	-	166	...
WINDOW FAN	20	2	2	-	-	-	-	-	-	-	16	...
PORTABLE FAN	410	14	18	2	4	-	2	3	-	1	367	142
WITH NO SUPPLEMENTAL EQUIPMENT USED	1 016	45	52	18	7	6	1	3	2	10	873	151
NOT REPORTED	38	2	-	-	-	-	-	-	-	-	36	...
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 925	307	223	107	61	60	62	49	42	83	4 932	184
PERSONS												
1 PERSON	959	39	31	15	16	7	14	8	6	10	813	223
2 PERSONS	2 540	136	100	49	26	26	29	29	20	30	2 097	185
3 PERSONS	1 471	66	56	20	16	15	7	10	8	20	1 253	175
4 PERSONS	1 548	81	82	32	15	11	8	7	8	18	1 287	160
5 PERSONS	685	30	28	10	3	7	6	2	2	7	590	161
6 PERSONS	334	21	12	2	3	2	1	2	-	5	287	116
7 PERSONS OR MORE	182	6	4	3	1	1	2	1	-	3	160	...
MEDIAN	2.7	2.7	2.9	2.6	2.4	2.6	2.1	2.2	2.3	2.8	2.8	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[2]--CONTINUED												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 480	100	88	43	21	31	31	14	15	18	1 119	190
SOME WINDOWS COVERED	966	61	52	20	20	16	12	21	15	21	728	232
NO WINDOWS COVERED	5 250	219	173	68	37	21	24	24	13	54	4 617	156
NOT REPORTED	22	-	-	-	-	-	-	-	-	-	22	-
STORM DOORS												
ALL DOORS COVERED	980	69	49	30	21	21	29	14	13	18	718	244
SOME DOORS COVERED	770	51	48	21	9	19	15	16	9	19	563	221
NO DOORS COVERED	5 944	259	217	80	49	28	23	29	22	56	5 180	156
NOT REPORTED	24	-	-	-	-	-	-	-	-	-	24	-
ATTIC OR ROOF INSULATION												
YES	6 058	344	285	119	67	58	61	53	40	79	4 952	173
NO	1 336	27	24	10	10	8	6	5	3	12	1 231	211
DON'T KNOW	301	8	4	2	2	2	-	-	-	2	279	...
NOT REPORTED	24	-	-	-	-	-	-	-	-	-	24	-
SPECIFIED RENTER OCCUPIED[3]	6 118	132	56	20	16	18	12	5	5	23	5 831	121
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	268	19	11	12	8	14	9	4	4	15	171	373
FUEL OIL	204	11	2	8	5	13	7	4	4	15	136	465
COAL OR COKE	6	-	2	-	1	1	-	-	-	-	3	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	58	8	7	5	3	1	2	-	-	1	32	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	5 632	113	45	8	8	4	2	1	1	8	5 442	100-
UTILITY GAS	3 929	65	27	3	6	2	2	1	1	7	3 817	100-
BOTTLED, TANK, OR LP GAS	90	5	2	1	1	1	-	-	1	1	79	...
ELECTRICITY	1 575	43	17	3	2	2	1	1	-	-	1 507	100-
SOLAR HEAT	3	-	-	-	-	-	-	-	-	-	3	-
OTHER FUEL	35	-	-	-	-	-	-	-	-	-	35	-
NONE	219	-	-	-	-	-	-	-	-	-	219	-
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 799	48	24	9	6	14	6	3	3	14	1 671	167
HEAT PUMP	54	-	-	-	-	-	-	-	-	2	54	-
STEAM OR HOT WATER	393	9	1	-	-	-	-	-	-	-	382	...
BUILT-IN ELECTRIC UNITS	1 101	32	13	2	-	-	1	1	-	-	1 053	100-
FLOOR, WALL, OR PIPELESS FURNACE	1 963	17	5	2	2	-	2	1	-	2	1 932	...
ROOM HEATERS WITH FLUE	398	4	2	2	3	3	1	-	2	4	377	...
ROOM HEATERS WITHOUT FLUE	48	2	-	1	-	-	-	-	-	-	45	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	144	20	11	5	5	1	2	-	-	1	98	124
NONE	219	-	-	-	-	-	-	-	-	-	219	-
FIREPLACES AND HEATING STOVES												
HOUSING UNITS WITH HEATING EQUIPMENT	5 900	132	56	20	16	18	12	5	5	23	5 613	121
WITH FIREPLACE OR HEATING STOVE	1 093	116	49	16	12	9	9	5	4	15	858	102
IN WORKING ORDER	1 015	115	49	15	12	9	9	5	4	14	783	102
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:												
WOOD OR WOOD BYPRODUCTS	696	107	47	15	10	8	8	5	3	13	481	102
ALL PURCHASED	242	59	25	11	5	3	2	1	-	8	128	100-
SOME OR NONE PURCHASED	430	47	18	4	5	4	5	4	2	4	337	100-
NOT REPORTED	24	1	3	-	-	2	-	-	1	2	16	...
COAL	2	-	-	-	1	-	-	-	-	-	2	...
OTHER FUEL	164	3	1	-	1	-	1	-	1	1	156	...
NONE	148	5	2	-	1	1	-	-	-	-	135	...
NOT REPORTED	9	-	-	-	-	-	-	-	-	-	9	-
NOT IN WORKING ORDER	74	2	-	1	-	-	-	-	-	1	70	...
NOT REPORTED	4	-	-	-	-	-	-	-	-	-	4	-
WITHOUT FIREPLACE OR HEATING STOVE	4 784	14	6	5	4	9	3	1	2	8	4 734	307
NOT REPORTED	23	2	-	-	-	-	-	-	-	-	21	...
HOUSING UNITS WITH NO HEATING EQUIPMENT	219	-	-	-	-	-	-	-	-	-	219	-
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]												
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 964	129	52	19	13	18	12	5	5	23	5 689	117
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	-	-	-	-	-	-	-	-	-	19	-
NOT REPORTED	60	2	2	-	1	-	-	-	-	-	55	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE E-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.										
		LESS THAN $100	$100 TO $199	$200 TO $299	$300 TO $399	$400 TO $499	$500 TO $599	$600 TO $699	$700 TO $799	$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED[1]	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[2]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	1 828	27	9	6	2	4	1	-	-	-	1 779	100-
ROOM UNITS	1 014	10	4	6	2	4	1	-	-	-	987	...
1	913	8	4	6	2	4	1	-	-	-	889	...
2	84	2	-	1	-	-	-	-	-	-	81	...
3	12	-	-	-	-	-	-	-	-	-	12	-
4	3	-	-	-	-	-	-	-	-	-	3	-
5 OR MORE	2	-	-	-	-	-	-	-	-	-	2	-
CENTRAL SYSTEM	815	17	5	-	1	-	-	-	-	-	793	...
WITH NO AIR CONDITIONING	4 290	105	47	14	14	14	11	5	5	23	4 052	130
SUPPLEMENTAL COOLING EQUIPMENT												
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	815	17	5	-	1	-	-	-	-	-	793	...
WITH SUPPLEMENTAL EQUIPMENT USED	152	6	1	-	1	-	-	-	-	-	144	...
INDIVIDUAL ROOM AIR CONDITIONING UNIT	6	-	-	-	-	-	-	-	-	-	6	-
AWNINGS	22	-	1	-	-	-	-	-	-	-	20	...
DEHUMIDIFIER	2	2	-	-	-	-	-	-	-	-	-	...
CEILING FAN	-	-	-	-	-	-	-	-	-	-	-	-
ATTIC FAN	11	2	1	-	-	-	-	-	-	-	8	...
WINDOW FAN	14	-	-	-	-	-	-	-	-	-	14	-
PORTABLE FAN	114	6	-	-	1	-	-	-	-	-	107	...
WITH NO SUPPLEMENTAL EQUIPMENT USED	641	11	3	-	-	-	-	-	-	-	628	...
NOT REPORTED	21	-	-	-	-	-	-	-	-	-	21	-
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	5 304	115	51	20	15	18	12	5	5	23	5 039	134
PERSONS												
1 PERSON	2 239	34	11	6	6	2	5	-	-	2	2 173	100-
2 PERSONS	1 709	42	16	5	2	12	2	1	1	6	1 624	103
3 PERSONS	934	27	10	6	2	3	2	-	2	8	875	124
4 PERSONS	662	15	12	1	4	-	3	3	2	1	621	140
5 PERSONS	306	6	4	1	-	1	1	2	2	5	285	...
6 PERSONS	151	6	2	1	-	-	-	-	-	2	140	...
7 PERSONS OR MORE	117	1	1	-	2	-	-	-	-	1	113	...
MEDIAN	2.0	2.3	2.6	...	...	...	...	...	...	...	1.9	...
SPECIFIED RENTER OCCUPIED[2]	6 118	132	56	20	16	18	12	5	5	23	5 831	121
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 175	79	42	19	15	16	9	5	5	23	1 960	166
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	227	12	1	9	-	3	1	2	2	3	195	...
SOME WINDOWS COVERED	169	8	5	2	3	4	5	-	-	6	136	...
NO WINDOWS COVERED	1 685	58	35	8	12	9	4	3	4	14	1 538	145
NOT REPORTED	93	1	-	-	-	-	-	1	-	-	91	...
STORM DOORS												
ALL DOORS COVERED	117	2	3	4	-	1	2	-	-	-	105	...
SOME DOORS COVERED	102	7	2	2	3	2	-	-	-	8	77	...
NO DOORS COVERED	1 861	70	38	12	12	13	7	5	5	15	1 684	150
NOT REPORTED	95	1	-	-	-	-	-	-	-	-	94	...
ATTIC OR ROOF INSULATION												
YES	855	38	23	12	9	8	5	2	2	14	742	178
NO	650	18	9	4	6	3	5	1	1	9	595	221
DON'T KNOW	570	20	10	3	1	4	-	2	2	-	527	111
NOT REPORTED	100	3	-	-	-	-	-	-	-	-	97	...

[1]RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-11. HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

WEST REGION	TOTAL	HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE, MOTOR-CYCLE, OR MOPED	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME
HOUSING UNITS WITH EMPLOYED HOUSEHOLDERS[1]	10 738	7 512	1 677	523	334	8	392	32	261
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	6 582	4 910	1 014	182	164	7	109	23	174
LESS THAN 1 MILE	326	203	16	-	12	-	94	2	-
1 TO 4 MILES	1 231	1 015	96	31	64	3	13	7	-
5 TO 9 MILES	1 298	1 027	185	43	39	-	-	-	-
10 TO 19 MILES	1 530	1 120	316	58	29	-	-	7	-
20 TO 29 MILES	602	412	156	26	7	-	-	-	-
30 TO 49 MILES	331	205	104	15	7	-	-	-	-
50 MILES OR MORE	124	78	44	-	2	-	-	-	-
WORKS AT HOME	174	-	-	-	-	-	-	-	174
NO FIXED PLACE OF WORK	969	849	97	8	3	3	2	7	-
MEDIAN	9.5	8.9	15.1	12.2	5.6	...	1.0-	...	-
RENTER OCCUPIED	4 156	2 602	663	341	170	2	283	9	87
LESS THAN 1 MILE	449	157	27	11	24	-	226	4	-
1 TO 4 MILES	1 103	745	124	110	75	2	46	2	-
5 TO 9 MILES	884	560	174	110	39	-	2	-	-
10 TO 19 MILES	761	532	139	70	19	-	-	-	-
20 TO 29 MILES	270	177	69	17	7	-	-	-	-
30 TO 49 MILES	145	88	50	5	3	-	-	-	-
50 MILES OR MORE	42	20	20	2	-	-	-	-	-
WORKS AT HOME	87	-	-	-	-	-	-	-	87
NO FIXED PLACE OF WORK	416	324	59	17	3	-	10	3	-
MEDIAN	6.5	7.1	9.3	6.9	4.1	...	1.0-	...	-
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	6 582	4 910	1 014	182	164	7	109	23	174
LESS THAN 15 MINUTES	1 869	1 552	156	4	66	3	86	2	-
15 TO 29 MINUTES	2 071	1 578	371	39	61	-	18	3	-
30 TO 44 MINUTES	880	592	217	47	18	-	3	2	-
45 TO 59 MINUTES	333	186	100	35	11	-	-	1	-
1 HOUR TO 1 HOUR AND 29 MINUTES	196	106	48	37	4	-	-	1	-
1 HOUR AND 30 MINUTES OR MORE	90	46	25	12	-	-	-	7	-
WORKS AT HOME	174	-	-	-	-	-	-	-	174
NO FIXED PLACE OF WORK	969	849	97	8	3	3	2	7	-
MEDIAN	21.1	19.5	27.2	43.8	18.5	...	15.0-	...	-
RENTER OCCUPIED	4 156	2 602	663	341	170	2	283	9	87
LESS THAN 15 MINUTES	1 467	1 012	147	26	76	2	201	4	-
15 TO 29 MINUTES	1 362	866	279	94	68	-	53	1	-
30 TO 44 MINUTES	505	264	99	121	13	-	8	1	-
45 TO 59 MINUTES	160	77	36	32	6	-	7	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	114	47	26	37	1	-	3	-	-
1 HOUR AND 30 MINUTES OR MORE	46	12	18	15	-	-	1	-	-
WORKS AT HOME	87	-	-	-	-	-	-	-	87
NO FIXED PLACE OF WORK	416	324	59	17	3	-	10	3	-
MEDIAN	19.0	17.2	23.3	35.3	16.6	...	15.0-	...	-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	8 603	6 769	5 073	1 696	1 834
HOUSE HEATING FUEL					
OWNER OCCUPIED	3 776	2 724	1 866	858	1 052
UTILITY GAS	2 349	1 910	1 381	529	439
BOTTLED, TANK, OR LP GAS	329	54	7	48	274
FUEL OIL	581	452	310	142	129
KEROSENE, ETC	46	16	9	7	30
ELECTRICITY	385	252	137	115	133
COAL OR COKE	17	10	8	2	7
WOOD	53	14	5	9	39
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	1	1	1	-	-
NONE	15	14	8	6	1
RENTER OCCUPIED	4 827	4 045	3 208	837	782
UTILITY GAS	2 797	2 411	1 969	441	386
BOTTLED, TANK, OR LP GAS	136	35	13	23	101
FUEL OIL	991	909	752	157	83
KEROSENE, ETC	32	10	5	5	22
ELECTRICITY	666	565	403	162	101
COAL OR COKE	14	7	5	2	7
WOOD	94	18	7	11	77
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	17	17	17	-	-
NONE	79	73	36	37	6
WATER HEATING FUEL[1]					
OWNER OCCUPIED	3 593	2 684	1 859	824	909
UTILITY GAS	2 314	2 006	1 503	503	308
BOTTLED, TANK, OR LP GAS	184	36	5	31	148
FUEL OIL	171	158	100	58	13
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	897	476	248	228	421
COAL OR COKE	-	-	-	-	-
WOOD	4	3	2	1	1
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	-	-	-	-	-
NONE	22	4	2	2	18
RENTER OCCUPIED	4 567	3 994	3 189	805	574
UTILITY GAS	2 915	2 642	2 175	467	273
BOTTLED, TANK, OR LP GAS	60	28	14	14	33
FUEL OIL	620	594	491	103	26
KEROSENE, ETC	1	1	-	1	-
ELECTRICITY	937	704	489	215	234
COAL OR COKE	5	5	3	2	-
WOOD	-	-	-	-	-
SOLAR HEAT	2	2	2	-	-
OTHER FUEL	3	3	3	-	-
NONE	23	15	12	3	8
COOKING FUEL					
OWNER OCCUPIED	3 776	2 724	1 866	858	1 052
UTILITY GAS	2 147	1 824	1 398	426	323
BOTTLED, TANK, OR LP GAS	403	82	21	61	321
FUEL OIL	8	7	7	-	2
KEROSENE, ETC	1	1	-	1	-
ELECTRICITY	1 193	800	437	363	393
COAL OR COKE	2	-	-	-	2
WOOD	15	5	2	4	10
OTHER FUEL	1	1	-	1	-
NONE	6	4	2	2	2
RENTER OCCUPIED	4 827	4 045	3 208	837	782
UTILITY GAS	3 362	3 026	2 516	510	336
BOTTLED, TANK, OR LP GAS	207	54	18	36	153
FUEL OIL	12	11	9	2	2
KEROSENE, ETC	4	2	2	-	2
ELECTRICITY	1 184	924	643	280	260
COAL OR COKE	-	-	-	-	-
WOOD	23	8	-	8	15
OTHER FUEL	2	2	2	-	-
NONE	33	19	18	2	14

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
MONTHLY COST PAID FOR ELECTRICITY					
SPECIFIED OWNER OCCUPIED[1]	3 203	2 376	1 598	779	827
ELECTRICITY PAID FOR	3 202	2 375	1 598	778	826
LESS THAN $10	28	15	7	8	13
$10 TO $19	259	162	128	34	97
$20 TO $29	563	415	282	133	148
$30 TO $39	634	494	356	138	140
$40 TO $49	463	343	225	118	119
$50 TO $59	397	294	188	105	103
$60 TO $79	402	319	203	116	83
$80 TO $99	177	120	69	51	57
$100 TO $149	194	142	93	49	52
$150 OR MORE	85	71	46	25	14
MEDIAN	42	43	41	46	41
NO ELECTRICITY USED	1	1	-	1	1
SPECIFIED RENTER OCCUPIED[2]	4 756	4 032	3 202	830	724
ELECTRICITY PAID FOR	3 700	3 055	2 379	676	645
LESS THAN $10	172	150	137	13	22
$10 TO $19	901	724	579	145	177
$20 TO $29	948	812	624	187	136
$30 TO $39	694	569	435	134	125
$40 TO $49	378	303	226	78	74
$50 TO $59	236	187	155	32	48
$60 TO $79	227	183	130	53	44
$80 TO $99	63	50	40	10	13
$100 TO $149	57	53	38	15	4
$150 OR MORE	24	24	14	10	-
MEDIAN	27	27	27	29	28
INCLUDED IN RENT	1 052	973	820	153	78
NO ELECTRICITY USED	4	3	3	-	1
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	3 203	2 376	1 598	779	827
GAS PAID FOR	2 730	2 077	1 444	632	654
LESS THAN $10	93	63	31	32	30
$10 TO $14	177	130	83	47	47
$15 TO $19	228	184	110	74	44
$20 TO $24	234	148	102	45	86
$25 TO $29	229	160	95	64	70
$30 TO $39	467	350	248	102	116
$40 TO $49	354	263	188	76	91
$50 TO $69	524	419	294	125	104
$70 TO $99	287	241	199	42	46
$100 OR MORE	138	118	94	25	20
MEDIAN	38	40	42	35	34
NO GAS USED	473	300	153	146	173
SPECIFIED RENTER OCCUPIED[2]	4 756	4 032	3 202	830	724
GAS PAID FOR	2 656	2 218	1 800	418	438
LESS THAN $10	476	425	358	67	51
$10 TO $14	411	346	277	69	65
$15 TO $19	331	280	212	68	51
$20 TO $24	254	180	144	36	74
$25 TO $29	231	186	154	32	46
$30 TO $39	291	240	186	54	51
$40 TO $49	183	143	124	18	40
$50 TO $69	272	229	189	40	44
$70 TO $99	151	138	116	23	13
$100 OR MORE	56	51	39	12	5
MEDIAN	22	21	21	21	23
INCLUDED IN RENT	1 511	1 350	1 100	250	161
NO GAS USED	589	464	302	162	125

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	3 203	2 376	1 598	779	827
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	679	465	285	180	214
LESS THAN $100	101	59	41	18	42
$100 TO $199	74	45	26	19	29
$200 TO $299	53	26	18	8	27
$300 TO $399	59	34	26	8	25
$400 TO $499	54	39	26	13	15
$500 TO $599	70	55	38	16	15
$600 TO $699	53	39	23	17	14
$700 TO $799	34	24	19	5	10
$800 OR MORE	181	143	69	74	38
MEDIAN	496	552	515	640	336
FUELS NOT USED OR FREE	2 524	1 912	1 312	599	613
SPECIFIED RENTER OCCUPIED[2]	4 756	4 032	3 202	830	724
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	343	195	146	49	148
LESS THAN $100	79	51	42	9	28
$100 TO $199	62	33	20	12	29
$200 TO $299	45	13	10	3	32
$300 TO $399	42	18	17	1	24
$400 TO $499	30	23	14	9	7
$500 TO $599	17	12	10	2	4
$600 TO $699	24	21	15	6	3
$700 TO $799	14	9	7	2	5
$800 OR MORE	30	15	10	5	15
MEDIAN	267	306	303	371	251
INCLUDED IN RENT	1 142	1 055	843	212	87
FUELS NOT USED OR FREE	3 272	2 782	2 213	569	490
ALL OCCUPIED HOUSING UNITS	8 603	6 769	5 073	1 696	1 834
HEATING EQUIPMENT					
OWNER OCCUPIED	3 776	2 724	1 866	858	1 052
WARM-AIR FURNACE	1 800	1 461	1 013	448	338
HEAT PUMP	37	33	15	18	4
STEAM OR HOT WATER	490	471	379	91	19
BUILT-IN ELECTRIC UNITS	157	82	40	42	75
FLOOR, WALL, OR PIPELESS FURNACE	371	306	207	99	65
ROOM HEATERS WITH FLUE	243	118	72	47	124
ROOM HEATERS WITHOUT FLUE	513	186	114	72	327
FIREPLACES, STOVES, OR PORTABLE HEATERS	151	52	18	34	99
NONE	15	14	8	6	1
RENTER OCCUPIED	4 827	4 045	3 208	837	782
WARM-AIR FURNACE	1 502	1 341	1 013	329	161
HEAT PUMP	26	23	8	15	3
STEAM OR HOT WATER	1 383	1 337	1 161	177	46
BUILT-IN ELECTRIC UNITS	314	266	200	66	47
FLOOR, WALL, OR PIPELESS FURNACE	454	394	302	92	61
ROOM HEATERS WITH FLUE	360	242	193	48	118
ROOM HEATERS WITHOUT FLUE	513	292	246	45	221
FIREPLACES, STOVES, OR PORTABLE HEATERS	196	77	49	29	119
NONE	79	73	36	37	6
FIREPLACES AND HEATING STOVES					
OWNER OCCUPIED	3 776	2 724	1 866	858	1 052
HOUSING UNITS WITH HEATING EQUIPMENT	3 761	2 710	1 858	852	1 051
WITH FIREPLACE OR HEATING STOVE	1 140	824	568	256	316
IN WORKING ORDER	971	685	448	236	287
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	606	409	235	173	198
ALL PURCHASED	274	187	108	79	87
SOME OR NONE PURCHASED	321	213	122	90	108
NOT REPORTED	12	9	5	4	3
COAL	24	12	8	4	12
OTHER FUEL	145	102	84	18	43
NONE	195	161	121	40	34
NOT REPORTED	1	1	-	1	-
NOT IN WORKING ORDER	165	136	116	20	29
NOT REPORTED	4	3	3	-	1
WITHOUT FIREPLACE OR HEATING STOVE	2 609	1 878	1 283	595	731
NOT REPORTED	12	8	7	2	4
HOUSING UNITS WITH NO HEATING EQUIPMENT	15	14	8	6	1

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
FIREPLACES AND HEATING STOVES--CONTINUED					
RENTER OCCUPIED	4 827	4 045	3 208	837	782
HOUSING UNITS WITH HEATING EQUIPMENT	4 748	3 972	3 172	800	776
WITH FIREPLACE OR HEATING STOVE	602	398	310	88	204
IN WORKING ORDER	451	275	211	64	176
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	225	97	61	36	127
ALL PURCHASED	115	50	34	15	65
SOME OR NONE PURCHASED	97	36	19	18	61
NOT REPORTED	13	11	8	3	2
COAL	19	9	7	3	10
OTHER FUEL	134	108	91	17	26
NONE	66	53	47	6	13
NOT REPORTED	7	7	5	1	-
NOT IN WORKING ORDER	144	118	95	22	26
NOT REPORTED	7	5	3	2	2
WITHOUT FIREPLACE OR HEATING STOVE	4 135	3 564	2 853	711	572
NOT REPORTED	11	10	9	2	1
HOUSING UNITS WITH NO HEATING EQUIPMENT	79	73	36	37	6
ALL OCCUPIED HOUSING UNITS	8 603	6 769	5 073	1 696	1 834
UNITS OCCUPIED LAST WINTER	7 445	5 825	4 384	1 441	1 620
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	3 649	2 633	1 806	827	1 017
WITH SPECIFIED HEATING EQUIPMENT[1]	2 991	2 388	1 673	714	603
NO ADDITIONAL HEAT SOURCE USED	2 620	2 116	1 477	639	504
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	319	246	176	70	73
NOT REPORTED	52	25	19	6	26
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	659	245	133	112	414
RENTER OCCUPIED	3 796	3 192	2 578	614	604
WITH SPECIFIED HEATING EQUIPMENT[1]	3 158	2 838	2 307	531	320
NO ADDITIONAL HEAT SOURCE USED	2 378	2 123	1 710	413	255
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	718	661	555	106	57
NOT REPORTED	61	53	42	11	8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	638	354	271	83	284
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	3 649	2 633	1 806	827	1 017
WITH SPECIFIED HEATING EQUIPMENT[1]	2 991	2 388	1 673	714	603
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 236	1 842	1 298	544	394
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	698	519	354	165	180
1 ROOM	184	154	117	37	30
2 ROOMS	145	105	72	32	40
3 ROOMS OR MORE	369	260	164	95	109
NOT REPORTED	56	27	21	6	29
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	659	245	133	112	414
RENTER OCCUPIED	3 796	3 192	2 578	614	604
WITH SPECIFIED HEATING EQUIPMENT[1]	3 158	2 838	2 307	531	320
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 371	2 190	1 773	417	181
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	722	591	491	100	131
1 ROOM	216	200	173	27	16
2 ROOMS	222	179	140	38	43
3 ROOMS OR MORE	284	212	177	35	72
NOT REPORTED	65	57	44	14	8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	638	354	271	83	284
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	3 649	2 633	1 806	827	1 017
WITH SPECIFIED HEATING EQUIPMENT[1]	2 991	2 388	1 673	714	603
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	659	245	133	112	414
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	511	193	110	82	318
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	113	42	16	26	70
NOT REPORTED	36	10	7	4	25

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
UNITS OCCUPIED LAST WINTER--CONTINUED					
INSUFFICIENT HEAT--CONTINUED					
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED					
RENTER OCCUPIED	3 796	3 192	2 578	614	604
WITH SPECIFIED HEATING EQUIPMENT[1]	3 158	2 838	2 307	531	320
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	638	354	271	83	284
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	460	260	204	56	201
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	142	73	50	23	69
NOT REPORTED	36	22	18	4	14
ALL OCCUPIED HOUSING UNITS	8 603	6 769	5 073	1 696	1 834
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	3 776	2 724	1 866	858	1 052
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	166	66	26	40	100
WITH SELECTED HEATING EQUIPMENT[2]	3 610	2 658	1 840	818	952
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	3 323	2 453	1 696	757	870
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	279	201	140	61	78
SOLAR HEATING EQUIPMENT	1	1	-	1	-
STOVE, BURNING WOOD OR COAL	42	18	10	8	24
FIREPLACE, BURNING WOOD OR COAL	30	26	13	13	4
PORTABLE ELECTRIC HEATER	172	132	98	34	39
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	34	22	18	4	12
OTHER	10	9	7	2	1
NOT REPORTED	8	5	5	-	3
RENTER OCCUPIED	4 827	4 045	3 208	837	782
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	275	150	85	66	125
WITH SELECTED HEATING EQUIPMENT[2]	4 552	3 895	3 123	772	657
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	4 224	3 611	2 870	740	614
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	317	273	244	30	44
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	4	4	4	-	1
FIREPLACE, BURNING WOOD OR COAL	3	3	3	-	-
PORTABLE ELECTRIC HEATER	257	222	197	24	36
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	27	22	22	-	4
OTHER	27	24	19	5	3
NOT REPORTED	11	11	9	2	-
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]					
OWNER OCCUPIED	3 570	2 680	1 857	822	891
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	3 525	2 643	1 836	807	882
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	14	11	7	5	2
NOT REPORTED	31	26	15	11	6
RENTER OCCUPIED	4 542	3 977	3 175	802	566
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	4 489	3 928	3 134	794	560
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13	12	12	-	2
NOT REPORTED	40	36	29	7	4
AIR CONDITIONING					
OWNER OCCUPIED	3 776	2 724	1 866	858	1 052
WITH AIR CONDITIONING	2 095	1 619	1 102	516	476
ROOM UNITS	1 449	1 079	779	299	371
1	895	617	434	183	279
2	407	326	237	88	82
3	117	108	83	25	10
4	16	15	15	-	1
5 OR MORE	13	13	10	3	-
CENTRAL SYSTEM	646	540	323	217	106
WITH NO AIR CONDITIONING	1 681	1 105	763	342	575

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
AIR CONDITIONING--CONTINUED					
RENTER OCCUPIED	4 827	4 045	3 208	837	782
WITH AIR CONDITIONING	1 667	1 441	1 026	415	227
ROOM UNITS	1 038	890	702	188	148
1	809	685	542	143	124
2	193	171	129	42	22
3	20	20	19	2	-
4	12	10	10	-	2
5 OR MORE	3	3	2	2	-
CENTRAL SYSTEM	629	550	324	227	79
WITH NO AIR CONDITIONING	3 160	2 604	2 182	423	556
SUPPLEMENTAL COOLING EQUIPMENT					
OWNER OCCUPIED	3 776	2 724	1 866	858	1 052
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	646	540	323	217	106
WITH SUPPLEMENTAL EQUIPMENT USED	235	195	115	80	41
INDIVIDUAL ROOM AIR CONDITIONING UNIT	19	17	10	7	2
AWNINGS	20	19	12	8	1
DEHUMIDIFIER	31	30	13	17	2
CEILING FAN	23	18	11	6	6
ATTIC FAN	45	39	22	17	5
WINDOW FAN	30	27	20	8	2
PORTABLE FAN	109	82	46	37	27
WITH NO SUPPLEMENTAL EQUIPMENT USED	389	324	196	128	65
NOT REPORTED	21	21	12	9	1
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	3 130	2 184	1 543	641	946
RENTER OCCUPIED	4 827	4 045	3 208	837	782
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	629	550	324	227	79
WITH SUPPLEMENTAL EQUIPMENT USED	129	97	55	42	32
INDIVIDUAL ROOM AIR CONDITIONING UNIT	5	4	3	1	1
AWNINGS	-	-	-	-	-
DEHUMIDIFIER	2	2	-	2	-
CEILING FAN	7	3	3	-	4
ATTIC FAN	2	2	-	2	-
WINDOW FAN	29	21	12	9	8
PORTABLE FAN	93	71	39	31	22
WITH NO SUPPLEMENTAL EQUIPMENT USED	486	439	260	179	47
NOT REPORTED	15	14	8	6	1
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	4 198	3 495	2 884	611	703
ALL OCCUPIED HOUSING UNITS	8 603	6 769	5 073	1 696	1 834
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	4 958	3 420	2 314	1 106	1 538
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	3 486	2 445	1 617	828	1 041
ALL WINDOWS COVERED	1 330	1 071	704	367	259
SOME WINDOWS COVERED	366	291	235	56	75
NO WINDOWS COVERED	1 771	1 066	667	399	705
NOT REPORTED	19	17	11	6	2
RENTER OCCUPIED	1 472	974	697	277	498
ALL WINDOWS COVERED	258	190	136	54	68
SOME WINDOWS COVERED	114	86	74	12	28
NO WINDOWS COVERED	1 058	664	465	198	394
NOT REPORTED	42	34	22	12	8
STORM DOORS					
OWNER OCCUPIED	3 486	2 445	1 617	828	1 041
ALL DOORS COVERED	1 333	1 080	758	322	253
SOME DOORS COVERED	539	383	276	107	156
NO DOORS COVERED	1 593	963	568	396	630
NOT REPORTED	21	19	15	4	2
RENTER OCCUPIED	1 472	974	697	277	498
ALL DOORS COVERED	233	186	132	54	47
SOME DOORS COVERED	122	90	78	12	32
NO DOORS COVERED	1 077	666	467	199	411
NOT REPORTED	40	33	20	12	8

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
ATTIC OR ROOF INSULATION					
OWNER OCCUPIED	3 486	2 445	1 617	828	1 041
YES	2 092	1 525	978	547	567
NO	1 129	714	510	204	415
DON'T KNOW	244	187	112	74	57
NOT REPORTED	21	19	16	3	2
RENTER OCCUPIED	1 472	974	697	277	498
YES	349	246	163	84	102
NO	738	428	320	108	311
DON'T KNOW	342	266	192	74	76
NOT REPORTED	43	34	22	12	8
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	3 486	2 445	1 617	828	1 041
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	1 771	1 066	667	399	705
SOME OR ALL WINDOWS COVERED	1 696	1 362	939	423	334
NONE INSTALLED	1 475	1 214	828	386	261
SOME OR ALL INSTALLED	217	144	109	36	72
NOT REPORTED	4	3	2	2	1
NOT REPORTED	19	17	11	6	2
STORM DOORS:					
NO DOORS COVERED	1 593	963	568	396	630
SOME OR ALL DOORS COVERED	1 872	1 463	1 034	428	409
NONE INSTALLED	1 658	1 298	918	381	359
SOME OR ALL INSTALLED	198	149	105	44	49
NOT REPORTED	16	15	12	3	2
NOT REPORTED	21	19	15	4	2
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	1 129	714	510	204	415
WITH ATTIC OR ROOF INSULATION	2 092	1 525	978	547	567
NONE ADDED OR INSTALLED	1 914	1 401	884	517	513
SOME OR ALL ADDED OR INSTALLED	165	113	87	26	52
NOT REPORTED	13	10	7	4	2
DON'T KNOW	244	187	112	74	57
NOT REPORTED	21	19	16	3	2
WALL INSULATION:					
NONE ADDED OR INSTALLED	3 346	2 337	1 537	800	1 008
SOME OR ALL ADDED OR INSTALLED	117	88	64	24	29
NOT REPORTED	23	19	15	5	4
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	3 022	2 050	1 345	705	972
SOME OR ALL ADDED OR INSTALLED	444	378	259	119	66
NOT REPORTED	20	17	13	4	2
OTHER INSULATION:					
NONE ADDED OR INSTALLED	3 340	2 329	1 542	787	1 011
SOME OR ALL ADDED OR INSTALLED	127	97	60	37	30
NOT REPORTED	19	19	15	5	-
RENTER OCCUPIED	1 472	974	697	277	498
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	1 058	664	465	198	394
SOME OR ALL WINDOWS COVERED	372	276	210	67	96
NONE INSTALLED	308	244	187	56	64
SOME OR ALL INSTALLED	60	29	19	10	31
NOT REPORTED	4	4	4	-	1
NOT REPORTED	42	34	22	12	8
STORM DOORS:					
NO DOORS COVERED	1 077	666	467	199	411
SOME OR ALL DOORS COVERED	355	276	210	66	79
NONE INSTALLED	321	254	192	61	67
SOME OR ALL INSTALLED	24	15	11	5	8
NOT REPORTED	10	7	7	-	4
NOT REPORTED	40	33	20	12	8

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
RENTER OCCUPIED--CONTINUED					
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	738	428	320	108	311
WITH ATTIC OR ROOF INSULATION	349	246	163	84	102
NONE ADDED OR INSTALLED	313	229	152	77	84
SOME OR ALL ADDED OR INSTALLED	32	18	11	7	14
NOT REPORTED	4	-	-	-	4
DON'T KNOW	342	266	192	74	76
NOT REPORTED	43	34	22	12	8
WALL INSULATION:					
NONE ADDED OR INSTALLED	1 394	914	656	258	480
SOME OR ALL ADDED OR INSTALLED	16	8	6	2	8
NOT REPORTED	62	52	35	17	9
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	1 334	866	621	245	468
SOME OR ALL ADDED OR INSTALLED	74	55	39	16	19
NOT REPORTED	64	54	37	17	10
OTHER INSULATION:					
NONE ADDED OR INSTALLED	1 383	908	651	257	475
SOME OR ALL ADDED OR INSTALLED	26	14	11	3	12
NOT REPORTED	62	52	35	17	10
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	3 486	2 445	1 617	828	1 041
NO INSULATION ADDED OR INSTALLED	2 616	1 778	1 161	617	838
WITH INSULATION ADDED OR INSTALLED	805	610	415	196	195
LESS THAN $50	316	234	152	82	82
$50 TO $99	95	64	42	22	31
$100 TO $249	117	86	45	41	32
$250 TO $499	91	70	52	18	20
$500 TO $999	41	35	27	8	6
$1,000 OR MORE	72	63	54	10	8
DON'T KNOW	44	32	21	10	13
NOT REPORTED	29	26	21	4	3
MEDIAN	76	82	90	68	63
NOT REPORTED OR DON'T KNOW	65	57	41	16	8
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	91	49	38	11	42
LESS THAN $50	34	11	8	3	23
$50 TO $99	5	3	3	-	2
$100 TO $249	8	1	-	1	8
$250 TO $499	17	12	10	1	6
$500 TO $999	11	11	5	5	1
$1,000 OR MORE	7	5	5	-	2
DON'T KNOW	2	2	2	-	-
NOT REPORTED	6	5	5	-	1
MEDIAN	145	377	...	...	50-
ONLY INSTALLED STORM DOORS	82	58	40	18	23
LESS THAN $50	6	3	3	-	2
$50 TO $99	36	22	13	9	13
$100 TO $249	24	18	12	7	6
$250 TO $499	3	3	2	2	-
$500 TO $999	5	5	5	-	-
$1,000 OR MORE	1	1	-	1	-
DON'T KNOW	2	2	2	-	-
NOT REPORTED	5	4	3	1	2
MEDIAN	93	107	110	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	86	56	40	16	30
LESS THAN $50	17	6	3	3	11
$50 TO $99	10	7	5	2	2
$100 TO $249	13	8	3	5	5
$250 TO $499	19	14	12	2	5
$500 TO $999	5	3	3	-	2
$1,000 OR MORE	4	4	4	-	1
DON'T KNOW	11	7	5	2	4
NOT REPORTED	6	6	5	1	-
MEDIAN	185	246	...	...	...

