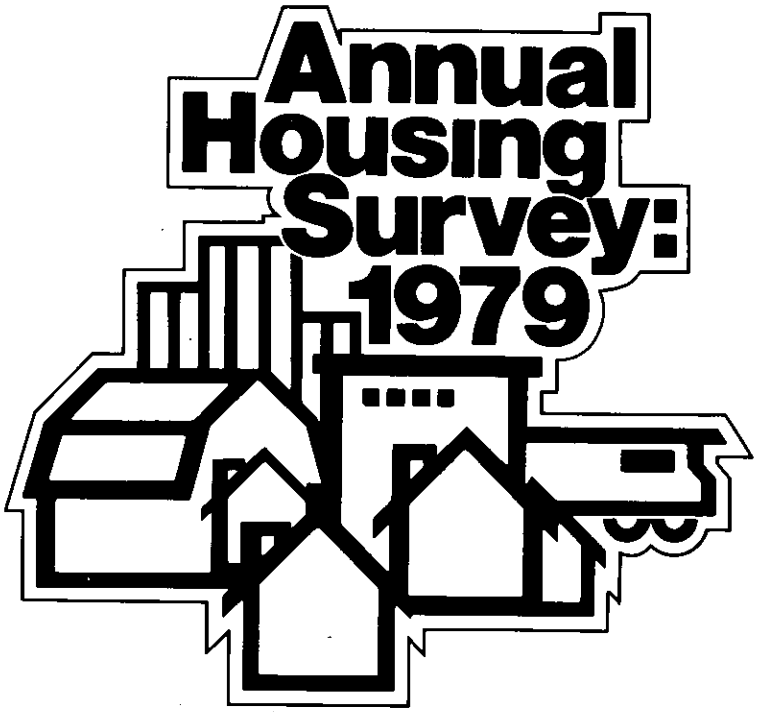
CURRENT
HOUSING REPORTS
SERIES H-150-79

Part F

Energy-Related Housing Characteristics

United States and Regions



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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 Connie Casey, Kathryn Nelson, Eric Weiss, and Ken Wieand, 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., Susan Bush, Mary C. Carroll, Sheryl H. Furman, Margaret Harper, Stu Kaufman, Vonda Kiplinger, Richard G. Kreinsen, Ruby E. Lewis, Stanley J. Rolark, Josephine Ruffin, Georgina Torres, Barbara 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, assisted by Maria A. Mochulski, Joan F. Garrett, Helen S. Montagliani, and Fabian Sanchez. 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, Mark Olson, and James Dallmann. Angel Marshall, assisted by Larry Beasley and Robert Smith, Jr., 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, Karen McClinic, Don 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, Robert Aquilino, 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, Edison Gore, and Richard Frazier. Reinterview design and analysis were conducted under the supervision of Irwin Schreiner, by Phillip Sanchez.

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

Clerical processing of the questionnaires was performed in the Data Preparation Division under the direction of Don L. Adams, Chief, by Patricia Clark, Theodore Sands, and George Wilson.

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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List of Reports From the Annual Housing Survey—National Sample

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C	Financial Characteristics of the Housing Inventory for the United States and Regions: 1979
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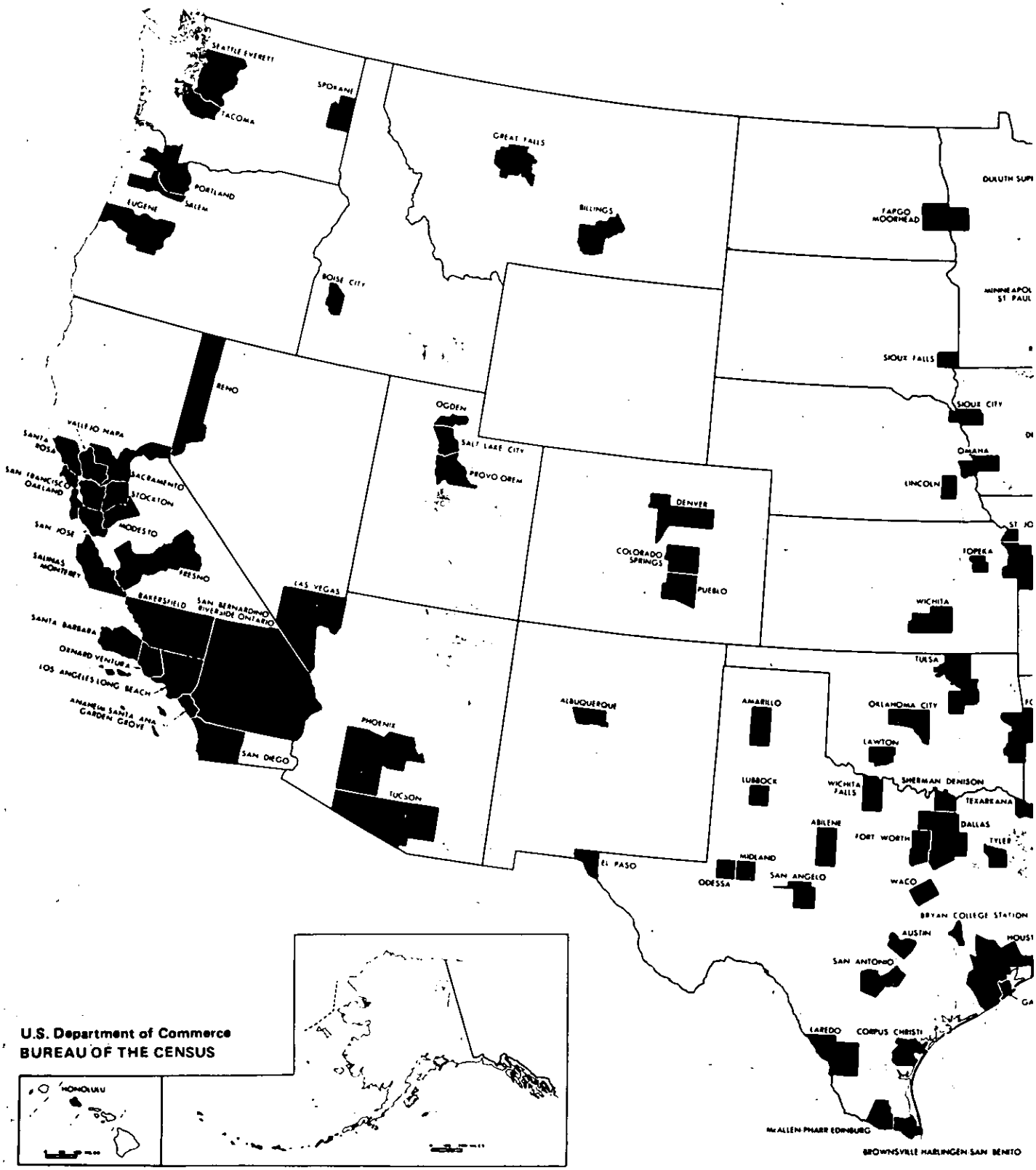
(Areas defined by the Office of Management and Budget as of February 1971)



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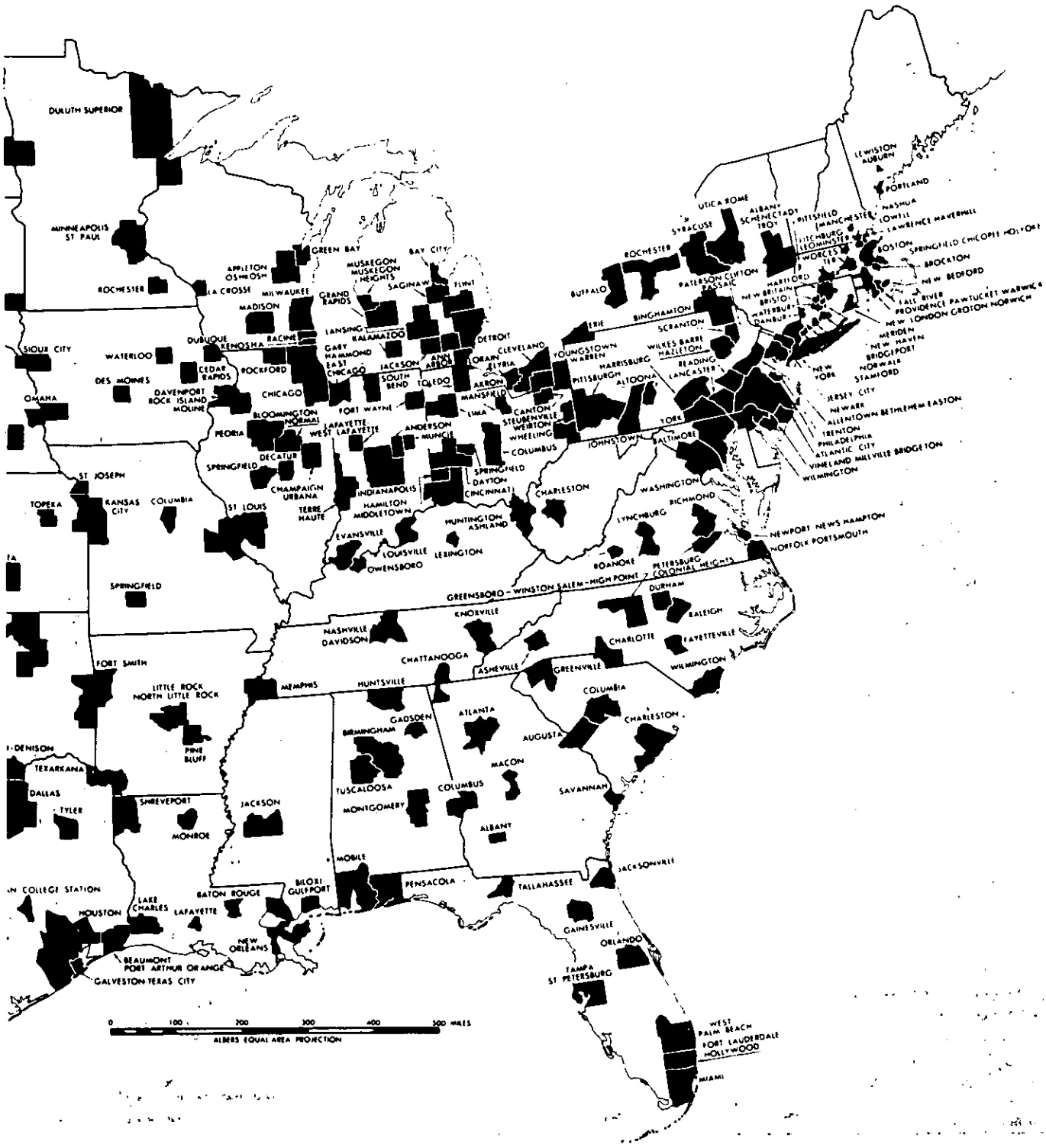
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ROCHESTER
SIOUX CITY
WATERLOO
DES MOINES
OMAHA
DAVENPORT ROCK ISLAND MOLINE
CEDAR RAPIDS
ROCKFORD
CHICAGO
DUBUQUE
KENOSHA
RACINE
MADISON
LA CROSSE
MILWAUKEE
APPLETON OSHKOSH
GREEN BAY
MUSKEGON MUSKEGON HEIGHTS
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DETROIT
SOUTH BEND
TOLEDO
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CLEVELAND
AKRON
MANSFIELD
LIMA
FORT WAYNE
BLOOMINGTON NORMAL
PEORIA
LAFAYETTE WEST LAFAYETTE
ANDERSON MUNCIE
DECATUR
SPRINGFIELD
CHAMPAIGN URBANA
TERRE HAUTE
INDIANAPOLIS
HAMILTON MIDDLETOWN
SPRINGFIELD DAYTON CINCINNATI
COLUMBUS
CANTON STEUBENVILLE WEIRTON WHEELING
YOUNGSTOWN WARREN
ERIE
BUFFALO
ROCHESTER
SYRACUSE
UTICA ROME
ALBANY SCHENECTADY TROY
PITTSFIELD
BINGHAMTON
SCRANTON
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LANCASTER
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ROANOKE
PETERSBURG COLONIAL HEIGHTS
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LOWELL
LAWRENCE HAVERHILL
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WORCESTER
BOSTON
SPRINGFIELD CHICOPEE HOLYOKE
BROCKTON
NEW BEDFORD
HARTFORD
NEW BRITAIN BRISTOL
WATERBURY DANBURY
FALL RIVER
PROVIDENCE PAWTUCKET WARWICK
NEW LONDON GROTON NORWICH
MERIDEN
NEW HAVEN
BRIDGEPORT
NORWALK
STAMFORD
NEW YORK
JERSEY CITY
NEWARK
ALLENTOWN BETHLEHEM EASTON
TRENTON
PHILADELPHIA
ATLANTIC CITY
VINELAND MILLVILLE BRIDGETON
WILMINGTON
ST JOSEPH
TOPEKA
KANSAS CITY
COLUMBIA
ST LOUIS
EVANSVILLE
LOUISVILLE
OWENSBORO
LEXINGTON
HUNTINGTON ASHLAND
CHARLESTON
SPRINGFIELD
GREENSBORO - WINSTON SALEM - HIGH POINT
DURHAM
RALEIGH
KNOXVILLE
NASHVILLE DAVIDSON
CHATTANOOGA
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PENSACOLA
TALLAHASSEE
GAINESVILLE
ORLANDO
NEW ORLEANS
BEAUMONT PORT ARTHUR ORANGE
GALVESTON TEXAS CITY
TAMPA ST PETERSBURG
WEST PALM BEACH
FORT LAUDERDALE HOLLYWOOD
MIAMI
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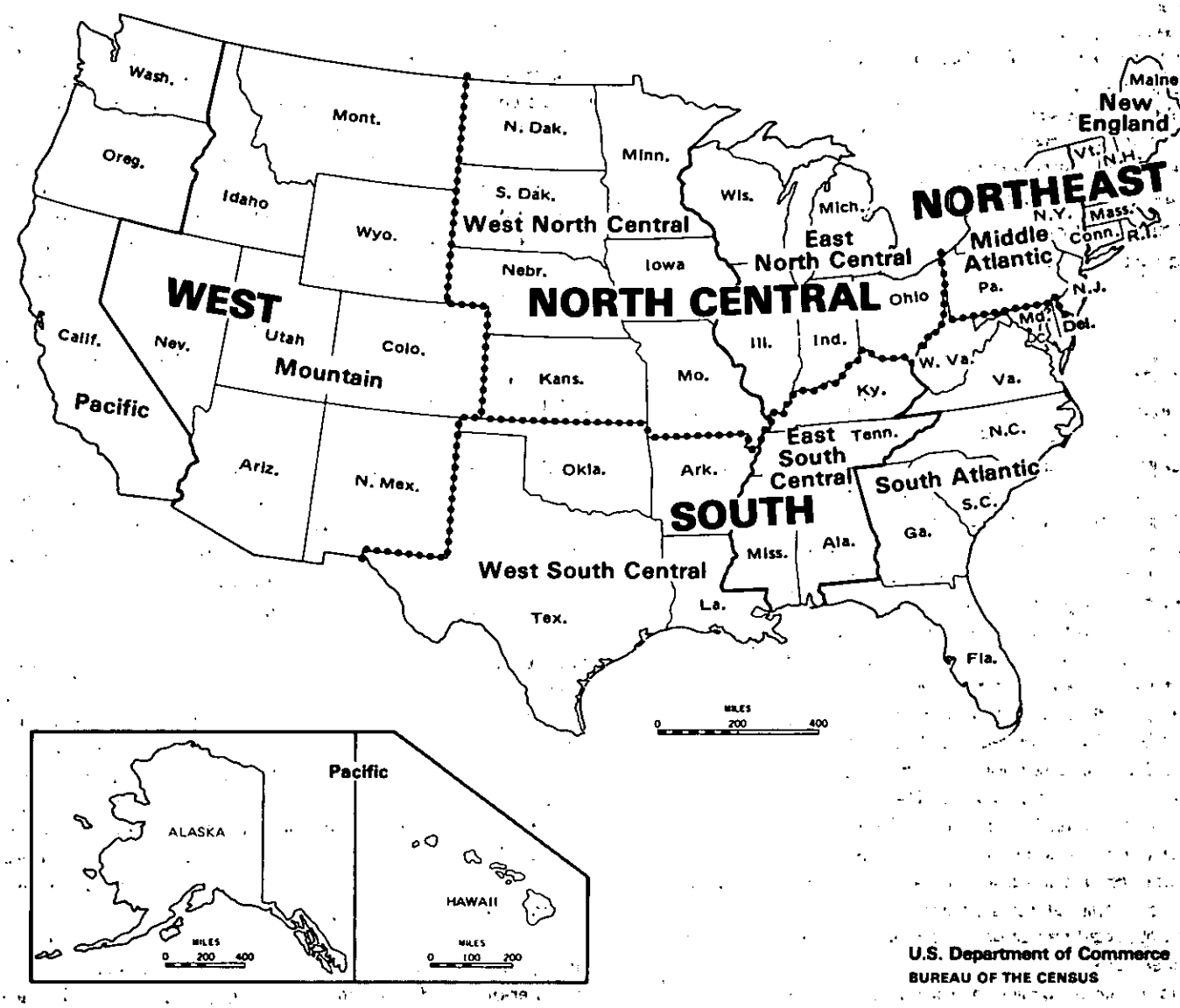
ALBERS EQUAL AREA PROJECTION

Regions and Geographic Divisions of the United States



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Introduction

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GENERAL

This report presents statistics on energy-related housing characteristics from the 1979 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 September 1979 to December 1979.

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 household head, storm windows and doors, insulation, breakdowns or failures in equipment, the physical condition of the structure, and 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 and provides definitions and explanations of the subjects covered in this report. 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, 1-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 household head'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 79,000 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 (median, 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 1979 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 for 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 standard metropolitan statistical areas (SMSA's). Data for the SMSA's are based on an independent sample of the 60 SMSA's originally divided into 3 groups of approximately 20 each, with 1 group interviewed every 3 years on a rotating basis.

In 1978 these 3 groups were revised into 4 groups of 15 each and designated as groups I, II, III, and IV. A list of the original 3 groups follows. The number beside each SMSA indicates the revised groupings. Reports are now available for Group A (1974 and 1977), Group B (1975), and Group C (1976) SMSA's.

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. Microfilm copies of these unpublished data are also available on a cost per reel basis. 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 AHS 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 4 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 1979 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 September 1979 and extended through December 1979.

Data were collected for sample housing units located in the counties and independent cities comprising 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 1979 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 1979 Annual Housing Survey were of the conventional type, on which the interviewer recorded the information by marking a precoded check box or 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.

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

*The regrouping of the SMSA's into 4 groups of 15 each began in 1978 and is shown in the revised columns.