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	8 603	6 769	5 073	1 696	1 834
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	2 401	1 796	1 192	603	605
DRIVES SELF	1 593	1 225	781	445	368
CARPOOL	487	297	202	94	190
MASS TRANSPORTATION	220	211	167	44	9
BICYCLE, MOTORCYCLE, OR MOPED	16	15	10	4	2
TAXICAB	5	-	-	-	5
WALKS ONLY	63	36	27	10	26
OTHER MEANS	5	3	-	3	2
WORKS AT HOME	12	8	5	4	3
RENTER OCCUPIED	2 732	2 298	1 739	559	434
DRIVES SELF	1 268	1 085	759	326	183
CARPOOL	546	381	259	122	165
MASS TRANSPORTATION	672	665	599	66	7
BICYCLE, MOTORCYCLE, OR MOPED	28	19	16	3	9
TAXICAB	23	17	16	2	6
WALKS ONLY	165	110	76	34	55
OTHER MEANS	9	4	4	1	5
WORKS AT HOME	20	16	11	6	3
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]					
OWNER OCCUPIED	2 401	1 796	1 192	603	605
HOUSEHOLDER DRIVES ALONE	1 593	1 225	781	445	368
IRREGULAR OR UNUSUAL WORK HOURS	421	315	180	135	106
IRREGULAR WORK LOCATION	120	93	54	39	27
CAR NEEDED FOR WORK OR ERRANDS	170	132	89	44	37
DOESN'T KNOW ANYONE TO RIDE WITH	453	331	220	111	122
LIKES PRIVACY	117	107	71	36	10
OUT OF THE WAY TO PICK UP OTHERS	120	98	62	36	22
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	28	24	20	4	4
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	39	32	21	11	7
DOESN'T TRUST OTHERS DRIVING	10	10	7	3	-
SOME OTHER REASON	108	82	56	26	26
NOT REPORTED	8	2	2	-	6
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	808	570	411	159	238
RENTER OCCUPIED	2 732	2 298	1 739	559	434
HOUSEHOLDER DRIVES ALONE	1 268	1 085	759	326	183
IRREGULAR OR UNUSUAL WORK HOURS	325	282	196	86	43
IRREGULAR WORK LOCATION	72	57	44	13	15
CAR NEEDED FOR WORK OR ERRANDS	107	92	58	34	15
DOESN'T KNOW ANYONE TO RIDE WITH	372	311	223	88	61
LIKES PRIVACY	129	113	84	28	16
OUT OF THE WAY TO PICK UP OTHERS	71	62	38	24	8
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	40	33	18	15	7
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	22	22	20	2	-
DOESN'T TRUST OTHERS DRIVING	-	-	-	-	-
SOME OTHER REASON	110	95	62	33	15
NOT REPORTED	20	17	16	2	2
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	1 464	1 213	980	233	251
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	2 401	1 796	1 192	603	605
LESS THAN 1 MILE	147	81	52	28	67
1 TO 4 MILES	482	321	241	80	162
5 TO 9 MILES	524	418	305	113	106
10 TO 19 MILES	621	522	337	185	99
20 TO 29 MILES	217	172	84	88	45
30 TO 49 MILES	112	78	41	37	34
50 MILES OR MORE	57	30	20	10	27
WORKS AT HOME	12	8	5	4	3
NO FIXED PLACE OF WORK	229	166	108	57	63
MEDIAN	9.3	9.9	9.0	12.7	6.9

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLDER: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
DISTANCE FROM HOME TO WORK[1]--CONTINUED					
RENTER OCCUPIED	2 732	2 298	1 739	559	434
LESS THAN 1 MILE	237	142	95	48	95
1 TO 4 MILES	715	580	463	116	135
5 TO 9 MILES	638	578	456	123	59
10 TO 19 MILES	622	561	411	150	62
20 TO 29 MILES	201	180	120	60	21
30 TO 49 MILES	61	43	24	19	18
50 MILES OR MORE	34	22	21	2	11
WORKS AT HOME	20	16	11	6	3
NO FIXED PLACE OF WORK	204	175	139	36	29
MEDIAN	7.4	7.9	7.6	8.8	4.1
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	2 401	1 796	1 192	603	605
LESS THAN 15 MINUTES	541	323	204	119	218
15 TO 29 MINUTES	859	672	456	216	187
30 TO 44 MINUTES	424	364	259	105	60
45 TO 59 MINUTES	182	144	86	58	38
1 HOUR TO 1 HOUR AND 29 MINUTES	96	78	49	29	18
1 HOUR AND 30 MINUTES OR MORE	60	41	27	15	18
WORKS AT HOME	12	8	5	4	3
NO FIXED PLACE OF WORK	229	166	108	57	63
MEDIAN	24.4	25.9	26.0	25.5	19.1
RENTER OCCUPIED	2 732	2 298	1 739	559	434
LESS THAN 15 MINUTES	663	472	331	141	191
15 TO 29 MINUTES	908	774	580	194	134
30 TO 44 MINUTES	487	442	330	112	45
45 TO 59 MINUTES	217	201	166	34	16
1 HOUR TO 1 HOUR AND 29 MINUTES	172	160	131	30	12
1 HOUR AND 30 MINUTES OR MORE	62	57	50	6	5
WORKS AT HOME	20	16	11	6	3
NO FIXED PLACE OF WORK	204	175	139	36	29
MEDIAN	24.7	26.2	26.9	24.0	16.1

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	4 081	3 409	2 008	1 401	672
HOUSE HEATING FUEL					
OWNER OCCUPIED	1 732	1 341	673	668	391
UTILITY GAS	1 239	986	540	446	253
BOTTLED, TANK, OR LP GAS	71	34	2	32	37
FUEL OIL	93	70	38	31	23
KEROSENE, ETC	1	-	-	-	1
ELECTRICITY	280	220	83	137	60
COAL OR COKE	-	-	-	-	-
WOOD	14	5	-	5	9
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	-	-	-	-	-
NONE	34	27	10	16	7
RENTER OCCUPIED	2 349	2 068	1 335	733	282
UTILITY GAS	1 365	1 195	755	440	170
BOTTLED, TANK, OR LP GAS	60	28	2	26	32
FUEL OIL	449	436	381	55	13
KEROSENE, ETC	1	1	-	1	-
ELECTRICITY	330	284	134	150	46
COAL OR COKE	2	2	2	-	-
WOOD	13	7	2	5	6
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	5	5	3	2	-
NONE	126	111	57	54	15
WATER HEATING FUEL[1]					
OWNER OCCUPIED	1 702	1 330	670	660	372
UTILITY GAS	1 238	1 026	568	458	212
BOTTLED, TANK, OR LP GAS	74	34	2	32	40
FUEL OIL	44	38	23	15	7
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	339	227	74	153	112
COAL OR COKE	-	-	-	-	-
WOOD	-	-	-	-	-
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	-	-	-	-	-
NONE	7	5	4	2	2
RENTER OCCUPIED	2 304	2 036	1 325	711	268
UTILITY GAS	1 404	1 237	744	493	167
BOTTLED, TANK, OR LP GAS	51	24	2	22	27
FUEL OIL	447	438	402	36	8
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	374	314	160	154	61
COAL OR COKE	2	2	2	-	-
WOOD	-	-	-	-	-
SOLAR HEAT	3	2	2	-	2
OTHER FUEL	3	3	3	-	-
NONE	20	17	12	6	2
COOKING FUEL					
OWNER OCCUPIED	1 732	1 341	673	668	391
UTILITY GAS	1 044	846	494	351	198
BOTTLED, TANK, OR LP GAS	102	54	5	48	49
FUEL OIL	-	-	-	-	-
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	582	442	173	268	140
COAL OR COKE	-	-	-	-	-
WOOD	3	-	-	-	3
OTHER FUEL	-	-	-	-	-
NONE	-	-	-	-	-
RENTER OCCUPIED	2 349	2 068	1 335	733	282
UTILITY GAS	1 742	1 586	1 085	500	156
BOTTLED, TANK, OR LP GAS	68	36	2	34	32
FUEL OIL	12	12	11	1	-
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	501	410	218	193	91
COAL OR COKE	1	-	-	-	1
WOOD	2	-	-	-	2
OTHER FUEL	3	3	3	-	-
NONE	21	21	16	5	-

[1]LIMITED TO HOUSING UNITS WITH ALL PLUMBING FACILITIES AVAILABLE TO THE OCCUPANTS.

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
MONTHLY COST PAID FOR ELECTRICITY					
SPECIFIED OWNER OCCUPIED[1]	1 502	1 181	595	585	321
ELECTRICITY PAID FOR	1 499	1 181	595	585	319
LESS THAN $10	15	10	7	3	5
$10 TO $19	151	108	51	57	43
$20 TO $29	288	223	109	114	65
$30 TO $39	270	207	110	98	62
$40 TO $49	219	182	88	94	37
$50 TO $59	145	111	48	63	34
$60 TO $79	211	172	91	81	39
$80 TO $99	93	76	45	31	17
$100 TO $149	77	60	35	26	17
$150 OR MORE	31	31	12	19	-
MEDIAN	41	42	42	42	37
NO ELECTRICITY USED	2	-	-	-	2
SPECIFIED RENTER OCCUPIED[2]	2 315	2 056	1 335	720	259
ELECTRICITY PAID FOR	1 789	1 577	1 007	570	212
LESS THAN $10	125	115	70	45	10
$10 TO $19	464	414	246	168	50
$20 TO $29	547	479	339	140	69
$30 TO $39	265	237	163	73	29
$40 TO $49	119	101	57	43	18
$50 TO $59	109	96	59	37	13
$60 TO $79	88	78	38	40	10
$80 TO $99	32	29	21	8	3
$100 TO $149	31	21	10	11	11
$150 OR MORE	8	8	3	5	-
MEDIAN	25	25	25	25	26
INCLUDED IN RENT	520	474	324	150	46
NO ELECTRICITY USED	6	5	5	-	1
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	1 502	1 181	595	585	321
GAS PAID FOR	1 286	1 024	544	481	262
LESS THAN $10	114	87	47	40	27
$10 TO $14	187	162	81	81	24
$15 TO $19	193	165	77	88	27
$20 TO $24	193	151	69	82	43
$25 TO $29	122	90	53	37	32
$30 TO $39	202	161	90	71	40
$40 TO $49	111	86	50	37	24
$50 TO $69	118	87	55	31	31
$70 TO $99	33	26	19	7	6
$100 OR MORE	14	9	2	7	6
MEDIAN	23	23	24	22	26
NO GAS USED	215	156	52	104	59
SPECIFIED RENTER OCCUPIED[2]	2 315	2 056	1 335	720	259
GAS PAID FOR	1 388	1 225	812	413	163
LESS THAN $10	410	383	259	123	28
$10 TO $14	308	285	175	109	23
$15 TO $19	182	156	106	50	26
$20 TO $24	137	113	64	48	24
$25 TO $29	109	89	64	26	20
$30 TO $39	93	79	56	23	15
$40 TO $49	60	49	27	22	11
$50 TO $69	46	35	32	3	11
$70 TO $99	24	21	15	6	4
$100 OR MORE	18	17	13	4	1
MEDIAN	14	13	13	13	21
INCLUDED IN RENT	690	625	422	204	65
NO GAS USED	237	205	101	104	31

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	1 502	1 181	595	585	321
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	149	112	48	65	36
LESS THAN $100	50	41	22	19	10
$100 TO $199	22	18	7	11	4
$200 TO $299	10	6	2	4	5
$300 TO $399	5	4	-	4	1
$400 TO $499	8	3	-	3	5
$500 TO $599	7	7	3	3	-
$600 TO $699	1	1	-	1	-
$700 TO $799	6	5	2	3	1
$800 OR MORE	40	28	12	16	11
MEDIAN	222	187	131	267	296
FUELS NOT USED OR FREE	1 353	1 068	548	521	285
SPECIFIED RENTER OCCUPIED[2]	2 315	2 056	1 335	720	259
FUEL OIL, KEROSENE, COAL, WOOD, ETC., PAID FOR	61	52	33	18	9
LESS THAN $100	16	14	8	5	2
$100 TO $199	12	11	8	2	1
$200 TO $299	3	3	-	3	-
$300 TO $399	6	3	2	2	2
$400 TO $499	6	4	2	2	2
$500 TO $599	-	-	-	-	-
$600 TO $699	2	2	2	-	-
$700 TO $799	2	2	2	-	-
$800 OR MORE	15	14	10	4	1
MEDIAN	281	252	...	...	...
INCLUDED IN RENT	686	639	523	116	47
FUELS NOT USED OR FREE	1 568	1 365	779	586	203
ALL OCCUPIED HOUSING UNITS	4 081	3 409	2 008	1 401	672
HEATING EQUIPMENT					
OWNER OCCUPIED	1 732	1 341	673	668	391
WARM-AIR FURNACE	770	609	269	341	161
HEAT PUMP	47	47	10	36	1
STEAM OR HOT WATER	112	87	58	30	25
BUILT-IN ELECTRIC UNITS	68	52	32	20	16
FLOOR, WALL, OR PIPELESS FURNACE	326	274	128	147	52
ROOM HEATERS WITH FLUE	107	71	50	21	36
ROOM HEATERS WITHOUT FLUE	187	123	86	38	64
FIREPLACES, STOVES, OR PORTABLE HEATERS	81	51	31	20	30
NONE	34	27	10	16	7
RENTER OCCUPIED	2 349	2 068	1 335	733	282
WARM-AIR FURNACE	473	405	225	180	68
HEAT PUMP	27	27	14	13	-
STEAM OR HOT WATER	655	638	559	79	17
BUILT-IN ELECTRIC UNITS	109	87	30	57	23
FLOOR, WALL, OR PIPELESS FURNACE	535	485	244	242	49
ROOM HEATERS WITH FLUE	165	130	68	62	35
ROOM HEATERS WITHOUT FLUE	186	129	97	32	57
FIREPLACES, STOVES, OR PORTABLE HEATERS	73	56	41	15	17
NONE	126	111	57	54	15
FIREPLACES AND HEATING STOVES					
OWNER OCCUPIED	1 732	1 341	673	668	391
HOUSING UNITS WITH HEATING EQUIPMENT	1 698	1 314	663	652	384
WITH FIREPLACE OR HEATING STOVE	529	432	201	231	98
IN WORKING ORDER	491	395	177	218	96
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	338	260	98	162	78
ALL PURCHASED	107	90	36	54	17
SOME OR NONE PURCHASED	226	165	62	103	61
NOT REPORTED	5	5	-	5	-
COAL	-	-	-	-	-
OTHER FUEL	68	60	35	26	7
NONE	82	71	42	29	11
NOT REPORTED	3	3	2	2	-
NOT IN WORKING ORDER	39	37	24	13	2
NOT REPORTED	-	-	-	-	-
WITHOUT FIREPLACE OR HEATING STOVE	1 167	883	462	421	284
NOT REPORTED	2	-	-	-	2
HOUSING UNITS WITH NO HEATING EQUIPMENT	34	27	10	16	7

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
FIREPLACES AND HEATING STOVES--CONTINUED					
RENTER OCCUPIED	2 349	2 068	1 335	733	282
HOUSING UNITS WITH HEATING EQUIPMENT	2 223	1 957	1 278	679	267
WITH FIREPLACE OR HEATING STOVE	203	174	107	67	29
IN WORKING ORDER	164	140	88	52	24
MAIN FUEL USED IN FIREPLACE OR HEATING STOVE DURING LAST 12 MONTHS:					
WOOD OR WOOD BYPRODUCTS	71	52	26	27	18
ALL PURCHASED	30	23	10	13	7
SOME OR NONE PURCHASED	39	28	14	14	11
NOT REPORTED	2	2	2	-	1
COAL	-	-	-	-	-
OTHER FUEL	64	60	44	15	5
NONE	28	27	18	9	1
NOT REPORTED	1	1	-	1	-
NOT IN WORKING ORDER	36	32	17	14	5
NOT REPORTED	2	2	2	-	1
WITHOUT FIREPLACE OR HEATING STOVE	2 011	1 773	1 164	609	238
NOT REPORTED	10	10	7	3	-
HOUSING UNITS WITH NO HEATING EQUIPMENT	126	111	57	54	15
ALL OCCUPIED HOUSING UNITS	4 081	3 409	2 008	1 401	672
UNITS OCCUPIED LAST WINTER	3 265	2 730	1 612	1 119	534
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	1 610	1 248	630	618	361
WITH SPECIFIED HEATING EQUIPMENT[1]	1 323	1 061	507	554	262
NO ADDITIONAL HEAT SOURCE USED	1 207	971	465	505	236
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	100	79	36	43	20
NOT REPORTED	17	11	5	6	6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	287	187	123	64	99
RENTER OCCUPIED	1 655	1 482	982	500	173
WITH SPECIFIED HEATING EQUIPMENT[1]	1 391	1 275	836	438	116
NO ADDITIONAL HEAT SOURCE USED	1 115	1 031	648	383	85
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	241	216	170	45	25
NOT REPORTED	34	28	18	10	6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	264	207	145	62	57
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	1 610	1 248	630	618	361
WITH SPECIFIED HEATING EQUIPMENT[1]	1 323	1 061	507	554	262
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	869	702	341	361	166
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	435	346	162	184	89
1 ROOM	88	63	32	30	25
2 ROOMS	126	102	48	54	24
3 ROOMS OR MORE	222	181	82	100	40
NOT REPORTED	19	12	4	9	7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	287	187	123	64	99
RENTER OCCUPIED	1 655	1 482	982	500	173
WITH SPECIFIED HEATING EQUIPMENT[1]	1 391	1 275	836	438	116
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	928	858	607	251	70
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	429	391	212	179	38
1 ROOM	145	131	79	53	14
2 ROOMS	156	141	66	75	15
3 ROOMS OR MORE	127	118	67	51	9
NOT REPORTED	34	26	18	9	8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	264	207	145	62	57
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	1 610	1 248	630	618	361
WITH SPECIFIED HEATING EQUIPMENT[1]	1 323	1 061	507	554	262
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	287	187	123	64	99
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	231	153	108	45	78
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	42	26	9	17	16
NOT REPORTED	14	9	7	2	5

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
UNITS OCCUPIED LAST WINTER--CONTINUED					
INSUFFICIENT HEAT--CONTINUED					
HOUSING UNIT UNCOMFORTABLY COLD--CONTINUED					
RENTER OCCUPIED	1 655	1 482	982	500	173
WITH SPECIFIED HEATING EQUIPMENT[1]	1 391	1 275	836	438	116
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	264	207	145	62	57
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	188	147	106	42	40
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	66	52	33	19	14
NOT REPORTED	11	8	6	2	3
ALL OCCUPIED HOUSING UNITS	4 081	3 409	2 008	1 401	672
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	1 732	1 341	673	668	391
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	114	78	41	36	37
WITH SELECTED HEATING EQUIPMENT[2]	1 617	1 263	632	632	354
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 511	1 176	585	591	335
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	103	84	45	39	19
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	11	6	4	2	5
FIREPLACE, BURNING WOOD OR COAL	20	19	7	12	2
PORTABLE ELECTRIC HEATER	55	44	23	21	11
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	16	16	12	3	-
OTHER	7	5	4	2	2
NOT REPORTED	3	3	2	2	-
RENTER OCCUPIED	2 349	2 068	1 335	733	282
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	199	167	98	69	32
WITH SELECTED HEATING EQUIPMENT[2]	2 150	1 901	1 237	664	249
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 003	1 763	1 130	633	240
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	139	130	101	29	9
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	3	2	-	2	1
FIREPLACE, BURNING WOOD OR COAL	3	3	2	2	-
PORTABLE ELECTRIC HEATER	111	106	85	21	5
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	16	13	10	3	3
OTHER	8	8	7	2	-
NOT REPORTED	9	9	6	3	-
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]					
OWNER OCCUPIED	1 695	1 325	666	658	370
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	1 672	1 306	657	648	366
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13	11	6	6	2
NOT REPORTED	10	8	3	4	2
RENTER OCCUPIED	2 281	2 017	1 312	705	264
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	2 256	1 994	1 292	702	262
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5	5	3	1	-
NOT REPORTED	20	18	16	2	2
AIR CONDITIONING					
OWNER OCCUPIED	1 732	1 341	673	668	391
WITH AIR CONDITIONING	890	720	354	366	171
ROOM UNITS	465	386	224	162	79
1	275	225	122	103	50
2	144	121	83	38	23
3	34	29	16	13	5
4	10	9	4	6	1
5 OR MORE	2	2	-	2	-
CENTRAL SYSTEM	425	334	129	204	92
WITH NO AIR CONDITIONING	842	622	319	302	220

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
AIR CONDITIONING--CONTINUED					
RENTER OCCUPIED	2 349	2 068	1 335	733	282
WITH AIR CONDITIONING	782	679	381	298	103
ROOM UNITS	474	410	249	162	63
1	367	312	196	116	55
2	91	84	46	38	7
3	11	10	5	6	1
4	2	2	2	-	1
5 OR MORE	2	2	-	2	-
CENTRAL SYSTEM	309	269	132	137	40
WITH NO AIR CONDITIONING	1 567	1 389	954	434	178
SUPPLEMENTAL COOLING EQUIPMENT					
OWNER OCCUPIED	1 732	1 341	673	668	391
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	425	334	129	204	92
WITH SUPPLEMENTAL EQUIPMENT USED	170	119	44	75	51
INDIVIDUAL ROOM AIR CONDITIONING UNIT	20	12	5	7	8
AWNINGS	8	8	2	6	1
DEHUMIDIFIER	7	7	4	3	-
CEILING FAN	51	36	12	24	15
ATTIC FAN	41	31	9	22	10
WINDOW FAN	6	6	4	2	-
PORTABLE FAN	83	50	20	31	33
WITH NO SUPPLEMENTAL EQUIPMENT USED	247	208	84	124	39
NOT REPORTED	8	7	2	5	2
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	1 307	1 008	544	464	299
RENTER OCCUPIED	2 349	2 068	1 335	733	282
HOUSING UNITS WITH CENTRAL AIR CONDITIONING	309	269	132	137	40
WITH SUPPLEMENTAL EQUIPMENT USED	51	40	19	21	11
INDIVIDUAL ROOM AIR CONDITIONING UNIT	4	3	3	-	1
AWNINGS	3	2	-	2	1
DEHUMIDIFIER	2	2	-	2	-
CEILING FAN	2	-	-	-	2
ATTIC FAN	2	2	-	2	-
WINDOW FAN	5	4	-	4	1
PORTABLE FAN	39	28	16	12	11
WITH NO SUPPLEMENTAL EQUIPMENT USED	249	221	110	110	28
NOT REPORTED	9	9	3	6	-
HOUSING UNITS WITH ROOM UNITS OR NO AIR CONDITIONING	2 041	1 799	1 203	596	242
ALL OCCUPIED HOUSING UNITS	4 081	3 409	2 008	1 401	672
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 365	1 807	872	935	559
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	1 606	1 223	601	623	382
ALL WINDOWS COVERED	299	199	90	109	100
SOME WINDOWS COVERED	120	78	39	39	41
NO WINDOWS COVERED	1 182	942	468	473	241
NOT REPORTED	5	5	3	2	-
RENTER OCCUPIED	760	583	271	312	176
ALL WINDOWS COVERED	64	48	22	26	17
SOME WINDOWS COVERED	29	14	8	6	15
NO WINDOWS COVERED	613	482	222	260	130
NOT REPORTED	53	39	20	19	14
STORM DOORS					
OWNER OCCUPIED	1 606	1 223	601	623	382
ALL DOORS COVERED	241	147	74	73	94
SOME DOORS COVERED	139	93	58	35	46
NO DOORS COVERED	1 221	978	466	513	243
NOT REPORTED	5	5	3	2	-
RENTER OCCUPIED	760	583	271	312	176
ALL DOORS COVERED	42	30	18	12	12
SOME DOORS COVERED	25	17	12	5	8
NO DOORS COVERED	636	494	220	274	141
NOT REPORTED	56	42	21	21	14

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
ATTIC OR ROOF INSULATION					
OWNER OCCUPIED	1 606	1 223	601	623	382
YES	1 017	743	348	395	274
NO	468	381	211	169	88
DON'T KNOW	115	94	36	58	21
NOT REPORTED	5	5	5	-	-
RENTER OCCUPIED	760	583	271	312	176
YES	161	119	60	58	42
NO	313	256	107	149	57
DON'T KNOW	231	168	85	83	62
NOT REPORTED	55	41	20	21	14
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	1 606	1 223	601	623	382
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	1 182	942	468	473	241
SOME OR ALL WINDOWS COVERED	418	277	129	148	142
NONE INSTALLED	334	223	114	109	111
SOME OR ALL INSTALLED	84	54	15	39	30
NOT REPORTED	-	-	-	-	-
NOT REPORTED	5	5	3	2	-
STORM DOORS:					
NO DOORS COVERED	1 221	978	466	513	243
SOME OR ALL DOORS COVERED	380	240	132	109	140
NONE INSTALLED	327	210	114	96	118
SOME OR ALL INSTALLED	51	29	17	12	22
NOT REPORTED	2	2	-	2	-
NOT REPORTED	5	5	3	2	-
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	468	381	211	169	88
WITH ATTIC OR ROOF INSULATION	1 017	743	348	395	274
NONE ADDED OR INSTALLED	888	651	313	337	238
SOME OR ALL ADDED OR INSTALLED	114	80	33	46	34
NOT REPORTED	15	13	2	12	2
DON'T KNOW	115	94	36	58	21
NOT REPORTED	5	5	5	-	-
WALL INSULATION:					
NONE ADDED OR INSTALLED	1 528	1 170	574	596	358
SOME OR ALL ADDED OR INSTALLED	69	45	19	26	24
NOT REPORTED	8	8	7	2	-
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	1 417	1 087	530	557	330
SOME OR ALL ADDED OR INSTALLED	184	131	67	65	53
NOT REPORTED	5	5	3	2	-
OTHER INSULATION:					
NONE ADDED OR INSTALLED	1 519	1 161	572	589	357
SOME OR ALL ADDED OR INSTALLED	81	55	24	32	25
NOT REPORTED	7	7	5	2	-
RENTER OCCUPIED	760	583	271	312	176
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	613	482	222	260	130
SOME OR ALL WINDOWS COVERED	94	62	30	32	32
NONE INSTALLED	77	57	25	32	20
SOME OR ALL INSTALLED	16	5	5	-	11
NOT REPORTED	1	-	-	-	1
NOT REPORTED	53	39	20	19	14
STORM DOORS:					
NO DOORS COVERED	636	494	220	274	141
SOME OR ALL DOORS COVERED	67	47	30	17	21
NONE INSTALLED	62	46	30	16	16
SOME OR ALL INSTALLED	5	1	-	1	4
NOT REPORTED	-	-	-	-	-
NOT REPORTED	56	42	21	21	14

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED					
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
RENTER OCCUPIED--CONTINUED					
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	313	256	107	149	57
WITH ATTIC OR ROOF INSULATION	161	119	60	58	42
NONE ADDED OR INSTALLED	148	108	59	50	39
SOME OR ALL ADDED OR INSTALLED	11	9	2	7	2
NOT REPORTED	2	2	-	2	1
DON'T KNOW	231	168	85	83	62
NOT REPORTED	55	41	20	21	14
WALL INSULATION:					
NONE ADDED OR INSTALLED	692	535	249	286	157
SOME OR ALL ADDED OR INSTALLED	5	4	3	1	1
NOT REPORTED	62	44	20	25	18
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	673	520	247	273	153
SOME OR ALL ADDED OR INSTALLED	24	20	5	15	4
NOT REPORTED	62	43	20	23	19
OTHER INSULATION:					
NONE ADDED OR INSTALLED	688	533	249	284	155
SOME OR ALL ADDED OR INSTALLED	11	7	3	3	5
NOT REPORTED	61	44	20	25	16
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	1 606	1 223	601	623	382
NO INSULATION ADDED OR INSTALLED	1 237	966	483	484	271
WITH INSULATION ADDED OR INSTALLED	351	241	111	130	109
LESS THAN $50	147	97	41	57	50
$50 TO $99	40	23	15	8	16
$100 TO $249	45	29	14	16	15
$250 TO $499	33	28	14	14	5
$500 TO $999	34	26	16	10	8
$1,000 OR MORE	27	20	4	17	6
DON'T KNOW	19	12	7	5	7
NOT REPORTED	7	5	2	3	2
MEDIAN	69	81	84	75	53
NOT REPORTED OR DON'T KNOW	18	16	7	9	3
ONLY INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	35	22	5	17	13
LESS THAN $50	18	9	3	5	9
$50 TO $99	5	4	2	2	1
$100 TO $249	3	3	-	3	-
$250 TO $499	3	3	-	3	-
$500 TO $999	2	2	-	2	-
$1,000 OR MORE	2	2	-	2	-
DON'T KNOW	2	-	-	-	2
NOT REPORTED	1	-	-	-	1
MEDIAN	...	...	...	...	...
ONLY INSTALLED STORM DOORS	19	12	10	2	7
LESS THAN $50	3	2	2	-	1
$50 TO $99	9	3	3	-	6
$100 TO $249	6	5	4	2	1
$250 TO $499	1	1	1	-	-
$500 TO $999	-	-	-	-	-
$1,000 OR MORE	-	-	-	-	-
DON'T KNOW	-	-	-	-	-
NOT REPORTED	-	-	-	-	-
MEDIAN	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	51	37	18	19	14
LESS THAN $50	5	3	-	3	3
$50 TO $99	6	4	2	3	2
$100 TO $249	10	7	4	3	3
$250 TO $499	16	12	5	7	4
$500 TO $999	4	4	2	3	-
$1,000 OR MORE	3	2	2	-	1
DON'T KNOW	4	4	2	2	1
NOT REPORTED	3	2	2	-	1
MEDIAN	264	...	...	...	...

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS	4 081	3 409	2 008	1 401	672
HOUSEHOLDER'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	1 310	1 034	509	526	276
DRIVES SELF	946	755	367	388	191
CARPOOL	279	209	104	105	69
MASS TRANSPORTATION	46	43	24	19	2
BICYCLE, MOTORCYCLE, OR MOPED	15	9	5	4	6
TAXICAB	1	1	-	1	-
WALKS ONLY	9	5	2	3	4
OTHER MEANS	3	3	2	2	-
WORKS AT HOME	11	8	5	2	3
RENTER OCCUPIED	1 549	1 356	841	515	194
DRIVES SELF	769	654	353	301	114
CARPOOL	331	285	164	121	46
MASS TRANSPORTATION	256	256	228	28	-
BICYCLE, MOTORCYCLE, OR MOPED	23	22	10	12	1
TAXICAB	2	2	2	-	-
WALKS ONLY	132	110	69	41	22
OTHER MEANS	5	3	2	2	1
WORKS AT HOME	33	24	14	10	9
MAIN REASON HOUSEHOLDER DRIVES ALONE TO WORK[1]					
OWNER OCCUPIED	1 310	1 034	509	526	276
HOUSEHOLDER DRIVES ALONE	946	755	367	388	191
IRREGULAR OR UNUSUAL WORK HOURS	276	220	110	110	56
IRREGULAR WORK LOCATION	102	87	46	41	15
CAR NEEDED FOR WORK OR ERRANDS	136	114	60	55	22
DOESN'T KNOW ANYONE TO RIDE WITH	242	189	82	108	52
LIKES PRIVACY	55	43	17	26	11
OUT OF THE WAY TO PICK UP OTHERS	55	37	21	16	18
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	11	11	5	6	1
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	25	22	14	8	2
DOESN'T TRUST OTHERS DRIVING	1	1	-	1	-
SOME OTHER REASON	40	26	10	16	14
NOT REPORTED	3	3	2	2	-
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	364	280	142	137	85
RENTER OCCUPIED	1 549	1 356	841	515	194
HOUSEHOLDER DRIVES ALONE	769	654	353	301	114
IRREGULAR OR UNUSUAL WORK HOURS	186	156	92	63	30
IRREGULAR WORK LOCATION	65	56	27	29	10
CAR NEEDED FOR WORK OR ERRANDS	99	73	45	28	26
DOESN'T KNOW ANYONE TO RIDE WITH	248	223	110	113	25
LIKES PRIVACY	38	34	19	15	4
OUT OF THE WAY TO PICK UP OTHERS	45	37	20	17	8
RIDERS REQUIRE EXTRA WAITING OR ARE NOT DEPENDABLE	5	5	5	1	-
CAR WANTED FOR EMERGENCIES OR OCCASIONAL OVERTIME	14	11	5	6	3
DOESN'T TRUST OTHERS DRIVING	4	4	4	-	-
SOME OTHER REASON	61	53	24	29	8
NOT REPORTED	5	3	3	-	2
OTHER PRINCIPAL MEANS OF TRANSPORTATION OR WORKS AT HOME	781	701	487	214	80
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	1 310	1 034	509	526	276
LESS THAN 1 MILE	87	46	25	21	41
1 TO 4 MILES	279	194	104	90	86
5 TO 9 MILES	238	209	117	93	29
10 TO 19 MILES	303	263	112	151	40
20 TO 29 MILES	108	86	36	51	22
30 TO 49 MILES	88	69	31	37	19
50 MILES OR MORE	34	26	19	7	8
WORKS AT HOME	11	8	5	2	3
NO FIXED PLACE OF WORK	162	133	60	73	28
MEDIAN	9.3	9.9	9.0	11.4	4.8

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLDER OF SPANISH ORIGIN: 1980--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE, SEE TEXT. FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)

UNITED STATES TOTAL	TOTAL	INSIDE SMSA'S			OUTSIDE SMSA'S
		TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	
ALL OCCUPIED HOUSING UNITS--CONTINUED					
DISTANCE FROM HOME TO WORK[1]--CONTINUED					
RENTER OCCUPIED	1 549	1 356	841	515	194
LESS THAN 1 MILE	194	150	89	62	43
1 TO 4 MILES	370	312	202	109	59
5 TO 9 MILES	313	293	176	118	20
10 TO 19 MILES	296	277	183	94	19
20 TO 29 MILES	118	111	64	47	7
30 TO 49 MILES	51	38	20	18	13
50 MILES OR MORE	23	21	17	4	2
WORKS AT HOME	33	24	14	10	9
NO FIXED PLACE OF WORK	151	129	76	53	21
MEDIAN	6.9	7.4	7.4	7.3	3.6
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	1 310	1 034	509	526	276
LESS THAN 15 MINUTES	386	258	142	116	128
15 TO 29 MINUTES	440	377	186	191	63
30 TO 44 MINUTES	166	135	57	78	31
45 TO 59 MINUTES	79	67	23	44	13
1 HOUR TO 1 HOUR AND 29 MINUTES	37	31	17	14	5
1 HOUR AND 30 MINUTES OR MORE	30	24	18	7	5
WORKS AT HOME	11	8	5	2	3
NO FIXED PLACE OF WORK	162	133	60	73	28
MEDIAN	21.2	22.4	21.3	23.5	15.0-
RENTER OCCUPIED	1 549	1 356	841	515	194
LESS THAN 15 MINUTES	434	343	178	166	90
15 TO 29 MINUTES	499	453	280	172	46
30 TO 44 MINUTES	232	218	146	72	13
45 TO 59 MINUTES	83	78	54	24	4
1 HOUR TO 1 HOUR AND 29 MINUTES	89	81	69	12	8
1 HOUR AND 30 MINUTES OR MORE	30	29	24	6	1
WORKS AT HOME	33	24	14	10	9
NO FIXED PLACE OF WORK	151	129	76	53	21
MEDIAN	22.4	23.5	25.5	20.2	15.0-

[1]LIMITED TO HOUSEHOLDERS WHO REPORTED HAVING A JOB THE WEEK PRIOR TO INTERVIEW.

Appendix A

Area Classifications, Definitions and Explanations of Subject Characteristics, and Facsimile of the Annual Housing Survey Questionnaire: 1980

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- Counties App-2
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AREA CLASSIFICATIONS

Urban and rural residence—Urban housing comprises all housing units in urbanized areas and in places of 2,500 inhabitants or more outside urbanized areas. More specifically, urban housing consists of all housing units in (a) places of 2,500 inhabitants or more incorporated as cities, villages, boroughs (except Alaska), and towns (except in the New England States, New York, and Wisconsin), but excluding those housing units in the rural portions of extended cities; (b) unincorporated places of 2,500 inhabitants or more; and (c) other territory, incorporated or unincorporated, included in urbanized areas. Housing units not classified as urban constitute rural housing. Information on the historical development of the urban-rural definition appears in the 1970 Population Census PC(1)-A reports.

In the Annual Housing Survey, the urban and rural residence classification of the housing units is the same as in the 1970 census.

Farm-nonfarm residence—In rural areas, occupied housing units are subdivided into rural-farm housing, which comprises all rural units on farms, and rural-nonfarm housing, which comprises the remaining rural units. Occupied housing units are classified as farm units if they are located on places of 10 or more acres from which sales of farm products amounted to $50 or more during the 12-month period prior to the interview or on places of less than 10 acres from which sales of farm products amounted to $250 or more during the 12-month period prior to the interview. Occupied units in rural territory which do not meet the definition for farm housing are classified as nonfarm. All vacant units in rural areas also are classified as nonfarm.

Counties—The primary divisions of most of the States are termed counties; in Louisiana, the corresponding areas are termed parishes. Alaska has no counties; in this State, areas designated as census divisions have been defined for general statistical purposes by the State in cooperation with the Census Bureau and are treated as county equivalents. Four States (Maryland, Missouri, Nevada, and Virginia) contain one or more cities that are independent of any county; for statistical purposes, these independent cities are treated as county equivalents.

Standard metropolitan statistical areas—The definitions of standard metropolitan statistical areas (SMSA's) used in the Annual Housing Survey correspond to the 243 SMSA's used in the 1970 census. These include the 228 SMSA's defined and named in the Bureau of the Budget publication, *Standard Metropolitan Statistical Areas: 1967,* U.S. Government Printing Office, Washington, D.C. 20402. After 1967, 15 SMSA's were added, of which 2 were defined in January 1968, and an additional 13 were defined in February 1971 as a result of the 1970 census. Changes in SMSA definition criteria, boundaries, and titles made after February 1971 are not reflected in this series of reports. SMSA's are defined by the Office of Management and Budget (formerly Bureau of the Budget).

Except in the New England States, an SMSA is a county or group of contiguous counties which contains at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. In addition to the county or counties containing such a city or cities, contiguous counties are included in an SMSA if, according to certain criteria, they are socially and economically integrated with the central city. In the New England States, SMSA's consist of towns and cities instead of counties. Each SMSA must include at least one central city, and the complete title of an SMSA identifies the central city or cities. For a detailed description of the criteria used in defining SMSA's, see the Bureau of the Budget publication cited in the preceding paragraph.

In this report, figures for "in central cities" refer to all housing units within the legal city boundaries. For a few central cities, the figures include some housing units in parts of the city classified as rural in the 1970 census.

DEFINITIONS AND EXPLANATIONS OF SUBJECT CHARACTERISTICS

General

As stated in the introduction, the 1980 Annual Housing Survey was conducted by personal interview. The survey interviewers were instructed to read the questions directly from the questionnaire. The definitions and explanations given for each subject are, to a considerable extent, drawn from various technical and procedural materials used in the collection of the data. This material helped the field interviewers to understand more fully the intent of each question and thus to resolve problems or unusual cases. Additional explanatory information has been added to this portion of the text to assist the user in understanding the statistics.

Comparability with 1973 through 1979 Annual Housing Surveys—Most of the concepts and definitions used in the 1973 through 1980 reports are essentially the same. However, there are significant differences in the measurement of housing losses between the 1973 report and the 1974 through 1980 reports. In the 1974 through 1980 reports, the data refer to losses of individual housing units. Also, in 1973, a housing unit was counted as a loss only when the whole structure in which the unit was located was lost from the inventory. In addition, the source of the 1970 data in the 1974 through 1980 reports is the 1970 census unpublished tabulations; however, the 1970 data in the 1973 report are from both published and unpublished tabulations.

Additional differences, if any, are discussed under the particular subject later in the section. Because of the relatively small sample size, particular care should be taken in making year to year comparisons, especially where there are small differences between the figures (see appendix B).

Comparability with 1970 Census of Housing data—The concepts and definitions are essentially the same for items that appear in both the 1970 census and the 1980 survey.

There is a major difference, however, in the time period of the "recent mover" classification (see parts D and E of this series). In the Annual Housing Survey, "recent movers" are households that moved into their unit during the 12 months prior to the interview, a time period of 1 year or less. In the 1970 Census of Housing reports, different time periods were used. In Volume II, *Metropolitan Housing Characteristics,* the shortest time period for "year moved into unit," is 1969 to March 1970 (1 1/4 years); in Volume IV, *Components of Inventory Change,* the period is 1969 to December 1970 (approximately 2 years); and in Volume VII, No. 5, *Mover Households,* the time period is April 1965 to March 1970 (approximately 5 years).

Other definitional differences, if any, are discussed under the particular subject. Additional differences between the 1980 Annual Housing Survey data and the 1970 census data may be attributed to several factors. These include the extensive use of self-enumeration in the census in contrast to personal interview in the Annual Housing Survey; differences in processing procedures; the estimation procedures and sample designs; the sampling variability of the estimates from the Annual Housing Survey; to a smaller extent, the sampling variability associated with the sample data from the census; the nonsampling errors associated with the Annual Housing Survey estimates; and the nonsampling errors associated with the census data.

Statistics on counts and characteristics of changes in the housing inventory between the 1960 and 1970 censuses are given for the United States and for 15 selected SMSA's in the 1970 Census of Housing, Volume IV, *Components of Inventory Change.* In volume IV, the data are based on information for a sample of housing units enumerated in late 1970 as part of the 1970 census. Data are provided for such components of change between 1960 and 1970 as new construction, conversions, other additions, demolitions, mergers, other losses, and housing units that were the same in 1960 and in 1970.

In parts A and E of this series, data for some of these components are shown; i.e., new construction, demolition (or disaster), and other losses (some other means). The 1980 data on new construction were obtained primarily from a sample of units selected from building permits. The 1970 *Components of Inventory Change* data were obtained from the 1970 census tabulations of the year-structure-built item; i.e., housing units built in 1960 or later were classified as added by new construction.

Data as of 1971 for mortgage status, real estate taxes last year, and selected monthly housing costs are presented in the 1970 Census of Housing, Volume V, *Residential Finance.* In volume V, the data are based on information collected for a sample of housing units in the Residential Finance Survey which was conducted in 1971 as part of the 1970 census. The 1971 report provided data on financing homeowner and rental properties, including characteristics of the mortgages, properties, and owners.

Differences in the concepts and definitions between the data in this report and volume V include the following. The basic unit of tabulation in this report is the housing unit; in volume V, it is the property. Data on mortgage in this report are based on the occupant's answer; in volume V, mortgage status was verified by the lender. In this report, real estate taxes and selected monthly housing costs reflect the total amount of real estate taxes and housing costs, excluding special assessments. In volume V, the tabulations for real estate taxes and selected monthly housing costs *include* special assessments.

Comparability with 1980 Census of Housing data—Most of the concepts and definitions are the same for items that appear in both the 1980 census and the 1980 Annual Housing Survey (AHS).

There are two significant differences, however, in the housing unit definition. First, in the 1980 AHS, the housing unit definition requires a unit to be separate living quarters, having either direct access or complete kitchen facilities. For the 1980 census, the complete kitchen facilities alternative was dropped with direct access required of all units. Second, in the 1980 census, vacant mobile homes are included in the housing inventory provided they are intended for occupancy on the site where they stand. In the 1980 AHS, all vacant mobile homes are excluded from the housing inventory.

There are several other major differences between the 1980 census and the 1980 AHS. In the 1980 AHS, living arrangements containing five or more persons, not related to the person in charge, were classified as group quarters. In the 1980 census, the requirement was raised to nine or more persons not related to the person in charge.

Owner-occupied cooperatives were identified in the 1980 AHS. These units were not identified separately in the 1980 census, but were included in the overall count of owner-occupied units. The 1980 census will provide data on vacant-for-rent and renter-occupied condominium units.

Additionally, in the 1980 AHS, complete plumbing facilities and telephone available need only to be located in the structure in which the housing unit is located. In the 1980 census, these items must be inside the specific housing unit. Other definitional differences are discussed under the particular subject.

Additional differences between the 1980 AHS data and the 1980 census data may be attributed to several factors. These include the extensive use of self enumeration in the census in contrast to personal interview in the Annual Housing Survey; differences in processing procedures; the estimation procedures and sample designs; the sampling variability of the estimates from the Annual Housing Survey; to a smaller extent, the sampling variability associated with the sample data from the census; the nonsampling errors associated with the Annual Housing Survey estimates; and the nonsampling errors associated with the census data.

Comparability with 1970 and 1980 Censuses of Population data—In the 1970 and 1980 censuses, data for years of school completed were based on responses to two questions: the highest grade or year of regular school each household member attended, and whether or not that grade or year was completed. In the 1980 AHS, data for years of school completed were based on responses to a single question: the highest grade or year of regular school completed by the householder. There-

fore, the 1980 AHS may overstate the education level of the householder; that is, respondents may have reported the grade or year the householder was currently enrolled in or had last been enrolled in whether or not the grade or year was completed.

Other definitional differences, if any, are discussed under the particular subject.

Comparability with other current reports—This series of reports contains information similar to that contained in some of the other current Census Bureau reports, such as the Current Housing Report, *Housing Vacancies,* the Current Population Reports, and the Current Construction Reports, published by the Bureau of the Census. Because of procedural differences, care should be taken when comparing data from the Annual Housing Survey with data from other current surveys.

Comparability with Housing Vacancy Survey—Data on vacancy rates and characteristics of vacant units from the Housing Vacancy Survey are available for the United States by inside and outside standard metropolitan statistical areas. This nationwide survey, with a sample size of approximately 78,000 units (interviews obtained for approximately 70,000 occupied and vacant housing units), is conducted monthly by the Bureau of the Census in conjunction with its Current Population Survey. Data are published quarterly and annually in Current Housing Reports, Series H-111, *Housing Vacancies.*

The concepts and definitions used in the 1980 Annual Housing Survey and the Housing Vacancy Survey are the same. Differences may be attributed to factors such as sampling variability, nonsampling errors, survey techniques, and processing procedures.

Current Population Reports from the Current Population Survey—The Current Population Survey is a monthly sample survey of approximately 78,000 designated sample units. From the data collected in the Current Population Survey, the Bureau issues several publications under the general title Current Population Reports. Included are reports on household and family characteristics, mobility of the population, and income.

Although the concepts and definitions used in this report are essentially the same as those used in the Current Population Reports, and the intent of both the Annual Housing Survey and the Current Population Survey is the same, there is a major difference in the concept of "mover." In parts D and E, householders that moved into their units during the 12 months prior to the interview are classified as "recent movers." In the Current Population Survey, individuals whose current place of residence is different from that of March 1970 are classified as "movers."

There also may be significant differences in the data on income and years of school completed. The time period covering income data in this series of reports refers to the 12 months prior to the date of the interview, while the time period for income data in the Current Population Survey refers to the calendar year prior to the date of the interview. There are also significant differences in the way income questions are asked. For "years of school completed by householder," the difference cited in the section, "comparability with 1970 and 1980 Censuses of Population data," also applies to the Current Population Survey.

Additional differences between the 1980 Annual Housing Survey and the Current Population Survey may be attributed to factors such as the sampling variability and nonsampling errors of the figures from the two surveys, survey procedures and techniques, and processing procedures.

Current Population Reports from the Survey of Purchases and Ownership—The 1974 Survey of Purchases and Ownership is a sample survey covering approximately 20,000 of the designated sample units in the 1974 Annual Housing Survey. Data were collected on ownership, availability, and recent purchases of automobiles and other vehicles, television sets, and selected major household appliances. Information on the price paid is obtained for recently purchased items. The data can be obtained by writing to the Director, Bureau of the Census, Washington, D.C. 20233.

Although the Survey of Purchases and Ownership was taken in conjunction with the Annual Housing Survey, there are differences in the concepts and definitions between the two. For example, the data on automobiles and other four-wheel vehicles, such as pickup trucks and passenger vans, collected in the Survey of Purchases and Ownership reflect the number of such vehicles that are owned or being bought by a member of the family. The data collected in the Annual Housing Survey reflect the number of automobiles and trucks owned or regularly used by any member of the household, including nonrelatives. Additional differences may be attributed to such factors as estimation procedures, sampling variability, and nonsampling errors.

Current Construction Reports from the Survey of Construction and Survey of Residential Alterations and Repairs—The Census Bureau issues several publications under the general title, "Current Construction Reports." The data for these reports are primarily from the Survey of Construction and Survey of Residential Alterations and Repairs.

The Survey of Construction consists of approximately 16,000 permit-issuing places throughout the United States. The reports from the survey contain current data on housing starts and completions, construction authorized by building permits, housing units authorized for demolition in permit-issuing places, new one-unit structures sold and for sale, characteristics of new housing, and value of new construction put in place. The concepts and definitions used in this report differ from some of those used in the Survey of Construction. The major difference is that the Survey of Construction shows counts and characteristics of housing units in various stages of construction through completion. The Annual Housing Survey shows counts and characteristics of the existing housing inventory. Additional differences between the 1980 Annual Housing Survey and the Survey of Construction may be attributed to factors such as the sampling variability and nonsampling errors of the figures from the two surveys, survey procedures and techniques, and processing procedures.

The survey of Residential Alterations and Repairs is a sample survey of approximately 4,500 designated owner-occupied properties. Data are collected on expenditures by property owners for upkeep and improvement of residential properties including renter-occupied housing units, single as well as multi-unit structures, and units on 10 acres or more. The data on alterations and repairs in this report are restricted to one-unit structures on less than 10 acres and no business on property. For additional information on the Survey of Residential Alterations and Repairs, see Current Construction Reports, Series C50, *Residential Alterations and Repairs.*

Living Quarters

Living quarters are classified as either housing units or group quarters. Usually, living quarters are in structures intended for residential use (e.g., a single-family home, apartment house, hotel or motel, boarding house, or mobile home or trailer). Living quarters may also be in structures intended for non-residential use (e.g., the rooms in a warehouse where a watchman lives), as well as in places such as tents, caves, and old railroad cars.

Housing units—A housing unit is a house, an apartment, a group of rooms, or a single room occupied or intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants do not live and eat with any other persons in the structure and which have either (1) direct access from the outside of the building or through a common hall which is used or intended to be used by the occupants of another unit or by the general public or (2) complete kitchen facilities for the exclusive use of the occupants. The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements (except as described in the section on group quarters). For vacant units, the criteria of separateness, direct access, and complete kitchen facilities for exclusive use are applied to the intended occupants whenever possible. If the information cannot be obtained, the criteria are applied to the previous occupants. Both occupied and vacant housing units are included in the housing inventory, except that mobile homes, trailers, tents, caves, boats, railroad cars, and the like, are included only if they are occupied.

Group quarters—Group quarters are living arrangements for institutional inmates or for other groups containing five or more persons not related to the person in charge. Group quarters are located most frequently in institutions, boarding houses, military barracks, college dormitories, fraternity and sorority houses, hospitals, monasteries, convents, and ships. A house or apartment is considered group quarters if it is shared by the person in charge and five or more nonrelatives or, if there is no person in charge, by six or more unrelated persons. Information on the housing characteristics of group quarters was not collected.

Rules for mobile homes, hotels, rooming houses, etc.—Mobile homes or trailers, tents, boats, or railroad cars are not considered housing units if vacant, used only for business, or used only for vacations.

Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; i.e., persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only if located in hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from everyone else in the building and have either direct access or complete kitchen facilities for exclusive use, their quarters are classified as separate housing units. The remaining quarters are combined. If the combined quarters contain four or fewer roomers unrelated to the householder, they are classified as one housing unit; if the combined quarters contain five or more roomers unrelated to the householder or person in charge, they are classified as group quarters. In a dormitory, residence hall, or similar place, living quarters of the supervisory staff and other employees are separate housing units if they satisfy the housing unit criteria; other living quarters are considered group quarters.

Institutions—Living quarters of staff personnel are separate housing units if they satisfy the housing unit criteria. Other living quarters are considered group quarters.

Year-round housing units—Data on housing characteristics are limited to year-round housing units; i.e., all occupied units plus vacant units which are intended for year-round use. Vacant units intended for seasonal occupancy and vacant units held for migratory labor are excluded because it is difficult to obtain reliable information for them. However, this report does present counts of the total housing inventory which includes all vacant, seasonal, and migratory housing units.

The statistics in the 1974 through 1980 reports shown for "all year-round housing units" may not be comparable to the corresponding data shown in the 1973 reports, because the 1974 through 1980 tabulations included an estimation procedure which adjusted the survey counts of "vacant year-round" and "vacant—seasonal and migratory" units separately to independent current estimates. (See section on "Estimation" in appendix B.) In 1973, "vacant—seasonal and migratory" units were combined with several categories of year-round vacancies (rented or sold, not occupied; held for occasional use; and other vacant) and adjusted to the combined total of the independent estimates for these categories. Thus, the 1974 through 1980 data for "vacant—seasonal and migratory" housing units and for "all year-round housing units" adhere more closely to the independently derived current estimates than they did in 1973. The 1974 through 1980 characteristics for "all occupied units," "owner occupied," and "renter occupied" are, however, comparable with the corresponding 1973 data.

Changes in the Housing Inventory

Units added by new construction—A housing unit built in April 1970 or later is classified as a unit added by "new construction." Information was collected on vacant units under construction at the time of the interview only if construction had proceeded to the point that all exterior windows and doors were installed and final usable floors were in place. Housing units built during this period but removed from the housing inventory before the interview are not reflected in the new construction counts for the 1970 to 1980 period. In the Annual Housing Survey, data on new construction were obtained primarily from a sample of units selected from building permits; in the 1970 Census of Housing, Volume IV, *Components of Inventory Change,* new construction data were obtained from tabulations of the 1970 census sample records of units built 1960 or later.

Units lost from the inventory—Characteristics are presented for the total of all units removed from the 1973 housing inventory in 1973 or later through demolition or disaster and through other means. Separate counts of "demolition or disaster" losses and of "other losses" are shown in part A of this series. The 1974 through 1980 surveys cover all losses, including those in structures that were not completely lost.

Units lost through demolition or disaster—A housing unit which existed in October 1973 and was torn down on the initiative of a public agency or as a result of action on the part of the owner is classified as a unit lost through demolition. Units destroyed by fire, flood, or other natural causes are classified as units lost through disaster. In the 1973 survey, a housing unit was counted as a demolition or disaster loss when the whole structure in which it was located was lost from the inventory. In the 1974 through 1980 surveys and in the 1970 Census of Housing, Volume IV, *Components of Inventory Change,* the data on losses refer to all housing unit losses, including losses of units in structures which still contained one or more housing units. In addition, units lost through disaster were counted in 1970 as "units lost through other means."

Units lost through other means—Any housing unit which existed in October 1973 is counted as lost through other means when it was lost from the housing inventory through means other than demolition or disaster. This component includes the following types of losses:

1. Units lost by change to group quarters; for example, a housing unit that was occupied by a family in 1973 and by a family and five lodgers at the time of the 1980 survey.
2. Units lost from the inventory because they are vacant and either the roof, walls, doors, or windows no longer protect the interior from the elements or the unit is severely damaged by fire.
3. Vacant units lost from the inventory because there is positive evidence (sign, notice, mark on the house or block) that the units are scheduled for demolition or rehabilitation or that they are condemned for reasons of health or safety so that further occupancy is prohibited.
4. Units lost by change to entirely nonresidential use.
5. Units moved from site since October 1973. Such moves in the same area do not necessarily result in a net loss from the total inventory since they presumably represent units added in the place to which they were moved.

In the 1973 AHS, a housing unit was counted as lost through other means when the entire structure in which it was located was lost to the housing inventory through means other than demolition or disaster. In the 1974 through 1980 surveys, the data on losses refer to all housing unit losses including losses of units in structures which still contained one or more housing units.

Unspecified units—There are other components of change in the housing inventory for which the Annual Housing Survey provides no specific measures. The survey procedures do not include a measure of conversions and mergers and units added from other sources such as nonresidential structures. The net effect of these omissions on the change in the total housing inventory is not known.

Units changed by conversion—Conversion refers to the creation of two or more housing units from fewer units through structural alteration or change in use. Structural alteration includes such changes as adding a room or installing partitions to form another housing unit. Change in use is a simple rearrangement in the use of space without structural alteration, such as locking a door which closes off one or more rooms to form a separate housing unit.

Units changed by merger—A merger is the result of combining two or more housing units into fewer units through structural alteration or change in use. Structural alteration includes such changes as the removal of partitions or dismantling of kitchen facilities. Change in use may result from a simple rearrangement of space without structural alteration, such as unlocking a door which formerly separated two housing units. A change in use also occurs, for example, when a family occupies both floors of a house which formerly contained a separate housing unit on each floor.

Units added through other sources—Any housing unit added to the inventory through sources other than new construction or conversion is classified as a unit added through other sources. This component includes units created from living quarters previously classified as group quarters and units created from nonresidential space such as a store, garage, or barn. Also included are units moved from one site to another. Such units, if moved within the same area, do not necessarily result in a net addition to the total inventory since they presumably represent units lost in the place from which they were moved. A previously vacant mobile home or trailer, whether on a different site or the same site, is a net addition if currently occupied as a housing unit.

Occupancy and Vacancy Characteristics

Population in housing units—Included are all persons living in housing units. Persons living in group quarters are excluded.

Occupied housing units—A housing unit is classified as occupied if a person or group of persons is living in it at the time of the interview or if the occupants are only temporarily absent—for example, on vacation. However, if the unit was occupied entirely by persons with a usual place of residence elsewhere, the unit is classified as vacant. By definition, the count of occupied housing units is the same as the count of households.

Race—The classification of "race" refers to the race of the householder occupying the housing unit. However, the concept of race as used by the Census Bureau does not denote clear-cut scientific definitions of biological stock. The interviewer was to report the race of the householder in three categories: White, Black (Negro), and other. The last category includes American Indian, Chinese, Eskimo, Japanese, Korean, and any other race except White and Black. Figures on tenure are given separately for White and Black householders; units with householders of other races are included in the total in table 1 of parts A and E and may be derived by subtracting the sum of White and Black from the total. More detailed characteristics of units with Black householder are presented in separate tables. The classification of race in the Annual Housing Survey was made by the interviewer based on his own observation. In the 1970 and 1980 censuses, race was essentially a self-classification by people according to the race with which they identified themselves.

Spanish origin—The classification "Spanish origin" refers to the origin of the householder occupying the housing unit. Detailed characteristics of units with householder of Spanish origin are presented in separate tables. Spanish origin was determined on the basis of a question that asked for self-identification of a person's origin or descent. Respondents were asked to select their origins from a "flash card." Persons of Spanish origin were those who indicated that their origin was either Mexican American, Chicano, Mexican, Mexicano, Puerto Rican, Cuban, Central or South American, or other Spanish.

Care should be exercised in the interpretation of differences in the estimated counts of Spanish-origin households between the 1980 Annual Housing Survey, the 1970 census, 1980 census, and other current surveys. In the 1970 census and current surveys' reports, Spanish persons are identified according to various criteria: Birthplace, birthplace of parents, language, surname, and origin or descent. In addition, research indicates that 1970 estimates of Spanish-origin households may be significantly overstated in the South Region and North Central Region. In the 1980 census the categories are essentially the same as the 1980 AHS, except the category "Central or South American" has been dropped.

Tenure—A housing unit is "owner occupied" if the owner or co-owner lives in the unit, even if it is mortgaged or not fully paid for. A cooperative or condominium unit is "owner occupied" only if the owner or co-owner lives in it. All other occupied units are classified as "renter occupied," including units rented for cash rent and those occupied without payment of cash rent.

Site tenure—Separate data are available on tenure of mobile home and trailer sites. Site tenure for owner-occupied mobile homes and trailers is restricted to mobile homes and trailers on less than 10 acres. The site is owned if the occupants own or are buying the site on which the mobile home is located. The site is considered rented if the occupants pay a rental fee for the use of the site, the site rent is paid by someone not living in the sample housing unit, or the occupants neither own nor pay cash rent for the site.

Previous occupancy—The classification of previous occupancy is divided into two categories, "previously occupied" and "not previously occupied." "Previously occupied" indicates that some person or persons occupied the sample housing unit prior to the householder's or other related household member's occupancy. "Not previously occupied" indicates that either the householder or some other current household member related to the householder by blood, marriage, or adoption was the *first* occupant of the sample unit.

Cooperatives and condominiums—A cooperative is a type of ownership whereby a group of housing units is owned by a corporation of member-owners. Each individual member is entitled to occupy an individual housing unit and is a shareholder in the corporation which owns the property.

A condominium is a type of ownership that enables a person to own an apartment or house in a project of similarly owned units. The owner has the deed and very likely the mortgage on the unit occupied. The owner may also hold common or joint ownership in some or all common areas such as grounds, hallways, entrances, elevators, etc.

Cooperative or condominium ownership may apply to various types of structures including single-family houses, rowhouses, townhouses, etc., as well as apartment buildings.

Duration of occupancy—Data on "duration of occupancy" are based on information for the householder; the data refer to the period when present occupancy began. Statistics are shown on whether the householder lived in the housing unit "less than 3 months" or "3 months or longer." A householder who "lived here last winter," must have moved into the unit prior to the previous February.

Year householder moved into unit—The data are based on the information reported for the householder and refer to the year of latest move. Thus, if the householder moved back into a housing unit previously occupied, the year of the latest move was to be reported; if the householder moved from one apartment to another in the same building, the year the householder moved into the present housing unit was to be reported. The intent is to establish the year the present occupancy by the householder began. The year the householder moves is not necessarily the same year other members of the household move, although in the great majority of cases, the entire household moves at the same time.

Prior to 1980, data on year moved into unit was collected for the head of household. For an explanation, see the definition of householder on page App-17.

Recent movers—Households that moved into their present housing units within 12 months prior to the date of the interview are termed "recent movers." The household is classified by year moved into unit on the basis of information reported for the householder.

Present and previous units of recent movers—The "present" unit is the housing unit occupied by the recent mover householder at the time of the interview. The "previous" unit is the unit from which the householder moved. If the householder moved more than once during the 12 months prior to the date of the interview, the "previous" unit is the one from which the householder last moved.

Same or different householder—Characteristics of the present and previous units occupied by recent movers are largely restricted to households that were essentially the same in the two housing units. The definitions of the characteristics for the previous unit are generally the same as those for the present unit.

A household for which the householder in the present unit is the same person as the householder in the previous unit (identified in the tables as "same householder") is considered essentially the same even though there may have been some changes in the composition of the household. Conversely, a household in which there was no change except for a new householder was considered a household with "different householder."

Data for householders whose previous residence was outside the United States are tabulated in the category "different householder."

Main reason for move from previous residence—The statistics presented are restricted to housing units occupied by recent movers in which the present householder was also the householder at the previously occupied unit. The classification categories refer to the principal reason the householder moved from the previous unit. The category "job related reasons" refers to reasons such as job transfer, looking for work, take a new job, entered or left U.S. Armed Forces, retirement, commuting reasons, school attendance, and other job related reasons.

The category "family status" refers to reasons such as needed larger house or apartment, divorced or separated, widowed, to be closer to relatives, newly married, family increased in size, family decreased in size, to establish own household, schools, wanted neighborhood with children, wanted neighborhood without children, and other family related reasons.

The category "housing needs" refers to reasons such as wanted to own his/her own residence, neighborhood overcrowded, change in racial or ethnic composition of neighborhood, wanted better neighborhood, lower rent or less expensive house, wanted better house, displaced by urban renewal, highway construction, or other public activity, displaced by private action, wanted to rent residence, wanted residence with more conveniences, and occurrence of natural disaster.

The category "other reasons" includes crime, wanted change of climate and other reasons for moving which do not fall into any of the above classifications.

Main reason for move into present residence or neighborhood—The statistics presented are restricted to housing units occupied by recent movers in which the present householder was also the householder at the previously occupied unit. The classification categories refer to the principal reason the householder moved into the present unit. The category "job related reasons" refers to job transfer, to look for work, to take a new job, entered U.S. Armed Forces, retirement, commuting reasons, school attendance, and other job related reasons.

The category "family status" refers to reasons such as needed larger house or apartment, to be closer to relatives, wanted neighborhood with children, wanted neighborhood without children, and schools.

The category "housing needs" refers to reasons such as neighborhood less crowded, racial or ethnic composition of neighborhood, wanted better neighborhood, wanted more expensive place or better investment, residence with more conveniences, lower rent or less expensive house, and other housing needs.

The category "other reasons" includes low crime, change of climate, and other reasons for move into present neighborhood which do not fall into any of the above classifications.

Home ownership—Data are shown for householders who, during the 12 months prior to their interview, moved into the sample housing unit. These data are restricted to owner-occupied units and show the number of previously owned units which the householder occupied as his/her usual place of residence. Excluded from the count of previously owned units are vacation homes purchased for rental or commercial purposes.

Vacant housing units—A housing unit is vacant if no one is living in it at the time of the interview, unless its occupants are only temporarily absent. In addition, a vacant unit may be one which is occupied entirely by persons who have a usual residence elsewhere.

New units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final usable floors are in place. Vacant units are excluded if the roof, walls, windows, or doors no longer protect the interior from the elements, if the unit is severely damaged by fire, or if there is positive evidence (such as a sign on the house or block) that the unit is to be demolished or is condemned. Also excluded are quarters being used entirely for nonresidential purposes, such as a store or an office; or quarters used for the storage of business supplies or inventory, machinery, or agricultural products.

The concepts and definitions of vacant housing units used in this report are the same as those used in the 1970 Census of Housing reports.

Vacancy status—Vacant housing units are classified as either "seasonal and migratory" or "year-round." "Seasonal" units are intended for occupancy during only certain seasons of the year. Included are units intended for recreational use, such as beach cottages and hunting cabins, and vacant units held for herders and loggers. "Migratory" units are vacant units held for occu-

pancy by migratory labor employed in farm work during the crop season.

"Year-round" vacant housing units are available or intended for occupancy at any time of the year. A unit in a resort area which is usually occupied on a year-round basis is considered year-round. A unit used only occasionally throughout the year is also considered year-round.

"Year-round" vacant units are subdivided as follows:

For sale only—Vacant year-round units "for sale only" also include vacant units in a cooperative or condominium project if the individual units are offered for sale only.

For rent—Vacant year-round units "for rent" also include vacant units offered either for rent or for sale.

Rented or sold, not occupied—If any money rent has been paid or agreed upon but the new renter has not moved in as of the date of the interview, or if the unit has recently been sold but the new owner has not yet moved in, the year-round vacant unit is classified as "rented or sold, not occupied."

Held off market—A housing unit which is neither for sale nor for rent, or rented or sold not occupied, is classified as held off market. Included are units held for occasional use, units temporarily occupied by persons with a usual residence elsewhere, and other vacants.

Held for occasional use—This category consists of vacant year-round units which are held for weekend or other occasional use throughout the year. The intent of this question was to identify homes reserved by their owners as second homes. Because of the difficulty of distinguishing between this category and seasonal vacancies, it is possible that some "second homes" are classified as "seasonal" and vice versa.

Temporarily occupied by URE (persons with usual residence elsewhere)—If all the persons in a housing unit usually live elsewhere, that unit is classified as vacant, provided the usual place of residence is held for the household and is not offered for rent or for sale. For example, a beach cottage occupied at the time of the interview by a family who has a usual place of residence in the city is included in the count of vacant units. If the house in the city were in the survey sample, it would be reported "occupied" and would be included in the count of occupied units since the occupants are only temporarily absent.

Other vacant—If a vacant year-round unit does not fall into any of the classifications specified in the distribution, it is classified as "other vacant." For example, this category includes units held for settlement of an estate, units held for occupancy by a caretaker or janitor, and units held for personal reasons of the owner. If separate distributions are not presented for "held for occasional use" or "temporarily occupied by URE" housing units, these categories are also included.

Characteristics of vacant housing are limited to year-round vacant units. Vacant units intended for seasonal occupancy and vacant units held for migratory labor are excluded because it is difficult to obtain reliable information for them. However, counts of seasonal units are given in parts A and E of this report series.

The 1974 through 1980 counts for "seasonal and migratory," "year-round, rented or sold not occupied," "year-round, held for occasional use," and "year-round, other vacant" may not be comparable to the corresponding counts shown in the 1973 reports, because a more detailed estimation procedure was used in the 1974 through 1980 tabulations. For 1974 through 1980, the estimation procedure adjusted the survey counts of "vacant year-round" and "vacant—seasonal and migratory" units separately to independent current estimates. (See section on "Estimation" in appendix B.) In 1973, "vacant—seasonal and migratory" units were combined with several categories of year-round vacancies (rented or sold not occupied; held for occasional use; and other vacant) and were adjusted to the combined total of the independent estimates for these categories. Thus, the 1974 through 1980 data for vacant units adhere more closely to the independent estimates than the 1973 data.

Homeowner vacancy rate—The 1980 homeowner vacancy rate is the number of year-round vacant units for sale as a percent of the total homeowner inventory; i.e., all owner-occupied units and year-round vacant units for sale or sold, not occupied. The homeowner vacancy rate for 1970 excludes vacant units sold but not occupied.

Rental vacancy rate—The 1980 rental vacancy rate is the number of year-round vacant units for rent as a percent of the total rental inventory; i.e., all renter-occupied units and all year-round vacant units for rent or rented, not occupied. The rental vacancy rate for 1970 excludes vacant units rented but not occupied.

Duration of vacancy—The statistics on duration of vacancy refer to the length of time (in months) from the date the last occupants moved from the unit to the date of the interview. The data, therefore, do not provide a direct measure of the total length of time units remain vacant. For newly constructed units which have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date conversion or merger was completed. Units occupied entirely by persons with usual place of residence elsewhere are excluded from the data.

Housing unit boarded up—Statistics for this item are only provided for vacant housing units. "Boarded up" refers to the covering of windows and doors by wood, metal, or similar materials to prevent entry into the housing unit. A one-unit structure or a given housing unit in a multiunit structure may be boarded up. This item was collected by interviewer observation.

Utilization Characteristics

Persons—All persons occupying the housing unit are counted. These persons include not only occupants related to the householder but also any lodgers, roomers, boarders, partners, wards, foster children, and resident employees who share the living quarters of the householder. (Prior to 1980, head of household was used, see definition of householder on page App-17). The data on "persons" show categories of the number of one-person through seven-or-more-person households by the number of housing units.

A person is counted at the usual place of residence for that person. This refers to the place where the person lives and sleeps most of the time. This place is not necessarily the same as a legal residence, voting residence, or domicile.

Rooms—The statistics on "rooms" are for the number of housing units with specified number of rooms. Rooms counted include whole rooms used for living purposes, such as living rooms, dining rooms, bedrooms, kitchens, finished attic or basement rooms, recreation rooms, permanently enclosed porches that are suitable for year-round use, and lodger's rooms. Also included are rooms used for offices by a person living in the unit.

A partially divided room, such as a dinette next to a kitchen or living room, is a separate room only if there is a partition from floor to ceiling, but not if the partition consists only of shelves or cabinets.

Not included in the count of rooms are bathrooms, halls, foyers or vestibules, balconies, closets, alcoves, pantries, strip or pullman kitchens, laundry or furnace rooms, unfinished attics or basements, other unfinished space used for storage, open porches, trailers used only as bedrooms, and offices used only by persons not living in the unit.

If a room is used by occupants of more than one unit, the room is included with the unit from which it is most easily reached.

Persons per room—"Persons per room" is computed for each occupied housing unit by dividing the number of persons in the unit by the number of rooms in the unit. The figures shown refer, therefore, to the number of housing units having the specified ratio of persons per room.

Bedrooms—The number of bedrooms in a housing unit is the count of rooms used mainly for sleeping, even if also used for other purposes. Rooms reserved for sleeping, such as guest rooms, even though used infrequently, are counted as bedrooms. On the other hand, rooms used mainly for other purposes, even though used also for sleeping, such as a living room with a hide-away bed, are not considered bedrooms. A housing unit consisting of only one room, such as a one-room efficiency apartment, is classified by definition as having no bedroom.

Data on bedrooms lacking privacy are shown for housing units with two or more bedrooms. Housing units have bedrooms lacking privacy when it is necessary to pass through a bedroom to get to another room, such as a den, and/or to get to the bathroom. The bathroom access criterion is applied only to units with one complete bathroom or one bathroom plus a half bath in which the half bath lacks a flush toilet.

Structural Characteristics

Conventional housing units—Housing units not defined as mobile homes or trailers by this survey are classified as conventional.

Complete kitchen facilities—A unit has complete kitchen facilities when it has all three of the following for the exclusive use of the occupants of the unit: (1) An installed sink with piped water, (2) a range or cookstove, and (3) a mechanical refrigerator. All kitchen facilities must be located in the structure. They need not be in the same room. Quarters with only portable cooking equipment are not considered as having a range or cookstove. An icebox is not included as a mechanical refrigerator.

The kitchen facilities are for the exclusive use of the occupants when they are used only by the occupants of one housing unit, including lodgers or other unrelated persons living in the unit. When a structure consists of only one housing unit, all equipment located inside the structure is classified, by definition, for exclusive use.

For vacant units from which one or all of the kitchen facilities had been removed, the kitchen facilities used by the last occupant were to be reported.

Basement—Statistics on basements are based on the number of housing units located in structures built with a basement. A structure has a basement if there is enclosed space in which persons can walk upright under all or part of the building.

Year structure built—"Year structure built" refers to when the building was first constructed, not when it was remodeled, added to, or converted. The figures refer to the number of units in structures built during the specified periods and in existence at the time of the interview. For mobile homes and trailers, the manufacturer's model year was assumed to be the year built. Statistics are based on the respondent's estimate and are, therefore, subject to the respondent's ability to properly classify the year built for the building.

Units in structure—In determining the number of housing units in a structure, all units, both occupied and vacant, were counted. The statistics are presented for the number of housing units in structures of specified type and size, not by the number of residential structures.

A structure is a separate building if it has either open space on all sides or is separated from other structures by dividing walls that extend from ground to roof. Structures containing only one housing unit are further classified as detached or attached.

A one-unit structure is detached if it has open space on all four sides even though it has an adjoining shed or garage. A one-unit structure is attached if it has one or more walls extending from ground to roof which divide it from other adjoining structures, such as in rowhouses, townhouses, etc.

Mobile homes and trailers are shown as a separate category. When one or more rooms have been added to a mobile home or trailer, it is classified as a one-unit structure. If, however, only a porch or shed has been added, it is still counted as a mobile home or trailer.

Elevator in structure—Statistics on "elevator in structure" are for the number of housing units in structures with four floors or

more which have a passenger elevator. Units are in a "walkup" structure of four floors or more if the structure has no passenger elevator or if the only elevator service is for freight.

Insulation—Statistics on insulation are presented separately by whether or not the housing unit has any of three categories of insulation (storm windows, storm doors, and attic or roof insulation) and by whether any of six categories of insulation (storm windows, storm doors, attic or roof insulation, wall insulation, caulking or weather stripping, and other insulation) were added to the housing unit during the 12 months prior to the time of interview. The purpose of these types of insulation is to reduce heat loss during the winter and heat gain during the summer. The statistics are shown only for occupied one-unit structures and occupied mobile homes and trailers.

Storm windows or other protective window covering—This category refers to protective window covering, such as storm windows, double-glazed glass closeable shutters, or plastic. Housing units with "some windows covered" have protective coverings over some, but not all windows.

Storm doors—This category refers to additional doors hung in exterior doorways. Doors on attached garages are not included. Housing units with "some doors covered" have storm doors on some, but not all, exterior door openings.

Attic or roof insulation—This category includes roll or blanket insulation encased in a paper covering, fiberglass batting, and loose insulation which is poured or blown between the attic floor joists.

Wall insulation—This category refers to any type of fiber, foam, or loose insulation in exterior walls of the housing unit. Data are only available for wall insulation added during the 12 months prior to the time of interview.

Caulking or weather stripping of exterior doors or windows—The statistics for caulking or weather stripping are presented only for housing units to which they were added in the 12 months prior to the time of interview. "Caulking" refers to a putty type material used to close cracks or air spaces which permit heat loss in the winter or heat gain in the summer. "Weather stripping" refers to the application of a thin strip of metal, felt, or wood, etc., to the joint of a door or window sash, the jamb, and casing or sill, which seals tight against air passage.

Other insulation—This item refers to any type of home insulation other than those mentioned above, such as the insulating of hot water pipes or hot water heater, or the insulating of floors or crawl spaces. The data for this item are only available when the "other insulation" was added in the 12 months prior to the time of interview.

Insulation added or installed during last 12 months—This item presents data on insulation added or installed during the 12 months prior to the time of interview. For definition of the types of insulation added or installed, see "insulation."

Cost of insulation added or installed during last 12 months—This item refers to the total cost of insulation added or installed to the housing unit in the 12 months prior to the time of interview. These cost figures include any charges paid for insulation. For definitions of the insulation types, see "insulation."

In group of 6 or more mobile homes—Mobile homes and trailers that are gathered close together are considered to be in a "group." This may be a large mobile home park containing many units or it may be a small number grouped together on a single site or adjacent sites.

Roof—Housing units "with signs of water leakage" are those in which the roof shows signs of water having leaked in from the outside or where the roof leaks when it rains. "No signs of water leakage" means that the roof shows no signs of water having leaked in from the outside, or that the roof shows signs of water leakage but the problem causing the leakage has been corrected. If the signs or water leakage are caused by a problem inside the structure such as faulty plumbing, the unit was classified as having no signs of water leakage.

Interior walls and ceilings—Statistics are presented on whether or not there are open cracks or holes and broken plaster or peeling paint on the interior ceilings or walls of a housing unit. Included are cracks or holes that do not go all the way through to the next room or to the outdoors. Hairline cracks or cracks that appear in the walls or ceilings but are not large enough for a fingernail file to be inserted in and very small holes caused by nails or other similar objects are not considered to be open cracks or holes.

Broken plaster or peeling paint must be on the inside walls or ceilings, and at least one area of the broken plaster or peeling paint must be approximately one square foot or larger.

Interior floors—Data are shown on whether there are holes in the interior floors of a housing unit. The holes do not have to go through the floor. Excluded are very small holes caused by nails or other similar objects.

Boarded-up buildings on same street—Statistics on boarded-up buildings on the same street are based on the interviewer's observation from the main entrance of the building in which the sample unit is located. Buildings are classified as boarded up if they are abandoned, permanently vacant, and show severe signs of neglect; have most of their visible windows broken or missing; or have their windows and doors covered by wood, metal, or some other similar material to prevent entry.

Overall opinion of structure—The data presented are based on the respondent's overall opinion of his house or building as a place to live. The respondent was asked to rate the structure as excellent, good, fair, or poor.

Common stairways—The statistics on common stairways are presented for housing units in two-or-more-unit structures with

common stairways. The figures for "loose steps" and "loose railings" reflect the physical condition of the stairway; i.e., whether there are loose, broken, or missing steps or stair railings. Common stairways are stairways which are usually used by the occupants of more than one housing unit or by the general public. They may be either inside the structure or attached to the outside of the building.

Light fixtures in public halls—The statistics on light fixtures in public halls are presented for housing units in structures of two or more units with public halls which have light fixtures, and whether the light fixtures are in working order. Light fixtures include wall lights, ceiling lights, or table lamps in the public halls of the building. Public halls are used by the occupants of more than one unit or by the general public.

Electric wiring—A housing unit is classified as having exposed electric wiring if the unit has any wiring that is not enclosed, either in the walls or in metal coverings, or if the wiring is outside the walls but enclosed in some material other than metal. Extension cords and other types of wiring that extend from a wall outlet to an appliance or lamp are not considered as exposed wiring.