**Included with Group B for the first interview.

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 1979 survey and 1970 Census of Housing results, differences in the data may reflect such factors as the use of direct interview for 1979 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 1979 are measured in current dollars (the value at the time the data were collected). Therefore, a significant part of the increase between 1970 and 1979 reflects the 92.2 percent rise in the cost of living during the 9½ 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 head of the household 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, 1-unit structures on less than 10 acres having no business on the property, and gross rent is restricted to renter-occupied units excluding 1-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 intrepretation of differences in the estimated counts of Spanish-origin households between 1970 and 1979. 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 1979 estimates from the Annual Housing Survey sample, as well as the estimation and processing procedures used.

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

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979

(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 TOTAL	IN CENTRAL CITIES	NOT IN CENTRAL CITIES	OUTSIDE SMSA'S
ALL OCCUPIED HOUSING UNITS	78 572	53 641	23 697	29 944	24 931
HOUSE HEATING FUEL					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
UTILITY GAS	28 845	21 234	8 644	12 590	7 611
BOTTLED, TANK, OR LP GAS	3 180	807	68	738	2 373
FUEL OIL	9 732	6 190	1 769	4 421	3 542
KEROSENE, ETC	282	90	26	64	191
ELECTRICITY	8 105	4 250	1 141	3 109	3 855
COAL OR COKE	239	93	24	70	146
WOOD	774	136	26	110	638
SOLAR HEAT	4	3	-	3	1
OTHER FUEL	15	8	5	2	8
NONE	235	209	82	126	26
RENTER OCCUPIED	27 160	20 620	11 911	8 710	6 540
UTILITY GAS	14 478	11 414	6 699	4 715	3 064
BOTTLED, TANK, OR LP GAS	954	241	46	195	713
FUEL OIL	5 562	4 502	2 849	1 653	1 060
KEROSENE, ETC	131	42	12	30	90
ELECTRICITY	5 139	3 930	2 054	1 876	1 209
COAL OR COKE	119	47	20	27	72
WOOD	361	91	21	70	270
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	81	75	69	5	6
NONE	335	278	140	138	57
WATER HEATING FUEL					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
NO HOT PIPED WATER	401	76	11	65	325
WITH HOT PIPED WATER	51 009	32 945	11 776	21 169	18 065
FUEL USED:					
UTILITY GAS	27 261	21 125	8 897	12 227	6 136
BOTTLED, TANK, OR LP GAS	2 425	675	47	628	1 750
FUEL OIL	3 437	2 623	702	1 921	813
KEROSENE, ETC	13	2	-	2	12
ELECTRICITY	17 752	8 465	2 121	6 344	9 288
COAL OR COKE	26	10	-	10	16
WOOD	33	8	2	6	25
SOLAR HEAT	37	23	3	20	14
OTHER FUEL	16	8	2	6	9
NONE	8	7	2	5	2
NOT REPORTED	1	-	-	-	1
RENTER OCCUPIED	27 160	20 620	11 911	8 710	6 540
NO HOT PIPED WATER	452	114	38	77	338
WITH HOT PIPED WATER	26 708	20 506	11 873	8 633	6 202
FUEL USED:					
UTILITY GAS	14 691	12 135	7 194	4 941	2 557
BOTTLED, TANK, OR LP GAS	704	205	44	162	499
FUEL OIL	3 472	3 149	2 212	937	323
KEROSENE, ETC	4	1	-	1	3
ELECTRICITY	7 654	4 870	2 326	2 544	2 784
COAL OR COKE	31	20	16	3	12
WOOD	6	2	-	2	4
SOLAR HEAT	3	2	-	2	1
OTHER FUEL	104	94	64	30	10
NONE	38	28	17	11	10
NOT REPORTED	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
UTILITY GAS	18 351	14 253	6 467	7 786	4 098
BOTTLED, TANK, OR LP GAS	3 886	1 192	114	1 078	2 694
FUEL OIL	40	30	9	21	10
KEROSENE, ETC	14	4	-	4	10
ELECTRICITY	28 955	17 504	5 192	12 312	11 451
COAL OR COKE	16	7	3	3	10
WOOD	123	20	2	19	103
OTHER FUEL	12	4	-	4	8
NONE	14	7	-	7	7
RENTER OCCUPIED	27 160	20 620	11 911	8 710	6 540
UTILITY GAS	14 200	12 139	8 014	4 126	2 060
BOTTLED, TANK, OR LP GAS	1 260	399	60	339	861
FUEL OIL	24	19	10	9	5
KEROSENE, ETC	6	2	2	-	4
ELECTRICITY	11 390	7 868	3 691	4 177	3 521
COAL OR COKE	6	2	2	1	4
WOOD	63	13	2	11	50
OTHER FUEL	16	15	8	7	1
NONE	197	162	122	41	34

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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]	41 336	27 923	9 863	18 059	13 414
LESS THAN $10	543	368	184	184	174
$10 TO $19	5 049	3 452	1 499	1 953	1 596
$20 TO $29	8 649	5 885	2 280	3 605	2 764
$30 TO $39	8 356	5 675	1 979	3 696	2 681
$40 TO $49	5 559	3 832	1 238	2 594	1 728
$50 TO $59	4 431	2 947	883	2 065	1 484
$60 TO $79	4 661	3 034	947	2 087	1 627
$80 TO $99	1 849	1 205	385	820	644
$100 TO $149	1 780	1 212	367	845	568
$150 OR MORE	433	300	96	204	133
NO ELECTRICITY USED	26	12	5	7	15
MEDIAN	37	37	34	38	37
SPECIFIED RENTER OCCUPIED[2]	26 550	20 473	11 906	8 567	6 077
LESS THAN $10	2 092	1 729	1 028	702	363
$10 TO $19	6 421	5 104	2 917	2 187	1 317
$20 TO $29	5 173	3 937	2 241	1 697	1 236
$30 TO $39	3 209	2 314	1 233	1 081	895
$40 TO $49	1 667	1 211	667	544	456
$50 TO $59	1 028	702	339	363	325
$60 TO $79	933	678	314	364	255
$80 TO $99	278	216	114	102	63
$100 TO $149	223	165	68	96	59
$150 OR MORE	49	36	16	19	13
INCLUDED IN RENT	5 402	4 322	2 923	1 399	1 080
NO ELECTRICITY USED	74	58	46	11	16
MEDIAN	24	23	22	24	26
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	41 336	27 923	9 863	18 059	13 414
LESS THAN $10	2 239	1 534	619	915	705
$10 TO $14	2 770	2 088	855	1 233	682
$15 TO $19	2 807	2 018	835	1 184	788
$20 TO $24	3 224	2 199	958	1 241	1 024
$25 TO $29	2 965	2 050	927	1 123	915
$30 TO $39	5 819	4 033	1 515	2 518	1 786
$40 TO $49	4 293	3 119	1 089	2 030	1 174
$50 TO $69	4 641	3 381	1 180	2 201	1 260
$70 TO $99	1 395	1 051	393	658	344
$100 OR MORE	511	417	153	264	93
NO GAS USED	10 674	6 031	1 339	4 692	4 642
MEDIAN	32	32	30	34	31
SPECIFIED RENTER OCCUPIED[2]	26 550	20 473	11 906	8 567	6 077
LESS THAN $10	3 702	3 186	1 978	1 209	516
$10 TO $14	2 266	1 852	1 162	691	414
$15 TO $19	1 555	1 194	705	489	361
$20 TO $24	1 287	890	516	374	398
$25 TO $29	836	606	354	252	231
$30 TO $39	1 420	953	598	355	466
$40 TO $49	839	584	343	241	255
$50 TO $69	820	580	368	212	241
$70 TO $99	269	198	133	65	71
$100 OR MORE	135	80	48	33	55
INCLUDED IN RENT	7 804	6 351	3 779	2 572	1 453
NO GAS USED	5 614	3 999	1 924	2 075	1 615
MEDIAN	17	15	14	15	22
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	41 336	27 923	9 863	18 059	13 414
LESS THAN $100	1 296	827	312	515	470
$100 TO $199	860	495	151	344	365
$200 TO $299	710	348	121	227	361
$300 TO $399	1 034	565	158	407	468
$400 TO $499	1 085	664	185	478	421
$500 TO $599	1 034	663	197	466	370
$600 TO $699	1 071	704	157	547	367
$700 TO $799	761	537	96	441	223
$800 OR MORE	2 129	1 669	363	1 306	460
FUELS NOT USED OR FREE	31 358	21 450	8 122	13 328	9 908
MEDIAN	500	550	468	584	421

[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: 1979--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.--CONTINUED					
SPECIFIED RENTER OCCUPIED[1]	26 550	20 473	11 906	8 567	6 077
LESS THAN $100	313	181	104	77	132
$100 TO $199	212	98	38	60	114
$200 TO $299	223	84	35	49	140
$300 TO $399	286	158	65	93	127
$400 TO $499	214	124	49	75	90
$500 TO $599	202	107	47	60	96
$600 TO $699	201	114	47	66	87
$700 TO $799	102	68	32	36	34
$800 OR MORE	360	237	66	171	123
INCLUDED IN RENT	4 957	4 247	2 857	1 389	711
FUELS NOT USED OR FREE	19 478	15 055	8 564	6 491	4 423
MEDIAN	411	451	399	485	367
ALL OCCUPIED HOUSING UNITS	78 572	53 641	23 697	29 944	24 931
HEATING EQUIPMENT					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
WARM-AIR FURNACE	30 967	21 160	7 269	13 891	9 807
HEAT PUMP	1 125	672	133	539	452
STEAM OR HOT WATER	6 787	5 280	1 971	3 309	1 507
BUILT-IN ELECTRIC UNITS	3 244	1 541	457	1 084	1 703
FLOOR, WALL, OR PIPELESS FURNACE	3 313	2 148	1 034	1 114	1 165
ROOM HEATERS WITH FLUE	2 271	881	392	489	1 390
ROOM HEATERS WITHOUT FLUE	1 700	662	324	338	1 038
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 769	467	123	344	1 302
NONE	235	209	82	126	26
RENTER OCCUPIED	27 160	20 620	11 911	8 710	6 540
WARM-AIR FURNACE	9 918	7 565	3 902	3 664	2 352
HEAT PUMP	188	135	55	81	53
STEAM OR HOT WATER	6 892	6 165	4 252	1 913	727
BUILT-IN ELECTRIC UNITS	2 712	1 987	995	991	725
FLOOR, WALL, OR PIPELESS FURNACE	2 912	2 280	1 171	1 108	632
ROOM HEATERS WITH FLUE	2 045	1 190	758	433	855
ROOM HEATERS WITHOUT FLUE	1 350	701	505	196	649
FIREPLACES, STOVES, OR PORTABLE HEATERS	809	320	133	187	489
NONE	335	278	140	138	57
THERMOSTAT CONTROLLED HEATING EQUIPMENT					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
NO HEATING EQUIPMENT	235	209	82	126	26
WITH HEATING EQUIPMENT	51 176	32 812	11 704	21 108	18 364
NO THERMOSTAT CONTROL	5 541	2 386	1 140	1 246	3 155
WITH THERMOSTAT CONTROL	45 498	30 330	10 521	19 809	15 168
NOT CLOCK OPERATED	39 467	26 025	8 611	17 414	13 442
CONSTANT TEMPERATURE SETTING MAINTAINED	14 206	9 255	3 235	6 020	4 950
TEMPERATURE SETTING IS CHANGED	25 055	16 625	5 327	11 298	8 430
OCCASIONALLY	6 633	4 532	1 570	2 962	2 100
REGULARLY	18 163	11 902	3 677	8 224	6 261
DON'T KNOW	225	167	69	98	58
NOT REPORTED	34	24	10	13	10
NOT REPORTED	206	145	49	96	61
CLOCK OPERATED	6 005	4 285	1 901	2 384	1 720
NOT REPORTED	26	20	9	11	6
NOT REPORTED	137	96	43	53	41
RENTER OCCUPIED	27 160	20 620	11 911	8 710	6 540
NO HEATING EQUIPMENT	335	278	140	138	57
WITH HEATING EQUIPMENT	26 826	20 342	11 770	8 572	6 483
NO THERMOSTAT CONTROL	9 958	7 612	5 475	2 138	2 345
WITH THERMOSTAT CONTROL	16 796	12 680	6 273	6 407	4 116
NOT CLOCK OPERATED	14 821	11 071	5 318	5 753	3 750
CONSTANT TEMPERATURE SETTING MAINTAINED	5 644	4 231	2 015	2 216	1 413
TEMPERATURE SETTING IS CHANGED	8 878	6 592	3 170	3 422	2 286
OCCASIONALLY	2 875	2 255	1 134	1 121	621
REGULARLY	5 780	4 156	1 941	2 214	1 625
DON'T KNOW	211	172	93	79	39
NOT REPORTED	12	9	2	8	2
NOT REPORTED	298	247	133	114	51
CLOCK OPERATED	1 946	1 583	935	648	363
NOT REPORTED	28	26	20	6	2
NOT REPORTED	72	50	23	27	22

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

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	78 572	53 641	23 697	29 944	24 931
UNITS OCCUPIED LAST WINTER	66 323	44 954	19 619	25 336	21 368
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	47 489	30 502	11 002	19 500	16 987
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	29 237	10 500	18 738	14 733
NO ADDITIONAL HEAT SOURCE USED	39 942	26 680	9 468	17 211	13 262
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	3 209	2 091	840	1 252	1 117
NOT REPORTED	820	466	192	275	354
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	1 265	502	763	2 254
RENTER OCCUPIED	18 833	14 452	8 617	5 836	4 381
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	13 507	8 032	5 475	3 519
NO ADDITIONAL HEAT SOURCE USED	14 181	11 231	6 555	4 676	2 950
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 392	1 938	1 275	663	455
NOT REPORTED	452	338	203	136	114
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	945	585	361	862
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	47 489	30 502	11 002	19 500	16 987
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	29 237	10 500	18 738	14 733
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	35 271	24 393	8 406	15 987	10 878
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 939	4 419	1 922	2 497	3 519
1 ROOM	2 341	1 435	598	837	906
2 ROOMS	2 060	1 103	515	588	957
3 ROOMS OR MORE	3 538	1 882	809	1 073	1 656
NOT REPORTED	761	425	172	253	335
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	1 265	502	763	2 254
RENTER OCCUPIED	18 833	14 452	8 617	5 836	4 381
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	13 507	8 032	5 475	3 519
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	12 647	10 454	6 260	4 194	2 193
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 912	2 707	1 556	1 151	1 205
1 ROOM	1 380	1 059	627	432	321
2 ROOMS	1 343	922	505	417	422
3 ROOMS OR MORE	1 189	726	423	302	463
NOT REPORTED	467	346	216	130	121
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	945	585	361	862
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	47 489	30 502	11 002	19 500	16 987
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	29 237	10 500	18 738	14 733
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	1 265	502	763	2 254
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 975	1 054	422	633	1 920
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	416	159	56	102	257
NOT REPORTED	128	52	24	28	77
RENTER OCCUPIED	18 833	14 452	8 617	5 836	4 381
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	13 507	8 032	5 475	3 519
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	945	585	361	862
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 363	707	434	272	657
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	333	166	94	71	167
NOT REPORTED	111	73	56	17	38

[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: 1979--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	78 572	53 641	23 697	29 944	24 931
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 004	675	205	470	1 329
WITH SELECTED HEATING EQUIPMENT[1]	49 407	32 345	11 581	20 764	17 062
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	46 552	30 781	11 127	19 654	15 771
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 638	1 419	407	1 012	1 219
SOLAR HEATING EQUIPMENT	18	14	2	12	4
STOVE, BURNING WOOD OR COAL	1 142	505	84	421	637
FIREPLACE, BURNING WOOD OR COAL	347	177	42	135	170
PORTABLE ELECTRIC HEATER	570	395	169	226	175
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	114	56	22	33	58
OTHER	441	261	79	181	180
NOT REPORTED	36	27	11	16	9
NOT REPORTED	217	145	47	97	73
RENTER OCCUPIED	27 160	20 620	11 911	8 710	6 540
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 144	598	274	324	546
WITH SELECTED HEATING EQUIPMENT[1]	26 017	20 023	11 637	8 386	5 994
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 901	19 195	11 082	8 114	5 706
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	968	711	482	229	257
SOLAR HEATING EQUIPMENT	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	125	62	27	34	64
FIREPLACE, BURNING WOOD OR COAL	14	9	2	7	5
PORTABLE ELECTRIC HEATER	655	511	354	157	144
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	77	44	36	8	33
OTHER	90	77	55	22	13
NOT REPORTED	16	16	10	6	1
NOT REPORTED	147	116	73	43	31
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	2 219	922	1 297	3 756
WITH SELECTED HEATING EQUIPMENT[2]	45 436	30 802	10 865	19 937	14 634
LESS THAN 4 YEARS	8 205	5 232	1 571	3 661	2 972
4 TO 9 YEARS	12 102	7 353	2 262	5 091	4 749
10 TO 19 YEARS	13 514	9 241	3 243	5 999	4 273
20 TO 39 YEARS	8 408	6 444	2 423	4 021	1 964
40 YEARS OR MORE	780	631	334	298	149
DON'T KNOW	2 067	1 628	893	735	439
NOT REPORTED	360	272	139	133	88
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	2 219	922	1 297	3 756
WITH SELECTED HEATING EQUIPMENT[2]	45 436	30 802	10 865	19 937	14 634
NO MAINTENANCE OR MODIFICATION	34 612	22 993	8 207	14 786	11 619
WITH MAINTENANCE OR MODIFICATION	10 447	7 530	2 516	5 014	2 918
NOT REPORTED	377	279	142	137	97
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	2 219	922	1 297	3 756
WITH SELECTED HEATING EQUIPMENT[2]	45 436	30 802	10 865	19 937	14 634
NO MAINTENANCE CONTRACT	39 228	25 919	9 270	16 649	13 309
WITH MAINTENANCE CONTRACT	5 790	4 563	1 419	3 144	1 226
NOT REPORTED	419	319	176	144	99