Electric wall outlets—A housing unit is classified as having electric wall outlets in each room if there is at least one working electric wall outlet or wall plug in each room of the unit. A working electric wall outlet or wall plug is one that is in operating condition; i.e., can be used when needed. If a room does not have an electric wall outlet, an extension cord used in place of a wall outlet is not considered to be an electric wall outlet.

Electric fuse blowouts—These statistics are for occupied housing units which have had an electric circuit fuse blown or breaker switch tripped during the 3 months prior to the interview. The data are restricted to households whose householder has been at the present address for at least 90 days prior to the date of the interview. A blown fuse or tripped breaker switch results in the temporary loss of electricity until the fuse is replaced or the breaker switch reset. Blown fuses inside certain appliances or equipment (such as some large air conditioners) are counted as "fuse or switch blowouts."

Plumbing Characteristics

Plumbing facilities—The category "with all plumbing facilities" consists of housing units which have hot and cold piped water inside the structure as well as a flush toilet and a bathtub or shower inside the structure for the exclusive use of the occupants of the housing unit. All plumbing facilities must be located in the structure but they need not be in the same room. "Lacking some or all plumbing facilities" means that the unit does not have all three specified plumbing facilities (hot and cold piped water, flush toilet, and bathtub or shower) inside the structure, or that the toilet or bathing facilities are also for the use of the occupants of other housing units.

Complete bathrooms—A housing unit is classified as having a complete bathroom if it has a room with a flush toilet and bathtub or shower and a washbasin, as well as piped hot water in the structure for the exclusive use of the occupants of the unit. A half bathroom has either a flush toilet or a bathtub or shower for exclusive use, but does not have all the facilities for a complete bathroom.

The category "also used by another household" consists of units with bathroom facilities which are also for the use of the occupants of other housing units.

The category "none" consists of units with no bathroom facilities, units with only a half bathroom, and units with all bathroom facilities but not in one room.

Source of water or water supply—"A public system or private company" refers to a common source supplying running water to six or more housing units. The water may be supplied by a city, county, water district, or private water company, or it may be obtained from a well which supplies six or more housing units. If a well provides water for five or fewer housing units, it is classified as an "individual well." Water sources such as springs, creeks, rivers, cisterns, ponds, or lakes are included in the "other" category.

Sewage disposal—A "public sewer" is connected to a city, county, sanitary district, neighborhood, or subdivision sewer system. It may be operated by a governmental body or private organization. A "septic tank or cesspool" is an underground tank or pit used for disposal of sewage. Small sewage treatment plants, which in some localities are called neighborhood septic tanks, are classified as public sewers. Units for which sewage is disposed of in some other way are included in the "other" category.

Equipment, Fuels, and Services

Telephone available—A housing unit is classified as having a telephone if there is one available to the occupants of the unit for receiving calls. The telephone may be located outside or inside the housing unit, and one telephone may serve the occupants of several units. The number of housing units with a telephone available, therefore, does not indicate the number of telephones installed in homes.

Heating equipment—"Warm-air furnace" refers to a central system which provides warm air through ducts leading to various rooms. A "heat pump" refers to an electric all-in-one heating-cooling system which utilizes indoor and outdoor coils, a refrigerant, and a compressor to provide heating in the winter and cooling in the summer. Only heat pumps that are centrally installed with ducts to the rooms are included in this category. "Steam or hot water" refers to a central heating system in which heat from steam or hot water is delivered through radiators or other outlets. "Built-in electric units" are permanently installed in floors, walls, ceilings, or baseboards. A "floor, wall, or pipeless furnace" delivers warm air to the room right above the furnace or to the room(s) on one or both sides of the wall in which the furnace is installed.

"Room heaters with flue" include circulating heaters, convectors, radiant gas heaters, and other nonportable heaters that burn gas, oil, kerosene, or other liquid fuels, and connect to a flue, vent, or chimney to remove smoke and fumes. "Room heaters without flue" include any room heater (not portable) that burns gas, oil, or kerosene and does not connect to a flue, vent, or chimney. "Fireplaces, stoves, or portable heaters" include room heaters that burn coal, coke, charcoal, wood or other solids. It also includes portable room heaters that burn kerosene, gasoline, fuel oil, or other liquid fuel, as well as portable electric heaters that get current from an electrical wall outlet.

For vacant units from which the heating equipment had been removed, the equipment used by the last occupants was to be reported.

Fireplaces and heating stoves—Data are shown for occupied housing units having a fireplace or heating stove in working order, and for the main type of fuel used in the fireplace or heating stove during the 12 months prior to the interview. If the main fuel used was wood or wood byproducts, data are presented showing whether or not all the wood or wood byproducts were purchased. Wood byproducts include paper, synthetic logs, wood chips, charcoal, or any other products that are derived from natural wood.

Supplemental cooling equipment—This item refers to occupied housing units having central air conditioning. "Individual room air-conditioning unit" includes any type of air-conditioning unit that is installed in the wall or in a window and does not have a duct system. "Awnings" include any type of window coverings such as metal or cloth that are hung over the outside of the window to reduce the amount of light or heat entering the window. "Dehumidifier" includes any equipment or appliance that is used to remove excess moisture from the air. "Ceiling fan" refers to any type of motor driven fan that is installed in the ceiling and is used only to circulate air. "Attic fan" refers to any type of motor driven fan that is installed in the ceiling or attic and is used to pull hot air from a room or from the house. "Window fan" refers to any motor driven fan intended to be inserted into a window and is used to circulate air or to exhaust hot air. "Portable fan" refers to any fan that can be hand carried easily, such as a floor or table fan.

Supplemental heating equipment acquired during last 12 months—This item refers to any supplementary heating equipment acquired, in addition to regular heating equipment, in the 12 months prior to interview. Housing units with fireplaces, stoves, or portable room heaters as their main heating source are excluded from this item.

Supplemental solar water heating equipment—This item refers to the use of energy available from sunlight to heat water supplementing the housing units regular water heating equipment. The statistics are limited to housing units with hot piped water and the use of a primary water heating fuel other than solar heat.

Insufficient heat—The statistics presented refer to housing units in which the householder occupied the unit during the winter prior to the date of the interview. To qualify as having lived here "last winter," the householder must have moved into the unit prior to February 1980.

Separate data are shown for units with additional heat source, and rooms which lacked specified heat source. The term "specified heating equipment" includes warm-air furnace; steam or hot water systems; built-in electric units; floor, wall, or pipeless furnace; and room heaters with flue. Excluded are room heaters without flue or vent, fireplaces, stoves, and portable heaters.

The data on additional heat source refer to units with "specified heating equipment" which *had* to use additional sources of heat to supplement the regular heating system because the regular system did not provide enough heat. Additional sources of heat such as kitchen stoves, fireplaces, or portable heaters, may have been used only in the mornings or on very cold evenings. Electric blankets, heating pads, or hot water bottles are not considered additional sources of heat.

"Rooms lacking specified heat source" include rooms lacking hot air ducts, registers, radiators, and room heaters. The intent of this item was to identify rooms in housing units with "specified heating equipment" which did not contain the means of conveying the heat to the room. The kitchen was not considered to be a room for this item.

Separate data are also shown for housing units with rooms which were so cold for 24 hours or more that it caused discomfort to the occupants. Housing units with specified heating equipment were excluded from this item. The purpose of this item was to determine if the absence of the more sophisticated types of heating equipment caused discomfort to the occupants of the unit.

Air conditioning—Air conditioning is defined as the cooling of air by a refrigeration unit; excluded are evaporative coolers, fans, or blowers which are not connected to a refrigeration unit. A room unit is an individual air conditioner which is installed in a window or an outside wall and is generally intended to cool one room, although it may sometimes be used to cool more than one room. A central system is a central installation which air-conditions the entire housing unit. In an apartment building, a central system may cool all apartments in the building, each apartment may have its own central system, or there may be several systems, each providing central air conditioning for a group of apartments. A central installation with individual room controls is a central air-conditioning system.

Fuels used for house heating, water heating, and cooking—"Utility gas" is gas which is piped through underground pipes from a central system and serves a neighborhood. "Bottled, tank, or LP gas" is pressurized gas stored in tanks or bottles which are either refilled or exchanged when empty. "Fuel oil" is heating oil normally supplied by truck to a storage tank for use by the heating system. "Kerosene, etc." includes kerosene, gasoline, alcohol, and other similar combustible liquids. "Electricity" is generally supplied by means of above or underground electric power lines. "Coal or coke" refers to coal or

any coal derivative usually delivered by means of truck. "Wood" refers to the use of wood or wood charcoal, etc., as a fuel. "Solar heat" refers to the use of energy available from sunlight as a heating fuel source.

Extermination service—The statistics on extermination service refer to households that have been at their present address for at least 3 months prior to the date of the interview and who reported that they had seen mice or rats or signs or traces of their presence *inside* the house or building during the last 3 months. Signs of mice and rats or traces of their presence include droppings, holes in the wall, or ripped or torn food containers. "Regular extermination service" refers to periodic visits by a licensed company or individual who uses chemicals and sprays to control or kill pests and rodents. The regular service interval may be once a month, four times a year, or any other such interval. "Irregular extermination service" includes visits by an exterminator who is called only when needed by the household or building manager, or where it is known that a building is serviced but it is not known whether the service is regular or irregular. "No extermination service" includes units in a house or building that has not been serviced during the 12 months prior to the interview and where it is not known if there is any extermination service.

Financial Characteristics

Value—Value is the respondent's estimate of how much the property (house and lot) would sell for if it were for sale. The statistics on value are shown only for one-unit structures on less than 10 acres having no commercial establishment or medical or dental office on the property. Owner-occupied cooperatives, condominiums, mobile homes, and trailers are excluded from the value tabulations.

Value-income ratio—The value-income ratio is computed by dividing the value of the housing unit by the total money income of the family or primary individual. The data are presented for the same owner-occupied units for which "value" was tabulated (see "Value" for exclusions). The ratio was computed separately for each unit and was rounded to the nearest tenth. In reporting value, respondents were asked to select an appropriate class interval. The midpoints of the value intervals were used in the computation of the value-income ratio, except that a mean of $3,500 was assigned for values less than $5,000 and a mean of $325,000 was assigned for values of $300,000 or more. For income, the dollar amounts were used. Units occupied by families or primary individuals who reported no income or a net loss comprise the category "not computed."

The 1980 income statistics are for the 12 months prior to the date of the interview. For 1970, the income statistics cover the calendar year 1969.

Sales price asked—For vacant housing units, the sales price is the amount asked for the property at the time of the interview and may differ from the price at which the property is sold. The statistics on sales price asked are shown only for vacant for sale one-unit structures on less than 10 acres having no commercial establishment or medical or dental office on the property.

Garage or carport on property—The garage or carport must be currently available for use by the occupants of the housing unit; i.e., members of the household can use it for parking even if it is currently used as a storage area for items such as lawn equipment or furniture. It may be attached to the house or it may be completely unattached, but it must be on the property. Excluded are garages or carports that have been converted to other uses such as living quarters, an area used for business purposes, an area rented to someone else, or for some reason cannot be used for parking.

Mortgage—The data are restricted to owner-occupied, one-unit structures on less than 10 acres having no commercial establishment or medical or dental office on the property. The data exclude owner-occupied cooperative and condominium units. A mortgage refers to all forms of debt where the property is pledged as security for payment of the debt. It includes such debt instruments as deeds of trust, trust deeds, mortgage bonds, and vendor liens. In the first three arrangements, usually a third party, known as the trustee, holds the title to the property until the debt is paid. In the vendor lien arrangement, the title is kept by the buyer but the seller (vendor) reserves, in the deed to the buyer, a lien on the property to secure payment of the balance of the purchase price. Also included as a mortgage are contracts to purchase, land contracts, and lease-purchase agreements where the title to the property remains with the seller until the agreed upon payments have been made by the buyer.

Housing units which are owned free and clear comprise the category "units with no mortgage." Also included in this category are housing units in which the owner has no mortgage but pays a "ground rent"; that is, the occupant owns the unit but leases, rents, or pays a fee for the use of the land.

Major source of downpayment—This item refers to the source of the capital used to purchase the property (house or lot) or condominium unit. It includes capital used for outright purchases. The categories include sale of previous home, savings, borrowing other than a mortgage on property, gift, land on which structure was built, and other sources.

Installment loan or contract—The data are limited to owner-occupied mobile homes and trailers on less than 10 acres. Mobile homes and trailers where payments are being made towards their purchase comprise the category, "with installment loan or contract."

Monthly mortgage payment—The data are limited to owner-occupied, one-unit structures on less than 10 acres having no commercial establishment or medical or dental office on the property. The data present the monthly dollar amount paid for the mortgage, principal and interest only. Real estate taxes and fire and hazard insurance costs are excluded from the data even if they are included in the regular payment to the lender.

Real estate taxes last year—The data are restricted to owner-occupied, one-unit structures on less than 10 acres having no commercial establishment or medical or dental office on the property. The data exclude owner-occupied cooperatives, condominiums, mobile homes, and trailers. "Real estate taxes last year" refers to the yearly total amount of all real estate taxes payable on the entire property during the last billing period. It includes State and local real estate taxes. Not included are payments on delinquent taxes due from prior years or payments for special assessments, facilities, or services. When the real estate taxes are included with the mortgage, a separate amount for the taxes is obtained.

In part C, the mean real estate taxes for last year per $1,000 value of the property (house and lot) are presented. Housing units for which no taxes are paid are excluded from the computation of the mean.

Property insurance—This refers to fire and hazard insurance; that is, policies which protect the unit and its contents against loss due to damage by fire, lightning, wind, hail, explosion, etc. Homeowners' policies are also included since this type of insurance has fire and hazard insurance together with other types of homeowner protection such as liability. If the cost of the insurance was included as part of the mortgage payments, a separate amount for the insurance was obtained. The amount of the insurance premium reported was the amount paid for an entire 12-month period even if made in two or more installments. Property insurance is shown only as a component of "selected monthly housing costs" and "selected monthly housing costs as percentage of income." The data are presented separately for owner-occupied, one-unit structures on less than 10 acres with no commercial establishment or medical or dental office on the property and for owner-occupied mobile homes and trailers on less than 10 acres. The data exclude owner-occupied cooperative and condominium units.

Selected monthly housing costs—The data are presented separately for owner-occupied, one-unit structures on less than 10 acres having no commercial establishment or medical or dental office on the property and for owner-occupied mobile homes and trailers on less than 10 acres. The data exclude owner-occupied cooperative and condominium units. Separate distributions are shown by whether or not there is a mortgage or, for mobile homes and trailers, by whether or not there is an installment loan or contract. Selected monthly housing costs is the monthly sum of payments for the mortgage, or installment loan contract, real estate taxes (including taxes on mobile home or trailer site if the site is owned), property insurance, utilities (electricity, gas, water, and sewage disposal), fuel (oil, coal, kerosene, wood, etc.), and garbage collection.

Households with a mortgage or similar debt that failed to report the amount of their payment and/or those households that did not report their real estate taxes are included in the "not reported" category. Likewise, for mobile homes and trailers, households that had an installment loan or contract but did not report their loan payment and/or their taxes are also included in the "not reported" category.

Selected monthly housing costs as percentage of income—The yearly housing costs (selected monthly housing costs multiplied by 12) are expressed as a percentage of the total income of the family or primary individual. This percentage is presented for the same owner-occupied units for which "selected monthly housing costs" were tabulated (for exclusions, see "Selected monthly housing costs"). The percentage was computed separately for each unit and was rounded to the nearest tenth of a percent. For income and "selected monthly housing costs," the dollar amounts were used. Units occupied by families or primary individuals who reported no income or a net loss comprise the category "not computed."

Households that did not report the amount of, or did not pay mortgage or similar debt and/or real estate taxes were included in the "not reported" category.

Alterations and repairs during the last 12 months—The statistics refer to the 12 months prior to the interview and are restricted to owner-occupied, one-unit structures on less than 10 acres without a commercial establishment or medical or dental office on the property.

The data are presented according to whether the alterations and repairs cost less than $250 or $250 or more. The total cost of the labor and materials was to be reported. However, if the labor was performed by the occupants or provided without charge, only the cost of the materials was obtained. The cost pertains to a single job; for example, if several jobs were done, each costing less than $250 but the sum total was over $250, it was reported as costing less than $250 since none of the jobs by themselves cost $250 or more.

Additions—Additions refer to floor space built onto, above, or below an existing unit in order to increase the enclosed space within the house; for example, a bedroom or basement added onto a house. It may also be construction of other buildings on the property. The building, such as a garage, may not necessarily be attached.

Alterations—These are permanent changes made either to the inside or outside of a structure including the surrounding grounds. Alterations inside the structure include any type of remodeling resulting in permanent modification of space; for example, construction of a breakfast nook in a kitchen. It may involve completely remodeling a room, such as a kitchen or bathroom, or a structural change, such as separation of living and dining areas by a permanent room divider. It may also include attached equipment installed in the house for the first time; i.e., built-in dishwasher. Alterations outside the structure consist of installing walks, driveways, fences, storm windows or doors, planting trees or shrubbery, or swimming pools built into the ground.

Replacements—This refers to the *complete* substitution of a new piece of fixed equipment, surfacing, or fixed appliances for an old item that was previously there; for example, a new gas furnace or central air-conditioning system for one that no longer functioned properly. Excluded are appliances such as clothes washers, refrigerators, or window air-conditioners.

Repairs—This refers to jobs necessary for maintenance and preventive care of the structure, property, or fixed equipment; for example, painting, papering, floor sanding, mending water pipes, and replacing parts of large equipment such as a furnace valve.

Purchase price of mobile home—This item refers to owner-occupied mobile homes and trailers on less than 10 acres. The purchase price is the total cost of the mobile home or trailer at the time for purchase including the downpayment but excluding site costs or closing costs. The "not purchased" category refers to mobile homes and trailers that were not purchased by any occupant of the unit; e.g., if the unit was acquired as a gift.

Year mobile home acquired—This item pertains to owner-occupied mobile homes and trailers on less than 10 acres. "Year acquired" is the calendar year that the current owner took possession of the mobile home or trailer, not the year the mobile home or trailer was manufactured. "Acquired" includes purchase as well as other forms of taking possession such as inheritance, gift, trade, and foreclosure.

Mobile home acquired new—The data pertain to owner-occupied mobile homes and trailers on less than 10 acres. "Acquired new" means that no other person or family lived in the mobile home or used it for a business, etc., before the present owner acquired it.

Contract rent—Contract rent is the monthly rent agreed to, or contracted for, even if the furnishings, utilities, or services are included. The statistics on rent exclude one-unit structures on 10 acres or more. Rent data for mobile homes and trailers are not restricted by acreage. Renter units occupied without payment of cash rent are shown separately as "no cash rent" in the rent tabulations.

Gross rent—The computed rent, termed "gross rent," is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, water) and fuels (oil, coal, kerosene, wood, etc.) if these items are paid for by the renter (or paid for by someone else, such as a relative, welfare agency, or friend) in addition to rent. Contract rent is the monthly rent agreed to, or contracted for, regardless of any furnishings, utilities, or services that may be included. Thus, gross rent is intended to eliminate differentials which result from varying practices in the inclusion of utilities and fuel as part of the rental payment. The estimated costs of water and fuels are reported on a yearly basis, but they are converted to monthly figures in the computation process.

The statistics on rent exclude one-unit structures on 10 acres or more. Rent data for mobile homes and trailers are not restricted by acreage. Renter units occupied without payment of cash rent are shown separately as "no cash rent" in the rent tabulations.

Gross rent in nonsubsidized housing—The gross rent for nonsubsidized housing units excludes units reported in public housing projects, units with Federal, State, or local government rent subsidies, as well as one-unit structures on 10 acres or more. In this report, data on nonsubsidized units are not based on government or local records; the figures are, therefore, subject to the ability of a respondent to properly classify the unit as subsidized or nonsubsidized housing.

Gross rent as percentage of income—The yearly gross rent (monthly gross rent multiplied by 12) is expressed as a percentage of the total income of the family or primary individual. The percentage is presented for the same renter-occupied units for which gross rent is tabulated; thus, the statistics on gross rent as percentage of income reflect the exclusion of certain renter-occupied housing units. The percentage is computed separately for each unit and is rounded to the nearest whole number. For gross rent and income, the dollar amounts are used in the computation. Units for which no cash rent is paid and units occupied by families or primary individuals who report no income or a net loss comprise the category "not computed."

The 1980 income statistics are for the 12 months prior to the date of the interview. For 1970, the income statistics cover the calendar year 1969.

Gross rent in nonsubsidized housing as percentage of income—This item is computed in the same manner as "gross rent as percentage of income" except that rents and incomes for public and subsidized housing units are excluded. Data on nonsubsidized units in this report are not based on government or local records; they are, therefore, subject to the ability of a respondent to properly classify the unit as subsidized or nonsubsidized housing.

Inclusion in rent (garbage collection)—Counts are shown separately for units in which garbage collection is included in the rent. The data are restricted to renter-occupied units for which cash rent is paid and exclude one-unit structures on 10 acres or more.

Included are units which have garbage collection service available in connection with the building. The service may be public or private and must be available without additional cost to the renter. If the garbage (food waste) is collected by one company and the trash (paper, cans, etc.) by another, the data refer to the garbage collection service.

Rent asked—For vacant units, the rent is the amount asked for the housing unit at the time of the interview and may differ from the rent contracted for when the unit was occupied. The data are for vacant, year-round housing units for rent, excluding one-unit structures on 10 acres or more. The median rent asked is shown separately for units in which the rent includes payment for utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.). Median rent asked is also shown for units in which the rent includes payment for utilities and fuels, as well as garbage collection service.

Public, private, or subsidized housing—A housing unit is classified as being in a "public housing project" if the structure in which the unit is located is owned by a local housing authority

or other public agency, such as a housing and redevelopment authority or a housing development agency, and operated as public housing. These organizations may receive subsidies from the Federal or State government but the local agency owns the property. All other housing units are classified as "private housing."

Private housing units are further classified by whether the unit is subsidized; that is, the respondent pays a lower rent because a Federal, State, or local government program pays part of the cost of construction, building mortgage, or operating expenses. These programs include (1) the interest subsidy programs of the Department of Housing and Urban Development (HUD) for rental and cooperative housing for moderate-income families, (2) the rent supplement program where part of the rent for low-income families occupying certain types of rental housing projects is paid by HUD, and (3) the direct loan program of HUD for housing the elderly.

The statistics on public or subsidized housing exclude one-unit structures on 10 acres or more and renter units occupied without payment of cash rent. In addition, the data are not based on government or local records; the figures are, therefore, subject to the ability of a respondent to properly classify the unit as public or private and, if private, as subsidized or nonsubsidized housing.

Household Characteristics

Household—A household consists of all the persons who occupy a housing unit. By definition, the count of households is the same as the count of occupied housing units.

Householder—The householder is the first household member 18 years old or over who is the owner or renter of the sample unit. If no household member occupying the sample unit owns or rents the unit, the householder is the first household member listed who is 18 years old or older. In all the previous AHS reports (1973 to 1979), the concept "head" of household was used. One person in each household was designated as the head, that is the person who was regarded as the head by the respondent. However, if a married woman living with her husband was reported as the head, her husband was considered the head for the purpose of simplifying the tabulations.

Household composition by age of householder—Statistics by age of householder are presented separately for two-or-more-person households and for one-person households. Households having two or more persons are further subdivided as follows:

Married couple families, no nonrelatives—Each household in this group consists of the householder and spouse, and other persons, if any, all of whom are related to the householder.

Other male householder—This category includes households with male householders who are married, but with wife absent because of separation or other reason where husband and wife maintain separate residences; and male householders who are widowed, divorced, or single. Also included are households with male householder, wife present and nonrelatives living with them.

Other female householder—This category includes households with female householders who are married, but with husband absent because of separation or other reason where husband and wife maintain separate residences; and female householders who are widowed, divorced, or single. Also included are households with female householder, husband present and nonrelatives living with them.

Households consisting of only one person are shown separately for male householder and female householder under the category "one-person households."

Family or primary individual—Housing units are occupied by either "families" or "primary individuals." The term "family" refers to the householder and all (one or more) other persons living in the same household who are related to the householder by blood, marriage, or adoption. If the householder lives alone or with nonrelatives only, then the householder is considered a "primary individual."

Married couples related to the householder of a family are included in the family and are not considered as separate families. A lodger, servant, or other persons unrelated to the householder is considered a member of the household but not of the family.

In the statistics on household composition, families are always included in one of the three major groups of two-or-more-person households. Primary individuals with nonrelatives living with them are tabulated as other male or female householder. Primary individuals living alone are always tabulated as one-person households.

Subfamily—A subfamily is a married couple with or without children, or one parent with one or more own single (never married) children under 18 years old, living in a household and related to, but not including the householder or spouse. The most common example of a subfamily is a young married couple sharing the home of the husband's or wife's parents.

Age of householder—The age classification refers to the age reported for the householder as of that person's last birthday.

Persons 65 years old and over—All persons, including the householder, who are members of the household and are 65 years old and over, are included in the count of persons 65 years old and over.

Own children—Statistics on presence of "own" children of householder, are shown in this report. A child under 18 years old is defined as an "own" child if he or she is a single (never married) son, daughter, stepchild, or adopted child of a householder. Own children of subfamilies are excluded from the total count of own children.

Other relative of householder—This category includes all persons related to the householder by blood, marriage, or adoption except wife, husband, or child of householder and members of subfamilies.

Nonrelative—A nonrelative of the householder is any person in the household who is not related to the householder by blood, marriage, or adoption. Roomers, boarders, lodgers, partners, resident employees, wards, and foster children are included in this category.

Years of school completed by householder—The statistics refer to the highest grade of regular school completed and not to the highest grade attended. For persons still attending school, the highest grade completed is one less than the one in which they are currently enrolled. Regular school refers to formal education obtained in graded public, private, or parochial schools, colleges, universities, or professional schools, whether day or night school, and whether attendance was full or part time. That is, "regular schooling" is formal education which may advance a person toward an elementary or high school diploma, or college, university, or professional school degree. Schooling or tutoring in other than regular schools is counted only if the credits obtained are reported as transferable to a school in the regular school system. Householders, whose highest grade completed was in a foreign school system or in an ungraded school, were instructed to report the approximate equivalent grade (or years) in the regular United States school system. They were not reported as having completed a given grade if they dropped out or failed to pass the last grade attended. Education received in vocational schools, trade schools, business schools, and noncredit adult education classes is not counted as "regular schooling."

Means of transportation and distance and travel time to work—The statistics are restricted to householders who had a job the week prior to the interview. A job is defined as a definite arrangement for regular part-time or full-time work for pay every week or every month. Householders who do not report to the same place of work every day comprise the "no fixed place of work" category.

Householder's principal means of transportation to work—If different means of transportation are used on different days, the means used most often is recorded. If more than one means of transportation is used each day, the means covering the greatest distance is recorded. A "carpool" is where one or more persons regularly ride in the car with the householder; the householder may share driving, drive others, or ride with someone else. The category "mass transportation" includes railroad, subway, elevated transportation system, bus, and streetcar.

Distance from home to work—The statistics refer to the one-way distance the householder travels from home to work.

Travel time from home to work—The data refer to the average time it takes the householder to travel one-way from home to work.

Income—The statistics on income in the Annual Housing Survey are based on the respondent's reply to questions on income for the 12 months prior to the interview and are the sum of the amounts reported for wage and salary income, net self-employment income, Social Security or railroad retirement income, public assistance or welfare payments, and all other money income. The figures represent the amount of income received before deductions for personal income taxes, Social Security, union dues, bond purchases, health insurance premiums, Medicare deductions, etc.

In this report series, the statistics relate to the money income of the family or primary individual occupying the housing unit, i.e., the sum of the income of the householder of the family and all other members of the family 14 years old and over, or the income of the primary individual. Incomes of persons living in the unit but not related to the householder are not included in this sum.

Wage or salary income is defined as the total money earnings received for work performed as an employee at any time during the 12-month period prior to the interview. It includes wages, salaries, piece-rate payments, commissions, tips, cash bonuses, and Armed Forces pay. Net self-employment income is defined as net money income (gross receipts minus operating expenses) received from a business, professional practice, partnership, or farm in which the person was self-employed.

Social Security or railroad retirement income includes cash receipts of Social Security pensions; survivors' benefits; disability insurance programs for retired persons, dependents of deceased insured workers, or disabled workers; and deductions for Medicare and health insurance premiums. Cash receipt of retirement, disability, and survivors' benefit payments made by the U.S. Government under the Railroad Retirement Act are also included. Separate payments received for hospital or other medical care are not included.

Income from all other sources includes money income received from sources such as periodic payments from estates and trust funds; dividends; interest; net rental income (or loss) from property rentals; net receipts from roomers or boarders; net royalties; public assistance or welfare payments which include cash receipts received from public assistance programs, such as old age assistance, aid to families with dependent children, and aid to the blind or totally disabled; unemployment insurance benefits; money received for transportation and/or subsistence by persons participating in special governmental training programs, such as the Area Redevelopment Act and the Manpower Development and Training Act; workmen's compensation cash benefits; periodic payments by the Veterans' Administration to disabled members of the Armed Forces or to survivors of deceased veterans; public or private pensions; periodic receipts from insurance policies or annuities; alimony or child support from persons who are not members of the household; net gambling gains; and nonservice scholarships and fellowships.

Receipts from the following sources were not included as income: Value of income "in kind," such as free living quarters, housing subsidies, food stamps, or food produced and consumed in the home; money received from the sale of property (unless the recipient was engaged in the business of selling such property); money borrowed; tax refund; withdrawal of bank deposits; accrued interest on "uncashed" savings bonds; exchange of money between relatives living in the same house-

hold; and gifts and lump-sum insurance payments, inheritances, and other types of lump-sum receipts.

The income statistics and the characteristics of the household refer to different periods in time. For 1980, the income data refer to the 12 months prior to the interview, and the household characteristics refer to the date of the interview. For 1970, income data refer to the calendar year 1969, but the household characteristics refer to April 1, 1970. Thus, family income does not include amounts received by persons who were members of the family during all or part of the income period if these persons no longer resided with the family at the time of the interview. On the other hand, family income includes amounts reported by related persons who did not reside with the family during the entire income period but who were members of the family at the time of the interview. For most families, however, the income reported was received by persons who were members of the family throughout the income period.

There may be significant differences in the income data between the Annual Housing Survey and other Bureau of the Census' surveys and censuses. For example, the time period for income data in the Annual Housing Survey refers to the 12 months prior to the interview while other income data generally refer to the calendar year prior to the date of the interview. Additional differences in the income data may be attributed to the various ways income questions are asked, the sampling variability and nonsampling errors between the Annual Housing Survey and other Bureau surveys and censuses, survey procedures and techniques, and processing procedures.

Facsimile of the Annual Housing Survey Questionnaire: 1980

Form Approved: O.M.B. No. 63-R1593

~ PGM 2

1. Control number (cc 1)
PSU | Segment | Serial

2. Sample (cc 4) (Circle one)
F1 or F2

NOTICE – All information which would permit identification of the individual will be held in strict confidence by law, under U.S. Code, title 13, section 9a. It may be seen only by sworn Census employees and may be used only for statistical purposes.

FORM AHS-2 (4-11-80)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
ACTING AS COLLECTING AGENT FOR
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ANNUAL HOUSING SURVEY

NATIONAL SAMPLE – 1980

3. Household No. (cc 2)

4. Type of segment (cc 3)
1 ☐ Area
2 ☐ Address
3 ☐ Permit
4 ☐ Special place
5 ☐ CEN-SUP

5a. Interviewer name

b. Code

c. Date of first visit

d. Date interview completed

e. Line No. of HH respondent (cc 10)

6. LAND USE
RURAL
(001) 1 ☐ Reg. units; and Sp. Pl. units coded 85–88 in Control Card item 5c
2 ☐ Sp. Pl. units not coded 85–88 in Control Card item 5c
3 ☐ URBAN

7a. Status of unit
(002) 1 ☐ Unit in sample last enumeration period – *Skip to item 8*
☐ Unit in sample for first time this enumeration period – *Fill item 7b*

b. Reason for adding sample unit
(002) 2 ☐ New construction
3 ☐ Mobile home moved in
4 ☐ House moved in
5 ☐ Unit resulted from structural conversion
6 ☐ Conversion of nonresidential unit
7 ☐ Other – *Specify*

8. Type of interview
(003) 1 ☐ Regular – *(One or more "Y's" in cc 11c)*
2 ☐ URE – *(All "N's" in cc 11c)*
3 ☐ Vacant
Skip to Section II, page 3
4 ☐ Noninterview ☐ Type A – *STOP* ☐ Type B or C – *Enclose completed AHS-397*

Section I (TRANSCRIBE FROM CONTROL CARD)

9. Reason for noninterview (cc 40d)

a. Type A
(004) 1 ☐ No one home
2 ☐ Temporarily absent
3 ☐ Refused
4 ☐ Unable to locate
5 ☐ Other occupied – *Specify*

b. Type B
(004) 10 ☐ Unit for nonresidential use (e.g., business, school, or commercial storage)
11 ☐ OTHER unit, except unoccupied site for mobile home or tent
Fill item 9a
12 ☐ Unoccupied site for mobile home or tent
13 ☐ Under construction – not ready
14 ☐ Scheduled to be demolished
15 ☐ Condemned or occupancy prohibited by law
16 ☐ Interior exposed to the elements
17 ☐ Unit severely damaged by fire
18 ☐ Other – *Specify*
Fill items 9d and e
19 ☐ Permit granted – construction not started

9. Reason for noninterview (cc 40d) – Continued

c. Type C
(004) 30 ☐ Unit eliminated in structural conversion
31 ☐ Demolished
32 ☐ Disaster loss (flood, tornado, etc.)
33 ☐ Disaster loss – fire
34 ☐ House or mobile home moved
35 ☐ Merged – not in current sample
36 ☐ Built after April 1, 1970
37 ☐ Other – *Specify*
38 ☐ Unused permit – abandoned

(Fill for applicable Type B's only)

d. Unit boarded-up (cc 40e)
(005) 1 ☐ Yes
2 ☐ No

(Fill for applicable Type B's only)

e. Status of structure (Item 8, Form AHS-397)
(006) 1 ☐ Structure currently has no housing units
2 ☐ Structure currently has one or more housing units

Section I – Continued . (TRANSCRIBE FROM CONTROL CARD)

10. Structure originally built (cc 6)
☐ April 1, 1970 or later
(007) Month (01–12) / Year
OR
(007) 1 ☐ 1969 to March 31, 1970
2 ☐ 1965–1968
3 ☐ 1960–1964
4 ☐ 1950–1959
5 ☐ 1940–1949
6 ☐ 1939 or earlier

11. Access (cc 9a)
(008) 1 ☐ Direct
2 ☐ Through another unit

12. Type of living quarters (cc 9b and c)
HOUSING UNIT
(009) 1 ☐ House, apartment, flat
2 ☐ HU in nontransient hotel, motel, etc.
3 ☐ HU permanent in transient hotel, motel, etc.
4 ☐ HU in rooming house
5 ☐ Mobile home or trailer with NO permanent room added
6 ☐ Mobile home or trailer WITH one or more permanent rooms added
7 ☐ HU not specified above – *Specify*

OTHER UNIT *(Treat as Type B Noninterview)*
8 ☐ Quarters not HU in rooming or boarding house
9 ☐ Unit not permanent in transient hotel, motel, etc.
10 ☐ Unoccupied tent site or trailer site
11 ☐ OTHER unit not specified above – *Specify*

13. Occupancy status (cc 40c)
(010) 1 ☐ Occupied – *Skip to Section IVA, page 10*
2 ☐ Vacant – *Skip to Section XIII, page 60*
3 ☐ URE – *Skip to Section IVA, page 10*

NOTES

QUESTIONNAIRE ITEMS TO BE FILLED FOR NONINTERVIEWS AND VACANT UNITS

	TYPE A	TYPE B	TYPE C		
NONINTERVIEWS	I.D. items 1 and 2* 3–5e** 6–8 Section I items 9a 11 12 13 Section XIII, pg. 60	I.D. items 1 and 2* 3–5e** 6–8 Section I items 9b 9d and e *(Where appropriate)* 11 12 Section XIII, page 60	I.D. items 1 and 2* 3–5e** 6–8 Section I items 9c Section XIII, pg. 60	VACANT UNITS	I.D. items 1 and 2* 3–8** Section I items 10–13 Section II, pages 3–4 Section III, pages 5–9 Section XIII, page 60

*NOTE – Fill items 1 and 2 only if AHS-2 is not labeled or if control number on label is incorrect.

**NOTE – In item 5e enter the relationship of the person providing the information for the noninterview or vacant; e.g., manager, agent, or neighbor. If no one was consulted, leave item 5e blank.

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section II – CHECKLIST FOR OCCUPIED AND VACANT UNITS

CHECK ITEM A

(See item 8, page 1)

REGULAR OR URE AND:

(See Control Card item 14)
- ☐ Same household interviewed last enumeration period (at least one entry in "79" year column of item 14 on the current Control Card) – Ask questions in Column A
- ☐ All others – Ask questions in Column B

VACANT AND:

(See Control Card item 40c)
- ☐ Vacant last enumeration period – Ask questions in Column A
- ☐ All others – Ask questions in Column B

Column A		Column B	
1a. Since *(last year's interview date)*, **has there been a change in the number of rooms in this house (apartment)?**	(021) 1 ☐ Yes – Ask b 2 ☐ No 3 ☐ Don't know – Ask b	**1b. How many rooms are (now) in this house (apartment)? Do not count bathrooms, porches, balconies, foyers, halls, or half-rooms.**	(022) _____ Number of rooms
2a. Since *(last year's interview date)*, **has there been a change in the number of bedrooms in this house (apartment)?**	(023) 1 ☐ Yes – Ask b 2 ☐ No 3 ☐ Don't know – Ask b	**2b. How many bedrooms are (now) in this house (apartment)? Count rooms used mainly for sleeping even if used for other purposes.**	(024) _____ Number of bedrooms OR 0 ☐ None
3a. Since *(last year's interview date)*, **have any kitchen facilities been added or eliminated in this house (building)?**	(025) 1 ☐ Yes – Ask b 2 ☐ No 3 ☐ Don't know – Ask b	**3b. Does this house (building) (now) have complete kitchen facilities; that is, a kitchen sink with piped water, a refrigerator and a range or a cookstove which are available for your use (the use of the intended occupants)?**	(026) 1 ☐ Yes – For this household only 2 ☐ Yes – Also used by another household 3 ☐ No
4a. Since *(last year's interview date)*, **has there been a change in the source of water for this house (building)?**	(027) 1 ☐ Yes – Ask b 2 ☐ No 3 ☐ Don't know – Ask b	**4b. Does the water for this house (apartment) (now) come from a public or private system; an individual well; or some other source such as a spring, creek, river, cistern, etc.?**	(028) 1 ☐ A public system or private company 2 ☐ An individual well 3 ☐ Some other source – Specify below _____ _____

Section II – CHECKLIST FOR OCCUPIED AND VACANT UNITS – Continued

Column A		Column B	
5a. Since *(last year's interview date)*, **has there been a change in the means of sewage disposal for this house (building)?**	(029) 1 ☐ Yes – Ask b 2 ☐ No 3 ☐ Don't know – Ask b	**5b. What means of sewage disposal does this house (building) (now) have?**	(030) 1 ☐ Public sewer 2 ☐ Septic tank or cesspool 3 ☐ Chemical toilet 4 ☐ Privy 5 ☐ Use facilities in another structure 6 ☐ Other – Specify _____
☐ Vacant unit – Skip to 7a **6a. Since** *(last year's interview date)*, **has there been a change in the type of fuel used to heat this house (apartment)?**	(031) 1 ☐ Yes – Ask b 2 ☐ No 3 ☐ Don't know – Ask b	☐ Vacant unit – Skip to 7b **6b. How is this house (apartment) (now) heated – by gas, oil, electricity or with some other fuel?**	(032) Gas 1 ☐ From underground pipes serving the neighborhood 2 ☐ Bottled, tank, or LP 3 ☐ Fuel oil 4 ☐ Kerosene, etc. 5 ☐ Electricity 6 ☐ Coal or coke 7 ☐ Wood 8 ☐ Solar heat 9 ☐ Other fuel 0 ☐ No fuel used
7a. Since *(last year's interview date)*, **has a garage or carport been added or eliminated on this property?**	(033) 1 ☐ Yes – Ask b 2 ☐ No 3 ☐ Don't know – Ask b	**7b. Is there (now) a garage or carport on this property which is currently available for your use (the use of the intended occupants)?**	(034) 1 ☐ Yes 2 ☐ No

CHECK ITEM B

(See item 8, page 1)

1 ☐ Regular or URE Interview – Skip to Section IVB, page 12

2 ☐ Vacant interview – Go to Section III, page 5

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

~ PGM 3 ↓

Section III – VACANT UNITS

1a. How many living quarters, both occupied and vacant, are there in this house (building)? (101)

1 ☐ Mobile home or trailer (no permanent room attached) – *Skip to Check Item A*
2 ☐ One, detached from any other building
3 ☐ One, attached to one or more buildings
4 ☐ 2
5 ☐ 3 or 4
6 ☐ 5 to 9
7 ☐ 10 to 19
8 ☐ 20 to 49
9 ☐ 50 or more
} *Skip to Check Item A*

OBSERVATION

b. Is any part of this property used as a commercial establishment? (103)

1 ☐ Yes
2 ☐ No

OBSERVATION

c. Is any part of this property used as a medical or dental office? (104)

1 ☐ Yes
2 ☐ No

CHECK ITEM A

☐ Unit was Type A or B noninterview last enumeration period (See cc *item 40d*) – *Ask 2a*

(See item 7, page 1)

☐ Unit in sample last enumeration period (first box marked in item 7a) – *Skip to item 5, page 6*

☐ Unit in sample for first time this enumeration period (second box marked in item 7a) – *Ask 2a*

2a. How many stories (floors) are there in this house (building)? Do not count the basement.

(MARK mobile homes by observation) (105)

1 ☐ 1 to 3 – *Skip to 3*
2 ☐ 4 to 6
3 ☐ 7 to 12
4 ☐ 13 or more

OBSERVATION

b. Is there a passenger elevator in this building? (106)

1 ☐ Yes
2 ☐ No

3. Does this house (building) have complete plumbing facilities; that is, hot and cold piped water, a flush toilet and a bathtub or shower, which are available for the use of the intended occupants of this house (apartment)?

☐ Yes → **Are these facilities only for the use of the intended occupants?** (107)

1 ☐ Yes – Used for this household only – *Ask 4*
2 ☐ No – Also used by another household – *Skip to 5*

3 ☐ No – *Skip to 5*

4. A complete bathroom is a room with a flush toilet, bathtub or shower, and a washbasin with piped water.

A half bathroom has at least a flush toilet or a bathtub or shower, but does not have all the facilities for a complete bathroom.

How many complete bathrooms and half bathrooms does this house (apartment) have?

(Mark only one box) (108)

1 ☐ Complete plumbing facilities but not in one room
2 ☐ 1 complete bathroom
3 ☐ 1 complete bathroom plus a half bath with no flush toilet
4 ☐ 1 complete bathroom plus a half bath with flush toilet
5 ☐ 2 complete bathrooms
6 ☐ More than 2 complete bathrooms

Section III – VACANT UNITS – Continued

5. What type of heating equipment does this house (apartment) have?

(MARK heating equipment to be used most)

SHOW FLASHCARD B (109)

1 ☐ Central warm-air furnace with ducts in individual rooms
2 ☐ Heat pump
3 ☐ Steam or hot water system
4 ☐ Built-in electric units (permanently installed in wall, ceiling, or baseboard)
5 ☐ Floor, wall, or pipeless furnace
6 ☐ Room heaters WITH flue or vent burning gas, oil, or kerosene
7 ☐ Room heaters WITHOUT flue or vent burning gas, oil, or kerosene
8 ☐ Fireplaces, stoves, or portable room heaters
9 ☐ Unit has no heating equipment

6a. Is this unit intended for year-round use, for occupancy only on a seasonal basis, or for use by migrant workers? (117)

☐ YEAR ROUND – *Ask b*

Seasonal
10 ☐ Summers only . . . . . .
11 ☐ Winters only . . . . . .
12 ☐ Other seasonal – *Specify in Notes on page 7* . . . . .
} *Skip to 7*

9 ☐ Migratory – *Skip to 7*

b. Is this house (apartment) for rent, for sale only, rented not occupied, sold not occupied, held for occasional use, or something else?

(Probe to be asked only for cooperatives)
To the Census Bureau, a cooperative is property which is owned by a corporation. Each shareholder is entitled to occupy an individual unit. Is this what you mean when you say this is a cooperative? (117)

1 ☐ Vacant – for rent OR (for sale or for rent)

Vacant – for sale ONLY
2 ☐ Regular ownership
3 ☐ Condominium ownership
4 ☐ Cooperative ownership – *Ask probe*

5 ☐ Rented, not occupied
6 ☐ Sold, not occupied
7 ☐ Held for occasional use
8 ☐ Other vacant – *Specify* _____

7. How many months has this house (apartment) been vacant? (119)

1 ☐ Less than 1 month
2 ☐ 1 month up to 2 months
3 ☐ 2 months up to 6 months
4 ☐ 6 months up to 12 months
5 ☐ 1 year up to 2 years
6 ☐ 2 years or more

OBSERVATION

8a. Is the unit boarded-up? (120)

1 ☐ Yes
2 ☐ No

OBSERVATION

b. Are there any buildings (other than this building) with windows broken or boarded-up on this street? (121)

1 ☐ Yes
2 ☐ No

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section III – VACANT UNITS – Continued

9. Does this place have 10 acres or more?

(122) 1 ☐ Yes, 10 acres or more
2 ☐ No, less than 10 acres

CHECK ITEM B

VACANCY STATUS (See item 6b, page 6)

FOR SALE ONLY

☐ **A CONDOMINIUM** – Ask 10a

☐ **A COOPERATIVE** – Skip to item 14, page 9

REGULAR OWNERSHIP

☐ One-unit structure on less than 10 acres and there is no commercial establishment or medical or dental office on the property ("No" in items 1b and 1c) – Ask 10a

☐ All others – Skip to item 14, page 9

FOR RENT

☐ One-unit structure on less than 10 acres – Skip to item 11, page 8

☐ One-unit structure on 10 acres or more – Skip to item 13, page 9

☐ Two-or-more unit structure or a mobile home or trailer – Skip to item 11, page 8

☐ **ALL OTHERS** (Other vacants, units rented or sold, units held for occasional use, seasonal, and similar units) – Skip to item 13, page 9

NOTES

Section III – VACANT UNITS – Continued

10. What is the sale price asked for this property (condominium unit)?

SHOW FLASHCARD D

(126)
1 ☐ Less than $5,000
2 ☐ $ 5,000 – $ 7,499
3 ☐ 7,500 – 9,999
4 ☐ 10,000 – 12,499
5 ☐ 12,500 – 14,999
6 ☐ 15,000 – 17,499
7 ☐ 17,500 – 19,999
8 ☐ 20,000 – 22,499
9 ☐ 22,500 – 24,999
10 ☐ 25,000 – 27,499
11 ☐ 27,500 – 29,999
12 ☐ 30,000 – 34,999
13 ☐ 35,000 – 39,999
14 ☐ 40,000 – 44,999
15 ☐ 45,000 – 49,999
16 ☐ 50,000 – 54,999
17 ☐ 55,000 – 59,999
18 ☐ 60,000 – 64,999
19 ☐ 65,000 – 69,999
20 ☐ 70,000 – 74,999
21 ☐ 75,000 – 79,999
22 ☐ 80,000 – 89,999
23 ☐ 90,000 – 99,999
24 ☐ 100,000 – 124,999
25 ☐ 125,000 – 149,999
26 ☐ 150,000 – 199,999
27 ☐ 200,000 – 249,999
28 ☐ 250,000 – 299,999
29 ☐ 300,000 or more

→ Skip to item 14, page 9

11. What is the MONTHLY rent?

(Mark the frequency of payment box and enter the MONTHLY rent. If rent is not to be paid by the month, compute the MONTHLY rent in the "Notes" space, and enter the MONTHLY rent on the line provided.)

(Include site rent for mobile homes if it is to be paid separately.)

(151) $ _____ . 00 Per month

(152) 1 ☐ More frequently than once a month
2 ☐ Less frequently than once a month
3 ☐ Once a month

Notes

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section III – VACANT UNITS – Continued

12a. In addition to rent, does the renter also pay for electricity?	(156)	1 ☐ Yes 2 ☐ No, included in rent 3 ☐ No, electricity not used
b. In addition to rent, does the renter also pay for gas?	(158)	1 ☐ Yes 2 ☐ No, included in rent 3 ☐ No, gas not used
c. In addition to rent, does the renter also pay for water?	(160)	1 ☐ Yes 2 ☐ No, included in rent or no charge
d. In addition to rent, does the renter also pay for oil, coal, kerosene, wood, or any other fuel?	(162)	1 ☐ Yes 2 ☐ No, included in rent 3 ☐ No, these fuels not used or obtained free
e. In addition to rent, does the renter also pay for garbage (food waste) collection?	(164)	1 ☐ Yes 2 ☐ No
13. Is this house (apartment) part of a condominium?	(527)	1 ☐ Yes, part of a condominium 2 ☐ No
14. How many rooms does this house (apartment) have without hot air ducts or registers, radiators, or room heaters? Do not count the kitchen or bathroom(s).	(720)	1 ☐ None 2 ☐ 1 room 3 ☐ 2 rooms 4 ☐ 3 or more rooms
15. Does each room in this house (apartment) have a working electric wall outlet (wall plug)?	(721)	1 ☐ Yes 2 ☐ No
16. Is all the wiring in this house (apartment) concealed in the walls or in metal coverings? Do not count appliance cords, extension cords, or chandelier cords.	(722)	1 ☐ Yes 2 ☐ No
17a. Is it necessary to go through any bedroom to get to any bathroom?	(723)	1 ☐ Yes 2 ☐ No
b. Is it necessary to go through any bedroom to get to any other room?	(724)	1 ☐ Yes 2 ☐ No
CHECK ITEM C	*(See item 1a, page 5)* ☐ One-unit structure, or a mobile home or trailer – Skip to 20 ☐ Two-or-more-unit structure – Continue with item 18a	
OBSERVATION 18a. Do the public halls in this building have light fixtures?	(725)	1 ☐ Yes 2 ☐ No . . . . . } Skip to 19a 3 ☐ No public halls
b. Are the light fixtures in working order?	(726)	1 ☐ All in working order 2 ☐ Some in working order 3 ☐ None in working order
19a. Are there loose, broken, or missing steps on any common stairways inside this building or attached to this building?	(727)	1 ☐ Yes 2 ☐ No 3 ☐ No common stairways – Skip to 20
b. Are all stair railings firmly attached?	(728)	1 ☐ Yes 2 ☐ No 3 ☐ No stair railings
20. Is there a basement in this house (building)? *(A basement is an enclosed space in which persons can walk upright under all or part of the building.)*	(733)	1 ☐ Yes } Go to Control Card Item 39 2 ☐ No

Section IVA – OCCUPIED UNITS *(Include URE)*

TRANSCRIBE FROM CONTROL CARD

1. Line number of household respondent (cc 10)

(090) _____

HOUSEHOLD CHARACTERISTICS

Line number (cc 10)	2a. INCLUDE REFERENCE PERSON	2b. Relationship to reference person (cc 11b)	OFFICE USE ONLY	2c. Household member (cc 11c) CIRCLE ONE: Yes	No	2d. Age (cc 14)	2e. Marital status (For persons 14+) (cc 15) ENTER CODE 1 – Married 2 – Widowed 3 – Divorced 4 – Separated 5 – Never married	2f. Race (cc 16) ENTER CODE from the white cc OR Convert the written entry on the green cc using the following codes: 1 – White 2 – Negro 3 – Other	2g. Sex (cc 17) CIRCLE ONE: Male	Female
~ PGM 4 →				1	2				1	2
				1	2				1	2
				1	2				1	2
				1	2				1	2
				1	2				1	2
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				1	2				1	2
				1	2				1	2
				1	2				1	2
				1	2				1	2
				1	2				1	2

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

~ PGM 5 ↓

Section IVA – OCCUPIED UNITS (Include URE) – Continued

TRANSCRIBE FROM CONTROL CARD

3. Highest grade completed by reference person *(cc 19)*

(093)

0 ☐ Never attended school

1 ☐ Kindergarten
2 ☐ First
3 ☐ Second
4 ☐ Third
5 ☐ Fourth
6 ☐ Fifth
7 ☐ Sixth
8 ☐ Seventh
9 ☐ Eighth
10 ☐ Ninth
11 ☐ Tenth
12 ☐ Eleventh
13 ☐ Twelfth

College (Academic years)

14 ☐ C1
15 ☐ C2
16 ☐ C3
17 ☐ C4
18 ☐ C5
19 ☐ C6 or more

4. Ethnic origin *(cc 20)*

(092)

1 ☐ Mexican-American
2 ☐ Chicano
3 ☐ Mexican
4 ☐ Mexicano
5 ☐ Puerto Rican
6 ☐ Cuban
7 ☐ Central or South American
8 ☐ Other Spanish – *Specify*

9 ☐ Other – *Specify* _____

5. When reference person moved in *(cc 21)*

After April 1, 1970 ↙

(093) Month (01–12) / Year

OR

(093)

1 ☐ 1965 to April 1, 1970
2 ☐ 1960 to 1964
3 ☐ 1950 to 1959
4 ☐ 1949 or earlier

6. Use of telephone *(cc 38a)*

(095)

1 ☐ Yes
2 ☐ No

INTERVIEWER INSTRUCTION ➧ Go to section XIII, page 60

Section IVA – OCCUPIED UNITS (Include URE) – Continued

7a. Are your living quarters owned or being bought by you or by someone else in your household?

(Probe to be asked only for cooperatives)
To the Census Bureau, a cooperative is property which is owned by a corporation. Each shareholder is entitled to occupy an individual unit. Is this what you mean when you say this is a cooperative?

☐ Yes ↙
Are they owned as a cooperative or condominium?

(100)
1 ☐ No, regular ownership
2 ☐ Yes, a cooperative – *Ask probe*
3 ☐ Yes, a condominium
} *Skip to 8a*

☐ No – *Ask 7b*

b. Are your living quarters rented for cash by you or by someone else or occupied without payment of cash rent?

(100)
4 ☐ Rented for cash
5 ☐ Occupied without payment of cash rent

8a. How many living quarters, both occupied and vacant, are there in this house (building)?

(101)
1 ☐ Mobile home or trailer (no permanent room attached) – *Go to b*
2 ☐ One, detached from any other building
3 ☐ One, attached to one or more buildings
4 ☐ 2
5 ☐ 3 or 4
} *Skip to 8c*

6 ☐ 5 to 9
7 ☐ 10 to 19
8 ☐ 20 to 49
9 ☐ 50 or more
} *Skip to Check Item A*

OBSERVATION
b. How many mobile homes are in this group?

(102)
1 ☐ 1–5
2 ☐ 6–99
3 ☐ 100 or more
} *Skip to Check Item A*

OBSERVATION
c. Is any part of this property used as a commercial establishment?

(103)
1 ☐ Yes
2 ☐ No

OBSERVATION
d. Is any part of this property used as a medical or dental office?

(104)
1 ☐ Yes
2 ☐ No

CHECK ITEM A

☐ *(See cc item 40d)* – Unit was Type A or B noninterview last enumeration period – *Ask item 9a*
(See item 7a, page 1)
☐ Unit in sample last enumeration period (first box marked in item 7a) – *Skip to item 12*
☐ Unit in sample for first time this enumeration period (second box marked in item 7a) – *Ask item 9a*

9a. How many stories (floors) are in this house (building)? Do not count the basement.

(MARK mobile homes by observation)

(105)
1 ☐ 1 to 3 – *Skip to 10*
2 ☐ 4 to 6
3 ☐ 7 to 12
4 ☐ 13 or more

b. Is there a passenger elevator in this building?

(106)
1 ☐ Yes
2 ☐ No

10. Do you have complete plumbing facilities in this house (building); that is, hot and cold piped water, a flush toilet and a bathtub or shower; which are available for your use?

(107)
1 ☐ Yes – For this household only
2 ☐ Yes – Also used by another household
3 ☐ No
} *Skip to 12*

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section IVB – OCCUPIED UNITS (Include URE) – Continued

11. A complete bathroom is a room with a flush toilet, bathtub or shower, and a washbasin with piped water. A half bathroom has at least a flush toilet or a bathtub or shower, but does not have all the facilities for a complete bathroom.

How many complete bathrooms and half bathrooms do you have?

(Mark only one box)

(108)
1 ☐ Complete plumbing facilities but not in one room
2 ☐ 1 complete bathroom
3 ☐ 1 complete bathroom plus half bath with no flush toilet
4 ☐ 1 complete bathroom plus half bath with flush toilet
5 ☐ 2 complete bathrooms
6 ☐ More than 2 complete bathrooms

12. What type of heating equipment does your house (apartment) have?

(MARK heating equipment used most)

SHOW FLASHCARD B

(109)
1 ☐ Central warm-air furnace with ducts in individual rooms
2 ☐ Heat pump
3 ☐ Steam or hot water system
4 ☐ Built-in electric units (permanently installed in wall, ceiling, or baseboard)
5 ☐ Floor, wall, or pipeless furnace
6 ☐ Room heaters WITH flue or vent burning gas, oil, or kerosene
7 ☐ Room heaters WITHOUT flue or vent burning gas, oil, or kerosene
8 ☐ Fireplaces, stoves, or portable room heaters
9 ☐ Unit has no heating equipment

13a. Do you have air conditioning, either individual room units or a central system?

(110) 1 ☐ Yes
2 ☐ No – *Skip to 14a*

b. Which do you have?

(111) 1 ☐ Central – *Skip to 14a*
2 ☐ Room units

c. How many room units do you have?

(112) _____ Room units

14a. Does this house (apartment) have open cracks or holes in the interior walls or ceiling? *(Do not include hairline cracks)*

(113) 1 ☐ Yes
2 ☐ No

b. Does this house (apartment) have holes in the floors?

(114) 1 ☐ Yes
2 ☐ No

15a. Is there any area of broken plaster on the ceiling or inside walls which is larger than this piece of paper? *(SHOW CLOSED INTERVIEWER FLASHCARD AND INFORMATION BOOKLET)*

(115) 1 ☐ Yes
2 ☐ No

b. Is there any area of peeling paint on the ceiling or inside walls which is larger than this piece of paper? *(SHOW CLOSED INTERVIEWER FLASHCARD AND INFORMATION BOOKLET)*

(116) 1 ☐ Yes
2 ☐ No

OBSERVATION

16. Are there any buildings with windows broken or boarded-up on this street?

(121) 1 ☐ Yes
2 ☐ No

NOTES

Section IVB – OCCUPIED UNITS (Include URE) – Continued

17. Does this place have 10 acres or more?

(122) 1 ☐ Yes
2 ☐ No

CHECK ITEM B

(See item 6, page 1)

RURAL: Regular units; and special place units coded 85–88 (box 1 marked in item 6) AND

(See item 17)
☐ On 10 acres or more – *Ask 18a*
☐ On less than 10 acres – *Skip to 18b*

☐ Special place units not coded 85–88 (box 2 marked in item 6) – *Skip to Check Item C*

☐ URBAN (box 3 marked in item 6) – *Skip to Check Item C*

18a. During the past 12 months, did sales of crops, livestock and other farm products from this place amount to $50 or more?

(123) 1 ☐ Yes – *Skip to 18c*
2 ☐ No – *Skip to Check Item C*

b. During the past 12 months, did sales of crops, livestock and other farm products from this place amount to $250 or more?

(124) 1 ☐ Yes
2 ☐ No – *Skip to Check Item C*

c. During the past 12 months, did sales of crops, livestock and other farm products from this place amount to $1,000 or more?

(125) 1 ☐ Yes
2 ☐ No

CHECK ITEM C

TENURE *(See items 7a and 7b, page 12)*

1 ☐ OWNED AS A COOPERATIVE – *Skip to Check Item G, page 18*

2 ☐ OWNED AS A CONDOMINIUM – *Ask 19a*

OWNED OR BEING BOUGHT (Regular ownership)

If this is a –

(See item 8a, page 12)
3 ☐ Mobile home or trailer on less than 10 acres ("No" marked in item 17) – *Skip to item 20*
4 ☐ One-unit structure on less than 10 acres ("No" marked in item 17) and there is no commercial establishment or medical or dental office on the property ("No" in items 8c and 8d) – *Ask 19a*
5 ☐ All others – *Skip to Check Item G, page 18*

RENTED FOR CASH

If this is a –

(See item 8a, page 12)
6 ☐ One-unit structure on less than 10 acres ("No" marked in item 17) – *Skip to item 26, page 16*
7 ☐ One-unit structure on 10 acres or more ("Yes" marked in item 17) – *Skip to Check Item G, page 18*
8 ☐ Two-or-more unit structure or mobile home or trailer – *Skip to item 26, page 16*

OCCUPIED WITHOUT PAYMENT OF CASH RENT

If this is a –

(See item 8a, page 12)
9 ☐ One-unit structure on less than 10 acres ("No" marked in item 17) – *Skip to item 28, page 17*
10 ☐ One-unit structure on 10 acres or more ("Yes" marked in item 17) – *Skip to Check Item G, page 18*
11 ☐ Two-or-more unit structure, or a mobile home or trailer – *Skip to Check Item E, page 17*

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section IVB – OCCUPIED UNITS (Include URE) – Continued

19. How much do you think this property, that is, house and lot, (condominium unit) would sell for on today's market?

SHOW FLASHCARD D

(126)
1 ☐ Less than $5,000
2 ☐ $ 5,000 – $ 7,499
3 ☐ 7,500 – 9,999
4 ☐ 10,000 – 12,499
5 ☐ 12,500 – 14,999
6 ☐ 15,000 – 17,499
7 ☐ 17,500 – 19,999
8 ☐ 20,000 – 22,499
9 ☐ 22,500 – 24,999
10 ☐ 25,000 – 27,499
11 ☐ 27,500 – 29,999
12 ☐ 30,000 – 34,999
13 ☐ 35,000 – 39,999
14 ☐ 40,000 – 44,999
15 ☐ 45,000 – 49,999
16 ☐ 50,000 – 54,999
17 ☐ 55,000 – 59,999
18 ☐ 60,000 – 64,999
19 ☐ 65,000 – 69,999
20 ☐ 70,000 – 74,999
21 ☐ 75,000 – 79,999
22 ☐ 80,000 – 89,999
23 ☐ 90,000 – 99,999
24 ☐ 100,000 – 124,999
25 ☐ 125,000 – 149,999
26 ☐ 150,000 – 199,999
27 ☐ 200,000 – 249,999
28 ☐ 250,000 – 299,999
29 ☐ 300,000 or more

CHECK ITEM D

(See *Check Item C, page 14*)
☐ **OWNED AS A CONDOMINIUM** (Box 2 marked) – *Skip to Check Item G, page 18*
☐ All others – *Skip to item 23*

20. Do you own the mobile home (trailer) SITE or is it rented?
(127) 1 ☐ Owned
2 ☐ Rented or occupied without payment of cash rent

21a. In what year did you acquire this mobile home (trailer)?
(128) 19 ____

b. Was the mobile home (trailer) NEW when you acquired it?
(129) 1 ☐ Yes
2 ☐ No

c. When you acquired this mobile home (trailer), what was the purchase price? Do not include price of site or closing costs.
(130) $ _____ . 00 Purchase price
0 ☐ Not purchased

22. Do you have an installment loan or contract on this mobile home (trailer) or do you own it free and clear?
(131) 1 ☐ Installment loan or contract – *Skip to 24a*
2 ☐ Owned free and clear – *Skip to 25a*

23. Do you have a mortgage, deed of trust, or land contract on this property, that is house and lot, or do you own it free and clear?
(131) 1 ☐ Mortgage, deed of trust, or land contract
2 ☐ Owned free and clear – *Skip to 25a*

Section IVB – OCCUPIED UNITS (Include URE) – Continued

24a. In regard to the mortgage (loan), what are the required payments to the lender? If more than one mortgage (loan) on this property (mobile home or trailer), give total amount of payments.
(If there are separate loans on the mobile home and its site, combine amounts.)
(133) $ _____ . ■
PER
(134) 1 ☐ Month
2 ☐ Year
3 ☐ Other – Specify _____

b. In regard to the mortgage (loan), do the required payments include –
(1) Real estate taxes on this property?
(135) 1 ☐ Yes
2 ☐ No

(2) Fire and hazard insurance?
(136) 1 ☐ Yes
2 ☐ No

NOTE – *Ask all categories in 25a before asking 25b.*

25a.	25b.
(1) Do you pay for electricity? (137) 1 ☐ Yes 2 ☐ No	(1) In the past 12 months, what was the average MONTHLY cost for electricity? (138) $ _____ . ■
(2) Do you pay for gas? (139) 1 ☐ Yes 2 ☐ No	(2) In the past 12 months, what was the average MONTHLY cost for gas? (140) $ _____ . ■
(3) Do you pay for oil, coal, kerosene, wood, OR any other fuel? (141) 1 ☐ Yes 2 ☐ No, these fuels not used or obtained free	(3) What is the YEARLY cost for oil, coal, kerosene, wood OR any other fuel? (142) $ _____ . ■
(4) Do you pay for fire and hazard insurance? *(Also include if part of mortgage payments.)* (143) 1 ☐ Yes 2 ☐ No	(4) What is the YEARLY cost for fire and hazard insurance? (144) $ _____ . ■
(5) Do you pay for real estate taxes? *(Also include if part of mortgage payments.)* (145) 1 ☐ Yes 2 ☐ No	(5) What is the YEARLY cost for real estate taxes? *(Do not include taxes in arrears from previous years.)* (146) $ _____ . 00
(6) Do you pay for water supply and/or sewage disposal? (147) 1 ☐ Yes 2 ☐ No or payment included in real estate taxes	(6) What is the YEARLY cost for water supply and sewage disposal? (148) $ _____ . ■
(7) Do you pay for garbage (food waste) collection? (149) 1 ☐ Yes 2 ☐ No or payment included in real estate taxes	(7) What is the YEARLY cost for garbage (food waste) collection? (150) $ _____ . 00 *Skip to Check Item G, page 18*

NOTE – *Ask 25b only for those categories in 25a which were answered "Yes."*

26. What is the MONTHLY rent?
(Mark the frequency of payment box and enter the MONTHLY rent. (If rent is not paid by the month, compute the MONTHLY rent in "Notes" space and enter the monthly rent on the line provided.)
(Do not include site rent for mobile homes if it is paid separately.)
(151) $ _____ . 00
(152) 1 ☐ More frequently than once a month
2 ☐ Less frequently than once a month
3 ☐ Once a month
NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section IVB – OCCUPIED UNITS (Include URE) – Continued

CHECK ITEM E (See item 8a, page 12)
- ☐ Mobile home or trailer – Ask 27
- ☐ All others – Skip to 28

27. Do you own the mobile home site or is it rented? (153) 1 ☐ Owned 2 ☐ Rented or occupied without payment of cash rent

28. Is this house (apartment) in a public housing project; that is, is it owned by a local housing authority or other public agency? (154) 1 ☐ Yes – Skip to 30a 2 ☐ No

29. Are you paying a lower rent because the Federal, State, or local Government is paying part of the cost? (155) 1 ☐ Yes 2 ☐ No

NOTE – *Ask all categories in 30a before asking 30b*

30a. (1) (In addition to rent), do you pay for electricity?	(156) 1 ☐ Yes, 2 ☐ No, included in rent or supplied free 3 ☐ No, electricity not used	**30b. (1) In the past 12 months, what was the average MONTHLY cost for electricity?** (157) $ _____ . ☐
(2) (In addition to rent), do you pay for gas?	(158) 1 ☐ Yes 2 ☐ No, included in rent or supplied free 3 ☐ No, gas not used	**(2) In the past 12 months, what was the average MONTHLY cost for gas?** (159) $ _____ . ☐
(3) (In addition to rent), do you pay for water?	(160) 1 ☐ Yes 2 ☐ No, included in rent or no charge	**(3) What is the YEARLY cost for water?** (161) $ _____ . ☐
(4) (In addition to rent), do you pay for oil, coal, kerosene, wood, or any other fuel?	(162) 1 ☐ Yes, 2 ☐ No, included in rent 3 ☐ No, these fuels not used or obtained free	**(4) What is the YEARLY cost for oil, coal, kerosene, wood, or any other fuel?** (163) $ _____ . ☐
(5) (In addition to rent), do you pay for garbage (food waste) collection?	(164) 1 ☐ Yes 2 ☐ No	**(5) What is the YEARLY cost for garbage (food waste) collection?** (165) $ _____ . ☐

NOTE – *Ask 30b only for those categories in 30a which were answered "Yes."*

NOTES

FORM AHS-2 (4-11-80) Page 17

Section IVB – OCCUPIED UNITS (Include URE) – Continued

CHECK ITEM F (See Check Item C, page 14)
- ☐ Rented for cash (box 6, 7, or 8 marked) – Ask 31
- ☐ Occupied without payment of cash rent (box 9, 10, or 11 marked) – Skip to Check Item G

31. Do you rent this apartment (house) furnished or unfurnished? (166) 1 ☐ Furnished 2 ☐ Unfurnished

CHECK ITEM G (See item 8, page 1)
- ☐ URE interview – Ask 32
- ☐ Regular interview – Skip to item 33

32. Is this UNIT intended for year-round use, for occupancy only on a seasonal basis or for use by migrant workers? (167) 8 ☐ YEAR ROUND (occupied temporarily at time of interview)
Seasonal
10 ☐ Summers only
11 ☐ Winters only
12 ☐ Other seasonal – Specify _____
9 ☐ Migratory
} Skip to Check Item I, page 22

33. In the past 12 months, how much did . . . earn in wages, salaries, tips and commissions before taxes and deductions?

(Obtain income for reference person and all household members 15+ RELATED TO REFERENCE PERSON by blood, marriage, or adoption.)

(If more than six persons, enter in the "Notes" beginning with the sixth person and then combine the amounts for all these persons on the last "Amount" line.)

Line No.	Amount (Dollars only)
(168) _____	(169) $ _____ . ☐
(170) _____	(171) $ _____ . ☐
(172) _____	(173) $ _____ . ☐
(174) _____	(175) $ _____ . ☐
(176) _____	(177) $ _____ . ☐
(178) _____	(179) $ _____ . ☐

Notes

34a. In the past 12 months, how much did this family (you) earn in net income from its (your) own business, professional practice or partnership?

(Exclude income previously reported in item 33. Probe if identical amounts are reported. Indicate that identical amounts are correct by marking this box ☐).

(180) $ _____ . ☐
(181) 1 ☐ None 2 ☐ Lost money (Enter amount LOST on line above)

b. In the past 12 months, how much did this family (you) earn in net income from its (your) own farm or ranch?

(Exclude income previously reported in items 33 and 34a. Probe if identical amounts are reported. Indicate that identical amounts are correct by marking this box ☐).

(182) $ _____ . ☐
(183) 1 ☐ None 2 ☐ Lost money (Enter amount LOST on line above)

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Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section IVB – OCCUPIED UNITS – Continued

NOTE – *Ask 35a for all categories before asking 35b.*

NOTE – *Ask 35b only for those categories in 35a which were answered "Yes"*

(Obtain income for reference person and all household members 15+ RELATED TO reference person by blood, marriage, or adoption.)

35a. In the past 12 months, did any member of this family (you) receive any money from –

35b. How much was received from (source of income) in the past 12 months?

(1) Social Security or Railroad Retirement payments?	(184) 1 ☐ Yes 2 ☐ No	(185) $ ____.__	
(2) Estates, trusts or dividends?	(186) 1 ☐ Yes 2 ☐ No	(187) $ ____.__	
(3) Interest on savings accounts or bonds?	(188) 1 ☐ Yes 2 ☐ No	(189) $ ____.__	
(4) Net rental income?	(190) 1 ☐ Yes 2 ☐ No	(191) $ ____.__	
(5) Welfare payments or other public assistance such as SSI?	(192) 1 ☐ Yes 2 ☐ No	(193) $ ____.__	
(6) Unemployment compensation?	(194) 1 ☐ Yes 2 ☐ No	(195) $ ____.__	
(7) Workmen's compensation?	(196) 1 ☐ Yes 2 ☐ No	(197) $ ____.__	
(8) Government employee pensions?	(198) 1 ☐ Yes 2 ☐ No	(199) $ ____.__	
(9) Veterans payments?	(200) 1 ☐ Yes 2 ☐ No	(201) $ ____.__	
(10) Private pensions or annuities?	(202) 1 ☐ Yes 2 ☐ No	(203) $ ____.__	
(11) Alimony or child support?	(204) 1 ☐ Yes 2 ☐ No	(205) $ ____.__	
(12) Regular contributions from persons not living in this household?	(206) 1 ☐ Yes 2 ☐ No	(207) $ ____.__	
(13) Anything else?	(208) 1 ☐ Yes 2 ☐ No	(209) $ ____.__	

NOTE – *Exclude income previously reported. Probe if an amount in item 35b is identical to an amount in item 33 or 34. Indicate that amounts are correct by marking this box* ☐.

CHECK ITEM H

(See Control Card item 11b and 11c)

☐ Household contains household members 15+ NOT RELATED TO THE REFERENCE PERSON by blood, marriage or adoption – *Ask 36*

☐ All others – *Skip to Check Item I, page 22*

Section IVB – OCCUPIED UNITS – Continued

36. In the past 12 months, how much did . . . earn in wages, salaries, tips and commissions before taxes and deductions? ——→

(Obtain income for household members 15+ NOT RELATED TO REFERENCE PERSON by blood, marriage, or adoption.)

37a. In the past 12 months, how much did . . . earn in net income from his (her) own business, professional practice or partnership? ——→

(Exclude income previously reported in items 34, 35, and 36. Probe if identical amounts are reported for an individual. Indicate that identical amounts are correct by marking this box ☐).

b. In the past 12 months, how much did . . . earn in net income from his (her) own farm or ranch? ——→

(Exclude income previously reported in items 34, 35, 36, and 37a. Probe if identical amounts are reported for an individual. Indicate that identical amounts are correct by marking this box ☐).