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

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
NO HOT PIPED WATER	401	76	11	65	325
WITH HOT PIPED WATER	51 009	32 945	11 776	21 169	18 065
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	49 647	32 111	11 498	20 613	17 536
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	259	188	77	110	71
NOT REPORTED	1 058	616	195	421	442
NOT REPORTED	1	-	-	-	1
RENTER OCCUPIED	27 160	20 620	11 911	8 710	6 540
NO HOT PIPED WATER	452	114	38	77	338
WITH HOT PIPED WATER	26 708	20 506	11 873	8 633	6 202
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 837	19 829	11 441	8 388	6 008
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	98	80	55	24	18
NOT REPORTED	733	568	359	209	165
NOT REPORTED	-	-	-	-	-
AIR CONDITIONING					
OWNER OCCUPIED	51 411	33 021	11 787	21 234	18 391
WITH AIR CONDITIONING	30 278	20 184	7 320	12 864	10 094
ROOM UNITS	15 400	9 888	4 061	5 826	5 513
1	9 293	5 495	2 085	3 409	3 799
2	4 376	3 036	1 378	1 659	1 339
3	1 241	962	428	534	279
4	342	268	117	151	74
5 OR MORE	149	127	53	74	22
CENTRAL SYSTEM	14 877	10 296	3 258	7 038	4 581
WITH NO AIR CONDITIONING	21 134	12 837	4 467	8 370	8 297
RENTER OCCUPIED	27 160	20 620	11 911	8 710	6 540
WITH AIR CONDITIONING	12 577	9 914	5 190	4 724	2 663
ROOM UNITS	7 640	5 819	3 180	2 639	1 821
1	5 901	4 443	2 435	2 007	1 459
2	1 440	1 137	605	532	303
3	244	194	110	84	50
4	36	30	17	14	6
5 OR MORE	19	15	13	2	5
CENTRAL SYSTEM	4 936	4 094	2 010	2 085	842
WITH NO AIR CONDITIONING	14 584	10 707	6 721	3 986	3 877
ALL OCCUPIED HOUSING UNITS	78 572	53 641	23 697	29 944	24 931
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	57 419	35 504	12 454	23 050	21 915
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	48 358	30 344	10 213	20 130	18 014
ALL WINDOWS COVERED	26 929	16 626	4 931	11 694	10 303
SOME WINDOWS COVERED	4 818	2 879	1 031	1 848	1 940
NO WINDOWS COVERED	16 409	10 680	4 185	6 495	5 730
NOT REPORTED	202	159	66	94	43
RENTER OCCUPIED	9 061	5 160	2 240	2 920	3 901
ALL WINDOWS COVERED	2 782	1 450	567	883	1 332
SOME WINDOWS COVERED	1 023	559	241	318	464
NO WINDOWS COVERED	4 839	2 818	1 257	1 560	2 021
NOT REPORTED	417	334	175	159	84
STORM DOORS					
OWNER OCCUPIED	48 358	30 344	10 213	20 130	18 014
ALL DOORS COVERED	25 471	15 723	4 846	10 877	9 748
SOME DOORS COVERED	6 461	3 751	1 309	2 442	2 710
NO DOORS COVERED	16 223	10 711	3 994	6 717	5 512
NOT REPORTED	203	159	64	95	44
RENTER OCCUPIED	9 061	5 160	2 240	2 920	3 901
ALL DOORS COVERED	2 598	1 393	572	821	1 205
SOME DOORS COVERED	924	480	205	275	444
NO DOORS COVERED	5 121	2 953	1 287	1 666	2 168
NOT REPORTED	417	334	176	157	84

[1]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: 1979--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	48 358	30 344	10 213	20 130	18 014
YES	40 273	25 249	7 916	17 333	15 024
NO	6 207	3 768	1 763	2 005	2 439
DON'T KNOW	1 651	1 151	463	688	501
NOT REPORTED	227	176	71	105	51
RENTER OCCUPIED	9 061	5 160	2 240	2 920	3 901
YES	3 935	2 111	729	1 383	1 823
NO	2 633	1 478	733	745	1 154
DON'T KNOW	2 061	1 233	602	631	828
NOT REPORTED	433	338	177	161	95
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	48 358	30 344	10 213	20 130	18 014
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	16 409	10 680	4 185	6 495	5 730
SOME OR ALL WINDOWS COVERED	31 747	19 505	5 962	13 542	12 242
NONE ADDED OR INSTALLED	27 572	16 957	5 144	11 813	10 615
SOME OR ALL ADDED OR INSTALLED	3 899	2 392	785	1 607	1 507
NOT REPORTED	276	155	34	122	120
NOT REPORTED	202	159	66	94	43
STORM DOORS:					
NO DOORS COVERED	16 223	10 711	3 994	6 717	5 512
SOME OR ALL DOORS COVERED	31 932	19 474	6 155	13 319	12 458
NONE ADDED OR INSTALLED	28 399	17 286	5 441	11 846	11 113
SOME OR ALL ADDED OR INSTALLED	2 877	1 799	581	1 218	1 078
NOT REPORTED	656	388	133	255	268
NOT REPORTED	203	159	64	95	44
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	6 207	3 768	1 763	2 005	2 439
WITH ATTIC OR ROOF INSULATION	40 273	25 249	7 916	17 333	15 024
NONE ADDED OR INSTALLED	35 723	22 420	7 045	15 375	13 303
SOME OR ALL ADDED OR INSTALLED	3 912	2 452	746	1 706	1 460
LESS THAN 3 INCHES ADDED	293	193	64	128	100
3 TO 6 INCHES ADDED	1 593	1 020	325	695	573
6 INCHES OR MORE ADDED	1 451	856	242	614	595
DON'T KNOW	354	250	87	163	103
NOT REPORTED	221	133	29	104	88
NOT REPORTED	639	377	125	253	262
DON'T KNOW	1 651	1 151	463	688	501
NOT REPORTED	227	176	71	105	51
WALL INSULATION:					
NONE ADDED OR INSTALLED	45 109	28 359	9 619	18 740	16 750
SOME OR ALL ADDED OR INSTALLED	2 938	1 742	504	1 238	1 196
NOT REPORTED	311	242	90	152	69
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	36 700	22 453	7 847	14 606	14 247
SOME OR ALL ADDED OR INSTALLED	11 025	7 426	2 213	5 213	3 600
DON'T KNOW	405	283	84	199	122
NOT REPORTED	228	182	70	112	46
OTHER INSULATION:					
NONE ADDED OR INSTALLED	45 424	28 592	9 703	18 889	16 832
SOME OR ALL ADDED OR INSTALLED	2 568	1 478	410	1 068	1 090
NOT REPORTED	366	274	101	173	92

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	9 061	5 160	2 240	2 920	3 901
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	4 839	2 818	1 257	1 560	2 021
SOME OR ALL WINDOWS COVERED	3 805	2 009	808	1 201	1 796
NONE ADDED OR INSTALLED	3 177	1 727	686	1 041	1 450
SOME OR ALL ADDED OR INSTALLED	556	241	106	136	315
NOT REPORTED	72	41	17	24	31
NOT REPORTED	417	334	175	159	84
STORM DOORS:					
NO DOORS COVERED	5 121	2 953	1 287	1 666	2 168
SOME OR ALL DOORS COVERED	3 522	1 874	777	1 096	1 649
NONE ADDED OR INSTALLED	3 117	1 639	662	976	1 478
SOME OR ALL ADDED OR INSTALLED	285	157	79	78	128
NOT REPORTED	120	78	36	42	42
NOT REPORTED	417	334	176	157	84
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	2 633	1 478	733	745	1 154
WITH ATTIC OR ROOF INSULATION	3 935	2 111	729	1 383	1 823
NONE ADDED OR INSTALLED	3 522	1 890	647	1 244	1 631
SOME OR ALL ADDED OR INSTALLED	287	149	56	93	138
LESS THAN 3 INCHES ADDED	14	9	6	2	5
3 TO 6 INCHES ADDED	89	44	16	28	45
6 INCHES OR MORE ADDED	77	44	11	33	33
DON'T KNOW	90	45	21	23	46
NOT REPORTED	16	7	-	7	9
NOT REPORTED	126	72	26	46	54
DON'T KNOW	2 061	1 233	602	631	828
NOT REPORTED	433	338	177	161	95
WALL INSULATION:					
NONE ADDED OR INSTALLED	8 268	4 641	2 000	2 641	3 627
SOME OR ALL ADDED OR INSTALLED	215	90	24	67	125
NOT REPORTED	578	429	217	212	149
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	6 910	3 874	1 661	2 212	3 036
SOME OR ALL ADDED OR INSTALLED	1 044	539	198	340	505
DON'T KNOW	675	412	208	205	263
NOT REPORTED	433	336	173	163	97
OTHER INSULATION:					
NONE ADDED OR INSTALLED	8 211	4 618	1 992	2 626	3 592
SOME OR ALL ADDED OR INSTALLED	282	126	35	92	155
NOT REPORTED	569	415	213	202	153
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	48 358	30 344	10 213	20 130	18 014
NO INSULATION ADDED OR INSTALLED	30 783	19 012	6 699	12 313	11 771
WITH INSULATION ADDED OR INSTALLED	16 080	10 393	3 204	7 189	5 687
LESS THAN $50	6 937	4 414	1 259	3 155	2 523
$50 TO $99	1 640	1 061	342	719	579
$100 TO $199	1 666	1 033	319	714	633
$200 TO $399	1 687	1 063	351	712	624
$400 OR MORE	2 726	1 802	607	1 196	923
DON'T KNOW	682	488	163	325	193
NOT REPORTED	744	532	164	368	212
MEDIAN	62	63	76	56	60
NOT REPORTED OR DON'T KNOW	1 495	938	310	628	557
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 180	645	229	417	535
LESS THAN $50	439	181	45	136	258
$50 TO $99	127	77	31	46	50
$100 TO $199	139	77	28	49	62
$200 TO $399	136	76	28	48	59
$400 OR MORE	219	158	66	92	61
DON'T KNOW	38	23	9	14	15
NOT REPORTED	83	53	21	32	30
MEDIAN	85	134	181	107	50-

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
ONLY ADDED OR INSTALLED STORM DOORS	964	569	190	380	395
LESS THAN $50	142	74	33	41	68
$50 TO $99	329	168	51	117	161
$100 TO $199	252	157	50	107	96
$200 TO $399	93	66	19	47	28
$400 OR MORE	54	33	14	20	20
DON'T KNOW	12	9	3	5	3
NOT REPORTED	82	63	20	43	19
MEDIAN	94	104	98	107	86
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	2 056	1 248	408	840	807
LESS THAN $50	234	124	21	103	110
$50 TO $99	251	165	57	108	86
$100 TO $199	351	204	66	137	147
$200 TO $399	428	254	89	166	174
$400 OR MORE	466	307	109	197	159
DON'T KNOW	170	107	39	67	63
NOT REPORTED	155	88	27	61	67
MEDIAN	213	227	260	208	196
ALL OCCUPIED HOUSING UNITS	78 572	53 641	23 697	29 944	24 931
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	36 032	23 931	8 038	15 893	12 101
DRIVES SELF	26 181	17 686	5 820	11 866	8 495
CARPOOL	6 217	3 923	1 185	2 738	2 294
MASS TRANSPORTATION	1 211	1 152	609	543	58
BICYCLE OR MOTORCYCLE	375	243	93	150	132
TAXICAB	12	8	7	2	4
WALKS ONLY	780	413	182	231	367
OTHER MEANS	182	107	37	70	74
WORKS AT HOME	953	321	76	245	632
NOT REPORTED	122	78	30	48	44
RENTER OCCUPIED	18 073	13 745	7 382	6 363	4 328
DRIVES SELF	10 948	8 195	3 836	4 359	2 753
CARPOOL	3 023	2 165	1 094	1 070	858
MASS TRANSPORTATION	1 935	1 907	1 570	337	27
BICYCLE OR MOTORCYCLE	309	227	106	121	82
TAXICAB	62	49	45	4	13
WALKS ONLY	1 337	936	610	325	402
OTHER MEANS	74	55	25	30	19
WORKS AT HOME	308	148	63	85	160
NOT REPORTED	78	63	32	31	14
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	36 032	23 931	8 038	15 893	12 101
LESS THAN 1 MILE	2 284	989	350	639	1 295
1 TO 4 MILES	7 434	4 544	2 091	2 453	2 890
5 TO 9 MILES	6 848	5 043	1 957	3 086	1 804
10 TO 19 MILES	7 776	5 903	1 748	4 155	1 873
20 TO 29 MILES	3 098	2 190	453	1 737	909
30 TO 49 MILES	1 897	1 125	169	956	771
50 MILES OR MORE	547	241	65	176	306
WORKS AT HOME	953	321	76	245	632
NO FIXED PLACE OF WORK	4 578	3 100	944	2 156	1 478
NOT REPORTED	617	475	185	290	142
MEDIAN	8.8	9.4	7.5	11.0	7.0
RENTER OCCUPIED	18 073	13 745	7 382	6 363	4 328
LESS THAN 1 MILE	2 092	1 284	773	511	808
1 TO 4 MILES	4 789	3 520	2 152	1 368	1 269
5 TO 9 MILES	3 666	3 075	1 669	1 406	591
10 TO 19 MILES	3 360	2 799	1 352	1 447	562
20 TO 29 MILES	1 031	809	336	473	222
30 TO 49 MILES	509	364	145	219	145
50 MILES OR MORE	155	76	29	47	79
WORKS AT HOME	308	148	63	85	160
NO FIXED PLACE OF WORK	1 738	1 296	621	675	442
NOT REPORTED	425	375	242	132	50
MEDIAN	6.3	6.9	5.9	8.0	4.2

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

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	36 032	23 931	8 038	15 893	12 101
LESS THAN 15 MINUTES	10 520	6 001	2 251	3 751	4 519
15 TO 29 MINUTES	11 114	8 181	3 017	5 164	2 932
30 TO 44 MINUTES	5 000	3 736	1 006	2 730	1 264
45 TO 59 MINUTES	1 831	1 283	361	921	548
1 HOUR TO 1 HOUR AND 29 MINUTES	1 297	858	239	619	439
1 HOUR AND 30 MINUTES OR MORE	398	226	73	154	171
WORKS AT HOME	953	321	76	245	632
NO FIXED PLACE OF WORK	4 578	3 100	944	2 156	1 478
NOT REPORTED	342	224	71	153	118
MEDIAN	21.1	22.5	21.0	23.4	17.1
RENTER OCCUPIED	18 073	13 745	7 382	6 363	4 328
LESS THAN 15 MINUTES	6 209	4 122	2 171	1 951	2 087
15 TO 29 MINUTES	5 676	4 680	2 513	2 167	996
30 TO 44 MINUTES	2 380	2 027	1 107	920	353
45 TO 59 MINUTES	807	694	409	285	112
1 HOUR TO 1 HOUR AND 29 MINUTES	614	528	346	182	86
1 HOUR AND 30 MINUTES OR MORE	195	150	104	46	45
WORKS AT HOME	308	148	63	85	160
NO FIXED PLACE OF WORK	1 738	1 296	621	675	442
NOT REPORTED	145	100	47	53	45
MEDIAN	19.5	21.3	21.8	20.7	15.0-

[1]LIMITED TO HEADS 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: 1979

(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	78 572	4 968	12 333	8 571	14 373	10 796	9 539	10 177	5 134	1 857	825	14700
HOUSE HEATING FUEL												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
UTILITY GAS	28 845	1 084	3 198	2 312	4 490	3 987	4 233	5 075	2 932	1 097	436	19200
BOTTLED, TANK, OR LP GAS	3 180	279	604	360	632	462	357	320	104	43	19	12700
FUEL OIL	9 732	328	1 182	844	1 677	1 485	1 355	1 625	792	293	152	17800
KEROSENE, ETC	282	26	58	51	69	33	22	17	6	1	-	10400
ELECTRICITY	8 105	220	624	654	1 283	1 288	1 340	1 499	757	280	160	19900
COAL OR COKE	239	20	43	35	55	35	19	19	11	1	1	11900
WOOD	774	77	160	90	151	120	86	60	24	5	-	12000
SOLAR HEAT	4	-	-	-	-	-	1	1	-	2	-	...
OTHER FUEL	15	1	3	1	4	5	-	2	1	-	-	...
NONE	235	9	21	25	42	32	29	39	30	8	1	18400
RENTER OCCUPIED	27 160	2 925	6 440	4 199	5 971	3 349	2 096	1 520	478	127	56	10000
UTILITY GAS	14 478	1 631	3 557	2 267	3 160	1 734	1 099	713	234	51	30	9700
BOTTLED, TANK, OR LP GAS	954	122	241	161	207	114	55	41	12	1	-	9100
FUEL OIL	5 562	528	1 376	879	1 154	702	444	333	93	37	16	10000
KEROSENE, ETC	131	17	36	22	29	16	5	8	-	-	-	8800
ELECTRICITY	5 139	458	980	730	1 249	707	453	391	129	32	9	11600
COAL OR COKE	119	24	33	20	19	10	4	7	2	-	-	7400
WOOD	361	84	114	50	68	24	14	6	1	-	-	6400
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	81	22	14	10	13	7	5	3	2	5	-	8300
NONE	335	40	87	59	71	34	17	18	6	1	1	9000
WATER HEATING FUEL												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
NO HOT PIPED WATER	401	113	150	49	53	23	6	2	3	1	-	5300
WITH HOT PIPED WATER	51 009	1 930	5 743	4 322	8 349	7 424	7 436	8 654	4 653	1 729	768	18500
FUEL USED:												
UTILITY GAS	27 261	931	2 889	2 118	4 197	3 785	4 066	4 888	2 882	1 072	433	19600
BOTTLED, TANK, OR LP GAS	2 425	186	415	286	463	347	303	268	105	40	11	13500
FUEL OIL	3 437	99	324	224	527	488	509	696	357	137	75	20600
KEROSENE, ETC	13	1	3	3	5	1	2	-	-	-	-	...
ELECTRICITY	17 752	704	2 095	1 686	3 132	2 783	2 549	2 782	1 298	476	248	17300
COAL OR COKE	26	1	1	1	8	8	2	3	2	1	-	...
WOOD	33	4	7	1	9	5	2	4	2	1	-	...
SOLAR HEAT	37	-	6	-	4	3	3	11	7	2	1	27600
OTHER FUEL	16	2	3	3	2	3	3	-	-	-	1	...
NONE	8	2	2	-	2	1	-	2	-	-	-	...
NOT REPORTED	1	-	-	1	-	-	-	-	-	-	-	...
RENTER OCCUPIED	27 160	2 925	6 440	4 199	5 971	3 349	2 096	1 520	478	127	56	10000
NO HOT PIPED WATER	452	154	174	53	50	12	7	3	-	-	-	4700
WITH HOT PIPED WATER	26 708	2 771	6 266	4 146	5 921	3 337	2 089	1 517	478	127	56	10100
FUEL USED:												
UTILITY GAS	14 691	1 577	3 633	2 309	3 211	1 789	1 131	728	239	50	24	9800
BOTTLED, TANK, OR LP GAS	704	74	176	129	158	80	50	26	8	2	4	9400
FUEL OIL	3 472	314	858	523	702	449	270	222	85	35	15	10300
KEROSENE, ETC	4	1	1	-	2	-	1	-	-	-	-	...
ELECTRICITY	7 654	764	1 559	1 159	1 831	996	618	530	142	40	14	10900
COAL OR COKE	31	7	6	6	4	4	4	-	-	-	-	...
WOOD	6	1	4	-	-	2	-	-	-	-	-	...
SOLAR HEAT	3	-	-	-	-	-	1	-	2	-	-	...
OTHER FUEL	104	28	18	11	11	16	6	12	2	-	-	8700
NONE	38	7	11	8	2	1	8	-	1	-	-	7400
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
UTILITY GAS	18 351	807	2 516	1 733	3 126	2 682	2 551	2 804	1 443	485	204	16900
BOTTLED, TANK, OR LP GAS	3 886	328	762	524	798	558	397	334	125	43	17	12100
FUEL OIL	40	7	6	3	3	8	3	8	-	2	-	15500
KEROSENE, ETC	14	2	3	1	4	2	1	2	1	-	-	...
ELECTRICITY	28 955	862	2 559	2 095	4 446	4 184	4 481	5 499	3 084	1 199	546	20400
COAL OR COKE	16	2	6	2	-	1	2	2	2	-	1	...
WOOD	123	31	39	11	20	9	5	7	2	-	-	6100
OTHER FUEL	12	1	-	2	4	2	3	-	-	-	-	...
NONE	14	3	3	2	2	2	-	2	-	1	-	...
RENTER OCCUPIED	27 160	2 925	6 440	4 199	5 971	3 349	2 096	1 520	478	127	56	10000
UTILITY GAS	14 200	1 633	3 735	2 305	2 951	1 621	1 006	642	221	58	27	9300
BOTTLED, TANK, OR LP GAS	1 260	186	345	226	246	124	73	44	10	3	4	8300
FUEL OIL	24	7	8	2	5	-	2	-	-	-	-	...
KEROSENE, ETC	6	2	3	-	-	-	-	-	-	-	-	...
ELECTRICITY	11 390	1 010	2 259	1 622	2 735	1 583	1 010	834	246	66	25	11500
COAL OR COKE	6	2	2	1	1	2	-	-	-	-	-	...
WOOD	63	33	18	8	2	1	1	1	-	-	-	3000-
OTHER FUEL	16	2	4	2	4	4	-	-	-	-	-	...
NONE	197	50	66	33	28	14	4	-	1	-	-	5900
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[1]	41 336	1 453	4 275	3 205	6 466	5 998	6 232	7 483	4 106	1 461	656	19400
LESS THAN $10	543	84	175	65	94	45	31	30	13	5	2	7600
$10 TO $19	5 049	373	1 164	603	925	619	532	490	246	76	20	12100
$20 TO $29	8 649	389	1 193	834	1 512	1 326	1 264	1 284	624	170	54	16500
$30 TO $39	8 356	211	750	676	1 408	1 287	1 340	1 581	778	238	88	19400
$40 TO $49	5 559	118	340	377	857	892	902	1 148	633	201	90	21100
$50 TO $59	4 431	103	261	255	601	649	723	982	567	197	93	22400
$60 TO $79	4 661	83	211	237	612	685	798	1 052	603	261	121	23200
$80 TO $99	1 849	34	82	79	218	245	340	421	279	97	54	23900
$100 TO $149	1 780	46	69	66	178	218	250	416	290	164	83	26500
$150 OR MORE	433	5	23	12	57	31	53	76	73	52	53	29900
NO ELECTRICITY USED	26	7	7	2	5	1	2	3	1	-	-	...
MEDIAN	37	26	26	31	34	37	39	43	46	52	57	...

[1]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: 1979--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]	26 550	2 855	6 301	4 121	5 834	3 266	2 055	1 482	460	123	54	10000
LESS THAN $10	2 092	280	591	345	467	202	118	67	17	5	2	8500
$10 TO $19	6 421	701	1 702	997	1 385	804	435	273	87	27	9	9400
$20 TO $29	5 173	485	1 124	822	1 162	679	464	315	91	21	10	10700
$30 TO $39	3 209	271	612	471	784	439	300	246	70	11	5	11600
$40 TO $49	1 667	111	237	271	439	254	172	118	40	18	6	12400
$50 TO $59	1 028	57	171	139	223	177	109	104	38	9	1	13300
$60 TO $79	933	46	117	124	244	148	110	96	36	10	3	13700
$80 TO $99	278	19	32	37	58	48	39	37	6	-	2	14400
$100 TO $149	223	8	24	26	55	31	25	33	15	3	4	14900
$150 OR MORE	49	3	12	-	11	7	4	5	2	1	3	14000
INCLUDED IN RENT	5 402	856	1 661	872	996	468	277	187	59	16	10	7600
NO ELECTRICITY USED	74	17	18	17	9	8	2	1	-	-	-	7200
MEDIAN	24	20	20	23	24	25	26	29	31	29	34	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	41 336	1 453	4 275	3 205	6 466	5 998	6 232	7 483	4 106	1 461	656	19400
LESS THAN $10	2 239	134	361	212	389	344	297	275	138	54	36	15300
$10 TO $14	2 770	117	400	252	451	404	371	435	215	81	44	17000
$15 TO $19	2 807	129	377	265	452	370	376	465	257	77	38	17400
$20 TO $24	3 224	156	414	281	482	490	450	501	316	96	38	17800
$25 TO $29	2 965	137	377	267	476	446	419	494	249	78	22	17500
$30 TO $39	5 819	208	541	485	917	885	908	1 047	599	178	53	19300
$40 TO $49	4 293	108	380	254	683	613	715	836	477	159	69	20800
$50 TO $69	4 641	132	379	272	651	589	699	939	604	254	121	22100
$70 TO $99	1 395	36	100	92	184	139	193	306	186	110	48	23800
$100 OR MORE	511	13	44	31	68	49	67	75	79	54	30	23700
NO GAS USED	10 674	285	902	793	1 713	1 668	1 737	2 111	986	320	157	19900
MEDIAN	32	26	26	28	31	31	33	34	36	40	42	...
SPECIFIED RENTER OCCUPIED[1]	26 550	2 855	6 301	4 121	5 834	3 266	2 055	1 482	460	123	54	10000
LESS THAN $10	3 702	339	934	637	788	481	282	171	45	21	4	9700
$10 TO $14	2 266	243	560	363	498	283	161	109	35	9	6	9700
$15 TO $19	1 555	180	355	254	360	158	118	75	36	12	7	9900
$20 TO $24	1 287	135	281	220	281	160	117	58	30	3	1	10100
$25 TO $29	836	90	193	104	208	119	50	52	16	2	2	10700
$30 TO $39	1 420	142	327	220	332	172	105	98	23	-	1	10300
$40 TO $49	839	80	205	118	165	121	83	43	14	5	5	10500
$50 TO $69	820	69	205	116	146	136	82	50	16	-	2	10700
$70 TO $99	269	18	49	27	82	38	20	23	9	2	-	12400
$100 OR MORE	135	20	28	21	32	9	10	8	5	1	1	9800
INCLUDED IN RENT	7 804	1 011	2 039	1 196	1 608	848	556	382	115	34	15	9100
NO GAS USED	5 614	527	1 125	845	1 334	743	471	413	115	34	8	11200
MEDIAN	17	17	16	16	17	17	17	18	19	13	...	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	41 336	1 453	4 275	3 205	6 466	5 998	6 232	7 483	4 106	1 461	656	19400
LESS THAN $100	1 296	48	101	75	142	154	194	311	177	61	33	23300
$100 TO $199	860	40	103	69	137	111	117	142	86	31	23	18600
$200 TO $299	710	32	81	83	132	87	109	104	58	18	4	16500
$300 TO $399	1 034	52	156	101	186	163	150	142	57	19	10	15700
$400 TO $499	1 085	33	156	100	204	166	148	164	74	25	16	16500
$500 TO $599	1 034	28	112	89	183	164	162	180	77	29	10	18200
$600 TO $699	1 071	39	115	72	181	167	165	210	81	28	13	18800
$700 TO $799	761	24	73	64	112	120	140	137	58	14	19	19500
$800 OR MORE	2 129	48	183	119	302	278	287	466	281	114	50	22300
FUELS NOT USED OR FREE	31 358	1 110	3 196	2 433	4 887	4 588	4 760	5 626	3 157	1 122	478	19400
MEDIAN	500	400	463	457	493	515	511	535	529	553	534	...
SPECIFIED RENTER OCCUPIED[1]	26 550	2 855	6 301	4 121	5 834	3 266	2 055	1 482	460	123	54	10000
LESS THAN $100	313	54	82	35	63	36	20	18	4	-	2	8800
$100 TO $199	212	43	46	31	40	17	13	10	7	2	2	8600
$200 TO $299	223	40	64	38	46	16	10	7	1	-	-	7500
$300 TO $399	286	33	81	55	48	38	17	10	1	2	-	8600
$400 TO $499	214	24	40	35	60	29	18	4	4	-	1	10700
$500 TO $599	202	14	45	25	43	34	24	16	1	-	-	12000
$600 TO $699	201	10	32	26	49	27	18	33	5	2	-	13300
$700 TO $799	102	3	22	19	16	20	11	10	2	-	-	12500
$800 OR MORE	360	15	53	64	63	59	49	43	11	2	1	13800
INCLUDED IN RENT	4 957	534	1 294	761	1 015	606	369	254	77	35	13	9600
FUELS NOT USED OR FREE	19 478	2 085	4 541	3 034	4 391	2 383	1 505	1 076	347	79	37	10100
MEDIAN	411	252	349	412	428	506	549	631	521	...	...	...
ALL OCCUPIED HOUSING UNITS	78 572	4 968	12 333	8 571	14 373	10 796	9 539	10 177	5 134	1 857	825	14700
HEATING EQUIPMENT												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
WARM-AIR FURNACE	30 967	861	2 788	2 382	4 936	4 539	4 767	5 794	3 224	1 162	513	20000
HEAT PUMP	1 125	21	36	48	111	151	208	282	170	60	38	24700
STEAM OR HOT WATER	6 787	206	671	461	1 057	952	994	1 264	730	315	137	20200
BUILT-IN ELECTRIC UNITS	3 244	97	269	301	566	541	554	541	235	91	50	18600
FLOOR, WALL, OR PIPELESS FURNACE	3 313	182	620	385	641	499	388	372	156	52	18	13700
ROOM HEATERS WITH FLUE	2 271	262	623	312	436	248	192	131	39	20	7	9400
ROOM HEATERS WITHOUT FLUE	1 700	244	492	228	278	214	116	99	22	6	1	8500
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 769	161	374	230	335	271	195	135	50	15	3	11800
NONE	235	9	21	25	42	32	29	39	30	8	1	18400

[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: 1979--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	27 160	2 925	6 440	4 199	5 971	3 349	2 096	1 520	478	127	56	10000
WARM-AIR FURNACE	9 918	795	1 856	1 504	2 383	1 359	934	747	250	57	33	11700
HEAT PUMP	188	15	30	15	44	30	28	17	6	2	-	13800
STEAM OR HOT WATER	6 892	741	1 815	1 031	1 401	839	560	343	104	42	15	9600
BUILT-IN ELECTRIC UNITS	2 712	312	621	374	608	354	198	172	56	14	3	10400
FLOOR, WALL, OR PIPELESS FURNACE	2 912	268	765	500	671	350	184	131	37	3	1	9500
ROOM HEATERS WITH FLUE	2 045	325	603	348	387	207	105	54	12	4	-	7800
ROOM HEATERS WITHOUT FLUE	1 350	274	424	229	244	110	36	24	5	3	-	6800
FIREPLACES, STOVES, OR PORTABLE HEATERS	809	155	238	138	161	65	33	14	2	-	2	7200
NONE	335	40	87	59	71	34	17	18	6	1	1	9000
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
NO HEATING EQUIPMENT	235	9	21	25	42	32	29	39	30	8	1	18400
WITH HEATING EQUIPMENT	51 176	2 034	5 873	4 347	8 361	7 416	7 413	8 617	4 626	1 721	767	18400
NO THERMOSTAT CONTROL	5 541	614	1 367	723	1 042	723	475	385	140	48	25	10300
WITH THERMOSTAT CONTROL	45 498	1 409	4 494	3 611	7 294	6 683	6 919	8 212	4 469	1 667	739	19400
NOT CLOCK OPERATED	39 467	1 193	3 797	3 134	6 358	5 906	6 050	7 235	3 818	1 388	587	19400
CONSTANT TEMPERATURE SETTING MAINTAINED	14 206	474	1 511	1 164	2 403	2 199	2 205	2 500	1 217	367	165	18500
TEMPERATURE SETTING IS CHANGED	25 055	713	2 268	1 959	3 917	3 669	3 817	4 699	2 579	1 014	420	20000
OCCASIONALLY	6 633	233	658	538	1 066	1 000	1 026	1 168	591	238	115	19100
REGULARLY	18 163	469	1 576	1 382	2 794	2 636	2 770	3 490	1 970	773	303	20400
DON'T KNOW	225	11	30	35	50	30	18	34	15	1	2	13600
NOT REPORTED	34	-	4	4	7	3	4	8	2	2	-	...
NOT REPORTED	206	6	18	11	38	38	27	36	22	7	3	18900
CLOCK OPERATED	6 005	215	694	476	932	775	865	969	648	279	152	19400
NOT REPORTED	26	2	2	1	4	2	5	8	3	-	-	...
NOT REPORTED	137	11	12	14	25	10	19	20	17	6	3	18100
RENTER OCCUPIED	27 160	2 925	6 440	4 199	5 971	3 349	2 096	1 520	478	127	56	10000
NO HEATING EQUIPMENT	335	40	87	59	71	34	17	18	6	1	1	9000
WITH HEATING EQUIPMENT	26 826	2 885	6 352	4 140	5 899	3 315	2 079	1 503	472	126	55	10000
NO THERMOSTAT CONTROL	9 958	1 424	2 984	1 641	1 941	973	519	320	107	33	16	8000
WITH THERMOSTAT CONTROL	16 796	1 448	3 349	2 485	3 948	2 336	1 553	1 181	365	93	39	11400
NOT CLOCK OPERATED	14 821	1 239	2 951	2 169	3 518	2 083	1 374	1 055	316	82	34	11500
CONSTANT TEMPERATURE SETTING MAINTAINED	5 644	503	1 210	898	1 309	748	490	345	98	28	16	10800
TEMPERATURE SETTING IS CHANGED	8 878	701	1 690	1 230	2 128	1 298	860	691	212	52	17	11900
OCCASIONALLY	2 875	258	595	442	625	388	271	217	60	18	2	11100
REGULARLY	5 780	416	1 031	761	1 446	897	577	459	147	32	14	12400
DON'T KNOW	211	25	62	26	54	14	12	11	5	2	2	9100
NOT REPORTED	12	1	1	2	4	-	-	3	-	-	-	...
NOT REPORTED	298	35	51	41	81	36	24	20	6	2	1	11400
CLOCK OPERATED	1 946	202	390	316	425	249	174	126	49	11	5	10800
NOT REPORTED	28	7	7	-	5	4	5	-	-	-	-	...
NOT REPORTED	72	14	20	14	10	5	7	2	-	-	-	7500
ALL OCCUPIED HOUSING UNITS	78 572	4 968	12 333	8 571	14 373	10 796	9 539	10 177	5 134	1 857	825	14700
UNITS OCCUPIED LAST WINTER	66 323	3 948	10 283	6 939	11 688	9 159	8 279	9 030	4 576	1 682	739	15200
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	47 489	1 950	5 643	4 118	7 691	6 823	6 789	7 937	4 244	1 594	700	18200
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	1 552	4 783	3 652	7 081	6 344	6 472	7 675	4 146	1 570	696	18900
NO ADDITIONAL HEAT SOURCE USED	39 942	1 354	4 250	3 239	6 380	5 823	5 941	7 047	3 822	1 453	633	19100
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	3 209	148	426	333	548	416	435	502	256	95	50	16800
NOT REPORTED	820	49	107	79	153	105	95	126	69	22	14	16000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	398	859	466	610	479	318	262	98	25	4	10300
RENTER OCCUPIED	18 833	1 998	4 640	2 821	3 997	2 336	1 489	1 093	332	88	38	10000
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	1 634	4 080	2 525	3 678	2 191	1 420	1 053	322	85	37	10400
NO ADDITIONAL HEAT SOURCE USED	14 181	1 331	3 283	2 079	3 053	1 863	1 246	930	289	72	36	10700
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 392	246	677	389	522	269	153	98	25	12	2	9100
NOT REPORTED	452	57	120	57	103	59	21	26	9	1	-	9600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	364	560	296	320	145	69	40	10	3	1	6900
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	47 489	1 950	5 643	4 118	7 691	6 823	6 789	7 937	4 244	1 594	700	18200
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	1 552	4 783	3 652	7 081	6 344	6 472	7 675	4 146	1 570	696	18900
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	35 271	1 024	3 297	2 715	5 465	5 097	5 380	6 609	3 623	1 424	636	20000
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 939	476	1 390	862	1 488	1 145	996	950	461	123	47	14200
1 ROOM	2 341	107	287	201	398	354	352	362	210	48	22	17500
2 ROOMS	2 060	145	419	247	402	285	217	219	91	25	9	12700
3 ROOMS OR MORE	3 538	224	684	414	688	506	426	369	160	50	16	13200
NOT REPORTED	761	51	96	74	127	102	96	116	63	22	13	16600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	398	859	466	610	479	318	262	98	25	4	10300
RENTER OCCUPIED	18 833	1 998	4 640	2 821	3 997	2 336	1 489	1 093	332	88	38	10000
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	1 634	4 080	2 525	3 678	2 191	1 420	1 053	322	85	37	10400
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	12 647	1 165	2 942	1 816	2 717	1 675	1 105	852	269	72	33	10700
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 912	409	1 017	637	857	459	297	176	43	12	4	9500
1 ROOM	1 380	138	388	232	307	139	98	48	21	6	4	9100
2 ROOMS	1 343	138	362	204	289	176	100	60	13	2	-	9500
3 ROOMS OR MORE	1 189	133	267	202	261	144	99	68	9	5	-	9900
NOT REPORTED	467	61	121	71	104	56	18	25	10	1	-	9200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	364	560	296	320	145	69	40	10	3	1	6900