NOTE – *Ask 38b for each "Yes" response in 38a. Ask 38a (and 38b as appropriate) for all categories before asking 38c.*

38a. In the past 12 months, did . . . *(Names of household members 15+ NOT RELATED TO REFERENCE PERSON by blood, marriage or adoption)* receive any money from –		38b. Who received this type of income? *(Enter line numbers)*
(1) Social Security or Railroad Retirement payments?	(210) 1 ☐ Yes 2 ☐ No	
(2) Estates, trusts or dividends?	(211) 1 ☐ Yes 2 ☐ No	
(3) Interest on savings accounts or bonds?	(212) 1 ☐ Yes 2 ☐ No	
(4) Net rental income?	(213) 1 ☐ Yes 2 ☐ No	
(5) Welfare payments or other public assistance such as SSI?	(214) 1 ☐ Yes 2 ☐ No	
(6) Unemployment compensation?	(215) 1 ☐ Yes 2 ☐ No	
(7) Workmen's compensation?	(216) 1 ☐ Yes 2 ☐ No	
(8) Government employee pensions?	(217) 1 ☐ Yes 2 ☐ No	
(9) Veterans payments?	(218) 1 ☐ Yes 2 ☐ No	
(10) Private pensions or annuities?	(219) 1 ☐ Yes 2 ☐ No	
(11) Alimony or child support?	(220) 1 ☐ Yes 2 ☐ No	
(12) Regular contributions from persons not living in this household?	(221) 1 ☐ Yes 2 ☐ No	
(13) Anything else?	(222) 1 ☐ Yes 2 ☐ No	

NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section IVB – OCCUPIED UNITS – Continued

	(223) ____ Line No.	(242) ____ Line No.	(261) ____ Line No.	(280) ____ Line No.
36.	(224) $ ____.00	(243) $ ____.00	(262) $ ____.00	(281) $ ____.00
37a.	(225) $ ____.00 (226) 1 None 2 Lost money (Enter amount LOST on line above)	(244) $ ____.00 (245) 1 None 2 Lost money (Enter amount LOST on line above)	(263) $ ____.00 (264) 1 None 2 Lost money (Enter amount LOST on line above)	(282) $ ____.00 (283) 1 None 2 Lost money (Enter amount LOST on line above)
b.	(227) $ ____.00 (228) 1 None 2 Lost money (Enter amount LOST on line above)	(246) $ ____.00 (247) 1 None 2 Lost money (Enter amount LOST on line above)	(265) $ ____.00 (266) 1 None 2 Lost money (Enter amount LOST on line above)	(284) $ ____.00 (285) 1 None 2 Lost money (Enter amount LOST on line above)
38c.	How much did . . . receive from (source of income) in the past 12 months?	How much did . . . receive from (source of income) in the past 12 months?	How much did . . . receive from (source of income) in the past 12 months?	How much did . . . receive from (source of income) in the past 12 months?
(1)	(229) $ ____.00	(248) $ ____.00	(267) $ ____.00	(286) $ ____.00
(2)	(230) $ ____.00	(249) $ ____.00	(268) $ ____.00	(287) $ ____.00
(3)	(231) $ ____.00	(250) $ ____.00	(269) $ ____.00	(288) $ ____.00
(4)	(232) $ ____.00	(251) $ ____.00	(270) $ ____.00	(289) $ ____.00
(5)	(233) $ ____.00	(252) $ ____.00	(271) $ ____.00	(290) $ ____.00
(6)	(234) $ ____.00	(253) $ ____.00	(272) $ ____.00	(291) $ ____.00
(7)	(235) $ ____.00	(254) $ ____.00	(273) $ ____.00	(292) $ ____.00
(8)	(236) $ ____.00	(255) $ ____.00	(274) $ ____.00	(293) $ ____.00
(9)	(237) $ ____.00	(256) $ ____.00	(275) $ ____.00	(294) $ ____.00
(10)	(238) $ ____.00	(257) $ ____.00	(276) $ ____.00	(295) $ ____.00
(11)	(239) $ ____.00	(258) $ ____.00	(277) $ ____.00	(296) $ ____.00
(12)	(240) $ ____.00	(259) $ ____.00	(278) $ ____.00	(297) $ ____.00
(13)	(241) $ ____.00	(260) $ ____.00	(279) $ ____.00	(298) $ ____.00

NOTE – *Exclude income previously reported. Probe if an amount in item 38c is identical to an amount in item 36, 37a, or 37b. Indicate that identical amounts are correct by entering this fact.*

NOTES

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PGM 6

Section V – SUPPLEMENTAL ITEMS

CHECK ITEM I

(See Check Item C, page 14)

☐ Owned or being bought – One-unit structure on less than 10 acres and there is no commercial establishment or medical or dental office on the property (box 4 marked) – Ask 39c

☐ All others – *Skip to Check Item J*

39a. During the past 12 months –		
(1) Were any additions made to your property such as a room, basement, porch, or garage?	(299)	1 ☐ Yes 2 ☐ No – *Skip to b(1)*
(2) Did any one job cost $250 or more?	(300)	1 ☐ Yes 2 ☐ No
b. (1) Have any alterations been made to your property such as remodeling the kitchen or a bathroom, installing walks, driveways, fences, storm windows or doors, or planting trees or shrubbery?	(301)	1 ☐ Yes 2 ☐ No – *Skip to c(1)*
(2) Did any one job cost $250 or more?	(302)	1 ☐ Yes 2 ☐ No
c. (1) Have you had any replacement jobs on your property such as resurfacing the roof or outer walls, replacing gutters or downspouts, or replacing or installing fixed heating, electrical, or plumbing equipment? (Do not include appliances such as clothes washers, refrigerators, window air conditioners, etc.)	(303)	1 ☐ Yes 2 ☐ No – *Skip to d(1)*
(2) Did any one job cost $250 or more?	(304)	1 ☐ Yes 2 ☐ No
d. (1) Have you made any repairs on your property such as painting or papering a room, or patching a driveway or broken fence?	(305)	1 ☐ Yes 2 ☐ No – *Skip to Check Item J*
(2) Did any one job cost $250 or more?	(306)	1 ☐ Yes 2 ☐ No

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Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section V – SUPPLEMENTAL ITEMS – Continued

CHECK ITEM J

(See Check Item C, page 14)

Regular ownership (box 3, 4, or 5 marked)

(See items 22 and 23, page 15)

- [ ] Installment loan or contract, mortgage, deed of trust, or land contract – Ask 41
- [ ] All others – Skip to Check Item K

[ ] Owned as a condominium (box 2 marked) – Ask 40

[ ] All others – Skip to Check Item K

40. Do you have a mortgage or loan on this condominium or is it owned free and clear? (307)

1 [ ] Mortgage or loan
2 [ ] Owned free and clear – Skip to Check Item K

41. What kind of mortgage (loan) do you have? (308)

SHOW FLASHCARD E

1 [ ] Federal Housing Administration
2 [ ] Veterans Administration
3 [ ] Farmers Home Administration
4 [ ] Other mortgage

CHECK ITEM K

Mark all three parts (see cc21)

(1) Reference person lived here last 90 days . . . (309) 1 [ ] Yes 2 [ ] No

(2) Reference person lived here last winter . . . (310) 1 [ ] Yes 2 [ ] No

(3) Reference person MOVED here during the last 12 months . . (311) 1 [ ] Yes 2 [ ] No – Go to Check Item R, page 32

CHECK ITEM L

(1) *(See item B, page 1)*

[ ] URE Interview – Go to Check Item R, page 32

[ ] Regular Interview – Go to Check Item L(2) below

(2) *(See Check Item C, page 14)*

[ ] Owned or being bought (Regular ownership or owned as a condominium) – Go to Check Item L(3) below

[ ] Owned as a cooperative – Skip to 45a

[ ] Rented for cash or occupied without payment of cash – Skip to 46

(3) *(See item Ba, page 12)*

[ ] Mobile home or trailer – Go to Check Item M, page 24

[ ] All others – Ask 42a

NOTES

Section VI – RECENT MOVERS SUPPLEMENT

42a. Was this property (condominium unit) purchased in the past 12 months? (401)

1 [ ] Yes
2 [ ] No – Skip to Check Item M

b. When this house and lot (condominium unit) was acquired, what was the purchase price? Do not include closing costs. (402) $ _____ .00

43. What was the MAJOR source of the down payment used for the purchase or construction of this property (condominium unit)? (403)

1 [ ] Sale of previous home (only if sold during 12 month period preceding acquisition of present home)
2 [ ] Sale of other real property or other investment (including stock)
3 [ ] Savings (cash, bank deposits, share accounts, or bonds)
4 [ ] Borrowing other than a mortgage on this property
5 [ ] Gift
6 [ ] Land on which structure was built
7 [ ] Other – Specify
8 [ ] No down payment required

CHECK ITEM M

(See item 41, page 23)

[ ] Kind of mortgage specified (box 1, 2, 3 or 4 marked on "NA," "DK" or "REF" entered) – Ask 44a

[ ] Item 41 blank – Skip to 45a

44a. Earlier you told me that this property is mortgaged. When you acquired this property did you originate (place) a new mortgage or assume an existing mortgage? (404)

1 [ ] Originated mortgage
2 [ ] Assumed mortgage – Skip to 45a

b. At the time you acquired this property, what was the amount of the mortgage? Do not include second trusts, or any other loan associated with the property. (405) $ _____ .00

45a. Is this the first home . . . (Reference person) has ever owned as his (her) usual residence? (406)

1 [ ] Yes – Skip to 46
2 [ ] No – Ask 45b

b. Including this home, how many homes has . . . (Reference person) owned altogether? Do not include vacation homes, or homes purchased for commercial or rental purposes. (407)

1 [ ] Two
2 [ ] Three or more

46. Were you (was) (Reference person) the first occupant(s) of this house (apartment) or did someone else live here before you (Reference person)? (408)

1 [ ] First occupants
2 [ ] Previously occupied

47. The following questions are about the place where . . . (Reference person) lived before moving here. What was the address of . . .'s (Reference person) previous residence?

Address (Number and street)

City or town

County State ZIP code

OR

(409) 1 [ ] Outside the United States – Skip to 68, page 30

(409) [ ][ ][ ][ ][ ][ ]

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section VI – RECENT MOVERS SUPPLEMENT – Continued

48. **Please look at this card.**

SHOW FLASHCARD F

What are the reasons . . . (Reference person) moved FROM that residence?

(Mark all answers given)

EMPLOYMENT

(410) *
- 1 ☐ Job transfer
- 2 ☐ To look for work
- 3 ☐ To take a new job
- 4 ☐ Entered or left U.S. Armed Forces
- 5 ☐ Retirement

(411) *
- 6 ☐ Commuting reasons
- 7 ☐ To attend school
- 8 ☐ Other employment reasons – *Specify*

FAMILY

(412) *
- 09 ☐ Needed larger house or apartment
- 10 ☐ Divorced or separated
- 11 ☐ Widowed

(413) *
- 12 ☐ To be closer to relatives
- 13 ☐ Newly married
- 14 ☐ Family increased

(414) *
- 15 ☐ Family decreased
- 16 ☐ To establish own household
- 17 ☐ Other family reasons – *Specify*

OTHER

(415) *
- 18 ☐ Neighborhood overcrowded
- 19 ☐ Change in racial or ethnic composition of neighborhood
- 20 ☐ Crime

(416) *
- 21 ☐ Wanted neighborhood with children
- 22 ☐ Wanted neighborhood without children
- 23 ☐ Wanted better neighborhood

(417) *
- 24 ☐ Wanted more expensive place or better investment
- 25 ☐ Wanted to own residence
- 26 ☐ Wanted better house

(418) *
- 27 ☐ Wanted to rent residence
- 28 ☐ Wanted residence with more conveniences
- 29 ☐ Lower rent or less expensive house

(419) *
- 30 ☐ Wanted change of climate
- 31 ☐ Displaced by urban renewal, highway construction or other public activity
- 32 ☐ Displaced by private action

(420) *
- 33 ☐ Schools
- 34 ☐ Natural disaster
- 35 ☐ Other – *Specify*

INTERVIEWER INSTRUCTION
- Two or more boxes marked in item 48 – *Ask 49*
- If only ONE box is marked in item 48 – *Transcribe code to item 49 and fill Check item N, page 26*

49. **Of the reasons you just mentioned, what was the MAIN reason . . . (Reference person) moved from previous residence?**

(421) ☐☐ Box number of MAIN reason

FORM AHS-2 (4-11-80)

Section VI – RECENT MOVERS SUPPLEMENT – Continued

CHECK ITEM N

(See item 49, page 25)
- ☐ If 29 entered in item 49 – *Ask 50a*
- ☐ If 32 entered in item 49 – *Skip to 50b*
- ☐ All others – *Skip to 51*

50a. **Did you want or need lower rent or a less expensive house because . . .'s (Reference person) income was reduced, . . .'s (Reference person) housing costs greatly increased, or some other reason?**

(Mark all answers given)

(422) *
- 1 ☐ Income reduced
- 2 ☐ Housing costs greatly increased
- 3 ☐ Other – *Specify*

Skip to 51

b. **Were you displaced because –**

(Read answer categories and mark all answers given)

SHOW FLASHCARD G

(423) *
- 1 ☐ **The owner was converting the building to a condominium?**
- 2 ☐ **The owner closed the building for rehabilitation?**
- 3 ☐ **The owner closed the building but gave no reason?**
- 4 ☐ **The owner sold the building?**
- 5 ☐ **The rents were raised?**
- 6 ☐ **The building was converted to nonresidential use?**

(424)
- 7 ☐ **Other reason? – *Specify***

NOTES

FORM AHS-2 (4-11-80)

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section VI – RECENT MOVERS SUPPLEMENT – Continued

51a. Please look at this card.
SHOW FLASHCARD H

What are the reasons . . . *(Reference person)* moved TO this particular neighborhood?

(Mark all answers given)

b. What are the reasons . . . *(Reference person)* moved TO this particular residence?

(Mark all additional answers given)

EMPLOYMENT

425 1 ☐ Job transfer
2 ☐ To look for work
3 ☐ To take a new job
4 ☐ Entered U.S. Armed Forces
5 ☐ Retirement
6 ☐ Commuting reasons
426 7 ☐ To attend school
8 ☐ Other employment reasons – *Specify*

FAMILY

427 9 ☐ Needed larger house or apartment
10 ☐ To be closer to relatives
11 ☐ Other family reasons – *Specify*

OTHER

428 12 ☐ Neighborhood less crowded
13 ☐ Racial or ethnic composition of neighborhood
14 ☐ Low crime rate
429 15 ☐ Wanted neighborhood with children
16 ☐ Wanted neighborhood without children
17 ☐ Wanted better neighborhood
430 18 ☐ Wanted more expensive place or better investment
19 ☐ Residence with more conveniences
20 ☐ Lower rent or less expensive house
431 21 ☐ Change of climate
22 ☐ Schools
23 ☐ Other – *Specify*

INTERVIEWER INSTRUCTIONS
Two or more boxes marked in item 51 – *Ask 52*
If only ONE box is marked in item 51 – *Transcribe code to item 52 and skip to 53a*

52. Of all the reasons listed above, what is the MAIN reason . . . *(Reference person)* moved to this particular residence or neighborhood?

432 ☐☐ Box number of MAIN reason

FORM AHS-2 (4-11-80)

Section VI – RECENT MOVERS SUPPLEMENT – Continued

53a. Was . . . *(Reference person)* the person or one of the persons who owned or rented the previous residence at the time he (she) moved?

433
1 ☐ Respondent is the reference person – *Skip to INTERVIEWER INSTRUCTION*
2 ☐ Respondent is not the reference person – *Ask 53b*
3 ☐ No – *Skip to item 68, page 30*

b. Were you also a member of . . .'s *(Reference person)* household in the previous residence?

434
1 ☐ Yes
2 ☐ No

INTERVIEWER INSTRUCTION
If the respondent is the reference person, or if "Yes," was marked in 53b – *Ask questions 54–67 in terms of "your" previous residence.* If "No" was marked in 53b – *Ask questions 54–67 in terms of "reference person's" previous residence.*

54. How many rooms were in . . .'s *(Reference person)* previous residence? Do not count bathrooms, porches, balconies, halls, foyers, or half-rooms.

435 _____ Number

55. How many bedrooms were in . . .'s *(Reference person)* previous residence? Count rooms used mainly for sleeping, even if used for other purposes.

436 _____ Number

56. How many persons were living in . . .'s *(Reference person)* previous residence at the time . . . *(Reference person)* moved?

437 _____ Number

57. Were there complete plumbing facilities in the building where . . . *(Reference person)* lived before; that is, hot and cold piped water, a flush toilet, and a bathtub or shower?

☐ Yes – ▶ Were these facilities used by . . .'s *(Reference person)* household only?
438
1 ☐ Yes – Used for that household only
2 ☐ No – Also used by another household
3 ☐ No

58. How many living quarters, both occupied and vacant, were in the building where . . .'s *(Reference person)* previous residence was located?

439
1 ☐ Mobile home or trailer (no permanent room attached)
2 ☐ One, detached from any other building
3 ☐ One, attached to one or more buildings
4 ☐ 2
5 ☐ 3 or 4
6 ☐ 5 to 9
7 ☐ 10 to 19
8 ☐ 20 to 49
9 ☐ 50 or more

59a. Was . . .'s *(Reference person)* previous residence owned or being bought by someone in the household?

(Probe to be asked only for cooperatives)
To the Census Bureau, a cooperative is property which is owned by a corporation. Each shareholder is entitled to occupy an individual unit. Is this what you mean when you say that was a cooperative?

440
☐ Yes
Was it owned as a cooperative or condominium?
1 ☐ No – *Skip to Check Item O*
2 ☐ Yes, a cooperative – *Ask probe – Skip to 68, page 30*
3 ☐ Yes, a condominium – *Skip to 61*
☐ No – *Ask 59b*

b. Was it rented for cash rent or occupied without payment of cash rent?

440
4 ☐ Rented for cash
5 ☐ Occupied without payment of cash rent

FORM AHS-2 (4-11-80)

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section VI – RECENT MOVERS SUPPLEMENT – Continued

CHECK ITEM O

TENURE OF PREVIOUS RESIDENCE *(See item 59, page 28)*

OWNED OR BEING BOUGHT *("Yes" marked in 59a)*
(See item 58, page 28)
- ☐ One-unit structure – *Ask 60a*
- ☐ Two-or-more unit structure, or a mobile home or trailer – *Skip to 68, page 30*

RENTED FOR CASH OR OCCUPIED WITHOUT PAYMENT OF CASH RENT *(Box 4 or 5 marked in 59b)*
(See item 58, page 28)
- ☐ One-unit structure – *Skip to 62*
- ☐ Two-or-more unit structure, or a mobile home or trailer – *Skip to Check Item P*

60a. Was that house on a place of 10 acres or more? (441) 1 ☐ Yes – *Skip to 68, page 30* 2 ☐ No

b. Was there a commercial establishment or medical or dental office on the property? (442) 1 ☐ Yes – *Skip to 68, page 30* 2 ☐ No

61. What was the value of that property when . . . *(Reference person)* moved; that is, about how much did that property (house and lot) (condominium unit), sell for, or would have sold for, had it been for sale?

SHOW FLASHCARD D

(443)
1 ☐ Less than $5,000
2 ☐ $ 5,000 – $ 7,499
3 ☐ 7,500 – 9,999
4 ☐ 10,000 – 12,499
5 ☐ 12,500 – 14,999
6 ☐ 15,000 – 17,499
7 ☐ 17,500 – 19,999
8 ☐ 20,000 – 22,499
9 ☐ 22,500 – 24,999
10 ☐ 25,000 – 27,499
11 ☐ 27,500 – 29,999
12 ☐ 30,000 – 34,999
13 ☐ 35,000 – 39,999
14 ☐ 40,000 – 44,999
15 ☐ 45,000 – 49,999
16 ☐ 50,000 – 54,999
17 ☐ 55,000 – 59,999
18 ☐ 60,000 – 64,999
19 ☐ 65,000 – 69,999
20 ☐ 70,000 – 74,999
21 ☐ 75,000 – 79,999
22 ☐ 80,000 – 89,999
23 ☐ 90,000 – 99,999
24 ☐ 100,000 – 124,999
25 ☐ 125,000 – 149,999
26 ☐ 150,000 – 199,999
27 ☐ 200,000 – 249,999
28 ☐ 250,000 – 299,999
29 ☐ 300,000 or more

Skip to 68, page 30

62. Was that house on a place of 10 acres or more? (444) 1 ☐ Yes – *Skip to 68* 2 ☐ No

CHECK ITEM P

(See item 59b, page 28)
- ☐ Rented for cash – *Ask 63*
- ☐ Occupied without payment of cash rent – *Skip to 64, page 30*

63. What was the MONTHLY rent for . . .'s *(Reference person)* previous apartment (house)?

(If rent was not paid by the month, write amount and time period covered in "Notes" space, then compute MONTHLY rent and enter on line provided.)

(Include site rent for mobile homes if it was paid separately.)

(445) $ _____ .00 Per month

Notes

Section VI – RECENT MOVERS SUPPLEMENT – Continued

64. Was that house (apartment) in a public housing project; that is, was it owned by a local housing authority or other public agency? (446) 1 ☐ Yes – *Skip to 66a* 2 ☐ No

65. Did . . . *(Reference person)* pay a lower rent because the Federal, State, or local government was paying part of the cost? (447) 1 ☐ Yes 2 ☐ No

NOTE – *Ask all categories in 66a before asking 66b*

66a.	66b.
(1) (In addition to rent), did . . . *(Reference person)* pay for electricity? (448) 1 ☐ Yes 2 ☐ No, included in rent or supplied free 3 ☐ No, electricity not used	(1) What was the average MONTHLY cost for electricity? (449) $ _____ .00
(2) (In addition to rent), did . . . *(Reference person)* pay for gas? (450) 1 ☐ Yes 2 ☐ No, included in rent or supplied free 3 ☐ No, gas not used	(2) What was the average MONTHLY cost for gas? (451) $ _____ .00
(3) (In addition to rent), did . . . *(Reference person)* pay for water? (452) 1 ☐ Yes 2 ☐ No, included in rent or no charge	(3) What was the YEARLY cost for water? (453) $ _____ .00
(4) (In addition to rent), did . . . *(Reference person)* pay for oil, coal, kerosene, wood, or any other fuel? (454) 1 ☐ Yes 2 ☐ No, included in rent 3 ☐ No, these fuels not used or obtained free	(4) What was the YEARLY cost for oil, coal, kerosene, wood, or any other fuel? (455) $ _____ .00
(5) (In addition to rent), did . . . *(Reference person)* pay for garbage (food waste) collection? (456) 1 ☐ Yes 2 ☐ No	(5) What was the YEARLY cost for garbage (food waste) collection? (457) $ _____ .00

NOTE – *Ask 66b only for those categories in 66a which were answered "Yes"*

CHECK ITEM Q

(See item 59b, page 28)
- ☐ Rented for cash – *Ask 67*
- ☐ Occupied without payment of cash rent – *Skip to 68*

67. Did . . . *(Reference person)* rent the apartment (house) furnished or unfurnished? (458) 1 ☐ Furnished 2 ☐ Unfurnished

68. Besides the move to this residence, how many other times did . . . *(Reference person)* move in the past 12 months?

Do not include visits or vacations

(459) 1 ☐ None 2 ☐ One 3 ☐ Two 4 ☐ Three or more

NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section VI – RECENT MOVERS SUPPLEMENT – Continued

INTERVIEWER INSTRUCTION — *(Refer to Control Card item 10)* *Enter line number of respondent for items 69–71*

(460) ☐☐ Line number of respondent for items 69–71

69. In what State was . . . *(Reference person)* born?

_____ State

OR

(461) o ☐ Outside the United States

(461) ☐☐

70a. At age 16, did . . . *(Reference person)* live in this area?

(462) 1 ☐ Yes – *Skip to 71a*
2 ☐ No

b. Which of these categories best describes the place where . . . *(Reference person)* lived at age 16?

SHOW FLASHCARD I

(463) 1 ☐ A suburb near a large city
2 ☐ A large city
3 ☐ A medium size city or its suburbs
4 ☐ A small city
5 ☐ A town or village
6 ☐ Open country, but not a farm
7 ☐ A farm
8 ☐ Other – *Specify*

c. In what State was that place located?

_____ State

OR

(464) o ☐ Outside the United States

(464) ☐☐

71a. Five years from now, would . . . *(Reference person)* prefer to be living in this area or someplace else?

(465) 1 ☐ Same area – *Skip to Check Item R, page 32*
2 ☐ Someplace else

b. In what State would . . . *(Reference person)* prefer to be living 5 years from now?

_____ State

OR

(466) o ☐ Outside the United States – *Skip to Check Item R, page 32*

(466) ☐☐

c. Which of these categories best describes the place . . . *(Reference person)* would prefer to live 5 years from now?

SHOW FLASHCARD I

(467) 1 ☐ A suburb near a large city
2 ☐ A large city
3 ☐ A medium size city or its suburbs
4 ☐ A small city
5 ☐ A town or village
6 ☐ Open country, but not a farm
7 ☐ A farm
8 ☐ Other – *Specify*

d. Within the next 5 years, how likely is . . . *(Reference person)* to move to the place just indicated – very likely, likely, not very likely, or no chance at all?

(468) 1 ☐ Very likely
2 ☐ Likely
3 ☐ Not very likely
4 ☐ No chance at all
5 ☐ Don't know

Section VII – MIGRATION SUPPLEMENT

CHECK ITEM R — *(See cc item 21)*

☐ Reference person moved in after April 1, 1975 – Ask 72
☐ All others – *Skip to Check Item S*

72. On April 1, 1975, in which State, county, and place did . . . *(Reference person)* live?

State

County

Place

OR

(469) o ☐ Outside the United States – *Skip to Check Item S*

(469) ☐☐☐☐☐

73. Did . . . *(Reference person)* live inside the incorporated limits of *(Name of place in item 72)*?

(470) 1 ☐ Yes
2 ☐ No, lived outside incorporated limits or place not incorporated

NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section VIII – ENERGY CONSERVATION SUPPLEMENT

CHECK ITEM S

(See item 12, page 13)

☐ Box 9, "No heating equipment" marked in item 12 – *Skip to Check Item U, page 34*

☐ All others – *Read introduction and ask 74a*

INTRODUCTION The following questions are concerned with heating equipment, type of fuel used, and insulation.

74a. Does this house (apartment) have a fireplace or heating stove? (S01) 1 ☐ Yes 2 ☐ No – *Skip to Check Item T*

b. Is it (Are any of them) now in working order? (S02) 1 ☐ Yes 2 ☐ No – *Skip to Check Item T*

c. In the past 12 months, what was the MAIN fuel used in the fireplace or heating stove? (S03) 1 ☐ Wood or wood by-products 2 ☐ Coal 3 ☐ Other fuel 4 ☐ None } *Skip to Check Item T*

d. In the past 12 months, was ALL the wood or wood by-products, used in the fireplace or heating stove purchased? (S04) 1 ☐ Yes 2 ☐ No

CHECK ITEM T

MAIN HEATING EQUIPMENT

(See item 12, page 13)

1 ☐ Central warm-air furnace with ducts in individual rooms
2 ☐ Heat pump
3 ☐ Steam or hot water system
4 ☐ Built-in electric units (permanently installed in wall, ceiling, or baseboard)
5 ☐ Floor, wall or pipeless furnace
6 ☐ Room heaters WITH flue or vent burning gas, oil, or kerosene
} *Ask 75*

7 ☐ Room heaters WITHOUT flue or vent burning gas, oil, or kerosene
8 ☐ Fireplaces, stoves, or portable room heaters
} *Ask 75*

9 ☐ Item 12 blank, DK, NA, or Refused – *Go to Check Item U*

75. Earlier you told me that your main heating equipment is *(Specify heating equipment marked in Check Item T)*. Please look at this card.

SHOW FLASHCARD J

In the past 12 months, have you obtained any of these items as supplementary equipment or appliances to heat this house (apartment)?

(Mark all answers given)

(S05) Yes

1 ☐ Solar heating equipment
2 ☐ Wood or coal burning stove
3 ☐ Fireplace burning wood or coal
4 ☐ Portable electric heater
5 ☐ Room heater (WITHOUT flue or vent) which burns gas, oil, or kerosene
6 ☐ Something else – *Specify*

7 ☐ No

Section VIII – ENERGY CONSERVATION SUPPLEMENT – Continued

CHECK ITEM U

(See items 13a–c, page 13)

☐ Central air conditioning – *Ask 76*

☐ Room units or no air conditioning – *Skip to 77*

76. Earlier you told me that there is central air conditioning in this house (apartment). Which of the following do you use to reduce your use of central air conditioning?

(Read answer categories and mark all answers given)

(S07)
1 ☐ Individual room air conditioning unit
2 ☐ Awnings
3 ☐ Dehumidifer
4 ☐ Ceiling fan
5 ☐ Attic fan
6 ☐ Window fan
(S08) 7 ☐ Portable fan
8 ☐ None

77. Which fuel is used most for cooking?

(S09) Gas
1 ☐ From underground pipes, serving the neighborhood
2 ☐ Bottled, tank or LP
3 ☐ Electricity
4 ☐ Fuel oil
5 ☐ Kerosene, etc.
6 ☐ Coal or coke
7 ☐ Wood
8 ☐ Other fuel
9 ☐ No fuel used

78a. Which fuel is used most for heating the hot piped water?

(S10) Gas
1 ☐ From underground pipes, serving the neighborhood
2 ☐ Bottled, tank, or LP
3 ☐ Electricity
4 ☐ Fuel oil
5 ☐ Kerosene, etc.
6 ☐ Coal or coke
7 ☐ Wood
8 ☐ Solar heat – *Skip to Check Item W*
9 ☐ Other fuel – *Specify*

0 ☐ No fuel used – *Skip to Check Item W*

b. Do you have a solar water heating unit which you use in addition to your main water heating equipment? (S11) 1 ☐ Yes 2 ☐ No

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section VIII – ENERGY CONSERVATION SUPPLEMENT – Continued

CHECK ITEM W

(See cc item 14)

☐ SAME household interviewed last enumeration period (at least one entry in "79" year column of item 14 of the current Control Card) – *Skip to Check Item X*

☐ All others – *Ask 79*

79. In the last 12 months has there been a change in the type of fuel used to heat this house (apartment)?

(S12) 1 ☐ Yes
2 ☐ No
3 ☐ Don't know

CHECK ITEM X

(See item 8a, page 12)

☐ One-unit structure or mobile home or trailer – *Ask 80a*

☐ Two-or-more unit structure – *Skip to Check Item Z, page 36*

80a. Does this house (mobile home or trailer) have storm windows, double-glazed glass, plastic window covers, closeable shutters or other protective window coverings that are used to help reduce heat loss during the winter?

(S13) 1 ☐ Yes, all windows
2 ☐ Yes, some windows
Ask 80b →
3 ☐ No – *Ask 81a*

b. During the past 12 months, have any of the following been installed –

Storm windows on windows where there were none before? . . . (S14) 1 ☐ Yes 2 ☐ No

Closeable shutters on windows where there were none before? . . . (S15) 1 ☐ Yes 2 ☐ No

Any other protective window coverings on windows where there were none before? . . . (S16) 1 ☐ Yes 2 ☐ No

81a. Does this house (mobile home or trailer) have storm doors?

(S17) 1 ☐ Yes, all doors
2 ☐ Yes, some doors
Ask 81b →
3 ☐ No – *Ask 82a*

b. During the past 12 months, were any storm doors installed where there were none before? (S18) 1 ☐ Yes 2 ☐ No

82a. Does this house (mobile home or trailer) have attic or roof insulation?

(S19) 1 ☐ Yes – *Ask 82b →*
2 ☐ No – *Ask 83*
3 ☐ Don't know–*Ask 83*

b. During the past 12 months, was attic or roof insulation added or installed? (S20) 1 ☐ Yes 2 ☐ No

83. During the past 12 months, were any of the following added or installed –

(1) Wall insulation? . . . . . (S21) 1 ☐ Yes 2 ☐ No

(2) Caulking or weather stripping? . . . . . (S22) 1 ☐ Yes 2 ☐ No

(3) Insulation for hot water pipes or hot water heater? . . . (S23) 1 ☐ Yes 2 ☐ No

(4) Insulation in floors or crawl spaces? . . . . . (S24) 1 ☐ Yes 2 ☐ No

(5) Any other thermal or heat insulation? . . . . . (S25) 1 ☐ Yes 2 ☐ No
What kind? _____

CHECK ITEM Y

(See item 7a and 7b, page 12)

Owned or being bought (first "Yes" box marked in item 7) AND

☐ "Yes" marked in 80b OR 81b OR 82b OR 83 – *Ask 84*

☐ All others – *Skip to Check Item Z*

84. What was the total cost of the (Specify "Yes" answers *mentioned in items 80b, 81b, 82b, and 83)* which was (were) added or installed during the past 12 months?

(S26) 1 ☐ $1–49
2 ☐ 50–99
3 ☐ 100–249
4 ☐ 250–499
5 ☐ 500–999
6 ☐ 1,000 or more
7 ☐ Don't know
8 ☐ No charge, or none

Section IX – CONDOMINIUM/COOPERATIVE SUPPLEMENT

CHECK ITEM Z

(See Check Item C, page 14)

☐ Owned as a cooperative (box 1 marked) – *Ask 86*

☐ Owned as a condominium (box 2 marked – *Ask 86*

☐ Rented for cash or occupied without payment of cash rent (box 6, 7, 8, 9, 10 or 11 marked) – *Ask 85*

☐ All other (box 3, 4 or 5) – *Skip to Check Item BB, page 39*

85. Is this apartment (house) part of a condominium?

(S27) 1 ☐ Yes – *Skip to 88*
2 ☐ No – *Go to Check Item BB, page 39*

86. Was this building converted from rental units to condominium (cooperative) units?

(S28) 1 ☐ Yes
2 ☐ No
3 ☐ Don't know
} *Skip to 88*

87. In what year was this unit converted to condominium (cooperative) ownership?

(S29) 1 ☐ 1979–1980
2 ☐ 1976–1978
3 ☐ 1970–1975
4 ☐ Before 1970
5 ☐ Don't know

88. A development is a building or group of buildings under a single management. How many condominium (cooperative) units are there in THIS development?

(Read categories)

(S30) 1 ☐ Less than 50
2 ☐ 50–99
3 ☐ 100–499
4 ☐ 500 or more
5 ☐ Don't know

89. Are any of the (any other) units in this development rented or for rent?

(S31) 1 ☐ Yes
2 ☐ No
3 ☐ Don't know

CHECK ITEM AA

(1) *(See item 8, page 1)*

☐ URE Interview – *Skip to Check Item BB, page 39*

☐ Regular Interview – *Go to Check Item AA(2) below*

(2) *(See Check Item C, page 14)*

☐ Owned as a condominium (box 2 marked) – *Go to Check Item AA(3) below*

☐ All others – *Skip to Check Item BB, page 39*

(3) *(See item 41, page 23)*

☐ Kind of mortgage specified (box 1, 2, 3 or 4 marked or "NA," "DK" or "REF" entered) – *Ask 90*

☐ Item 41 blank – *Skip to 91*

90. Earlier you told me that this unit is mortgaged. What are the required payments to the lender? If more than one mortgage (loan) on this condominium give total amount of payments.

(S34) $ _____ .00
PER
(S35) 1 ☐ Month
2 ☐ Year
3 ☐ Other – *Specify* _____

91a. Do you pay for fire and hazard insurance?

(S36) 1 ☐ Yes
2 ☐ No – *Skip to 92*

b. What is the YEARLY cost?
Also include the cost of any fire and hazard insurance that is included in mortgage payments.

(S37) $ _____ .00

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section IX – CONDOMINIUM/COOPERATIVE SUPPLEMENT – Continued

92a. Are the real estate taxes included in the mortgage payment?	(538)	1 ☐ Yes – Ask c. 2 ☐ No
b. Do you pay real estate taxes separately?	(539)	1 ☐ Yes 2 ☐ No – Skip to 93
c. What is the YEARLY cost? (Do not include taxes in arrears from previous years)	(540)	$_____.00
93. How much is your condominium fee?	(541)	$_____.00 PER
	(542)	1 ☐ Month 2 ☐ Year 3 ☐ Other – Specify
94a. Does your condominium fee include electricity?	(543)	1 ☐ Yes – Skip to 95a 2 ☐ No
b. Do you pay for electricity separately?	(544)	1 ☐ Yes 2 ☐ No or electricity not used – Skip to 95a
c. In the past 12 months, what was the average MONTHLY cost for electricity?	(545)	$_____.00
95a. Does your condominium fee include gas?	(546)	1 ☐ Yes – Skip to 96a 2 ☐ No
b. Do you pay for gas separately?	(547)	1 ☐ Yes 2 ☐ No or gas not used – Skip to 96a
c. In the past 12 months, what was the average MONTHLY cost for gas?	(548)	$_____.00
96a. Does your condominium fee include water?	(549)	1 ☐ Yes – Skip to 97a 2 ☐ No
b. Do you pay for water separately?	(550)	1 ☐ Yes 2 ☐ No – Skip to 97a
c. What is the YEARLY cost for water?	(551)	$_____.00
97a. Does your condominium fee include oil, coal, kerosene, or wood or any other fuel?	(552)	1 ☐ Yes – Skip to 98a 2 ☐ No
b. Do you pay for oil, coal, kerosene, or wood or other fuel separately?	(553)	1 ☐ Yes 2 ☐ No – Skip to 98a
c. What is the YEARLY cost for oil, coal, kerosene and wood or any other fuel?	(554)	$_____.00
98a. Does your condominium fee include garbage (food waste) collection?	(555)	1 ☐ Yes – Skip to 99 2 ☐ No
b. Do you pay for garbage (food waste) collection separately?	(556)	1 ☐ Yes 2 ☐ No – Skip to 99
c. What is the YEARLY cost for garbage (food waste) collection?	(557)	$_____.00

Section IX – CONDOMINIUM/COOPERATIVE SUPPLEMENT – Continued

99. Does your condominium fee include –		
(1) Upkeep and maintenance of the common space and grounds?	(558)	1 ☐ Yes 2 ☐ No
(2) Off-street parking?	(559)	1 ☐ Yes 2 ☐ No
(3) Swimming facilities?	(560)	1 ☐ Yes 2 ☐ No
(4) Other recreational facilities?	(561)	1 ☐ Yes 2 ☐ No
(5) Security personnel?	(562)	1 ☐ Yes 2 ☐ No
(6) Anything else?	(563)	1 ☐ Yes – Please specify _____ 2 ☐ No

NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section X – MOBILE HOME SUPPLEMENT

CHECK ITEM BB (See item 8a, page 12)
- ☐ Mobile home or trailer (no permanent room attached) – Ask 100
- ☐ All others – Skip to Check Item JJ, page 47

100. Including this mobile home, how many mobile homes has . . . (Reference person) owned or rented as a primary residence?
(Do not include mobile homes purchased, or rented for commercial purposes or used as a second home)
(601) 1 ☐ One 2 ☐ Two 3 ☐ Three or more

101. Is this mobile home anchored, that is, is it secured with tiedowns or by other means?
(602) 1 ☐ Yes 2 ☐ No 3 ☐ Don't know

102. Is this mobile home on a permanent masonry foundation, resting on a concrete pad, up on blocks but not on a concrete pad, or set up some other way?
(603) 1 ☐ Permanent masonry foundation 2 ☐ Concrete pad 3 ☐ Up on blocks, no concrete pad 4 ☐ Other – Specify. _____

103a. Is this mobile home a single-wide or a double-wide?
(604) 1 ☐ Single wide 2 ☐ Double wide

b. What is the width of this mobile home?
(605) 1 ☐ Less than 8 feet 2 ☐ 8 feet 3 ☐ 10 feet 4 ☐ 12 feet 5 ☐ 14 feet 6 ☐ 16 feet 7 ☐ 20 feet 8 ☐ 24 feet or more

CHECK ITEM CC (See item 21b, page 15)
- ☐ Mobile home was NEW when acquired – Ask 104
- ☐ All others – Skip to Check Item DD page 40

104. Who set up this mobile home on this site?
(606) 1 ☐ Dealer 2 ☐ Professional set-up person employed by dealer or park 3 ☐ Professional mover or transport company who specializes in mobile home installation 4 ☐ Manufacturer 5 ☐ Household member 6 ☐ Other – Specify. _____

NOTES

Section X – MOBILE HOME SUPPLEMENT – Continued

105. When you acquired your mobile home, did you receive –

a. An owner's manual?
(607) 1 Yes 2 No 3 Don't know

b. An owner information card?
(608) 1 Yes 2 No 3 Don't know

c. Set-up or installation instructions?
(609) 1 Yes 2 No 3 Don't know

d. A full warranty on the mobile home?
(610) 1 Yes – Skip to Check Item DD 2 No 3 Don't know

e. A limited warranty on the mobile home?
(611) 1 Yes 2 No 3 Don't know

CHECK ITEM DD (See item 7a and b, page 12)
- ☐ Owned or being bought (first "Yes" marked in item 7a) – Ask 106a
- ☐ Rented for cash or occupied without payment of cash rent – Skip to 110a, page 42

106a. Was this mobile home placed on this site in the past 12 months?
(612) 1 Yes – Ask (b) 2 No – Skip to 110a, page 42

b. Was this mobile home damaged while being transported?
(613) 1 Yes 2 No – Skip to 107a

c. Describe the damage.
Description of damage _____

SHOW FLASHCARD K

d. Please look at this card. Who repaired the damage(s)?
(Mark all answers given)
(614) 1 Dealer or someone hired by dealer 2 Manufacturer 3 Household member 4 Someone hired by a household member 5 Someone else 6 Not repaired or not resolved

107a. At the time of installation, were there problems connecting this mobile home to any utility because the utility connections on this mobile home did not fit or work properly?
(615) 1 Yes 2 No – Skip to 108a

b. Which of the following utility connections did not fit or work properly –
(Read all answer categories)
(616) 1 Electricity? 2 Natural gas? 3 Bottled gas? 4 Water supply? 5 Sewage disposal? 6 Other – Specify _____

SHOW FLASHCARD K

c. Please look at this card. Who fixed this (these) problem(s)?
(Mark all answers given)
(617) 1 Dealer or someone hired by dealer 2 Manufacturer 3 Household member 4 Someone hired by a household member 5 Someone else 6 Not repaired or not resolved

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section X – MOBILE HOME SUPPLEMENT – Continued

108a. At the time of installation, was this mobile home correctly leveled? (618) 1 [ ] Yes – *Skip to 109a* 2 [ ] No

b. Did this cause any problems? (619) 1 [ ] Yes 2 [ ] No – *Skip to 109a*

c. Describe the problem(s). Description of problem(s)

SHOW FLASHCARD K

d. Please look at this card. Who fixed the problem(s)? *(Mark all answers given)* (620) * 1 [ ] Dealer or someone hired by the dealer 2 [ ] Manufacturer 3 [ ] Household member 4 [ ] Someone hired by a household member 5 [ ] Someone else 6 [ ] Not repaired or not resolved

109a. Did you have any other installation problems? (621) 1 [ ] Yes 2 [ ] No – *Skip to 110a*

b. What were these problems? Description of problems

SHOW FLASHCARD K

c. Please look at this card. Who fixed this (these) problem(s)? *(Mark all answers given)* (622) * 1 [ ] Dealer or someone hired by the dealer 2 [ ] Manufacturer 3 [ ] Household member 4 [ ] Someone hired by a household member 5 [ ] Someone else 6 [ ] Not repaired or not resolved

NOTES

Section X – MOBILE HOME SUPPLEMENT – Continued

INTERVIEWER INSTRUCTION > Ask 110a for all categories before asking 110b and 110c.