[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: 1979--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	47 489	1 950	5 643	4 118	7 691	6 823	6 789	7 937	4 244	1 594	700	18200
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	1 552	4 783	3 652	7 081	6 344	6 472	7 675	4 146	1 570	696	18900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	398	859	466	610	479	318	262	98	25	4	10300
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 975	308	712	382	536	420	276	233	83	22	4	10800
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	416	79	120	63	54	37	29	24	9	2	-	7500
NOT REPORTED	128	11	28	21	20	22	13	6	6	1	-	10900
RENTER OCCUPIED	18 833	1 998	4 640	2 821	3 997	2 336	1 489	1 093	332	88	38	10000
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	1 634	4 080	2 525	3 678	2 191	1 420	1 053	322	85	37	10400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	364	560	296	320	145	69	40	10	3	1	6900
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 363	264	415	234	245	104	56	34	7	3	1	7000
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	333	79	117	45	53	24	10	4	2	-	-	6000
NOT REPORTED	111	21	28	17	22	17	3	2	1	-	-	8000
ALL OCCUPIED HOUSING UNITS	78 572	4 968	12 333	8 571	14 373	10 796	9 539	10 177	5 134	1 857	825	14700
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 004	170	395	254	377	303	224	174	80	23	4	12400
WITH SELECTED HEATING EQUIPMENT[2]	49 407	1 873	5 499	4 118	8 026	7 145	7 219	8 482	4 576	1 706	764	18600
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	46 552	1 762	5 310	3 908	7 600	6 697	6 748	7 894	4 316	1 594	723	18500
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 638	87	170	192	383	427	446	553	237	104	38	20700
SOLAR HEATING EQUIPMENT	18	-	1	1	2	2	1	6	1	3	2	...
STOVE, BURNING WOOD OR COAL	1 142	28	56	81	172	209	208	255	97	28	9	20600
FIREPLACE, BURNING WOOD OR COAL	347	11	8	16	34	61	70	94	32	19	3	23200
PORTABLE ELECTRIC HEATER	570	36	68	54	94	77	77	93	37	27	9	17200
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	114	4	21	8	25	16	7	13	12	8	-	14900
OTHER	441	8	16	29	55	64	83	87	61	21	16	22900
NOT REPORTED	36	2	2	3	5	5	7	9	2	1	-	21100
NOT REPORTED	217	24	19	17	43	20	25	35	23	8	2	16300
RENTER OCCUPIED	27 160	2 925	6 440	4 199	5 971	3 349	2 096	1 520	478	127	56	10000
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 144	195	326	197	233	99	50	32	8	1	4	7800
WITH SELECTED HEATING EQUIPMENT[2]	26 017	2 730	6 114	4 001	5 738	3 250	2 046	1 488	470	126	53	10100
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 901	2 608	5 830	3 836	5 496	3 109	1 963	1 431	455	123	49	10200
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	968	93	243	137	224	133	71	49	14	2	3	10300
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	1	-	-	-	...
STOVE, BURNING WOOD OR COAL	125	15	19	20	29	22	9	8	2	1	1	11600
FIREPLACE, BURNING WOOD OR COAL	14	-	-	1	3	1	4	4	1	-	-	...
PORTABLE ELECTRIC HEATER	655	62	183	94	142	81	54	31	7	2	-	9600
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	77	10	21	10	16	14	2	2	-	-	-	9100
OTHER	90	5	22	7	30	14	4	3	2	-	2	11700
NOT REPORTED	16	2	2	5	4	2	1	-	2	-	-	...
NOT REPORTED	147	29	41	29	18	8	12	8	2	-	-	7300
AGE OF HEATING EQUIPMENT												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	677	1 510	794	1 091	765	531	404	141	49	12	10000
WITH SELECTED HEATING EQUIPMENT[3]	45 436	1 366	4 384	3 578	7 311	6 682	6 911	8 252	4 515	1 680	756	19500
LESS THAN 4 YEARS	8 205	182	522	537	1 252	1 240	1 407	1 668	904	343	151	21300
4 TO 9 YEARS	12 102	323	1 110	938	1 985	1 865	1 878	2 209	1 195	428	171	19500
10 TO 19 YEARS	13 514	414	1 325	1 087	2 138	1 933	1 938	2 488	1 391	541	259	19600
20 TO 39 YEARS	8 408	285	1 002	751	1 363	1 189	1 218	1 430	771	261	137	18400
40 YEARS OR MORE	780	35	96	74	140	97	107	111	68	38	14	17400
DON'T KNOW	2 067	94	273	158	376	322	328	299	150	50	17	17100
NOT REPORTED	360	34	55	32	58	36	36	46	36	19	8	15200
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	677	1 510	794	1 091	765	531	404	141	49	12	10000
WITH SELECTED HEATING EQUIPMENT[3]	45 436	1 366	4 384	3 578	7 311	6 682	6 911	8 252	4 515	1 680	756	19500
NO MAINTENANCE OR MODIFICATION	34 612	1 067	3 404	2 781	5 664	5 208	5 259	6 257	3 263	1 190	519	19200
WITH MAINTENANCE OR MODIFICATION	10 447	261	928	765	1 590	1 447	1 607	1 939	1 204	474	233	20700
NOT REPORTED	377	38	52	32	57	27	46	56	49	17	4	16800
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	677	1 510	794	1 091	765	531	404	141	49	12	10000
WITH SELECTED HEATING EQUIPMENT[3]	45 436	1 366	4 384	3 578	7 311	6 682	6 911	8 252	4 515	1 680	756	19500
NO MAINTENANCE CONTRACT	39 228	1 189	3 801	3 111	6 397	5 851	5 986	7 092	3 814	1 387	600	19400
WITH MAINTENANCE CONTRACT	5 790	143	524	426	847	796	879	1 098	652	274	150	20900
NOT REPORTED	419	34	59	41	67	35	46	62	49	20	6	16200

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
NO HOT PIPED WATER	401	113	150	49	53	23	6	2	3	1	-	5300
WITH HOT PIPED WATER	51 009	1 930	5 743	4 322	8 349	7 424	7 436	8 654	4 653	1 729	768	18500
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	49 647	1 855	5 520	4 202	8 140	7 261	7 250	8 447	4 531	1 690	753	18500
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	259	10	21	18	45	23	36	58	31	11	6	21700
NOT REPORTED	1 058	63	195	102	159	136	148	136	84	25	9	15400
NOT REPORTED	1	-	-	1	-	-	-	-	-	-	-	...
RENTER OCCUPIED	27 160	2 925	6 440	4 199	5 971	3 349	2 096	1 520	478	127	56	10000
NO HOT PIPED WATER	452	154	174	53	50	12	7	3	-	-	-	4700
WITH HOT PIPED WATER	26 708	2 771	6 266	4 146	5 921	3 337	2 089	1 517	478	127	56	10100
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 837	2 653	6 021	3 996	5 758	3 249	2 037	1 477	469	121	56	10200
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	98	7	25	13	16	14	13	6	-	3	-	11100
NOT REPORTED	733	104	209	129	144	73	30	34	5	3	1	8200
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
OWNER OCCUPIED	51 411	2 043	5 894	4 372	8 403	7 448	7 443	8 656	4 656	1 729	768	18400
WITH AIR CONDITIONING	30 278	871	2 735	2 313	4 714	4 389	4 739	5 621	3 109	1 204	582	20100
ROOM UNITS	15 400	582	1 873	1 461	2 767	2 429	2 361	2 338	1 074	370	145	17100
1	9 293	423	1 369	1 035	1 797	1 455	1 367	1 189	453	157	49	15100
2	4 376	126	391	334	729	718	741	798	368	128	42	19200
3	1 241	16	86	73	175	196	180	253	176	50	37	22100
4	342	11	21	16	45	46	56	81	45	18	4	23000
5 OR MORE	149	6	7	4	22	15	18	17	32	17	13	27300
CENTRAL SYSTEM	14 877	289	861	852	1 947	1 960	2 379	3 283	2 036	834	437	23200
WITH NO AIR CONDITIONING	21 134	1 172	3 159	2 059	3 688	3 058	2 703	3 035	1 547	526	186	15800
RENTER OCCUPIED	27 160	2 925	6 440	4 199	5 971	3 349	2 096	1 520	478	127	56	10000
WITH AIR CONDITIONING	12 577	891	2 207	1 839	3 073	1 896	1 268	961	314	89	37	12200
ROOM UNITS	7 640	616	1 528	1 140	1 819	1 131	703	490	152	40	22	11500
1	5 901	527	1 288	903	1 431	838	488	307	86	19	13	10800
2	1 440	76	198	205	338	242	171	146	43	14	6	13600
3	244	12	25	30	38	36	40	32	19	7	3	17200
4	36	1	11	2	9	9	-	2	3	-	-	12600
5 OR MORE	19	-	6	-	1	5	3	3	-	-	-	...
CENTRAL SYSTEM	4 936	275	680	699	1 254	765	566	471	162	49	15	13200
WITH NO AIR CONDITIONING	14 584	2 034	4 232	2 359	2 898	1 453	828	559	164	38	19	8300
ALL OCCUPIED HOUSING UNITS	78 572	4 968	12 333	8 571	14 373	10 796	9 539	10 177	5 134	1 857	825	14700
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	57 419	2 879	7 364	5 425	9 912	8 189	7 764	8 798	4 659	1 681	748	16900
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	48 358	1 928	5 420	4 037	7 863	6 991	7 052	8 228	4 475	1 636	727	18500
ALL WINDOWS COVERED	26 929	804	2 521	2 076	4 304	4 021	4 164	5 004	2 656	961	417	19700
SOME WINDOWS COVERED	4 818	235	666	443	858	659	670	678	378	162	70	16600
NO WINDOWS COVERED	16 409	873	2 208	1 505	2 666	2 286	2 203	2 514	1 417	507	231	17100
NOT REPORTED	202	16	26	13	34	25	15	33	25	6	9	17400
RENTER OCCUPIED	9 061	951	1 943	1 388	2 050	1 197	712	570	184	45	20	10600
ALL WINDOWS COVERED	2 782	238	533	392	643	421	256	209	69	16	6	11800
SOME WINDOWS COVERED	1 023	115	180	168	244	144	77	73	15	6	-	11000
NO WINDOWS COVERED	4 839	543	1 123	763	1 076	588	358	263	93	18	14	10000
NOT REPORTED	417	55	108	66	87	43	21	24	8	5	-	9100
STORM DOORS												
OWNER OCCUPIED	48 358	1 928	5 420	4 037	7 863	6 991	7 052	8 228	4 475	1 636	727	18500
ALL DOORS COVERED	25 471	789	2 601	2 056	4 209	3 815	3 923	4 556	2 368	797	356	19000
SOME DOORS COVERED	6 461	289	697	527	1 130	1 019	920	1 034	534	228	83	17900
NO DOORS COVERED	16 223	834	2 098	1 442	2 491	2 134	2 192	2 603	1 547	603	278	17900
NOT REPORTED	203	15	25	12	33	23	16	36	26	8	10	18700
RENTER OCCUPIED	9 061	951	1 943	1 388	2 050	1 197	712	570	184	45	20	10600
ALL DOORS COVERED	2 598	230	481	341	606	396	256	223	42	17	5	12000
SOME DOORS COVERED	924	101	183	159	203	125	75	44	28	1	3	10500
NO DOORS COVERED	5 121	565	1 173	821	1 152	632	360	278	106	22	12	10000
NOT REPORTED	417	55	106	67	87	43	21	24	8	5	-	9100
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	48 358	1 928	5 420	4 037	7 863	6 991	7 052	8 228	4 475	1 636	727	18500
YES	40 273	1 251	3 748	3 070	6 423	6 039	6 169	7 388	4 038	1 489	658	19700
NO	6 207	532	1 366	754	1 101	729	670	608	307	102	38	12000
DON'T KNOW	1 651	127	282	198	303	196	194	190	103	35	23	13600
NOT REPORTED	227	19	25	14	35	28	19	43	26	10	9	18800
RENTER OCCUPIED	9 061	951	1 943	1 388	2 050	1 197	712	570	184	45	20	10600
YES	3 935	308	677	518	940	609	413	327	103	28	12	12500
NO	2 633	360	673	442	551	322	143	109	27	4	2	8900
DON'T KNOW	2 061	224	486	357	469	223	134	108	45	8	6	9700
NOT REPORTED	433	59	107	71	89	43	23	26	9	5	-	9100

[1]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: 1979--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												
OWNER OCCUPIED	48 358	1 928	5 420	4 037	7 863	6 991	7 052	8 228	4 475	1 636	727	18500
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	16 409	873	2 208	1 505	2 666	2 286	2 203	2 514	1 417	507	231	17100
SOME OR ALL WINDOWS COVERED	31 747	1 039	3 187	2 519	5 162	4 680	4 834	5 682	3 034	1 122	488	19200
NONE ADDED OR INSTALLED	27 572	906	2 797	2 222	4 497	4 077	4 160	4 932	2 605	968	407	19100
SOME OR ALL ADDED OR INSTALLED	3 899	118	348	277	612	580	637	708	402	144	74	20100
NOT REPORTED	276	15	42	19	53	23	38	41	26	10	7	16800
NOT REPORTED	202	16	26	13	34	25	15	33	25	6	9	17400
STORM DOORS:												
NO DOORS COVERED	16 223	834	2 098	1 442	2 491	2 134	2 192	2 603	1 547	603	278	17900
SOME OR ALL DOORS COVERED	31 932	1 078	3 297	2 583	5 339	4 834	4 844	5 589	2 903	1 025	439	18800
NONE ADDED OR INSTALLED	28 399	980	2 993	2 366	4 775	4 292	4 258	4 897	2 537	915	386	18600
SOME OR ALL ADDED OR INSTALLED	2 877	70	199	163	454	456	492	586	319	96	42	21000
NOT REPORTED	656	28	105	54	109	87	94	107	47	14	11	16800
NOT REPORTED	203	15	25	12	33	23	16	36	26	8	10	18700
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	6 207	532	1 366	754	1 101	729	670	608	307	102	38	12000
WITH ATTIC OR ROOF INSULATION	40 273	1 251	3 748	3 070	6 423	6 039	6 169	7 388	4 038	1 489	658	19700
NONE ADDED OR INSTALLED	35 723	1 122	3 411	2 799	5 712	5 399	5 403	6 464	3 526	1 289	598	19500
SOME OR ALL ADDED OR INSTALLED	3 912	109	264	226	610	552	675	803	436	180	56	21400
LESS THAN 3 INCHES ADDED	293	5	39	13	47	40	34	54	43	12	5	20400
3 TO 6 INCHES ADDED	1 593	52	87	100	252	243	272	325	184	54	22	21100
6 INCHES OR MORE ADDED	1 451	20	79	84	222	198	276	321	152	72	27	22200
DON'T KNOW	354	24	46	17	56	47	48	51	40	22	1	18500
NOT REPORTED	221	7	13	13	33	23	44	51	16	19	2	22400
NOT REPORTED	639	21	73	45	102	88	90	120	77	21	4	19500
DON'T KNOW	1 651	127	282	198	303	196	194	190	103	35	23	13600
NOT REPORTED	227	19	25	14	35	28	19	43	26	10	9	18800
WALL INSULATION:												
NONE ADDED OR INSTALLED	45 109	1 837	5 216	3 870	7 328	6 540	6 451	7 595	4 088	1 503	682	18300
SOME OR ALL ADDED OR INSTALLED	2 938	72	170	145	488	418	569	575	345	122	33	21500
NOT REPORTED	311	20	35	22	47	33	32	58	42	11	12	19900
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	36 700	1 653	4 688	3 307	6 091	5 220	5 037	5 865	3 116	1 194	529	17500
SOME OR ALL ADDED OR INSTALLED	11 025	249	689	685	1 684	1 696	1 926	2 233	1 264	419	182	21300
DON'T KNOW	405	10	20	31	52	53	67	83	65	15	7	22700
NOT REPORTED	228	16	23	14	36	23	22	47	30	7	9	20200
OTHER INSULATION:												
NONE ADDED OR INSTALLED	45 424	1 834	5 233	3 838	7 384	6 556	6 556	7 659	4 159	1 521	685	18400
SOME OR ALL ADDED OR INSTALLED	2 568	72	148	176	420	393	448	507	268	105	31	20800
NOT REPORTED	366	21	39	23	59	43	49	62	48	10	12	19700
RENTER OCCUPIED	9 061	951	1 943	1 388	2 050	1 197	712	570	184	45	20	10600
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	4 839	543	1 123	763	1 076	588	358	263	93	18	14	10000
SOME OR ALL WINDOWS COVERED	3 805	353	713	560	887	566	333	282	84	22	6	11600
NONE ADDED OR INSTALLED	3 177	298	594	452	714	478	292	251	73	19	6	11700
SOME OR ALL ADDED OR INSTALLED	556	42	105	96	158	76	35	28	11	3	1	11100
NOT REPORTED	72	12	13	11	14	12	7	3	-	-	-	9800
NOT REPORTED	417	55	108	66	87	43	21	24	8	5	-	9100
STORM DOORS:												
NO DOORS COVERED	5 121	565	1 173	821	1 152	632	360	278	106	22	12	10000
SOME OR ALL DOORS COVERED	3 522	331	664	500	810	522	331	267	71	18	8	11600
NONE ADDED OR INSTALLED	3 117	286	588	444	712	470	293	235	64	15	8	11700
SOME OR ALL ADDED OR INSTALLED	285	24	56	38	73	35	30	21	5	3	-	11700
NOT REPORTED	120	20	20	18	25	16	7	11	2	-	-	10300
NOT REPORTED	417	55	106	67	87	43	21	24	8	5	-	9100
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	2 633	360	673	442	551	322	143	109	27	4	2	8900
WITH ATTIC OR ROOF INSULATION	3 935	308	677	518	940	609	413	327	103	28	12	12500
NONE ADDED OR INSTALLED	3 522	275	618	457	845	542	372	290	91	22	9	12400
SOME OR ALL ADDED OR INSTALLED	287	23	38	42	68	45	25	32	6	5	1	12900
LESS THAN 3 INCHES ADDED	14	-	2	1	1	6	1	2	2	-	-	...
3 TO 6 INCHES ADDED	89	6	14	13	21	12	7	10	1	4	-	12500
6 INCHES OR MORE ADDED	77	7	5	12	19	10	10	12	2	1	-	14100
DON'T KNOW	90	9	17	17	20	15	7	5	1	-	1	10800
NOT REPORTED	16	1	1	-	6	2	1	4	1	-	-	...
NOT REPORTED	126	10	21	18	28	21	15	4	6	2	1	12600
DON'T KNOW	2 061	224	486	357	469	223	134	108	45	8	6	9700
NOT REPORTED	433	59	107	71	89	43	23	26	9	5	-	9100
WALL INSULATION:												
NONE ADDED OR INSTALLED	8 268	852	1 771	1 276	1 883	1 095	656	512	171	34	19	10600
SOME OR ALL ADDED OR INSTALLED	215	20	31	27	52	35	17	25	3	5	-	12900
NOT REPORTED	578	79	141	85	115	67	39	33	10	6	1	9400
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	6 910	742	1 521	1 060	1 534	900	541	431	141	25	15	10400
SOME OR ALL ADDED OR INSTALLED	1 044	79	165	142	271	173	106	78	19	8	4	12500
DON'T KNOW	675	69	154	120	152	80	43	32	15	8	1	9900
NOT REPORTED	433	61	103	67	92	45	22	29	9	5	-	9400
OTHER INSULATION:												
NONE ADDED OR INSTALLED	8 211	855	1 765	1 242	1 864	1 091	656	511	172	35	19	10700
SOME OR ALL ADDED OR INSTALLED	282	21	43	54	68	43	24	22	4	2	-	11700
NOT REPORTED	569	75	135	92	117	63	32	36	9	8	1	9400

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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												
OWNER OCCUPIED	48 358	1 928	5 420	4 037	7 863	6 991	7 052	8 228	4 475	1 636	727	18500
NO INSULATION ADDED OR INSTALLED	30 783	1 442	4 074	2 872	5 107	4 362	4 110	4 808	2 578	983	447	17200
WITH INSULATION ADDED OR INSTALLED	16 080	420	1 149	1 046	2 513	2 439	2 764	3 158	1 726	610	256	20900
LESS THAN $50	6 937	208	558	506	1 127	1 097	1 170	1 302	665	211	93	19900
$50 TO $99	1 640	39	105	103	275	259	309	321	165	42	21	20600
$100 TO $199	1 666	27	126	106	247	254	323	317	180	65	20	21100
$200 TO $399	1 687	28	98	92	245	256	295	359	209	79	26	22100
$400 OR MORE	2 726	61	145	143	370	386	474	595	339	148	65	22700
DON'T KNOW	682	32	59	41	113	79	94	129	95	30	11	20900
NOT REPORTED	744	25	58	55	137	108	98	134	73	34	21	19500
MEDIAN	62	50-	50-	50-	51	55	68	72	84	130	95	...
NOT REPORTED OR DON'T KNOW	1 495	66	197	118	243	190	178	263	170	44	25	18200
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 180	49	153	122	201	166	160	182	78	46	24	17000
LESS THAN $50	439	29	86	47	96	59	52	49	13	6	2	13000
$50 TO $99	127	7	13	16	22	5	30	22	10	2	2	20200
$100 TO $199	139	-	17	9	28	29	12	23	11	6	3	17700
$200 TO $399	136	3	11	17	17	23	16	20	16	8	4	19200
$400 OR MORE	219	2	15	20	17	34	36	46	22	21	5	23000
DON'T KNOW	38	3	4	2	6	6	5	8	4	-	-	18200
NOT REPORTED	83	4	7	11	16	11	9	13	1	3	7	16800
MEDIAN	85	50-	50-	73	50-	138	85	139	224	395	...	...
ONLY ADDED OR INSTALLED STORM DOORS	964	30	80	65	152	161	162	193	86	28	8	19800
LESS THAN $50	142	7	19	17	27	27	16	17	8	3	-	15100
$50 TO $99	329	7	26	17	55	55	70	66	26	6	1	20300
$100 TO $199	252	10	13	18	24	41	46	54	30	13	3	22200
$200 TO $399	93	2	8	3	20	13	13	23	9	2	-	20200
$400 OR MORE	54	-	2	5	5	8	11	16	7	-	1	23500
DON'T KNOW	12	-	-	1	5	-	2	3	1	1	-	...
NOT REPORTED	82	4	12	3	17	16	5	14	5	3	3	16700
MEDIAN	94	...	79	87	84	90	94	109	119	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	2 056	66	153	123	323	307	373	380	216	86	28	20800
LESS THAN $50	234	8	32	16	36	38	37	45	15	4	2	18200
$50 TO $99	251	7	20	12	39	40	42	57	26	7	2	20900
$100 TO $199	351	11	22	24	45	66	65	63	39	12	3	20600
$200 TO $399	428	7	27	24	67	59	82	86	48	22	6	21800
$400 OR MORE	466	12	23	25	77	61	93	80	60	23	12	21800
DON'T KNOW	170	12	16	12	28	19	25	30	16	9	3	19500
NOT REPORTED	155	9	12	10	30	24	29	19	13	8	-	18300
MEDIAN	213	166	144	194	237	181	238	199	256	299	...	...
ALL OCCUPIED HOUSING UNITS	78 572	4 968	12 333	8 571	14 373	10 796	9 539	10 177	5 134	1 857	825	14700
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	36 032	501	1 252	1 862	5 572	5 949	6 516	7 786	4 305	1 583	706	22200
DRIVES SELF	26 181	314	782	1 308	4 113	4 385	4 721	5 709	3 132	1 169	546	22300
CARPOOL	6 217	52	192	291	877	1 020	1 269	1 461	756	226	74	22700
MASS TRANSPORTATION	1 211	26	51	71	193	150	178	238	206	61	38	23200
BICYCLE OR MOTORCYCLE	375	4	10	10	59	67	86	95	30	8	4	22100
TAXICAB	12	-	4	2	2	2	2	-	-	-	2	...
WALKS ONLY	780	25	75	73	121	169	106	101	57	42	11	17900
OTHER MEANS	182	3	5	15	28	18	32	31	29	16	5	23600
WORKS AT HOME	953	71	122	85	163	119	110	124	83	53	23	16500
NOT REPORTED	122	6	11	9	17	20	12	27	11	8	2	19600
RENTER OCCUPIED	18 073	700	2 460	3 094	5 004	2 935	1 898	1 403	413	114	52	12800
DRIVES SELF	10 948	305	1 166	1 787	3 142	1 930	1 298	944	276	64	35	13500
CARPOOL	3 023	122	433	500	852	485	329	217	62	17	6	12700
MASS TRANSPORTATION	1 935	99	384	364	513	259	144	109	38	16	8	11200
BICYCLE OR MOTORCYCLE	309	11	65	60	72	59	20	12	9	-	-	11300
TAXICAB	62	7	11	20	10	5	-	3	-	5	-	8900
WALKS ONLY	1 337	114	305	285	318	154	74	68	11	7	1	9600
OTHER MEANS	74	8	13	11	17	9	6	6	1	2	1	11500
WORKS AT HOME	308	24	71	56	60	23	22	38	10	3	1	10200
NOT REPORTED	78	10	13	10	19	10	4	5	7	-	-	11600
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	36 032	501	1 252	1 862	5 572	5 949	6 516	7 786	4 305	1 583	706	22200
LESS THAN 1 MILE	2 284	51	152	209	429	429	364	342	168	104	36	18500
1 TO 4 MILES	7 434	110	336	470	1 259	1 217	1 407	1 491	764	259	123	21200
5 TO 9 MILES	6 848	62	191	336	1 082	1 211	1 237	1 523	784	271	151	22200
10 TO 19 MILES	7 776	55	158	368	1 118	1 336	1 471	1 834	1 001	312	124	22900
20 TO 29 MILES	3 098	27	65	97	469	477	569	778	420	132	63	23600
30 TO 49 MILES	1 897	11	31	60	237	290	425	440	259	109	34	23800
50 MILES OR MORE	547	7	8	17	87	83	111	131	71	24	8	23200
WORKS AT HOME	953	71	122	85	163	119	110	124	83	53	23	16500
NO FIXED PLACE OF WORK	4 578	86	154	183	624	681	745	992	682	293	137	23800
NOT REPORTED	617	20	33	38	105	106	77	131	73	26	8	20500
MEDIAN	8.8	5.0	4.8	6.5	8.0	8.6	9.1	9.7	10.2	9.5	8.6	...
RENTER OCCUPIED	18 073	700	2 460	3 094	5 004	2 935	1 898	1 403	413	114	52	12800
LESS THAN 1 MILE	2 092	142	412	441	552	266	149	100	20	7	4	10500
1 TO 4 MILES	4 789	213	721	886	1 388	777	409	274	86	23	12	12100
5 TO 9 MILES	3 666	107	480	608	1 054	613	424	274	73	27	6	13000
10 TO 19 MILES	3 360	79	339	561	916	611	412	320	91	17	14	13800
20 TO 29 MILES	1 031	36	75	127	323	183	150	94	32	10	2	14300
30 TO 49 MILES	509	12	43	67	147	98	68	56	11	5	1	14500
50 MILES OR MORE	155	3	15	15	41	27	25	26	1	2	-	15600
WORKS AT HOME	308	24	71	56	60	23	22	38	10	3	1	10200
NO FIXED PLACE OF WORK	1 738	68	224	243	431	285	211	164	68	15	9	13900
NOT REPORTED	425	15	80	89	91	54	29	37	21	5	3	11600
MEDIAN	6.3	3.9	4.5	5.2	6.3	7.0	8.1	8.6	8.5	7.7	8.3	...

[1]LIMITED TO HEADS 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: 1979--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												
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	36 032	501	1 252	1 862	5 572	5 949	6 516	7 786	4 305	1 583	706	22200
LESS THAN 15 MINUTES	10 520	168	429	665	1 736	1 823	1 908	2 108	1 052	423	209	21200
15 TO 29 MINUTES	11 114	89	328	576	1 716	1 927	2 139	2 492	1 258	409	179	22200
30 TO 44 MINUTES	5 000	39	122	192	752	814	904	1 197	687	203	89	23200
45 TO 59 MINUTES	1 831	17	31	64	253	292	370	427	264	86	26	23500
1 HOUR TO 1 HOUR AND 29 MINUTES	1 297	12	36	58	190	186	230	301	176	74	33	23600
1 HOUR AND 30 MINUTES OR MORE	398	5	9	13	83	61	69	76	56	22	3	22000
WORKS AT HOME	953	71	122	85	163	119	110	124	83	53	23	16500
NO FIXED PLACE OF WORK	4 578	86	154	183	624	681	745	992	682	293	137	23800
NOT REPORTED	342	15	19	27	54	46	40	68	47	19	6	21200
MEDIAN	21.1	15.0-	17.2	18.0	20.5	20.6	21.3	22.1	23.2	21.8	20.1	...
RENTER OCCUPIED	18 073	700	2 460	3 094	5 004	2 935	1 898	1 403	413	114	52	12800
LESS THAN 15 MINUTES	6 209	289	901	1 149	1 757	987	609	382	97	25	13	12200
15 TO 29 MINUTES	5 676	177	729	1 000	1 587	963	606	437	126	37	13	12900
30 TO 44 MINUTES	2 360	76	301	374	655	382	275	201	83	23	9	13300
45 TO 59 MINUTES	807	28	97	113	249	138	85	77	11	5	5	13300
1 HOUR TO 1 HOUR AND 29 MINUTES	614	28	77	91	191	110	56	54	5	1	2	12900
1 HOUR AND 30 MINUTES OR MORE	195	4	39	34	40	33	20	18	6	2	-	12600
WORKS AT HOME	308	24	71	56	60	23	22	38	10	3	1	10200
NO FIXED PLACE OF WORK	1 738	68	224	243	431	285	211	184	68	15	9	13900
NOT REPORTED	145	5	20	34	33	16	13	12	8	5	-	12100
MEDIAN	19.5	16.0	18.5	18.4	19.5	19.9	20.3	21.9	22.9	23.6	24.1	...

[1]LIMITED TO HEADS 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: 1979

(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]	41 336	1 072	2 963	5 112	6 855	6 566	4 937	5 671	4 572	3 136	452	47100
HOUSE HEATING FUEL												
UTILITY GAS	25 172	614	1 796	3 173	4 053	3 776	2 915	3 449	3 017	2 063	316	47800
BOTTLED, TANK, OR LP GAS	1 567	160	282	303	266	202	117	101	72	58	7	31500
FUEL OIL	7 486	127	544	957	1 370	1 358	931	1 044	679	422	55	45500
KEROSENE, ETC	166	24	44	38	33	9	6	5	1	5	-	23900
ELECTRICITY	6 143	46	162	502	1 020	1 131	921	1 028	764	501	67	52300
COAL OR COKE	159	27	35	40	24	17	4	6	5	2	-	24400
WOOD	452	68	79	86	69	58	36	29	18	9	1	29200
SOLAR HEAT	2	-	-	-	-	-	-	-	-	2	-	...
OTHER FUEL	8	2	-	4	1	1	-	1	-	-	-	...
NONE	181	4	21	10	20	13	8	8	17	74	6	84500
WATER HEATING FUEL												
NO HOT PIPED WATER	252	134	63	31	16	2	1	3	1	1	-	10000-
WITH HOT PIPED WATER	41 083	937	2 899	5 081	6 839	6 565	4 936	5 668	4 571	3 135	452	47300
FUEL USED:												
UTILITY GAS	23 992	527	1 661	2 886	3 815	3 657	2 819	3 364	2 957	1 996	310	48500
BOTTLED, TANK, OR LP GAS	1 271	96	232	234	231	158	94	108	67	46	6	33200
FUEL OIL	2 715	8	63	193	416	551	433	497	296	219	39	52900
KEROSENE, ETC	10	-	2	2	1	2	1	1	1	-	-	...
ELECTRICITY	13 018	298	939	1 758	2 368	2 186	1 577	1 692	1 246	859	94	45200
COAL OR COKE	17	3	2	3	2	3	2	-	2	-	-	...
WOOD	16	2	-	2	2	2	4	2	1	2	-	...
SOLAR HEAT	35	-	2	-	2	6	6	2	2	13	2	73700
OTHER FUEL	7	1	-	1	3	1	-	2	-	-	-	...
NONE	4	1	-	1	2	-	-	-	-	-	-	...
NOT REPORTED	1	1	-	-	-	-	-	-	-	-	-	...
COOKING FUEL												
UTILITY GAS	15 221	524	1 501	2 317	2 664	2 302	1 625	1 793	1 462	893	140	42600
BOTTLED, TANK, OR LP GAS	1 955	209	368	389	347	244	134	137	84	41	3	30300
FUEL OIL	34	2	1	2	10	4	2	7	2	3	-	...
KEROSENE, ETC	8	1	1	1	2	1	2	-	2	-	-	...
ELECTRICITY	24 033	309	1 077	2 389	3 825	4 005	3 170	3 731	3 020	2 198	309	51300
COAL OR COKE	14	4	2	3	-	5	-	-	-	-	-	...
WOOD	56	23	10	8	6	4	2	2	2	1	-	15600
OTHER FUEL	5	1	-	1	1	1	1	1	-	-	-	...
NONE	11	1	3	3	-	2	2	1	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	543	69	70	89	68	75	44	54	46	24	3	36300
$10 TO $19	5 049	315	615	845	918	622	448	536	431	285	35	38200
$20 TO $29	8 649	301	848	1 303	1 526	1 360	994	1 017	780	455	65	42500
$30 TO $39	8 356	166	650	1 113	1 478	1 407	1 034	1 082	860	512	54	45500
$40 TO $49	5 559	89	315	645	958	963	713	820	652	369	37	48000
$50 TO $59	4 431	59	209	424	736	741	557	681	583	387	53	50800
$60 TO $79	4 661	44	166	423	723	804	642	780	535	489	55	52600
$80 TO $99	1 849	11	44	166	240	323	245	288	298	210	25	55800
$100 TO $149	1 780	5	33	82	187	228	221	356	298	297	72	65600
$150 OR MORE	433	4	7	19	18	43	36	55	88	110	54	85000
NO ELECTRICITY USED	26	9	4	2	3	1	3	2	2	-	-	...
MEDIAN	37	24	28	33	36	38	39	42	42	47	56	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	2 239	89	211	306	383	310	251	310	217	143	21	44200
$10 TO $14	2 770	89	231	336	388	381	282	389	344	291	38	49000
$15 TO $19	2 807	127	245	375	422	355	268	335	374	269	37	46600
$20 TO $24	3 224	106	280	490	566	430	320	417	320	247	48	43900
$25 TO $29	2 965	102	269	490	548	483	302	349	268	124	28	41500
$30 TO $39	5 819	150	482	776	1 107	1 003	765	696	503	286	53	43900
$40 TO $49	4 293	92	292	555	703	708	566	610	492	250	26	47100
$50 TO $69	4 641	101	313	479	696	689	568	699	614	424	56	50700
$70 TO $99	1 395	29	80	142	197	193	150	190	200	195	20	53800
$100 OR MORE	511	8	48	50	39	56	43	60	71	100	37	63100
NO GAS USED	10 674	178	511	1 114	1 807	1 959	1 422	1 618	1 168	807	89	48800
MEDIAN	32	26	29	30	32	33	34	33	33	33	32	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	1 296	43	66	78	120	176	176	252	228	143	14	59300
$100 TO $199	860	47	69	107	115	113	80	117	119	80	14	48200
$200 TO $299	710	44	88	125	110	104	66	79	57	34	3	38800
$300 TO $399	1 034	33	122	184	232	168	102	114	57	23	-	37700
$400 TO $499	1 085	28	115	161	204	180	131	134	79	44	10	41900
$500 TO $599	1 034	36	89	143	196	193	120	126	77	46	9	42800
$600 TO $699	1 071	23	65	118	223	226	141	128	99	44	4	44700
$700 TO $799	761	7	31	79	123	145	107	136	86	45	3	49800
$800 OR MORE	2 129	15	81	177	325	358	307	373	245	222	24	53500
FUELS NOT USED OR FREE	31 358	795	2 237	3 941	5 207	4 905	3 707	4 214	3 524	2 457	372	47100
MEDIAN	500	313	415	456	521	547	550	526	479	537	496	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	25 342	243	1 197	2 738	4 261	4 346	3 238	3 703	3 135	2 164	317	49700
HEAT PUMP	957	3	8	30	78	136	142	198	187	157	19	66200
STEAM OR HOT WATER	5 284	39	216	439	858	948	775	876	646	428	59	51800
BUILT-IN ELECTRIC UNITS	2 463	22	85	287	536	455	340	382	217	119	22	46600
FLOOR, WALL, OR PIPELESS FURNACE	2 909	80	384	650	474	322	232	325	284	145	12	37200
ROOM HEATERS WITH FLUE	1 683	236	462	419	247	124	66	74	26	24	4	23400
ROOM HEATERS WITHOUT FLUE	1 383	295	386	322	187	80	56	26	19	2	8	20300
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 133	150	204	217	195	141	80	79	40	24	4	29800
NONE	181	4	21	10	20	13	8	8	17	74	6	84500