110a. **IN THE PAST 12 MONTHS**, did you have –

(1) Any problems with uneven settling of blocks, foundation, or supports?	(623) 1 [ ] Yes 2 [ ] No
[ ] Single-wide – Skip to (3)	
(2) Any problems with joining of double-wide sections?	(624) 1 [ ] Yes 2 [ ] No
(3) Any leaks in the roof?	(625) 1 [ ] Yes 2 [ ] No
(4) Any other roof problems?	(626) 1 [ ] Yes 2 [ ] No
(5) Warped siding or other siding problems?	(627) 1 [ ] Yes 2 [ ] No
(6) Air leaks in the walls?	(628) 1 [ ] Yes 2 [ ] No
(7) Any inoperative doors or windows?	(629) 1 [ ] Yes 2 [ ] No
(8) Any other outside wall problems?	(630) 1 [ ] Yes 2 [ ] No
(9) Buckling of inside walls?	(631) 1 [ ] Yes 2 [ ] No
(10) Any other inside wall problems?	(632) 1 [ ] Yes 2 [ ] No
(11) Buckling floors?	(633) 1 [ ] Yes 2 [ ] No
(12) Holes in the floors?	(634) 1 [ ] Yes 2 [ ] No
(13) Any other floor problems?	(635) 1 [ ] Yes 2 [ ] No
(14) Any problems with electrical wiring?	(636) 1 [ ] Yes 2 [ ] No
(15) Any problems with electrical fixtures, outlets, etc.?	(637) 1 [ ] Yes 2 [ ] No
(16) Any large appliance breakdowns? Include original equipment only.	(638) 1 [ ] Yes 2 [ ] No
(17) Any other electrical problems?	(639) 1 [ ] Yes 2 [ ] No
(18) Any leaking pipes or plumbing fixtures?	(640) 1 [ ] Yes 2 [ ] No
(19) Any water heater problems?	(641) 1 [ ] Yes 2 [ ] No
(20) Any sewer or septic tank problems?	(642) 1 [ ] Yes 2 [ ] No
(21) Any other plumbing problems?	(643) 1 [ ] Yes 2 [ ] No
No heating equipment – Skip to (24)	
(22) A breakdown in the heating equipment, that is, was it completely unusable for 6 consecutive hours or more?	(644) 1 [ ] Yes 2 [ ] No
(23) Any other heating problems?	(645) 1 [ ] Yes 2 [ ] No
No air-conditioning – Skip to (25)	
(24) Any air-conditioning problem?	(646) 1 [ ] Yes 2 [ ] No
(25) Any interior odors or fumes? Do not include cooking odors	(647) 1 [ ] Yes 2 [ ] No

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section X – MOBILE HOME SUPPLEMENT – Continued

NOTE – *Ask 110b and c only for those categories in 110a which were answered "Yes"*

110b. IN THE PAST 12 MONTHS, how many problems did you have with (Specify problem in 110a)	110c. SHOW FLASHCARD K. Please look at this card. Who repaired this (these) problem(s)? *Mark all answers given*					
	Dealer or someone hired by dealer	Manufacturer	Household member	Someone hired by household member	Someone else	Problem not repaired
(1) (648) _____ Number	(673) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(2) (649) _____ Number	(674) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(3) (650) _____ Number	(675) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(4) (651) _____ Number	(676) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(5) (652) _____ Number	(677) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(6) (653) _____ Number	(678) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(7) (654) _____ Number	(679) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(8) (655) _____ Number	(680) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(9) (656) _____ Number	(681) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(10) (657) _____ Number	(682) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(11) (658) _____ Number	(683) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(12) (659) _____ Number	(684) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(13) (660) _____ Number	(685) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(14) (661) _____ Number	(686) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(15) (662) _____ Number	(687) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(16) (663) _____ Number	(688) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(17) (664) _____ Number	(689) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(18) (665) _____ Number	(690) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(19) (666) _____ Number	(691) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(20) (667) _____ Number	(692) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(21) (668) _____ Number	(693) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(22) (669) _____ Number	(694) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(23) (670) _____ Number	(695) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(24) (671) _____ Number	(696) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐
(25) (672) _____ Number	(697) * 1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐

Section X – MOBILE HOME SUPPLEMENT – Continued

CHECK ITEM EE (*See item 110a(25), page 42*)
☐ Interior odors or fumes – *Ask 111*
☐ No interior odors or fumes – *Skip to 112*

111. You mentioned noticing odors or fumes inside your home. What caused the odors or fumes?
Describe
(698) OFFICE USE ONLY 1 ☐ F 2 ☐ O
3 ☐ Don't know

112. Does your mobile home have a RED metal manufacturer's label?
(699) 1 ☐ Yes 2 ☐ No 3 ☐ Don't know

CHECK ITEM FF (*See Check Item C, page 14*)
☐ Owner occupied mobile home or trailer on less than 10 acres (box 3 marked) –
(*See item 22, page 15*) ☐ Installment loan or contract – *Skip to 115*; ☐ Owned free and clear – *Ask 113*
☐ Rented for cash (box 8 marked) – *Skip to Check Item II, page 46*
☐ All others – *Skip to 123*

113. Did you place or assume a mortgage (loan) when you acquired this mobile home?
(701) 1 ☐ Yes – *Skip to 115* 2 ☐ No

114. How did you acquire this mobile home?
(702) 1 ☐ Inheritance or gift 2 ☐ Paid all cash 3 ☐ Other manner – *Specify*

115. Including this site, on how many sites have you placed this mobile home since you have owned it?
(703) 1 ☐ 1 2 ☐ 2–3 3 ☐ 4 or more

CHECK ITEM GG (*See item 25b(5), page 16, Real Estate Taxes*)
☐ An entry of an amount, "NA," "DK," or "Refused" in item 25b(5) – *Ask 116*
☐ Item 25b(5) is blank – *Skip to 117*

116a. Earlier you told me that you pay real estate taxes. Do you also pay a personal property tax, or an annual license fee or similar annual charge, for this mobile home?
(Mark all answers given)
(704) * 1 ☐ Personal property tax 2 ☐ Yes – license fee or similar annual charge 3 ☐ No 4 ☐ Don't know } Skip to *Check Item HH*

b. What is the yearly cost?
(If more than one tax or fee, enter total yearly cost of all such payments. Do not include real estate taxes.
(705) $ _____ .00 Skip to *Check Item HH*

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section X – MOBILE HOME SUPPLEMENT – Continued

117a. Do you pay a personal property tax or an annual license fee or similar annual charge for this mobile home?

(704)
1 ☐ Yes – personal property tax
2 ☐ Yes – license fee or similar annual charge
3 ☐ No
4 ☐ Don't know
} Skip to *Check Item HH*

b. What is the yearly cost?
(If more than one tax or fee, enter total yearly cost of all such payments.)

(705) $_____ . 00

CHECK ITEM HH
(See item 20, page 15)
☐ Site owned – Ask *118*
☐ Site rented or occupied without payment of cash rent – Skip to *119*
☐ Item 20 is blank – Go to *item 124*

118. How much do you think this property, that is, mobile home and land, would sell for on today's market?

SHOW FLASHCARD D

(706)

1 ☐	Less than $5,000	12 ☐	30,000–34,999
2 ☐	$5,000–$7,499	13 ☐	35,000–39,999
3 ☐	7,500– 9,999	14 ☐	40,000–44,999
4 ☐	10,000–12,499	15 ☐	45,000–49,999
5 ☐	12,500–14,999	16 ☐	50,000–54,999
6 ☐	15,000–17,499	17 ☐	55,000–59,999
7 ☐	17,500–19,999	18 ☐	60,000–64,999
8 ☐	20,000–22,499	19 ☐	65,000–69,999
9 ☐	22,500–24,999	20 ☐	70,000–74,999
10 ☐	25,000–27,499	21 ☐	75,000 or more
11 ☐	27,500–29,999		

SKIP TO 124

119. How much do you think this mobile home would sell for on today's market?

SHOW FLASHCARD D

(707)

1 ☐	Less than $5,000	12 ☐	30,000–34,999
2 ☐	$5,000–$7,499	13 ☐	35,000–39,999
3 ☐	7,500– 9,999	14 ☐	40,000–44,999
4 ☐	10,000–12,499	15 ☐	45,000–49,999
5 ☐	12,500–14,999	16 ☐	50,000–54,999
6 ☐	15,000–17,499	17 ☐	55,000–59,999
7 ☐	17,500–19,999	18 ☐	60,000–64,999
8 ☐	20,000–22,499	19 ☐	65,000–69,999
9 ☐	22,500–24,999	20 ☐	70,000–74,999
10 ☐	25,000–27,499	21 ☐	75,000 or more
11 ☐	27,500–29,999		

120. What is the MONTHLY rent for this site?

(Mark the frequency of payment box and enter the MONTHLY site rent. (If rent is not paid by the month, compute the MONTHLY site rent in "Notes" space, and enter the monthly site rent on the line provided.)

(708) $_____ . 00 Per month
0 ☐ No cash rent

(709)
1 ☐ More frequently than once a month
2 ☐ Less frequently than once a month
3 ☐ Once a month

NOTES

SKIP to 124

Section X – MOBILE HOME SUPPLEMENT – Continued

(See item 27, page 17)
☐ Site owned – *Skip to 123*
☐ Site rented or occupied without payment of cash rent – Ask *121*

121. Earlier you told me you rent this mobile home site. Is the site rent included with the rent for the mobile home?

(710)
1 ☐ Yes – *Skip to 123*
2 ☐ No

122. What is the MONTHLY rent for this site?

Mark the frequency of payment box and enter the MONTHLY site rent. (If rent is not paid for the month, compute the MONTHLY site rent in "Notes" space, and enter the monthly site rent on the line provided.)

(711) $_____ . 00 Per month
0 ☐ No cash rent

(712)
1 ☐ More frequently than once a month
2 ☐ Less frequently than once a month
3 ☐ Once a month

NOTES

123. Was this mobile home new when . . . *(Reference person)* moved in?

(713)
1 ☐ Yes
2 ☐ No
3 ☐ Don't know

124. Would you recommend mobile home living to others?

(714)
1 ☐ Yes
2 ☐ Sometimes
3 ☐ No

125. How would you rate this mobile home as a place to live – would you say it is excellent, good, fair, or poor?

(715)
1 ☐ Excellent
2 ☐ Good
3 ☐ Fair
} Skip to *Check Item JJ*
4 ☐ Poor – Ask *126*

126. Why did you rate this mobile home as a poor place to live?

(Mark all answers given)

(716)
1 ☐ Location (neighborhood problems, commuting problems, etc.?)
2 ☐ Quality of construction or workmanship
3 ☐ Size (mobile home is too small or too large)
4 ☐ Safety (fire hazard, wind or flood hazard, falls or other personal injuries)
5 ☐ Too expensive – (utilities, maintenance, charges or fees)
6 ☐ Bad investment
(717) 7 ☐ Other – *Specify*

_____
_____

NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

Section XI – HOUSING QUALITY AND STATE OF REPAIR SUPPLEMENT

CHECK ITEM JJ

(1) Reference person lived here last winter *(See part (2), Check Item K, page 23)*

☐ Yes – *Go to part (2) below*

☐ No – *Skip to 130*

(2) *See item 12, page 13 (Heating Equipment)*

☐ Box 7, 8, or 9 marked in item 12 – *Ask 127*

☐ All others – *Skip to 128*

127. During the winter of 1979–1980, was your house (apartment) so cold for 24 hours or more that it caused you discomfort? (718)
1 ☐ Yes
2 ☐ No } *Skip to 130*

128. During the winter of 1979–1980, when your regular heating system was working, did you, at any time, have to use additional sources of heat BECAUSE YOUR REGULAR SYSTEM DID NOT PROVIDE ENOUGH HEAT? Do not include additional sources of heat used solely because of the current energy shortage.

(Additional sources of heat may be the kitchen stove, a fireplace, or a portable heater.) (719)
1 ☐ Yes
2 ☐ No

129. How many rooms are there WITHOUT hot air ducts or registers, radiators, or room heaters? Do not count kitchen or bathrooms. (720)
1 ☐ None
2 ☐ 1 room
3 ☐ 2 rooms
4 ☐ 3 or more rooms

NOTES

Section XI – HOUSING QUALITY AND STATE OF REPAIR SUPPLEMENT – Continued

130. Does each room in this house (apartment) have a working electric wall outlet (wall plug)? (721)
1 ☐ Yes
2 ☐ No

131. Is all the wiring in this house (apartment) concealed in the walls or in metal coverings? Do not count appliance cords, extension cords or chandelier cords. (722)
1 ☐ Yes
2 ☐ No

132a. Is it necessary to go through any bedroom to get to any bathroom? (723)
1 ☐ Yes
2 ☐ No

b. Is it necessary to go through any bedroom to get to any other room? (724)
1 ☐ Yes
2 ☐ No

CHECK ITEM KK

(See item 8a, page 12)

☐ One-unit structure, or a mobile home or trailer – *Skip to Check Item LL*

☐ Two-or-more-unit structure – *Ask 133a*

OBSERVATION

133a. Do the public halls in this building have light fixtures? (725)
1 ☐ Yes
2 ☐ No . . . . . } *Skip to 134a*
3 ☐ No public halls

b. Are the light fixtures in working order? (726)
1 ☐ All in working order
2 ☐ Some in working order
3 ☐ None in working order

134a. Are there loose, broken, or missing steps on any common stairways inside this building or attached to this building? (727)
1 ☐ Yes
2 ☐ No
3 ☐ No common stairways – *Skip to Check Item LL*

b. Are all stair railings firmly attached? (728)
1 ☐ Yes
2 ☐ No
3 ☐ No stair railings

CHECK ITEM LL

Reference person lived here last 90 days – *(See part (1) Check Item K, page 23)*

☐ Yes – *Ask 135a*

☐ No – *Skip to 137*

135a. Have any electric fuses or breaker switches blown in your house (apartment) in the last 90 days? (729)
1 ☐ Yes
2 ☐ No . . . . . } *Skip to 136a*
3 ☐ Don't know

b. How many times did this happen? (730)
1 ☐ 1
2 ☐ 2
3 ☐ 3 or more

136a. At any time in the last 90 days have you seen any mice or rats, or signs of mice or rats in this house (building)? (731)
1 ☐ Yes
2 ☐ No – *Skip to 137*

b. Is this house (building) serviced by an exterminator for mice or rats regularly, only when needed, irregularly, or not at all? (732)
1 ☐ Regularly
2 ☐ Only when needed
3 ☐ Irregularly
4 ☐ Not at all

NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

[illegible] HOUSING QUALITY AND STATE OF REPAIR SUPPLEMENT – Continued

137. Is there a basement in this house (building)?
(A basement is an enclosed space in which persons can walk upright under all or part of the building.)

(733) 1 ☐ Yes
2 ☐ No

138. Does the roof of this house (building) leak?

(734) 1 ☐ Yes
2 ☐ No
3 ☐ Don't know

CHECK ITEM MM — *(See item 8a, page 12)*
☐ Mobile home or trailer (no permanent room attached) – *Skip to Check Item NN, page 50*
☐ All others – *Ask 139*

139. In view of all the things we have talked about, how would you rate this HOUSE (building) as a place to live – would you say it is excellent, good, fair, or poor?

(735) 1 ☐ Excellent
2 ☐ Good
3 ☐ Fair
4 ☐ Poor

NOTES

Section XII – JOURNEY-TO-WORK SUPPLEMENT

CHECK ITEM NN — *(See item 8, page 1)*
☐ URE Interview – *Go to Control Card item 38a*
☐ Regular Interview – *Ask item 140a*

140a. How many cars (passenger automobiles) are owned or regularly used by members of your household?
(Count company cars kept at home, do NOT count trucks or vans.)

(736) ________ Number
OR
0 ☐ None

b. How many trucks or vans of one-ton capacity or less are owned or regularly used by members of your household?
(Count company trucks or vans kept at home.)

(737) ________ Number
OR
0 ☐ None

INTERVIEWER INSTRUCTION ➡ In item 141a, enter the line number of each current HOUSEHOLD MEMBER (Yes in cc item 11c) 16 YEARS OLD AND OVER.

Ask item 141b for each person listed in item 141a.

141a. Line number (cc item 10)	141b. Did . . . have a job last week? *(Mark the "Yes" box if the household member was temporarily absent from work due to illness, vacation, layoff, etc.) (Mark the "No" box if the household member has a job but is living away from home while working.)*
(738)	(739) 1 ☐ Yes 2 ☐ No
(740)	(741) 1 ☐ Yes 2 ☐ No
(742)	(743) 1 ☐ Yes 2 ☐ No
(744)	(745) 1 ☐ Yes 2 ☐ No
(746)	(747) 1 ☐ Yes 2 ☐ No
(748)	(749) 1 ☐ Yes 2 ☐ No
(750)	(751) 1 ☐ Yes 2 ☐ No
(752)	(753) 1 ☐ Yes 2 ☐ No
(754)	(755) 1 ☐ Yes 2 ☐ No
(756)	(757) 1 ☐ Yes 2 ☐ No
(758)	(759) 1 ☐ Yes 2 ☐ No
(760)	(761) 1 ☐ Yes 2 ☐ No

INTERVIEWER INSTRUCTION ➡ Transcribe the line number for each "Yes" answer in question 141b above to the top of a separate page. Read the introduction below and ask the appropriate questions.

Each worker should answer items 142 through 148 for himself (herself) if available. If any worker is not available at the time of interview, ask these items of a knowledgeable household member. Enter, above item 142a, the line number of the respondent for each worker.

All "No" in item 141b, go to Control Card Item 38a.

INTRODUCTION ➤ **The following questions are concerned with how persons in your household usually get to work. Are . . . (specify names of all persons for whom "Yes" was entered in 141b) available to answer some questions at this time?**

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

~ PGM 7 ↓

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

Line number of respondent → (762) | Line number of worker → (763)

142a. What is . . .'s principal means of transportation to work?

(764)
1 ☐ Car
2 ☐ Truck
3 ☐ Van

(765)
1 ☐ Drives alone – *Ask 142b*
2 ☐ Carpool – *Skip to 142c*
3 ☐ Bus or streetcar
4 ☐ Subway or elevated
5 ☐ Railroad . . . . . } *Skip to 144a*
6 ☐ Taxicab . . . . . }
7 ☐ Motorcycle or moped
8 ☐ Bicycle . . . . . } *Skip to 145*
9 ☐ Other type of vehicle }
10 ☐ Walks only . . . . . }
11 ☐ Works at home – *Go to Interviewer Instruction on page 52*

SHOW FLASHCARD L

b. What is . . .'s MAIN reason for driving alone?

(766)
1 ☐ Irregular or unusual work hours
2 ☐ Irregular work location
3 ☐ Need car for work or errands
4 ☐ Don't know anyone to ride with
5 ☐ Like privacy
6 ☐ It is out of the way to pick up others
7 ☐ Riders require extra waiting or are not dependable
8 ☐ Want car for emergencies or occasional overtime
9 ☐ Don't trust others driving
10 ☐ Some other reason
} *Skip to 143a*

c. How many people, including . . . usually ride in the car, (truck), (van)?

(767) _____ Number

d. Of the (*Specify entry in 142c*) people in the carpool, how many, including . . ., are members of this household?

(768) _____ Number

143a. In addition to the car, (truck), (van), does . . . usually use public transportation for any part of the trip to work?

(769)
1 ☐ Yes – *Ask 143b*
2 ☐ No – *Skip to 143c*

b. What kind of public transportation does . . . use for any part of the trip to work?

(770)
1 ☐ Bus or streetcar
2 ☐ Subway or elevated
3 ☐ Railroad
4 ☐ Taxicab
5 ☐ Other
} *Skip to 145*

SHOW FLASHCARD M

c. What is the MAIN reason that . . . does not use public transportation to get to work?

(771)
1 ☐ Rather use car, truck, or van
2 ☐ Available transit does not go to place of work
3 ☐ Takes too long to get to work
4 ☐ Time schedule is not convenient
5 ☐ Public transportation is not available
6 ☐ Transit stop is too far from residence
7 ☐ Too expensive
8 ☐ Need car, truck, or van for work
9 ☐ Physical and/or mental impairment
10 ☐ Other reason
} *Skip to 145*

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

SHOW FLASHCARD N

144a. What is . . .'s MAIN reason for using (*Specify entry in item 142a*) to get to work?

(772)
1 ☐ No driver's license
2 ☐ No car, truck or van available
3 ☐ Cheaper than car, truck, or van
4 ☐ No parking costs or problems
5 ☐ No driving strain
6 ☐ Faster than car, truck, or van
7 ☐ Other main reason

b. In addition to public transportation, does . . . usually use a car, truck, or van for part of the trip to work? Do not include taxicabs.

(773)
1 ☐ Yes
2 ☐ No

145. Does . . . usually report to the same location to begin work each day?

(774)
1 ☐ Yes
2 ☐ No – *Go to INTERVIEWER INSTRUCTION below*

146. How many minutes does it usually take . . . to get from home to work?

(775) _____ Minutes

147. How many miles does . . . travel from home to work?

(776) _____ Miles
OR
0 ☐ Less than 1 mile

148a. In what city, town, village, or borough does . . . usually work?

City, town, village or borough

b. Is . . .'s place of work inside the incorporated limits of (*Name of city, town, village, etc., listed in 148a*).

(777)
1 ☐ Yes
2 ☐ No (in unincorporated area)
3 ☐ Don't know

c. In what county and State is . . .'s place of work located?

County

State

(778) ☐☐☐☐☐

INTERVIEWER INSTRUCTION

If reference person, go to Check Item OO.

If not reference person, go to next worker or if last worker, go to Control Card item 38a.

NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

~ PGM 7 ↓

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

Line number of respondent → (762) | Line number of worker → (763)

142a. What is . . .'s principal means of transportation to work?

(764)
1 ☐ Car
2 ☐ Truck
3 ☐ Van

(765)
1 ☐ Drives alone – *Ask 142b*
2 ☐ Carpool – *Skip to 142c*
3 ☐ Bus or streetcar
4 ☐ Subway or elevated
5 ☐ Railroad . . . . . } *Skip to 144a*
6 ☐ Taxicab . . . . . }
7 ☐ Motorcycle or moped
8 ☐ Bicycle . . . . . } *Skip to 145*
9 ☐ Other type of vehicle
10 ☐ Walks only . . . . . }
11 ☐ Works at home – *Go to Interviewer Instruction on page 52*

SHOW FLASHCARD L

b. What is . . .'s MAIN reason for driving alone?

(766)
1 ☐ Irregular or unusual work hours
2 ☐ Irregular work location
3 ☐ Need car for work or errands
4 ☐ Don't know anyone to ride with
5 ☐ Like privacy
6 ☐ It is out of the way to pick up others
7 ☐ Riders require extra waiting or are not dependable
8 ☐ Want car for emergencies or occasional overtime
9 ☐ Don't trust others driving
10 ☐ Some other reason
} *Skip to 143a*

c. How many people, including . . . usually ride in the car, (truck), (van)?

(767) _____ Number

d. Of the *(Specify entry in 142c)* people in the carpool, how many, including . . ., are members of this household?

(768) _____ Number

143a. In addition to the car, (truck), (van), does . . . usually use public transportation for any part of the trip to work?

(769)
1 ☐ Yes – *Ask 143b*
2 ☐ No – *Skip to 143c*

b. What kind of public transportation does . . . use for any part of the trip to work?

(770)
1 ☐ Bus or streetcar
2 ☐ Subway or elevated
3 ☐ Railroad
4 ☐ Taxicab
5 ☐ Other
} *Skip to 145*

SHOW FLASHCARD M

c. What is the MAIN reason that . . . does not use public transportation to get to work?

(771)
1 ☐ Rather use car, truck, or van
2 ☐ Available transit does not go to place of work
3 ☐ Takes too long to get to work
4 ☐ Time schedule is not convenient
5 ☐ Public transportation is not available
6 ☐ Transit stop is too far from residence
7 ☐ Too expensive
8 ☐ Need car, truck, or van for work
9 ☐ Physical and/or mental impairment
10 ☐ Other reason
} *Skip to 145*

FORM AHS-2 (4-11-80)

Page 53

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

SHOW FLASHCARD N

144a. What is . . .'s MAIN reason for using *(Specify entry in item 142a)* to get to work?

(772)
1 ☐ No driver's license
2 ☐ No car, truck or van available
3 ☐ Cheaper than car, truck, or van
4 ☐ No parking costs or problems
5 ☐ No driving strain
6 ☐ Faster than car, truck, or van
7 ☐ Other main reason

b. In addition to public transportation, does . . . usually use a car, truck, or van for part of the trip to work? Do not include taxicabs.

(773)
1 ☐ Yes
2 ☐ No

145. Does . . . usually report to the same location to begin work each day?

(774)
1 ☐ Yes
2 ☐ No – *Go to INTERVIEWER INSTRUCTION below*

146. How many minutes does it usually take . . . to get from home to work?

(775) _____ Minutes

147. How many miles does . . . travel from home to work?

(776) _____ Miles
OR
0 ☐ Less than 1 mile

148a. In what city, town, village, or borough does . . . usually work?

City, town, village or borough

b. Is . . .'s place of work inside the incorporated limits of *(Name of city, town, village, etc., listed in 148a)*.

(777)
1 ☐ Yes
2 ☐ No (in unincorporated area)
3 ☐ Don't know

c. In what county and State is . . .'s place of work located?

County

State

(778)

INTERVIEWER INSTRUCTION

If reference person, go to Check Item 00.

If not reference person, go to next worker or if last worker, go to Control Card item 38a.

NOTES

FORM AHS-2 (4-11-80)

Page 54

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

PGM 7

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

Line number of respondent → (762) | Line number of worker → (763)

142a. What is . . .'s principal means of transportation to work?

(764)
1 ☐ Car
2 ☐ Truck
3 ☐ Van
→ 7

(765)
1 ☐ Drives alone – *Ask 142b*
2 ☐ Carpool – *Skip to 142c*
3 ☐ Bus or streetcar
4 ☐ Subway or elevated
5 ☐ Railroad . . . . . } *Skip to 144a*
6 ☐ Taxicab . . . . . }
7 ☐ Motorcycle or moped
8 ☐ Bicycle . . . . . } *Skip to 145*
9 ☐ Other type of vehicle }
10 ☐ Walks only . . . . . }
11 ☐ Works at home – *Go to Interviewer Instruction on page 52*

SHOW FLASHCARD L

b. What is . . .'s MAIN reason for driving alone?

(766)
1 ☐ Irregular or unusual work hours
2 ☐ Irregular work location
3 ☐ Need car for work or errands
4 ☐ Don't know anyone to ride with
5 ☐ Like privacy
6 ☐ It is out of the way to pick up others
7 ☐ Riders require extra waiting or are not dependable
8 ☐ Want car for emergencies or occasional overtime
9 ☐ Don't trust others driving
10 ☐ Some other reason
} *Skip to 143a*

c. How many people, including . . . usually ride in the car, (truck), (van)?

(767) _____ Number

d. Of the (*Specify entry in 142c*) people in the carpool, how many, including . . ., are members of this household?

(768) _____ Number

143a. In addition to the car, (truck), (van), does . . . usually use public transportation for any part of the trip to work?

(769)
1 ☐ Yes – *Ask 143b*
2 ☐ No – *Skip to 143c*

b. What kind of public transportation does . . . use for any part of the trip to work?

(770)
1 ☐ Bus or streetcar
2 ☐ Subway or elevated
3 ☐ Railroad
4 ☐ Taxicab
5 ☐ Other
} *Skip to 145*

SHOW FLASHCARD M

c. What is the MAIN reason that . . . does not use public transportation to get to work?

(771)
1 ☐ Rather use car, truck, or van
2 ☐ Available transit does not go to place of work
3 ☐ Takes too long to get to work
4 ☐ Time schedule is not convenient
5 ☐ Public transportation is not available
6 ☐ Transit stop is too far from residence
7 ☐ Too expensive
8 ☐ Need car, truck, or van for work
9 ☐ Physical and 'or mental impairment
10 ☐ Other reason
} *Skip to 145*

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

SHOW FLASHCARD N

144a. What is . . .'s MAIN reason for using (*Specify entry in item 142a*) to get to work?

(772)
1 ☐ No driver's license
2 ☐ No car, truck or van available
3 ☐ Cheaper than car, truck, or van
4 ☐ No parking costs or problems
5 ☐ No driving strain
6 ☐ Faster than car, truck, or van
7 ☐ Other main reason

b. In addition to public transportation, does . . . usually use a car, truck, or van for part of the trip to work? Do not include taxicabs.

(773)
1 ☐ Yes
2 ☐ No

145. Does . . . usually report to the same location to begin work each day?

(774)
1 ☐ Yes
2 ☐ No – *Go to INTERVIEWER INSTRUCTION below*

146. How many minutes does it usually take . . . to get from home to work?

(775) _____ Minutes

147. How many miles does . . . travel from home to work?

(776) _____ Miles
OR
0 ☐ Less than 1 mile

148a. In what city, town, village, or borough does . . . usually work?

City, town, village or borough

b. Is . . .'s place of work inside the incorporated limits of (*Name of city, town, village, etc., listed in 148a*).

(777)
1 ☐ Yes
2 ☐ No (in unincorporated area)
3 ☐ Don't know

c. In what county and State is . . .'s place of work located?

County

State

(778)

INTERVIEWER INSTRUCTION

If reference person, go to Check Item 00.

If not reference person, go to next worker or if last worker, go to Control Card item 38a.

NOTES

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

~ PGM 7 ↓

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

Line number of respondent → (762) | Line number of worker → (763)

142a. What is . . .'s principal means of transportation to work?

(764)
1 ☐ Car
2 ☐ Truck
3 ☐ Van
→ 7

(765)
1 ☐ Drives alone – Ask 142b
2 ☐ Carpool – Skip to 142c
3 ☐ Bus or streetcar
4 ☐ Subway or elevated
5 ☐ Railroad . . . . . } Skip to 144a
6 ☐ Taxicab . . . . . }
7 ☐ Motorcycle or moped
8 ☐ Bicycle . . . . . } Skip to 145
9 ☐ Other type of vehicle }
10 ☐ Walks only . . . . . }
11 ☐ Works at home – Go to Interviewer Instruction on page 52

SHOW FLASHCARD L

b. What is . . .'s MAIN reason for driving alone?

(766)
1 ☐ Irregular or unusual work hours
2 ☐ Irregular work location
3 ☐ Need car for work or errands
4 ☐ Don't know anyone to ride with
5 ☐ Like privacy
6 ☐ It is out of the way to pick up others
7 ☐ Riders require extra waiting or are not dependable
8 ☐ Want car for emergencies or occasional overtime
9 ☐ Don't trust others driving
10 ☐ Some other reason
} Skip to 143a

c. How many people, including . . . usually ride in the car, (truck), (van)?

(767) _____ Number

d. Of the (Specify entry in 142c) people in the carpool, how many, including . . ., are members of this household?

(768) _____ Number

143a. In addition to the car, (truck), (van), does . . . usually use public transportation for any part of the trip to work?

(769)
1 ☐ Yes – Ask 143b
2 ☐ No – Skip to 143c

b. What kind of public transportation does . . . use for any part of the trip to work?

(770)
1 ☐ Bus or streetcar
2 ☐ Subway or elevated
3 ☐ Railroad
4 ☐ Taxicab
5 ☐ Other
} Skip to 145

SHOW FLASHCARD M

c. What is the MAIN reason that . . . does not use public transportation to get to work?

(771)
1 ☐ Rather use car, truck, or van
2 ☐ Available transit does not go to place of work
3 ☐ Takes too long to get to work
4 ☐ Time schedule is not convenient
5 ☐ Public transportation is not available
6 ☐ Transit stop is too far from residence
7 ☐ Too expensive
8 ☐ Need car, truck, or van for work
9 ☐ Physical and/or mental impairment
10 ☐ Other reason
} Skip to 145

FORM AHS-2 (4-11-80)

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

SHOW FLASHCARD N

144a. What is . . .'s MAIN reason for using (Specify entry in item 142a) to get to work?

(772)
1 ☐ No driver's license
2 ☐ No car, truck or van available
3 ☐ Cheaper than car, truck, or van
4 ☐ No parking costs or problems
5 ☐ No driving strain
6 ☐ Faster than car, truck, or van
7 ☐ Other main reason

b. In addition to public transportation, does . . . usually use a car, truck, or van for part of the trip to work? Do not include taxicabs.

(773)
1 ☐ Yes
2 ☐ No

145. Does . . . usually report to the same location to begin work each day?

(774)
1 ☐ Yes
2 ☐ No – Go to INTERVIEWER INSTRUCTION below

146. How many minutes does it usually take . . . to get from home to work?

(775) _____ Minutes

147. How many miles does . . . travel from home to work?

(776) _____ Miles
OR
0 ☐ Less than 1 mile

148a. In what city, town, village, or borough does . . . usually work?

City, town, village or borough

b. Is . . .'s place of work inside the incorporated limits of (Name of city, town, village, etc., listed in 148a).

(777)
1 ☐ Yes
2 ☐ No (in unincorporated area)
3 ☐ Don't know

c. In what county and State is . . .'s place of work located?

County

State

(778)

INTERVIEWER INSTRUCTION

If reference person, go to Check item OO.

If not reference person, go to next worker or if last worker, go to Control Card item 38a.

NOTES

FORM AHS-2 (4-11-80)

Facsimile of the Annual Housing Survey Questionnaire: 1980—Continued

PGM 8

Section XII – JOURNEY-TO-WORK SUPPLEMENT – Continued

CHECK ITEM OO

(See *Check Item K, page 23*)

- ☐ Reference person moved here during the past 12 months – *Read the introduction below and ask 149*
- ☐ Reference person did not move here during the past 12 months – *Go to next worker or if last worker, go to Control Card item 38a*

INTRODUCTION — The following questions are concerned with how . . . *(Reference person)* usually traveled to work while living at his (her) previous residence.

149. Did . . . *(Reference person)* have a job while living at his (her) previous residence? (779)
1 ☐ Yes
2 ☐ No – *Go to INTERVIEWER INSTRUCTION below*

150. At the time . . . *(Reference person)* lived in his (her) previous residence, was . . . *(Reference person's)* usual place of work the same as it is now? (780)
1 ☐ Yes
2 ☐ No

151. What was . . . *(Reference person's)* principal means of transportation to work? (781)
1 ☐ Car
2 ☐ Truck
3 ☐ Van
(782)
1 ☐ Drove alone
2 ☐ Carpool
3 ☐ Bus or streetcar
4 ☐ Subway or elevated
5 ☐ Railroad
6 ☐ Taxicab
7 ☐ Motorcycle or moped
8 ☐ Bicycle
9 ☐ Other type of vehicle
10 ☐ Walked only
11 ☐ Worked at home – *Go to INTERVIEWER INSTRUCTION below*

152. Did . . . *(Reference person)* usually report to the same location to begin work each day? (783)
1 ☐ Yes
2 ☐ No – *Go to INTERVIEWER INSTRUCTION below*

153. How many minutes did it usually take . . . *(Reference person)* to get from home to work? (784) _____ Minutes

154. How many miles did . . . *(Reference person)* travel from home to work? (785) _____ Miles
OR
o ☐ Less than 1 mile

INTERVIEWER INSTRUCTION — Go to next worker or if last worker, go to Control Card item 38a

NOTES

PGM 9

Section XIII – CINCH TRANSCRIPTION

CHECK ITEM PP

Part 1
(801)
1 ☐ Form D-1701 NOT received for this segment – *End transcription*
☐ Form D-1701 received for this segment – *Go to part 2 below*

Part 2 (*See Form D-1701*)
☐ Serial number and sample designation of this unit entered in section B, column 8 or section C, column 1 or section D, column 1 – *Go to part 3 below*
2 ☐ Serial number and sample designation of this unit NOT entered in section B, column 8 or section C, column 1 or section D, column 1 – *End transcription*

Part 3 (*See Form D-1701*)
3 ☐ Serial number of this sample unit NOT eliminated in subsampling – *Go to item 155a*
4 ☐ Serial number of this sample unit eliminated in subsampling – *End transcription*

155a. If the serial number and sample designation of this unit is located in section C, column 1 or section D, column 1, mark (X) this None box; otherwise, continue with 155b. (802) oo ☐ None – *Go to item 156*

b. If the serial number and sample designation of this unit is located in section B, column 8, transcribe ALL serial numbers from section A, column 2 that are in the same bank.
(803) (804) (805) (806) (807)

c. Transcribe all serial numbers from section A, column 2 of any additional banks that are cross-referenced to the bank listed in 155b.

(The cross-reference may be noted in section A, column 3A, or section B, column 6A.)

☐ No banks are cross referenced to bank listed in 155b

(808)		(813)		(818)	
(809)		(814)		(819)	
(810)		(815)		(820)	
(811)		(816)		(821)	
(812)		(817)		(822)	

If more than 15 spaces are needed, enter the first 15 serial numbers. Mark (X) in this box and continue with item 156. ☐

156. Status *(From column 5 of section B, C or D)* (901)
1 ☐ Same unit – *End transcription*
2 ☐ Converted to more units
3 ☐ Merged to fewer units
4 ☐ From nonresidential
5 ☐ House or MH moved in
6 ☐ New construction
7 ☐ Other reason – *Specify* _____
8 ☐ Column 5 is not filled – *End transcription*

157. Year of change *(From column 7 of section B, C or D)* (902)
1 ☐ 1979–80
2 ☐ 1976–78
3 ☐ 1974–75
4 ☐ 1973 or earlier
} END TRANSCRIPTION

OFFICE USE ONLY
a. (903) __ __ __ __
b. (904) __ __ __ __
c. (905)
d. (906)

Appendix B

Source and Reliability of the Estimates

SAMPLE DESIGN App-50
- Selection of sample areas. App-50
- Designation of sample housing units for the 1980 survey. App-50
- Selection of the 1973 sample housing units. App-50
- Splitting of the sample App-51
- Selection of supplemental sample housing units in rural areas App-51
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- 1980 housing inventory App-52

RELIABILITY OF THE ESTIMATES App-53
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- Standard errors of estimates of levels. App-53
- Standard errors of estimates of percentages. App-53
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SAMPLE DESIGN

The 1980 estimates are based on data collected from mid-August 1980 through December 1980 for the Annual Housing Survey (AHS), which was conducted by the Bureau of the Census, acting as collection agent for the Department of Housing and Urban Development. The sample for this survey was spread over 461 sample areas (called primary sampling units), comprising 923 counties and independent cities with coverage in each of the 50 States and the District of Columbia.

Approximately 74,800 sample housing units (both occupied and vacant) were eligible for interview in the 1980 Annual Housing Survey. Of this number, 4,100 interviews were classified as "noninterviews" for various reasons. Occupied housing units were classified as "noninterview" mainly, because the occupants refused to be interviewed after repeated calls. For vacant housing units, interviews were not obtained because an informed respondent was not found after repeated visits. In addition to the 74,800 eligible housing units, there were also 5,000 sample units which were visited but were ineligible for interview for the AHS in terms of collecting information relevant to the 1980 housing inventory.

Selection of sample areas—The United States was divided into areas made up of counties and independent cities referred to as primary sampling units (PSU's). These PSU's were then grouped into 376 strata, 156 of which consisted of only 1 PSU in sample with certainty. These 156 strata were mostly the larger SMSA's and were called self-representing (SR) since the sample from the sample area represented just that PSU. Each one of the other 220 strata consisted of a group of PSU's and were referred to as non-self-representing (NSR), since the sample of housing units from the sample PSU in a stratum represented the other PSU's in the stratum as well.