[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: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	181	4	21	10	20	13	8	8	17	74	6	84500
WITH HEATING EQUIPMENT	41 155	1 068	2 942	5 103	6 835	6 553	4 929	5 663	4 554	3 062	446	47100
NO THERMOSTAT CONTROL	3 979	598	884	853	625	389	211	200	131	68	20	25900
WITH THERMOSTAT CONTROL	37 061	463	2 048	4 237	6 188	6 147	4 707	5 445	4 416	2 988	422	49100
NOT CLOCK OPERATED	32 218	381	1 751	3 648	5 400	5 467	4 189	4 759	3 817	2 508	298	49000
CONSTANT TEMPERATURE SETTING MAINTAINED	11 627	166	709	1 438	2 120	2 068	1 503	1 569	1 237	731	87	46700
TEMPERATURE SETTING IS CHANGED	20 423	214	1 032	2 191	3 245	3 376	2 666	3 171	2 565	1 756	206	50600
OCCASIONALLY	5 427	69	312	640	957	896	732	731	626	423	41	48200
REGULARLY	14 793	143	702	1 510	2 253	2 441	1 913	2 414	1 928	1 326	163	51800
DON'T KNOW	170	2	17	37	29	31	14	22	12	5	2	40200
NOT REPORTED	32	-	1	4	7	8	7	4	-	2	-	...
NOT REPORTED	168	1	10	20	34	24	19	19	15	21	5	48100
CLOCK OPERATED	4 824	81	294	586	788	676	514	684	598	478	124	49800
NOT REPORTED	19	1	3	3	-	3	3	2	-	2	1	...
NOT REPORTED	115	6	9	12	23	17	12	18	8	7	3	43800
SPECIFIED OWNER OCCUPIED[1]	41 336	1 072	2 963	5 112	6 855	6 566	4 937	5 671	4 572	3 136	452	47100
UNITS OCCUPIED LAST WINTER	38 302	1 017	2 837	4 847	6 419	6 124	4 532	5 145	4 173	2 811	397	46600
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	35 737	584	2 254	4 327	6 041	5 904	4 396	5 037	4 098	2 717	379	47900
NO ADDITIONAL HEAT SOURCE USED	32 514	468	1 960	3 872	5 516	5 402	4 035	4 643	3 805	2 469	345	48200
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 573	98	250	342	414	406	287	316	239	193	28	44500
NOT REPORTED	649	18	44	114	111	95	74	78	55	54	6	43900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 565	434	583	520	377	220	136	107	75	94	18	25100
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[3]	35 737	584	2 254	4 327	6 041	5 904	4 396	5 037	4 098	2 717	379	47900
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	28 603	253	1 273	2 875	4 748	4 997	3 775	4 380	3 576	2 387	339	50400
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 530	313	938	1 349	1 192	817	555	585	467	280	36	35600
1 ROOM	1 921	60	204	306	356	309	211	202	163	95	15	41100
2 ROOMS	1 682	122	270	354	309	188	122	146	87	78	6	33100
3 ROOMS OR MORE	2 928	131	464	689	527	320	222	238	217	106	15	33400
NOT REPORTED	604	18	43	104	101	91	66	72	55	50	4	44000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 565	434	583	520	377	220	136	107	75	94	18	25100
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[3]	35 737	584	2 254	4 327	6 041	5 904	4 396	5 037	4 098	2 717	379	47900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 565	434	583	520	377	220	136	107	75	94	18	25100
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 166	336	486	450	331	186	120	91	68	81	17	25800
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	304	88	74	50	29	20	13	13	2	13	2	18700
NOT REPORTED	96	10	23	20	17	14	3	3	5	-	-	27400
SPECIFIED OWNER OCCUPIED[1]	41 336	1 072	2 963	5 112	6 855	6 566	4 937	5 671	4 572	3 136	452	47100
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 315	154	225	227	214	155	88	88	57	98	10	32400
WITH SELECTED HEATING EQUIPMENT[3]	40 022	918	2 738	4 886	6 641	6 412	4 849	5 583	4 514	3 039	442	47500
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	37 747	863	2 580	4 649	6 282	6 030	4 561	5 237	4 259	2 863	423	47500
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 107	50	138	218	328	346	273	335	244	163	12	49200
SOLAR HEATING EQUIPMENT	12	-	-	1	-	1	3	1	3	4	-	...
STOVE, BURNING WOOD OR COAL	884	14	53	101	141	164	130	141	91	48	2	48200
FIREPLACE, BURNING WOOD OR COAL	292	1	9	17	45	45	37	57	50	29	1	57700
PORTABLE ELECTRIC HEATER	451	23	48	57	73	67	56	52	35	36	5	43800
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	95	5	13	18	19	13	8	6	8	6	-	36400
OTHER	364	8	17	25	47	54	39	73	56	41	4	57900
NOT REPORTED	30	-	-	1	7	3	3	10	4	2	-	...
NOT REPORTED	167	6	20	18	31	35	15	12	11	13	7	42500
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	685	1 074	968	648	359	210	187	103	124	23	24500
WITH SELECTED HEATING EQUIPMENT[4]	36 956	387	1 889	4 144	6 207	6 208	4 727	5 484	4 469	3 012	429	49400
LESS THAN 4 YEARS	6 606	54	218	552	938	990	904	1 147	980	722	102	56100
4 TO 9 YEARS	9 079	111	509	1 026	1 489	1 521	1 125	1 298	1 152	767	82	49200
10 TO 19 YEARS	11 254	132	629	1 335	1 863	1 858	1 414	1 691	1 338	879	116	49000
20 TO 39 YEARS	7 470	51	323	821	1 412	1 423	995	1 068	792	497	89	47900
40 YEARS OR MORE	639	5	41	64	105	98	87	90	69	60	18	50600
DON'T KNOW	1 655	26	149	315	358	276	178	161	119	63	10	39400
NOT REPORTED	252	8	20	33	43	42	24	28	20	23	12	45400
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	685	1 074	968	648	359	210	187	103	124	23	24500
WITH SELECTED HEATING EQUIPMENT[4]	36 956	387	1 889	4 144	6 207	6 208	4 727	5 484	4 469	3 012	429	49400
NO MAINTENANCE OR MODIFICATION	28 199	291	1 487	3 297	4 828	4 738	3 555	4 055	3 406	2 234	308	48900
WITH MAINTENANCE OR MODIFICATION	8 513	92	387	822	1 333	1 430	1 142	1 398	1 046	750	115	51700
NOT REPORTED	243	4	15	25	45	40	31	31	17	28	6	47900

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

TABLE A-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	685	1 074	968	648	359	210	187	103	124	23	24500
WITH SELECTED HEATING EQUIPMENT[2]	36 956	387	1 869	4 144	6 207	6 208	4 727	5 484	4 469	3 012	429	49400
NO MAINTENANCE CONTRACT	31 968	341	1 692	3 746	5 424	5 300	4 038	4 664	3 857	2 554	351	49000
WITH MAINTENANCE CONTRACT	4 732	41	179	368	739	868	663	784	594	428	69	52600
NOT REPORTED	256	5	18	30	43	40	27	36	18	30	9	48000
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	252	134	63	31	16	2	1	3	1	1	-	10000-
WITH HOT PIPED WATER	41 083	937	2 899	5 081	6 839	6 565	4 936	5 668	4 571	3 135	452	47300
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	39 982	876	2 795	4 941	6 661	6 390	4 814	5 528	4 491	3 050	435	47400
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	222	4	11	15	35	33	28	35	21	29	11	54700
NOT REPORTED	841	55	92	125	139	136	88	103	56	43	4	40700
NOT REPORTED	1	1	-	-	-	-	-	-	-	-	-	...
AIR CONDITIONING												
WITH AIR CONDITIONING	24 638	349	1 382	2 769	4 172	4 091	3 160	3 656	2 829	1 949	282	48900
ROOM UNITS	12 303	300	1 189	2 140	2 672	1 994	1 353	1 351	821	430	53	39400
1	7 228	243	832	1 333	1 595	1 096	760	724	408	210	27	37600
2	3 628	46	274	675	824	617	408	407	253	114	11	40000
3	1 027	9	72	102	192	212	133	137	105	54	10	46500
4	296	2	10	25	44	58	44	53	27	31	2	52000
5 OR MORE	124	-	2	4	18	10	8	29	28	21	3	70100
CENTRAL SYSTEM	12 335	50	193	629	1 499	2 096	1 806	2 305	2 008	1 519	229	59400
WITH NO AIR CONDITIONING	16 698	723	1 581	2 343	2 683	2 476	1 777	2 015	1 743	1 188	170	44100
SPECIFIED OWNER OCCUPIED[1]	41 336	1 072	2 963	5 112	6 855	6 566	4 937	5 671	4 572	3 136	452	47100
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	41 336	1 072	2 963	5 112	6 855	6 566	4 937	5 671	4 572	3 136	452	47100
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	23 168	348	1 352	2 659	4 153	4 086	3 010	3 481	2 495	1 415	169	47500
SOME WINDOWS COVERED	4 096	154	448	640	763	602	434	422	315	277	41	40700
NO WINDOWS COVERED	13 914	566	1 151	1 800	1 918	1 853	1 471	1 754	1 749	1 421	232	48200
NOT REPORTED	157	5	12	13	21	25	23	14	13	22	10	51400
STORM DOORS												
ALL DOORS COVERED	22 398	351	1 487	2 941	4 396	4 050	2 873	3 099	2 078	1 018	104	45000
SOME DOORS COVERED	5 261	177	487	766	842	827	608	668	517	332	37	44300
NO DOORS COVERED	13 519	539	977	1 394	1 594	1 664	1 433	1 891	1 964	1 764	300	54100
NOT REPORTED	158	5	12	11	23	26	23	14	13	22	10	51200
ATTIC OR ROOF INSULATION												
YES	34 622	478	1 846	3 899	5 834	5 851	4 412	5 115	4 120	2 695	373	49000
NO	5 248	536	950	973	762	522	361	436	337	320	51	32200
DON'T KNOW	1 283	52	151	226	235	167	135	102	100	97	18	39000
NOT REPORTED	183	6	17	15	24	26	28	19	15	24	10	51500
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	13 914	566	1 151	1 800	1 918	1 853	1 471	1 754	1 749	1 421	232	48200
SOME OR ALL WINDOWS COVERED	27 264	502	1 800	3 299	4 916	4 688	3 444	3 903	2 810	1 693	210	46600
NONE ADDED OR INSTALLED	23 655	402	1 513	2 867	4 258	4 123	3 034	3 405	2 442	1 443	168	46800
SOME OR ALL ADDED OR INSTALLED	3 373	94	270	407	609	543	379	466	342	224	40	45700
NOT REPORTED	236	5	17	25	50	22	30	32	26	26	2	49600
NOT REPORTED	157	5	12	13	21	25	23	14	13	22	10	51400
STORM DOORS:												
NO DOORS COVERED	13 519	539	977	1 394	1 594	1 664	1 433	1 891	1 964	1 764	300	54100
SOME OR ALL DOORS COVERED	27 660	528	1 974	3 707	5 238	4 877	3 482	3 767	2 595	1 350	142	44900
NONE ADDED OR INSTALLED	24 537	458	1 787	3 288	4 666	4 361	3 044	3 338	2 307	1 172	116	44700
SOME OR ALL ADDED OR INSTALLED	2 576	60	140	348	446	448	365	357	242	149	21	46600
NOT REPORTED	546	10	47	71	126	68	73	71	46	30	4	42700
NOT REPORTED	158	5	12	11	23	26	23	14	13	22	10	51200
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	5 248	536	950	973	762	522	361	436	337	320	51	32200
WITH ATTIC OR ROOF INSULATION	34 622	478	1 846	3 899	5 834	5 851	4 412	5 115	4 120	2 695	373	49000
NONE ADDED OR INSTALLED	30 633	402	1 609	3 448	5 207	5 213	3 863	4 499	3 679	2 396	317	48900
SOME OR ALL ADDED OR INSTALLED	3 474	68	190	394	526	567	490	539	387	263	50	49900
LESS THAN 3 INCHES ADDED	232	6	22	24	29	43	32	37	23	14	2	48400
3 TO 6 INCHES ADDED	1 444	38	87	183	233	238	201	215	128	96	24	47600
6 INCHES OR MORE ADDED	1 296	10	54	137	194	226	183	208	164	103	18	51500
DON'T KNOW	310	9	24	30	38	40	46	37	48	35	4	53300
NOT REPORTED	193	6	3	19	33	21	28	42	24	15	2	55200
NOT REPORTED	515	7	47	57	101	71	60	77	54	36	6	46300
DON'T KNOW	1 283	52	151	226	235	167	135	102	100	97	18	39000
NOT REPORTED	183	6	17	15	24	26	28	19	15	24	10	51500
WALL INSULATION:												
NONE ADDED OR INSTALLED	38 501	1 005	2 767	4 798	6 394	6 152	4 560	5 266	4 251	2 903	404	47000
SOME OR ALL ADDED OR INSTALLED	2 580	62	180	297	416	373	340	376	300	202	34	49000
NOT REPORTED	255	5	16	16	45	41	37	29	21	31	14	51100
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	31 077	917	2 392	4 017	5 127	4 775	3 521	4 148	3 426	2 401	354	46500
SOME OR ALL ADDED OR INSTALLED	9 717	148	543	1 052	1 636	1 710	1 341	1 447	1 081	675	82	48600
DON'T KNOW	360	3	14	29	67	54	50	54	48	35	5	52500
NOT REPORTED	182	3	15	14	25	27	24	22	17	25	10	53100
OTHER INSULATION:												
NONE ADDED OR INSTALLED	39 010	1 041	2 815	4 880	6 501	6 231	4 632	5 298	4 277	2 915	418	46800
SOME OR ALL ADDED OR INSTALLED	2 017	24	129	206	302	293	265	327	264	184	23	52100
NOT REPORTED	310	7	19	26	52	42	41	46	31	37	10	52400

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]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: 1979--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												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	25 992	775	1 974	3 373	4 229	4 002	2 877	3 426	2 926	2 106	304	46600
WITH INSULATION ADDED OR INSTALLED	14 119	276	899	1 602	2 383	2 403	1 900	2 083	1 522	928	123	47900
LESS THAN $50	5 966	126	427	674	1 032	1 050	824	860	633	318	22	46900
$50 TO $99	1 451	41	99	199	254	267	186	166	134	104	2	44900
$100 TO $199	1 450	31	89	184	226	246	207	220	161	76	9	47900
$200 TO $399	1 536	23	107	157	249	277	223	250	142	91	17	48400
$400 OR MORE	2 439	29	110	236	422	373	326	391	295	214	43	51500
DON'T KNOW	616	11	26	70	100	80	73	92	85	62	16	52800
NOT REPORTED	661	15	41	82	99	110	62	104	71	63	13	48500
MEDIAN	65	50-	50-	63	61	60	66	75	68	90	360	...
NOT REPORTED OR DON'T KNOW	1 225	21	89	138	244	161	160	162	124	101	25	47500
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	974	43	115	133	181	141	88	121	89	54	8	41100
LESS THAN $50	316	29	59	58	55	37	22	25	20	10	-	32100
$50 TO $99	114	4	13	12	26	27	12	4	11	5	-	40700
$100 TO $199	117	2	8	20	22	19	9	11	14	8	3	43300
$200 TO $399	122	4	12	15	23	16	15	23	9	3	2	43800
$400 OR MORE	199	2	10	14	44	30	21	38	23	14	3	49700
DON'T KNOW	30	-	5	2	2	4	4	10	-	3	-	...
NOT REPORTED	76	2	7	11	8	8	5	10	13	11	-	52000
MEDIAN	104	50-	50-	55	118	101	159	293	156	158	...	...
ONLY ADDED OR INSTALLED STORM DOORS	859	17	68	118	149	151	124	122	78	31	3	45200
LESS THAN $50	123	3	18	27	31	11	11	12	8	2	-	34200
$50 TO $99	296	9	18	48	56	58	39	42	15	10	-	42800
$100 TO $199	225	2	10	23	28	40	44	39	30	6	2	51900
$200 TO $399	85	-	8	6	15	16	16	11	11	2	-	48000
$400 OR MORE	47	-	2	3	9	11	10	7	2	3	-	48400
DON'T KNOW	10	-	1	1	3	2	3	-	2	-	-	...
NOT REPORTED	73	2	10	9	7	13	2	11	9	8	2	46400
MEDIAN	94	...	78	77	84	98	122	101	134	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	1 803	40	125	207	279	270	246	289	205	122	21	49300
LESS THAN $50	196	13	24	24	27	28	29	27	11	11	2	43600
$50 TO $99	218	7	15	29	31	20	36	34	27	16	2	51700
$100 TO $199	311	7	23	45	50	59	33	48	38	10	-	45300
$200 TO $399	389	4	25	33	52	59	63	72	50	23	6	53200
$400 OR MORE	409	3	25	34	63	70	52	71	54	30	6	51600
DON'T KNOW	154	3	7	23	35	17	16	17	14	19	4	45500
NOT REPORTED	127	3	7	18	21	16	17	19	11	14	2	49300
MEDIAN	218	...	174	165	214	238	228	248	255	268	...	...

[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: 1979

(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]	26 550	2 360	3 216	5 155	5 353	4 059	2 265	1 236	1 063	555	1 287	217
HOUSE HEATING FUEL												
UTILITY GAS	14 364	1 292	2 048	3 069	2 817	1 981	1 141	580	562	297	576	208
BOTTLED, TANK, OR LP GAS	768	86	151	163	116	56	14	17	7	3	155	171
FUEL OIL	5 428	345	568	1 114	1 178	918	448	304	172	113	268	223
KEROSENE, ETC	124	19	31	25	22	6	3	-	-	2	16	157
ELECTRICITY	5 093	439	285	644	1 115	1 058	633	315	292	122	190	248
COAL OR COKE	102	25	23	24	9	4	-	2	-	-	16	140
WOOD	260	97	46	28	20	7	7	1	1	3	49	109
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	80	15	8	20	15	5	-	2	5	7	4	186
NONE	331	42	56	68	60	23	18	15	25	9	13	194
WATER HEATING FUEL												
NO HOT PIPED WATER	366	215	65	13	1	-	-	-	-	-	73	100-
WITH HOT PIPED WATER	26 183	2 145	3 152	5 142	5 352	4 059	2 265	1 236	1 063	555	1 214	219
FUEL USED:												
UTILITY GAS	14 623	1 253	1 989	3 040	2 908	2 117	1 240	653	590	307	527	213
BOTTLED, TANK, OR LP GAS	574	60	117	119	94	38	15	11	5	7	109	173
FUEL OIL	3 458	222	333	661	766	670	298	206	124	90	89	230
KEROSENE, ETC	4	-	2	-	-	-	-	-	-	-	2	...
ELECTRICITY	7 346	579	688	1 285	1 561	1 205	702	363	336	146	479	228
COAL OR COKE	31	5	10	9	2	2	2	-	-	-	2	...
WOOD	4	2	-	1	1	-	-	-	-	-	1	...
SOLAR HEAT	3	-	-	-	-	3	-	-	-	-	-	...
OTHER FUEL	104	23	12	17	17	15	4	2	6	5	5	194
NONE	36	2	2	10	4	9	5	2	2	-	1	243
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	14 144	1 285	2 059	3 145	2 877	2 006	1 101	562	434	229	447	206
BOTTLED, TANK, OR LP GAS	1 073	142	211	207	170	73	34	14	13	12	197	170
FUEL OIL	23	4	10	3	1	2	2	-	-	-	2	...
KEROSENE, ETC	5	3	-	-	-	-	-	-	-	-	1	...
ELECTRICITY	11 047	807	869	1 771	2 293	1 976	1 127	660	617	310	618	238
COAL OR COKE	6	-	3	-	-	1	2	-	-	-	1	...
WOOD	44	27	2	1	1	-	-	-	-	-	13	...
OTHER FUEL	15	2	2	5	-	-	-	-	-	3	3	...
NONE	192	90	61	22	11	2	-	-	-	2	5	103
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	2 092	278	319	506	458	288	99	50	40	8	47	191
$10 TO $19	6 421	547	914	1 477	1 362	981	474	191	186	87	202	206
$20 TO $29	5 173	224	610	1 045	1 235	848	469	235	207	87	214	224
$30 TO $39	3 209	75	306	556	736	568	364	208	146	72	177	238
$40 TO $49	1 667	29	108	232	386	345	212	139	95	49	74	256
$50 TO $59	1 028	16	51	127	206	221	129	92	76	34	76	267
$60 TO $79	933	4	29	61	150	218	173	103	82	56	56	294
$80 TO $99	278	2	8	16	28	42	64	21	49	26	21	324
$100 TO $149	223	-	3	2	10	20	41	25	57	49	16	405
$150 OR MORE	49	-	-	-	2	-	2	8	9	28	1	500+
INCLUDED IN RENT	5 402	1 162	860	1 123	768	526	239	159	116	56	393	171
NO ELECTRICITY USED	74	23	8	12	11	2	-	5	-	3	10	155
MEDIAN	24	15	18	20	23	25	28	33	32	38	28	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	3 702	252	428	849	825	602	288	165	136	56	102	216
$10 TO $14	2 266	151	315	462	498	334	184	86	88	74	75	217
$15 TO $19	1 555	109	236	325	302	212	124	66	70	42	69	212
$20 TO $24	1 287	97	234	257	239	134	86	70	70	36	63	205
$25 TO $29	836	39	135	177	181	105	73	27	28	10	62	210
$30 TO $39	1 420	44	251	301	311	144	145	51	51	28	94	211
$40 TO $49	839	21	114	209	175	108	64	41	31	22	52	214
$50 TO $69	820	3	57	177	196	143	61	32	48	38	65	235
$70 TO $99	269	-	6	42	75	55	34	16	16	11	14	254
$100 OR MORE	135	-	-	4	11	31	31	18	13	15	13	324
INCLUDED IN RENT	7 804	1 125	1 024	1 499	1 362	1 189	556	327	227	91	405	202
NO GAS USED	5 614	519	416	854	1 178	1 002	620	334	287	130	273	237
MEDIAN	17	13	17	16	16	14	17	17	18	19	24	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	313	49	35	44	44	36	36	22	14	4	30	217
$100 TO $199	212	42	32	32	23	20	6	15	9	7	26	179
$200 TO $299	223	38	52	38	35	11	6	5	4	2	32	157
$300 TO $399	286	19	43	65	62	32	12	5	9	1	36	196
$400 TO $499	214	6	20	57	46	28	16	4	13	3	22	214
$500 TO $599	202	5	15	49	45	36	13	16	10	2	12	228
$600 TO $699	201	2	13	23	41	35	30	7	12	12	26	262
$700 TO $799	102	-	2	17	32	18	16	6	1	1	9	243
$800 OR MORE	360	-	4	29	50	81	49	48	33	27	40	297
INCLUDED IN RENT	4 957	459	637	992	1 024	842	396	215	158	81	153	215
FUELS NOT USED OR FREE	19 478	1 740	2 362	3 809	3 951	2 920	1 685	892	801	416	902	217
MEDIAN	411	174	278	396	455	559	609	579	535	686	378	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	9 719	481	715	1 561	2 100	1 731	1 056	580	622	330	543	243
HEAT PUMP	186	9	14	8	25	49	23	21	12	10	17	280
STEAM OR HOT WATER	6 866	570	768	1 461	1 509	1 211	558	332	176	109	172	218
BUILT-IN ELECTRIC UNITS	2 685	328	191	459	594	453	284	143	116	40	78	227
FLOOR, WALL, OR PIPELESS FURNACE	2 873	195	398	631	622	412	252	125	90	46	102	213
ROOM HEATERS WITH FLUE	1 956	260	548	571	266	99	34	13	15	7	143	158
ROOM HEATERS WITHOUT FLUE	1 274	294	383	278	120	51	23	4	6	2	113	137
FIREPLACES, STOVES, OR PORTABLE HEATERS	660	181	144	119	56	30	16	4	2	3	106	133
NONE	331	42	56	68	60	23	18	15	25	9	13	194