One PSU was selected from each NSR stratum with probability proportionate to the 1970 census population of the PSU. (This resulted in 220 NSR sample PSU's.) In addition, the NSR strata were grouped into 110 pairs and one stratum was picked at random from each pair. From this stratum, an additional PSU was selected independently of the other PSU selected from this stratum. Since the two PSU's were independently selected, it was possible for the same PSU to be selected twice. This occurred in 25 instances, producing an additional 85 NSR sample PSU's, thus giving a grand total of 461 PSU's.

Designation of sample housing units for the 1980 survey—The sample housing units designated to be interviewed in the 1980 survey consisted of the following categories, which are described in detail in succeeding sections.

1. All sample housing units that were interviewed in the 1979 survey (which included all sample housing units that were selected as part of the 1976 Coverage Improvement Program).
2. All sample housing units that were either type A noninterviews (i.e., units eligible to be interviewed) or type B noninterviews (i.e., units not eligible for interview at the time of survey but which could become eligible in the future) in the 1979 survey. (For a list of reasons for type A and type B noninterviews, see the facsimile of the 1980 AHS questionnaire, page App-20.)
3. All sample housing units that were selected from the list of building permits issued since the 1979 survey. (This sample represented the housing units built in permit-issuing areas, since the 1979 survey.)
4. Units added as the result of the updated listings in selected areas which do not issue building permits.

Selection of the 1973 sample housing units—The overall sampling rate used to select the sample for the 1973 AHS was about 1 in 1,366. The within-PSU sampling rate for the AHS was determined so that the overall probability of selection for each sample housing unit was the same (e.g., if the probability of selecting a NSR PSU was 1 in 10, then the within-PSU sampling rate would be 1 in 136.6).

Within the sample PSU's, a sample of the housing units enumerated in the 1970 Census of Population and Housing was selected for the AHS. In addition, a sample of new construction building permits was also selected to represent the units constructed since the 1970 census. These samples were selected at about twice the rate mentioned previously (i.e., at 2 in 1,366), thereby producing a sample twice as large as needed. This sample was split into two equal-sized samples—one to be used for the AHS, and one to be held in reserve for possible future use for the AHS. The procedure used to split this sample into equal-sized samples is described in the next section.

The sample of 1970 census units was selected in several stages. Within the sample PSU's, the first step was the selection of a sample of census enumeration districts (ED's), administrative units used in the 1970 census. The probability of selection for an ED was proportional to the following 1970 census counts of housing units (HU's) and persons in group quarters, combined in the following formula:

$$\frac{\text{Number of HU's in the ED} + \frac{\text{Number of group quarters persons in the ED}}{3}}{4}$$

The next step was to select an expected cluster of about four neighboring housing units within each sample ED. For most of the ED's, the selection was accomplished using the list of addresses for the ED as compiled in the 1970 census. However, in those ED's where addresses were incomplete or inadequate (mostly rural areas), the selection process was accomplished using area sampling methods. These ED's were divided into segments (i.e., small land areas with well-defined boundaries, having an expected size of four, or a multiple of four, housing units) and a segment was selected. Those selected segments with an expected size which was a multiple of four were further subsampled at the time of enumeration so that an expected four housing units were chosen for interview.

The sample of new construction units was selected from building permits issued since January 1970. Within each sample PSU, the building permits were chronologically ordered by month issued, and compact clusters of approximately four housing units were created. These clusters were then sampled at the rate of 2 in 1,366. Housing units constructed since the 1970 census in areas which do not issue building permits were brought into the sample as a result of the area sample described.

Splitting of the sample—The sample selection procedure produced clusters (or segments) of size-four housing units for the sample taken from the census address frame, the new construction frame, and the area sampling frame (mainly rural areas). Clusters of this size should result in a minimum loss in precision for estimates of housing characteristics in rural areas because of the heterogeneity of neighboring units. However, clusters of size-two housing units were considered to be more optimum within those areas where the housing characteristics of neighboring units tend to be very similar (i.e., urban areas and new construction units). A splitting operation was then carried out for clusters selected from the census address and the new construction frames. This consisted of halving each sample cluster from these frames. Thus, two housing units from each of these clusters were included in the survey and two housing units were held in reserve. No splitting operation was carried out within the clusters selected from the area sampling frame; every other area sample cluster of four housing units was used for the survey and the remaining clusters were assigned to the reserve sample.

Selection of supplemental sample housing units in rural areas—In 1974, it was decided to increase the reliability of the AHS estimates of rural housing characteristics by doubling the number of sample housing units from rural areas. This was accomplished by reactivating the reserve sample, selected in the original sampling operations in 1973, from rural areas only. For the reserve sample selected in census address and new construction frames, the other half of each rural cluster (an expected two housing units) was reactivated in 1974. Similarly, for the area sampling frame, the entire reserve cluster (an expected four housing units) was reactivated in 1974 if the cluster was rural. This supplementation increased the overall probability of selection for sample housing units in rural areas to about 2 in 1,366; whereas, the overall proability of selection for sample housing units in urban areas remained at 1 in 1,366.

Selection of sample housing units for the 1976 Coverage Improvement Program—The 1976 Coverage Improvement Program was undertaken to correct certain deficiencies in the AHS national sample from the census address and new construction frames. The coverage deficiencies included the following units:

1. New construction, from building permits issued prior to January 1970 for which construction had not been completed at the time of the 1970 census.
2. Units converted to residential use in structures totally nonresidential at the time of the 1970 census.
3. Houses that have been moved onto their present site since the 1970 census.
4. Mobile homes placed in parks either missed in the 1970 census or established since the 1970 census.
5. Mobile homes placed outside parks since the 1970 census or vacant at the time of the 1970 census.

A sample of new construction units whose permits were issued before January 1970 was selected in two stages. First, units whose permits were issued before January 1970, but which were completed after the census, were identified from the Survey of Construction (SOC), a survey of building permits conducted monthly by the Bureau of the Census. In the second stage, these units were then sampled so that the overall probability of selection was about 1 in 1,320.

A sample of mobile homes, placed in a park missed by the census or established after the census, was also selected in two stages. During the first stage, a list of mobile home parks was obtained from commercial listings. This list was then supplemented by additional parks identified by a canvassing operation

similar to that performed in ED's where area sampling methods are used. The second stage consisted of dividing the parks into clusters of an expected size of four sites. These clusters were then sampled so that the overall probability of selection was about 1 in 1,366.

For the remaining units (i.e., mobile homes placed outside parks since the 1970 census, mobile homes vacant at the time of the 1970 census, units converted from nonresidential to residential use since the 1970 census, and houses that had been moved onto their present site since the 1970 census), the sampling was done in three stages. First, a subsample of the regular AHS sample units from the census address frame was selected. Second, succeeding structures that had been eligible to be selected from the census address frame were listed until eight structures (excluding mobile home parks) were found. Finally, the intervening structures that had been listed which did not have a chance of selection in the AHS were identified and the units within these structures were interviewed.

1977 sample reduction—By 1977, the addition to the sample from primarily new construction and the coverage improvements had increased the total sample size (interviews plus noninterviews) to about 81,000. The sample size was reduced by about 7 percent to approximately 75,000, in 1977. However, this reduction did not include any CEN-SUP[1] units or units which were selected as part of the 1976 Coverage Improvement Program. Thus, the overall probability of selection for these latter units remained unchanged, and for the rest of the units their probability of selection was about 1 in 1,472 if they were urban and about 1 in 736 if they were rural.

ESTIMATION

1980 housing inventory—In 1980, the AHS estimates employed a three-stage ratio estimation procedure. However, prior to implementation of the procedure, the basic weight (i.e., the inverse of the probability of selection) was adjusted to account for the type A noninterview housing units encountered in the AHS. This noninterview adjustment was done separately for occupied and vacant units. The noninterview adjustment was equal to the following ratio:

$$\frac{\text{Interviewed housing units + Noninterviewed housing units}}{\text{Interviewed housing units}}$$

The first-stage ratio estimation procedure was employed for sample housing units from non-self-representing (NSR) PSU's only. This procedure was designed to reduce the contribution to the variance arising from the sampling of PSU's. The first-stage ratio estimation procedure takes into account the differences that existed at the time of the 1970 census in the distribution by tenure and residence of the housing population estimated from the sample NSR PSU's and that of the NSR housing population in each of the four census regions of the country.

[1] CEN-SUP units resulted from a 1970 census evaluation study and represented units missed in the 1970 census.

The first-stage ratio estimation factor for each specified category was as follows:

$$\frac{\text{The 1970 census housing population in the residence-tenure category for all NSR strata in a census region}}{\text{Estimate of the housing population category using 1970 census housing counts for sample NSR PSU's in a census region}}$$

The numerators of the ratios were calculated by obtaining the 1970 census housing counts for each of the residence-tenure categories for each NSR stratum and summing these counts across the NSR strata in each census region. The denominators were calculated by obtaining the 1970 census housing counts for each of the residence-tenure categories for each NSR sample PSU, weighting these counts by the inverse of the probability of selecting that PSU and summing these weighted counts across the NSR sample PSU's in each census region. The computed first-stage ratio estimation factor was then applied to the existing weight for each NSR sample unit in each first-stage ratio estimation category.

The second-stage ratio estimation procedure was designed to adjust the AHS sample estimate of two categories of conventional new construction units, i.e., two categories of sample units built April 1, 1970, or later, to two independently derived current estimates where a known deficiency in the AHS sample exists (see the section on nonsampling error) for each of the four regions. These estimates were considered to be the best estimates available for the number of conventional new construction units in these categories.

The second-stage ratio estimation factor was as follows:

$$\frac{\text{Current best estimate of new construction in the category}}{\text{AHS sample estimate of new construction units in the category}}$$

The numerators of the ratios were derived from data based on the Survey of Construction (SOC). The denominators of the ratios were obtained from the weighted estimates for the AHS sample units using the existing weight after the first-stage ratio estimation procedure. The computed second-stage ratio estimation factor was then applied to the existing weight for each sample unit in each second-stage ratio estimation category.

The third-stage ratio estimation procedure was employed for all the AHS sample units. This procedure was designed to adjust the AHS sample estimates of housing (i.e., the estimates employing the noninterview, first-stage, and second-stage adjustments) to current vacant housing estimates for 4 categories of vacant housing units and to independently derived current housing estimates for 24 categories of occupied housing units. Each of these categories is a combination of the characteristics of residence, tenure, race of householder, and sex of householder.

The third-stage ratio estimation factor for each specified category was as follows:

$$\frac{\text{Current independent estimate of housing units in the category}}{\text{AHS sample estimate of housing units in the category}}$$

The numerators of the ratios for occupied housing units were derived from data based on the Current Population Survey

(CPS), a sample household survey conducted monthly by the Bureau of the Census. The numerators of the ratios for vacant housing units were derived from data based on the Housing Vacancy Survey[9] (HVS), a quarterly vacancy survey also conducted by the Bureau of the Census. The denominators of the ratios were obtained from the weighted estimates for the AHS sample units, using the existing weight after the second-stage ratio estimation procedure. The computed third-stage ratio estimation factor was then applied to the existing weight for each sample unit in each third-stage ratio estimation category.

The second-stage and the third-stage ratio estimation procedures were repeated in order to bring the AHS estimates into close agreement with both sets of independent estimates. The second stage was modified so that the estimates for all 24 categories of new construction would be identical to the estimates before the third stage. Hence, the repeated second stage had the effect of controlling the AHS sample estimates of new construction units to the "unbiased" sample estimates for 22 categories of new construction for each of the 4 regions (i.e., 14 categories for conventional new construction units and 8 for new construction mobile homes) and of adjusting the AHS sample estimate for 2 categories of conventional new construction units to an independently derived current estimate.

The numerators, for the repeated second stage, were either the unbiased weighted estimates for the AHS sample units using the existing weight after the first-stage ratio estimation procedure (i.e., the estimates employing the noninterview and first-stage adjustments) or the independent estimate derived from data based on the Survey of Construction (SOC).

The denominators of the ratios in this repetitive process were obtained from the weighted estimates for the AHS sample units after the previous stage of ratio estimation. The factors resulting from this repetitive process were then applied to the existing weight on the appropriate records, and the resulting product was used as the final weight for tabulation.

The third-stage ratio estimation procedure, as well as the overall estimation procedure, reduced the sampling error for most statistics below what would have been obtained by simply weighting the results of the sample by the inverse of the probability of selection. The distribution of the housing population selected for the sample differed somewhat, by chance, from that of the Nation as a whole in such basic housing characteristics as tenure, vacancy status, residence, race of householder, and sex of householder. These characteristics are probably closely correlated with other housing characteristics measured for the AHS. Therefore, through the use of the three-stage ratio estimation procedure one can expect the sample estimate to be improved substantially.

RELIABILITY OF THE ESTIMATES

There are two types of possible errors associated with estimates based on data from sample surveys; sampling and nonsampling errors. The following is a description of the sampling and nonsampling errors associated with the AHS national sample.

Sampling errors—The particular sample used for this survey is one of a large number of possible samples of the same size that could have been selected using the same sample design. Even if the same schedules, instructions, and interviewers were used, estimates from each of the different samples would differ from each other. The variability between estimates from all possible samples is defined as the sampling error. One common measure of this sampling error is the standard error which measures the precision with which an estimate from a sample approximates the average result of all possible samples. In addition, the standard error, as calculated for this report, also partially reflects the variation in the estimates due to some nonsampling errors, but it does not measure, as such, any systematic biases in the data. Therefore, the accuracy of the estimates depends on both the sampling and nonsampling errors, measured by the standard error, and biases and some additional nonsampling errors not measured by the standard error.

The sample estimate and its estimated standard error enable one to construct interval estimates so that the interval includes the average result of all possible samples with a known probability. For example, if all possible samples were selected, and each of these samples was surveyed under essentially the same general conditions and an estimate and its estimated standard error were calculated for each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples;
2. Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average result of all possible samples;
3. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average result of all possible samples.

The average result of all possible samples either is or is not contained in any particular computed interval. However, for a particular sample, one can say with specified confidence that the average result of all possible samples is included in the constructed interval.

The figures presented in the following tables are approximations to the standard errors of various estimates shown in this report. In order to derive standard errors that would be applicable to a wide variety of items and also could be prepared at a moderate cost, a number of approximations were required. As a result, the tables of standard errors provide an indication of the order of magnitude of the standard errors rather than the precise standard error for any specific item.

Standard errors of estimates of levels—Tables I and II present the standard errors applicable to the estimates in this report.

Standard errors of estimates of percentages—The reliability of an estimated percentage, computed by using sample data for

both numerator and denominator, depends upon both the size of the percentage and the size of the total upon which the percentage is based. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more. Tables III and IV present the standard errors for estimated percentages.

TABLE I. Standard Errors of Estimated Numbers of National and Regional Housing Units: 1980 (Excluding Estimates of Housing Units for the West Region and of Housing Units With Spanish-Origin Householder)

(68 chances out of 100)

Size of estimate (000)	Standard error (000)		Size of estimate (000)	Standard error (000)	
	National	Regional		National	Regional
0	2	2	1,000	44	43
5	3	3	2,500	70	70
10	4	4	5,000	97	102
25	7	7	10,000	133	151
50	10	10	25,000	189	271
100	14	14	50,000	205	—
250	22	22	80,000	109	—
500	31	31			

TABLE II. Standard Errors of Estimated Numbers of Housing Units for the West Region and of Housing Units With Spanish-Origin Householder: 1980

(68 chances out of 100)

Size of estimate (000)	Standard error (000)	Size of estimate (000)	Standard error (000)
0	2	500	35
5	3	1,000	50
10	5	2,500	85
25	8	5,000	131
50	11	10,000	213
100	15	25,000	446
250	24		

Included in tables I through IV are estimates of standard errors for estimates of zero and zero percent. These estimates of standard errors are considered to be overestimates of the true standard errors and should be used primarily for construction of confidence intervals for characteristics when an estimate of zero is obtained.

Standard errors of ratios—For ratios of the form (100) (x/y), where x is not a subclass of y, tables III and IV underestimate the standard error of the ratio when there is little or no correlation between x and y. For this type of ratio, a better approximation of the standard error may be obtained by letting the standard error of the ratio be approximately equal to:

$$(100)\left(\frac{x}{y}\right)\sqrt{\left(\frac{\sigma_x}{x}\right)^2+\left(\frac{\sigma_y}{y}\right)^2}$$

where: x = the numerator of the ratio
y = the denominator of the ratio
σ_x = the standard error of the numerator
σ_y = the standard error of the denominator

Illustration of the use of the standard error tables. Illustration I— Table A-1 of this report shows that in all occupied one-unit structures in the United States there were 9,286,000 renter-occupied housing units (including mobile homes and trailers), in 1980. Interpolation in standard error table I shows that the standard error of an estimate of this size is approximately 128,000. The following procedure was used in interpolating.

The information presented in the following table was extracted from standard error table I. The entry for "x" is the one sought.

Size of estimate (000)	Standard error (000)
5,000	97
9,286	x
10,000	133

By vertically interpolating between 97 and 133, the entry for "x" is determined to be 128.

$$9{,}286-5{,}000 = 4{,}286$$
$$10{,}000-5{,}000 = 5{,}000$$

$$97+\frac{4{,}286}{5{,}000}(133-97) = 128$$

Consequently, the 68-percent confidence interval, as shown by these data, is from 9,158,000 to 9,414,000 housing units. Therefore, a conclusion that the average estimate of 1980 housing units of this type lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Similarly, we could conclude that the average estimate, derived from all possible samples, lies within the interval from 9,081,000 to 9,491,000 housing units with 90 percent confidence; and that the average estimate lies within the interval from 9,030,000 to 9,542,000 housing units with 95 percent confidence.

Table A-1 also shows that of the 9,286,000 renter-occupied housing units in one-unit structures (including mobile homes and

trailers), in 1980, 2,492,000, or 26.8 percent, have all doors covered by storm doors. Interpolation in standard error table III (i.e., interpolation on both the base and percent) shows that the standard error of the above percentage is 0.6 percentage points. The following procedure was used in interpolating.

The information presented in the following table was extracted from standard error table III. The entry for "p" is the one sought.

Base of percentage (000)	Estimated percentage		
	25	26.8	50
5,000	0.9	a	1.0
9,286		p	
10,000	0.6	b	0.7

1. By horizontal interpolating between 0.9 and 1.0, the entry for cell "a" is determined to be 0.9.

$$26.8-25.0 = 1.8$$
$$50.0-25.0 = 25.0$$
$$0.9 + \frac{1.8}{25.0}(1.0-0.9) = 0.9$$

2. By horizontal interpolating between 0.6 and 0.7, using the same procedure as in step 1, the entry for cell "b" is determined to be 0.6.
3. By vertical interpolating between 0.9 and 0.6, using the same procedure as in step 1, the entry for "p" is determined to be 0.6.

Consequently, the 68-percent confidence interval, as shown by these data, is from 26.2 to 27.4 percent; the 90-percent confidence interval is from 25.8 to 27.8 percent; and the 95-percent confidence interval is from 25.6 to 28.0 percent.

Illustration II—Table E-1 of this report shows that in all occupied housing units of the West Region in 1980 there were 9,472,000 owner-occupied housing units. Interpolation in standard error table II shows that the standard error of an estimate of this size is approximately 204,000. Consequently, the 68-percent confidence interval is from 9,268,000 to 9,676,000 housing units. Therefore, a conclusion that the average estimate, derived from all possible samples, of 1980 owner-occupied housing units in the West Region, lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Similarly, we could conclude that the average estimate, derived from all possible samples, lies with the interval from 9,146,000 to 9,798,000 housing units with 90 percent confidence; and that the average estimate lies within the interval from 9,064,000 to 9,880,000 housing units with 95 percent confidence.

Table E-1 also shows that of the 9,472,000 owner-occupied housing units in the West Region, 2,322,000, or 24.5 percent, have a central air-conditioning system. Interpolation in standard error table IV (i.e., interpolation on both the base and the percent) shows that the standard error of the above percentage is 0.7 percentage points. Consequently, the 68-percent confidence interval, as shown by these data, is from 23.8 to 25.2 percent; the 90-percent confidence interval is from 23.4 to 25.6 percent; and the 95-percent confidence interval is from 23.1 to 25.9 percent.

TABLE III. Standard Errors of Estimated Percentages of Housing Units: 1980 (Excluding Estimated Percentages of Housing Units for the West Region and of Housing Units With Spanish-Origin Householder)

(68 chances out of 100)

Base of percentage (000)	Estimated percentage							
	0 or 100	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	25 or 75	50
5	28.0	28.0	28.0	28.0	28.0	28.0	28.0	31.2
10	16.3	16.3	16.3	16.3	16.3	16.3	19.1	22.1
25	7.2	7.2	7.2	7.2	8.4	10.0	12.1	14.0
50	3.8	3.8	3.8	4.3	5.9	7.0	8.5	9.9
100	1.9	1.9	2.0	3.0	4.2	5.0	6.0	7.0
250	0.8	0.9	1.2	1.9	2.6	3.2	3.8	4.4
500	0.4	0.6	0.9	1.4	1.9	2.2	2.7	3.1
1,000	0.2	0.4	0.6	1.0	1.3	1.6	1.9	2.2
2,500	0.08	0.3	0.4	0.6	0.8	1.0	1.2	1.4
5,000	0.04	0.2	0.3	0.4	0.6	0.7	0.9	1.0
10,000	0.02	0.14	0.2	0.3	0.4	0.5	0.6	0.7
25,000	0.01	0.09	0.12	0.2	0.3	0.3	0.4	0.4
50,000	–	0.06	0.09	0.14	0.2	0.2	0.3	0.3
80,000	–	0.05	0.07	0.11	0.2	0.2	0.2	0.3

Differences—The standard errors shown are not directly applicable to differences between two sample estimates. The standard error of a difference between estimates is approximately equal to the square root of the sum of the squares of the standard errors of each estimate considered separately. This formula is quite accurate for the difference between estimates of the same characteristics in two different areas or the difference between separate and uncorrelated characteristics in the same area. However, if there is a high positive correlation between the two characteristics, the formula will overestimate the true error; if there is a high negative correlation between the two characteristics, the formula will underestimate the true standard error.

Illustration of the computation of the standard error of a difference—Table A-2 of this report shows that in all occupied one-unit structures in the United States there were 5,420,000 renter-occupied housing units with no doors covered by storm doors. Thus, the apparent difference between the number of 1980 renter-occupied, one-unit structures with no doors covered and those with all doors covered is 2,928,000. Interpolation in standard error table I shows that the standard error of 2,492,000 is approximately 70,000 and the standard error on an estimate of 5,420,000 is approximately 100,000. Therefore, the standard error of the estimated difference of 2,928,000 is about 122,000.

$$122{,}000 = \sqrt{(70{,}000)^2 + (100{,}000)^2}$$

Consequently, the 68-percent confidence interval for the 2,928,000 difference is from 2,806,000 to 3,050,000 housing units. Therefore, a conclusion that the average estimate of this difference, derived from all possible samples, lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Similarly, the 90-percent confidence interval is from 2,733,000 to 3,123,000 housing units, and the 95-percent confidence interval is from 2,684,000 to 3,172,000. Thus, we can conclude with 95 percent confidence that the number of 1980 renter-occupied one-unit detached housing units with no doors covered is greater than the number with all doors covered.

Medians—For the medians presented in certain tables, the sampling error depends on the size of the base and on the distribution upon which the median is based. An approximate method for measuring the reliability of the estimated median is to determine an interval about the estimated median so that there is a stated degree of confidence that the average median from all possible samples lies within the interval. The following procedure may be used to estimate confidence limits of a median based on sample data:

1. From the appropriate standard error table, determine the standard error of a 50-percent characteristic on the base of the median;
2. Add to and subtract from 50 percent the standard error determined in step 1. This will give you a lower percentage limit (50 percent minus standard error of 50 percent) and an upper percentage limit (50 percent plus standard error of 50 percent);
3. Using the distribution of the characteristic, read off the confidence interval corresponding to the two points established in step 2.

TABLE IV. Standard Errors of Estimated Percentages of Housing Units for the West Region and of Housing Units With Spanish-Origin Householder: 1980

(68 chances out of 100)

Base of percentage (000)	Estimated percentage							
	0 or 100	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	25 or 75	50
5	31.7	31.7	31.7	31.7	31.7	31.7	31.7	34.0
10	18.8	18.8	18.8	18.8	18.8	18.8	20.8	24.0
25	8.5	8.5	8.5	8.5	9.1	10.9	13.2	15.2
50	4.4	4.4	4.4	6.5	7.7	9.3	9.3	10.8
100	2.3	2.3	2.3	3.3	4.6	5.4	6.6	7.6
250	0.9	1.0	1.3	2.1	2.9	3.4	4.2	4.8
500	0.5	0.7	1.0	1.5	2.0	2.4	2.9	3.4
1,000	0.2	0.5	0.7	1.0	1.4	1.7	2.1	2.4
2,500	0.09	0.3	0.4	0.7	0.9	1.1	1.3	1.5
5,000	0.05	0.2	0.3	0.5	0.6	0.8	0.9	1.1
10,000	0.02	0.2	0.2	0.3	0.5	0.5	0.7	0.8
25,000	0.01	0.10	0.13	0.2	0.3	0.3	0.4	0.5

For about 68 out of 100 possible samples, the average median from possible samples would lie between these two values.

A two-standard-error confidence interval may be determined by finding the values corresponding to 50 percent plus and minus twice the standard error determined in step 1. For about 95 out of 100 possible samples, the average median from all possible samples would lie between these two values.

Illustration of the computation of the 95-percent confidence interval for a median—Table A-2 shows the median income of families and primary individuals in specified owner-occupied, one-unit detached housing units was $21,200 in 1980. The base of the distribution, from which this median was determined, is 41,945,000 housing units.

1. From standard error table III, the standard error of a 50-percent characteristics on the base of 41,945,000 is 0.3 percentage points.
2. To obtain a two-standard-error confidence interval on the estimated median, add to and subtract from 50 percent twice the standard error determined in step 1. This yields percentage limits of 49.4 and 50.6.
3. From table A-2, it can be seen by cumulating the frequencies for the first 5 categories that 19,634,000 owner-occupied housing units, or 46.8 percent, had income less than $20,000 and that an additional 5,528,000 specified owner-occupied housing units, or 13.2 percent, had income from $20,000 to less than $25,000. By linear interpolation, the lower limit of the 95-percent confidence interval is found to be about:

$$\$20{,}000 + (\$25{,}000 - \$20{,}000)\,\frac{(49.4 - 46.8)}{13.2} = \$21{,}000$$

Similarly, the upper limit of the 95-percent confidence interval is found to be about:

$$\$20{,}000 + (\$25{,}000 - \$20{,}000)\,\frac{(50.6 - 46.8)}{13.2} = \$21{,}400$$

Thus, the 95-percent confidence interval ranges from $21,000 to $21,400.

Nonsampling errors—In general, nonsampling errors can be attributed to many sources: Inability to obtain information about all cases; definitional difficulties; differences in the interpretation of questions; inability or unwillingness to provide correct information on the part of respondents; mistakes in recording or coding the data; and other errors of collection, response, processing, coverage, and estimation for missing data. Nonsampling errors are not unique to sample surveys since they can, and do, occur in complete censuses, as well.

Obtaining a measurement of the total nonsampling error associated with the estimates from a survey is very difficult, considering the number of possible sources of error. However, an attempt was made to measure some of the nonsampling errors associated with the estimates for the 1980 AHS national sample.

Reinterview program—For the AHS national sample, a study was conducted to obtain a measurement of some of the components of the nonsampling error associated with the AHS estimates. A reinterview program was conducted for a subsample of the AHS households. These households were revisited and answers to some of the questions on the AHS questionnaire were obtained again. The original interview and reinterview were assumed to be two independent readings and thus were the basis for the measurement of the "content" error of these AHS estimates.

As part of the reinterview, an additional check was carried out for interviewer evaluation and quality control. This check was made at each of these households to determine if the following was done during the original interview.

1. The correct unit was visited.
2. The correct number of housing units were interviewed at that address.
3. The correct information on "Year Built" was obtained.
4. The correct information on "Tenure" was obtained.
5. The correct information on "Household Composition" was obtained.
6. The correct information on "Type of Housing Unit" was obtained.
7. The correct information on "Occupancy Status" was obtained.

The results of the 1980 and 1979 reinterview studies were not available at the time of publication; the results of the 1977 and 1978 reinterview studies which are presented in the Census Bureau memoranda, "Reinterview Results for the Annual Housing Survey—National Sample 1977" and "Reinterview Results for the Annual Housing Survey—National Sample 1978" are presented here.

In 1978, a substantial portion of the reinterview questionnaire was devoted to testing the new questions 1 through 7 (parts a and b). Questions 1 through 7 (part a), which were asked only at housing units interviewed in the previous year, determined whether there had been a change since last year in selected nonattitudinal items. If a change had been recorded or the respondent did not know if a change had occurred, part b of the question, which collects the value of the item, was asked. In the reinterview the respondent was asked these items using the questions as formatted in 1977. Comparing the responses from the differently formatted questions, the 1978 reinterview found that 80 percent of the questions showed low levels of inconsistency with the remainder showing moderate levels.

The results of the 1977 reinterview program, which relate to energy characteristics, showed that 43 percent fell into the low levels of inconsistency, 36 percent fell into the moderate levels of inconsistency, which indicated that there were some problems with inconsistent reporting, and 21 percent showed high levels of inconsistency, which indicated that improvements were needed in the data collection methods or that the category concepts themselves were ambiguous.

The 1970 census reinterview results provide illustrations of possible nonsampling errors for some of the items which also

appear in the AHS. For example, median value of homes was consistently underestimated by about 5 percent, and the average monthly costs of electricity and utility gas were consistently overestimated although the net effect on average gross rent was fairly small.

A possible explanation for the results of the AHS and census reinterview studies, as well as the surveys themselves, is that the respondents may lack precise or complete information. Also, because the results of the reinterview studies are derived from sample surveys, there is sampling error associated with these estimates of nonsampling error. Therefore, the possibility of such errors should be taken into account when considering the results of these studies.

Coverage errors—Deficiencies in the representation of conventional new construction for the AHS new construction sample (mentioned previously in the section on estimation) is an example of coverage errors. During the sampling of building permits, only those issued more than 5 months before the survey began were eligible to be selected to represent conventional new construction. Due to time constraints, it is not possible to sample units whose permits are issued less than 5 months in advance of the survey.

It is estimated that the 1980 AHS sample missed about 1.4 percent (i.e., about 251,000 units) of all conventional housing units built after April 1970 because the permits for these units, which were built before September 1980, were issued less than 5 months in advance of the survey. The second-stage ratio estimation procedure was employed to reduce the effect of this deficiency although some bias in the AHS estimates of conventional new construction probably still exists. Review of the second-stage ratio estimation procedures indicates that we have consistently overcompensated for this deficiency in every year since 1975 by ratio adjusting the new construction to counts of new construction for the end of interview period, which has been December or January, instead of October. This overcompensation may inflate the new construction counts by 100,000 to 300,000 units.

In addition, the 1976 Coverage Improvement Program also had certain deficiencies. First, when the canvassing was done to identify mobile home parks that were not in the sample frame or not on the commercial lists, only 92 percent of the census address frame ED's were represented. Second, it appears that the listing procedure (used to find mobile homes placed outside parks, units converted from nonresidential to residential, and houses that had been moved onto their present site) was not very efficient for finding nonresidential conversions (which might be primarily in business districts), since the listing procedure started from a residential unit. (The sample estimate of this component was approximately 16,000 housing units with a standard error of 12,000.)

Finally, it is felt that deficiencies also exist in ED's where area sampling methods are used. As before, it had been assumed that all units located inside these ED's would be represented in the sample. However, it has been estimated that the 1980 AHS sample missed as much as 2 percent (i.e., as much as 400,000 units) of all housing units in ED's where area sampling methods are used because these units were not listed during the canvassing.

The third stage of ratio estimation corrects for these deficiencies as far as the count of total housing is concerned, i.e., it adjusts the estimate of the total housing inventory to the best available estimate. However, biases of subtotals would still remain.

Rounding errors—In errors associated with processing, the rounding of estimates introduces another source of error in the data, the severity of which depends on the statistic being measured. The effect of rounding is significant relative to the sampling error only for small percentages, median number of persons, and median number of rooms when these figures are derived from relatively large bases. This means that confidence intervals formed from the standard errors given may be distorted, and this should be taken into account when considering the results of this survey. Also, since medians in these tabulations were computed using unrounded data, instead of the published rounded data, they can differ from medians calculated directly from the published data.

Table Finding Guide, Part F

Subjects, by Type of Area and Table Number

(This guide lists all subjects covered in this report. Data are shown for owner- and renter-occupied housing units. Tables with the prefix letter "A" are for the United States total, "B" for the Northeast Region, "C" for the North Central Region, "D" for the South Region, and "E" for the West Region)

Subject	United States/Regions			
	Inside SMSA's (In/Not in central cities) Outside SMSA's	Income	Value	Gross rent
FUELS AND FUEL COSTS				
House heating fuel	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	A-3,B-3,C-3,D-3,E-3	A-4,B-4,C-4,D-4,E-4
Water heating fuel				
Cooking fuel				
All electric housing units	—	—	—	—
All gas housing units				
Monthly cost paid for electricity	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	A-3,B-3,C-3,D-3,E-3	A-4,B-4,C-4,D-4,E-4
Monthly cost paid for utility, bottled, tank, or LP gas				
Yearly cost paid for fuel oil, kerosene, coal, wood, etc.				
HEATING AND AIR CONDITIONING				
Heating equipment	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	A-3,B-3,C-3,D-3,E-3	A-4,B-4,C-4,D-4,E-4
Fireplaces and heating stoves				
Insufficient heat:				
Housing unit uncomfortably cold				
Additional heat source				
Rooms lacking specified heat source				
Supplemental heating equipment acquired during last 12 months				
Supplemental solar water heating equipment	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	A-3,B-3,C-3,D-3,E-3	—
Air conditioning	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	A-3,B-3,C-3,D-3,E-3	A-4,B-4,C-4,D-4,E-4
Supplemental cooling equipment				
INSULATION				
Storm windows or other protective window covering	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	A-3,B-3,C-3,D-3,E-3	A-4,B-4,C-4,D-4,E-4
Storm doors				
Attic or roof insulation				
Insulation items added or installed in last 12 months	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	A-3,B-3,C-3,D-3,E-3	—
Cost of insulation items added or installed in last 12 months				
JOURNEY TO WORK				
Householder's principal means of transportation to work	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	—	—
Main reason householder drives to work				
Distance from home to work				
Travel time from home to work				
HOUSEHOLD CHARACTERISTICS				
Persons	—	—	—	—

Subject	United States/Regions—Continued			
	Housing units in structure	Number of rooms per housing unit	Year structure built	Monthly cost paid for electricity
FUELS AND FUEL COSTS				
House heating fuel	A5,B-5,C-5,D-5,E-5	A-6,B-6,C-6,D-6,E-6	A-7,B-7,C-7,D-7,E-7	A-8,B-8,C-8,D-8,E-8
Water heating fuel				
Cooking fuel				
All electric housing units	—	—	—	A-8,B-8,C-8,D-8,E-8
All gas housing units	—	—	—	—
Monthly cost paid for electricity	A-5,B-5,C-5,D-5,E-5	A-6,B-6,C-6,D-6,E-6	A-7,B-7,C-7,D-7,E-7	—
Monthly cost paid for utility, bottled, tank, or LP gas				
Yearly cost paid for fuel oil, kerosene, coal, wood, etc.				
HEATING AND AIR CONDITIONING				
Heating equipment	A-5,B-5,C-5,D-5,E-5	A-6,B-6,C-6,D-6,E-6	A7,B-7,C-7,D-7,E-7	A-8,B-8,C-8,D-8,E-8
Fireplaces and heating stoves				
Insufficient heat: Housing unit uncomfortably cold	A-5,B-5,C-5,D-5,E-5	A-6,B-6,C-6,D-6,E-6	A-7,B-7,C-7,D-7,E-7	—
Additional heat source				
Rooms lacking specified heat source				
Supplemental heating equipment acquired during last 12 months	A-5,B-5,C-5,D-5,E-5	A-6,B-6,C-6,D-6,E-6	A-7,B-7,C-7,D-7,E-7	A-8,B-8,C-8,D-8,E-8
Supplemental solar water heating equipment	—	—	A-7,B-7,C-7,D-7,E-7	A-8,B-8,C-8,D-8,E-8
Air conditioning	A-5,B-5,C-5,D-5,E-5	A-6,B-6,C-6,D-6,E-6	A-7,B-7,C-7,D-7,E-7	A-8,B-8,C-8,D-8,E-8
Supplemental cooling equipment				
INSULATION				
Storm windows or other protective window covering	—	A-6,B-6,C-6,D-6,E-6	A-7,B-7,C-7,D-7,E-7	A-8,B-8,C-8,D-8,E-8
Storm doors				
Attic or roof insulation				
Insulation items added or installed in last 12 months	—	—	A-7,B-7,C-7,D-7,E-7	—
Cost of insulation items added or installed in last 12 months				
JOURNEY TO WORK				
Householder's principal means of transportation to work	—	—	—	—
Main reason householder drives alone to work				
Distance from home to work				
Travel time from home to work				
HOUSEHOLD CHARACTERISTICS				
Persons	—	—	—	A-8,B-8,C-8,D-8,E-8

Subjects	United States/Regions—Continued			United States Units occupied by households with—	
	Monthly cost paid for gas	Yearly cost paid for fuel oil, kerosene, coal, wood, etc.	Householder's principal means of transportation to work	Black householder	Spanish origin householder
FUELS AND FUEL COSTS					
House heating fuel	A-9,B-9,C-9,D-9,E-9	A-10,B-10,C-10,D-10,E-10	—	F-1	G-1
Water heating fuel	A-9,B-9,C-9,D-9,E-9	—	—	F-1	G-1
Cooking fuel	—	—	—	—	—
All electric housing units	A-9,B-9,C-9,D-9,E-9	—	—	—	—
All gas housing units					
Monthly cost paid for electricity					
Monthly cost paid for utility, bottled, tank, or LP gas	—	—	—	F-1	G-1
Yearly cost paid for fuel oil, kerosene, coal, wood, etc.					
HEATING AND AIR CONDITIONING					
Heating equipment	A-9,B-9,C-9,D-9,E-9	A-10,B-10,C-10,D-10,E-10	—	F-1	G-1
Fireplaces and heating stoves					
Insufficient heat:					
Housing unit uncomfortably cold	—	—	—	F-1	G-1
Additional heat source					
Rooms lacking specified heat source					
Supplemental heating equipment acquired during last 12 months	A-9,B-9,C-9,D-9,E-9	—	—	F-1	G-1
Supplemental solar water heating equipment					
Air conditioning	A-9,B-9,C-9,D-9,E-9	A-10,B-10,C-10,D-10,E-10	—	F-1	G-1
Supplemental cooling equipment					
INSULATION					
Storm windows or other protective window covering	A-9,B-9,C-9,D-9,E-9	A-10,B-10,C-10,D-10,E-10	—	F-1	G-1
Storm doors					
Attic or roof insulation					
Insulation items added or installed in last 12 months	—	—	—	F-1	G-1
Cost of insulation items added or installed in last 12 months					
JOURNEY TO WORK					
Householder's principal means of transportation to work	—	—	—	F-1	G-1
Main reason householder drives alone to work					
Distance from home to work	—	—	A-11,B-11,C-11,D-11,E-11	F-1	G-1
Travel time from home to work					
HOUSEHOLD CHARACTERISTICS					
Persons	A-9,B-9,C-9,D-9,E-9	A-10,B-10,C-10,D-10,E-10	—	—	—

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