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

TABLE A-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	331	42	56	68	60	23	18	15	25	9	13	194
WITH HEATING EQUIPMENT	26 219	2 318	3 160	5 087	5 292	4 036	2 247	1 220	1 038	546	1 274	218
NO THERMOSTAT CONTROL	9 675	1 308	1 838	2 372	1 715	1 025	499	243	150	97	427	181
WITH THERMOSTAT CONTROL	16 477	1 005	1 307	2 699	3 571	3 005	1 744	975	885	447	840	239
NOT CLOCK OPERATED	14 531	880	1 130	2 407	3 179	2 665	1 516	880	773	361	741	238
CONSTANT TEMPERATURE SETTING MAINTAINED	5 529	369	490	973	1 159	1 013	596	301	246	97	285	233
TEMPERATURE SETTING IS CHANGED	8 704	499	628	1 408	1 940	1 593	880	560	503	249	444	240
OCCASIONALLY	2 826	153	211	494	627	503	293	180	152	68	145	238
REGULARLY	5 659	333	398	883	1 266	1 054	566	366	333	173	287	241
DON'T KNOW	208	13	17	28	46	36	21	14	14	9	11	244
NOT REPORTED	11	1	2	2	2	-	-	-	4	-	1	...
NOT REPORTED	298	11	12	26	80	59	41	20	24	15	12	262
CLOCK OPERATED	1 918	124	171	283	385	336	228	95	112	86	99	242
NOT REPORTED	28	2	7	10	7	4	-	-	-	-	-	...
NOT REPORTED	67	5	16	16	6	6	3	2	3	2	7	179
SPECIFIED RENTER OCCUPIED[1]	26 550	2 360	3 216	5 155	5 353	4 059	2 265	1 236	1 063	555	1 287	217
UNITS OCCUPIED LAST WINTER	18 340	1 976	2 490	3 634	3 552	2 590	1 404	737	607	297	1 053	207
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	16 716	1 547	2 063	3 338	3 412	2 533	1 371	719	586	286	861	214
NO ADDITIONAL HEAT SOURCE USED	13 922	1 333	1 614	2 724	2 838	2 161	1 182	613	488	247	723	216
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 353	180	376	530	501	318	155	85	66	31	110	203
NOT REPORTED	442	34	74	84	72	54	34	21	32	8	28	210
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 623	429	427	296	140	57	33	18	20	10	192	133
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	16 716	1 547	2 063	3 338	3 412	2 533	1 371	719	586	286	861	214
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	12 482	1 190	1 241	2 280	2 634	2 066	1 137	603	474	248	610	223
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 779	319	749	969	704	411	197	95	80	30	222	186
1 ROOM	1 354	114	259	366	274	168	68	23	26	5	50	187
2 ROOMS	1 304	108	276	316	255	133	77	39	17	11	73	186
3 ROOMS OR MORE	1 121	97	214	288	176	110	52	33	37	14	99	184
NOT REPORTED	456	37	73	90	74	56	37	21	32	8	29	209
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 623	429	427	296	140	57	33	18	20	10	192	133
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	16 716	1 547	2 063	3 338	3 412	2 533	1 371	719	586	286	861	214
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 623	429	427	296	140	57	33	18	20	10	192	133
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 223	335	339	210	93	36	19	18	17	9	146	129
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	297	77	72	55	36	11	5	1	3	-	37	136
NOT REPORTED	104	17	17	31	11	10	8	-	-	2	9	172
SPECIFIED RENTER OCCUPIED[1]	26 550	2 360	3 216	5 155	5 353	4 059	2 265	1 236	1 063	555	1 287	217
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	991	223	200	187	116	52	35	19	27	12	119	153
WITH SELECTED HEATING EQUIPMENT[3]	25 559	2 137	3 016	4 968	5 236	4 006	2 230	1 216	1 037	543	1 168	219
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 479	2 051	2 855	4 701	5 026	3 853	2 162	1 184	1 009	528	1 110	220
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	937	67	141	238	178	140	52	31	25	13	52	198
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	1	-
STOVE, BURNING WOOD OR COAL	110	7	13	24	19	16	9	2	2	-	18	205
FIREPLACE, BURNING WOOD OR COAL	12	-	1	-	-	2	4	-	3	-	2	...
PORTABLE ELECTRIC HEATER	648	41	95	170	140	105	32	20	14	13	18	203
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	73	16	14	15	9	6	2	2	2	-	8	159
OTHER	88	4	18	20	11	13	3	6	5	-	8	194
NOT REPORTED	16	-	-	8	3	2	2	-	2	-	-	...
NOT REPORTED	143	19	21	29	31	14	16	1	3	2	6	198
AIR CONDITIONING												
WITH AIR CONDITIONING	12 378	583	951	1 894	2 706	2 476	1 441	777	623	345	582	245
ROOM UNITS	7 483	420	824	1 505	1 654	1 313	705	349	218	112	383	224
1	5 792	385	717	1 233	1 344	994	465	206	119	62	269	216
2	1 402	30	87	244	284	281	200	110	78	17	71	254
3	236	5	17	25	22	31	34	27	19	25	32	304
4	35	-	2	3	5	5	5	5	2	3	5	...
5 OR MORE	19	-	2	-	-	2	2	2	-	5	7	...
CENTRAL SYSTEM	4 894	163	127	390	1 051	1 163	736	428	405	233	199	276
WITH NO AIR CONDITIONING	14 172	1 777	2 265	3 261	2 647	1 583	824	459	441	210	705	190

[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: 1979--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]	26 550	2 360	3 216	5 155	5 353	4 059	2 265	1 236	1 063	555	1 287	217
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 450	709	1 184	1 526	1 320	894	641	383	489	339	966	212
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	2 538	115	273	437	425	295	210	130	158	104	392	229
SOME WINDOWS COVERED	931	45	110	180	185	121	71	54	21	32	113	220
NO WINDOWS COVERED	4 569	485	748	829	648	427	318	186	288	197	443	200
NOT REPORTED	411	65	52	80	63	50	41	13	22	7	18	199
STORM DOORS												
ALL DOORS COVERED	2 358	100	255	409	395	300	207	119	117	74	382	228
SOME DOORS COVERED	859	40	125	171	159	99	58	36	43	28	100	213
NO DOORS COVERED	4 822	504	753	864	703	444	337	215	307	231	465	204
NOT REPORTED	411	65	51	81	64	50	40	13	22	7	19	199
ATTIC OR ROOF INSULATION												
YES	3 624	163	406	549	586	373	308	214	265	185	575	234
NO	2 403	346	458	482	315	217	122	62	83	49	270	177
DON'T KNOW	1 997	132	267	410	354	254	170	93	119	99	100	219
NOT REPORTED	427	69	53	85	66	50	41	15	22	7	20	197

[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: 1979

(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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	78 572	53 809	9 725	3 541	2 909	4 977	3 610
HOUSE HEATING FUEL							
OWNER OCCUPIED	51 411	45 418	2 250	245	105	453	2 940
UTILITY GAS	28 845	26 199	1 351	117	28	98	1 051
BOTTLED, TANK, OR LP GAS	3 180	2 423	14	-	2	-	741
FUEL OIL	9 732	8 493	611	30	19	127	452
KEROSENE, ETC	282	195	4	-	-	-	82
ELECTRICITY	8 105	6 932	251	92	56	200	574
COAL OR COKE	239	236	4	-	-	-	-
WOOD	774	735	7	3	-	-	29
SOLAR HEAT	4	4	-	-	-	-	-
OTHER FUEL	15	14	-	-	-	2	-
NONE	235	188	9	2	-	26	10
RENTER OCCUPIED	27 160	8 390	7 475	3 296	2 804	4 524	671
UTILITY GAS	14 478	4 949	4 597	1 662	1 391	1 633	247
BOTTLED, TANK, OR LP GAS	954	679	86	7	2	6	173
FUEL OIL	5 562	1 189	1 565	615	476	1 602	115
KEROSENE, ETC	131	84	19	6	2	2	19
ELECTRICITY	5 139	943	1 109	949	894	1 146	100
COAL OR COKE	119	80	23	5	2	9	-
WOOD	361	323	23	6	2	-	6
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	81	2	-	13	7	59	-
NONE	335	142	54	33	28	67	11
WATER HEATING FUEL							
OWNER OCCUPIED	51 411	45 418	2 250	245	105	453	2 940
NO HOT PIPED WATER	401	373	3	-	-	-	25
WITH HOT PIPED WATER	51 009	45 045	2 247	245	105	453	2 914
FUEL USED:							
UTILITY GAS	27 261	24 728	1 496	122	34	111	771
BOTTLED, TANK, OR LP GAS	2 425	1 963	18	-	2	1	441
FUEL OIL	3 437	2 908	342	28	13	126	19
KEROSENE, ETC	13	11	-	-	-	-	2
ELECTRICITY	17 752	15 326	390	93	56	210	1 677
COAL OR COKE	26	25	-	-	-	-	1
WOOD	33	32	1	-	-	-	-
SOLAR HEAT	37	37	-	-	-	-	-
OTHER FUEL	16	10	-	2	-	3	1
NONE	8	4	-	-	-	2	2
NOT REPORTED	1	1	-	-	-	-	-
RENTER OCCUPIED	27 160	8 390	7 475	3 296	2 804	4 524	671
NO HOT PIPED WATER	452	368	23	11	26	12	12
WITH HOT PIPED WATER	26 708	8 022	7 452	3 285	2 778	4 512	658
FUEL USED:							
UTILITY GAS	14 691	4 549	4 892	1 812	1 491	1 776	170
BOTTLED, TANK, OR LP GAS	704	511	69	10	4	16	93
FUEL OIL	3 472	289	884	468	369	1 455	7
KEROSENE, ETC	4	2	-	-	-	-	2
ELECTRICITY	7 654	2 641	1 586	968	889	1 184	386
COAL OR COKE	31	5	2	1	5	18	-
WOOD	6	6	-	-	-	-	-
SOLAR HEAT	3	2	-	-	1	-	-
OTHER FUEL	104	9	14	14	14	54	-
NONE	38	8	5	11	4	9	1
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	51 411	45 418	2 250	245	105	453	2 940
UTILITY GAS	18 351	15 707	1 381	101	23	178	962
BOTTLED, TANK, OR LP GAS	3 886	2 771	35	-	2	-	1 077
FUEL OIL	40	38	1	-	-	-	2
KEROSENE, ETC	14	12	2	-	-	-	1
ELECTRICITY	28 955	26 733	831	144	80	275	893
COAL OR COKE	16	16	-	-	-	-	-
WOOD	123	123	-	-	-	-	-
OTHER FUEL	12	8	-	-	-	-	4
NONE	14	11	1	-	-	-	2
RENTER OCCUPIED	27 160	8 390	7 475	3 296	2 804	4 524	671
UTILITY GAS	14 200	3 734	4 629	1 790	1 346	2 464	237
BOTTLED, TANK, OR LP GAS	1 260	795	159	23	5	6	273
FUEL OIL	24	9	4	5	-	5	1
KEROSENE, ETC	6	4	2	-	-	-	-
ELECTRICITY	11 390	3 764	2 653	1 451	1 418	1 945	159
COAL OR COKE	6	2	2	2	-	-	-
WOOD	63	60	3	-	-	-	1
OTHER FUEL	16	4	3	-	-	8	-
NONE	197	19	20	26	36	96	-

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1979--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	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]	41 336	41 336	NA	NA	NA	NA	NA
LESS THAN $10	543	543	NA	NA	NA	NA	NA
$10 TO $19	5 049	5 049	NA	NA	NA	NA	NA
$20 TO $29	8 649	8 649	NA	NA	NA	NA	NA
$30 TO $39	8 356	8 356	NA	NA	NA	NA	NA
$40 TO $49	5 559	5 559	NA	NA	NA	NA	NA
$50 TO $59	4 431	4 431	NA	NA	NA	NA	NA
$60 TO $79	4 661	4 661	NA	NA	NA	NA	NA
$80 TO $99	1 849	1 849	NA	NA	NA	NA	NA
$100 TO $149	1 780	1 780	NA	NA	NA	NA	NA
$150 OR MORE	433	433	NA	NA	NA	NA	NA
NO ELECTRICITY USED	26	26	NA	NA	NA	NA	NA
MEDIAN	37	37	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	26 550	7 780	7 475	3 296	2 804	4 524	671
LESS THAN $10	2 092	345	693	339	325	369	21
$10 TO $19	6 421	1 754	2 115	797	727	917	112
$20 TO $29	5 173	1 800	1 569	522	435	697	150
$30 TO $39	3 209	1 311	849	337	280	346	86
$40 TO $49	1 667	661	418	187	167	184	50
$50 TO $59	1 028	459	219	121	85	83	61
$60 TO $79	933	416	222	104	71	72	47
$80 TO $99	278	132	49	36	15	26	20
$100 TO $149	223	130	38	24	12	16	3
$150 OR MORE	49	27	12	-	3	7	-
INCLUDED IN RENT	5 402	725	1 274	817	678	1 787	121
NO ELECTRICITY USED	74	21	17	11	6	18	1
MEDIAN	24	27	22	22	20	21	29
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	41 336	41 336	NA	NA	NA	NA	NA
LESS THAN $10	2 239	2 239	NA	NA	NA	NA	NA
$10 TO $14	2 770	2 770	NA	NA	NA	NA	NA
$15 TO $19	2 807	2 807	NA	NA	NA	NA	NA
$20 TO $24	3 224	3 224	NA	NA	NA	NA	NA
$25 TO $29	2 965	2 965	NA	NA	NA	NA	NA
$30 TO $39	5 819	5 819	NA	NA	NA	NA	NA
$40 TO $49	4 293	4 293	NA	NA	NA	NA	NA
$50 TO $69	4 641	4 641	NA	NA	NA	NA	NA
$70 TO $99	1 395	1 395	NA	NA	NA	NA	NA
$100 OR MORE	511	511	NA	NA	NA	NA	NA
NO GAS USED	10 674	10 674	NA	NA	NA	NA	NA
MEDIAN	32	32	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	26 550	7 780	7 475	3 296	2 804	4 524	671
LESS THAN $10	3 702	792	1 208	524	434	630	115
$10 TO $14	2 266	791	771	243	156	225	80
$15 TO $19	1 555	652	536	135	70	111	51
$20 TO $24	1 287	700	388	85	36	33	46
$25 TO $29	836	400	308	41	35	28	24
$30 TO $39	1 420	774	472	63	26	32	53
$40 TO $49	839	483	283	39	12	8	14
$50 TO $69	820	471	281	35	9	6	19
$70 TO $99	269	161	88	9	2	-	9
$100 OR MORE	135	84	35	5	-	2	10
INCLUDED IN RENT	7 804	962	1 833	1 290	1 211	2 357	152
NO GAS USED	5 614	1 510	1 273	827	814	1 092	98
MEDIAN	17	22	17	11	10-	10-	16
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	41 336	41 336	NA	NA	NA	NA	NA
LESS THAN $100	1 296	1 296	NA	NA	NA	NA	NA
$100 TO $199	860	860	NA	NA	NA	NA	NA
$200 TO $299	710	710	NA	NA	NA	NA	NA
$300 TO $399	1 034	1 034	NA	NA	NA	NA	NA
$400 TO $499	1 085	1 085	NA	NA	NA	NA	NA
$500 TO $599	1 034	1 034	NA	NA	NA	NA	NA
$600 TO $699	1 071	1 071	NA	NA	NA	NA	NA
$700 TO $799	761	761	NA	NA	NA	NA	NA
$800 OR MORE	2 129	2 129	NA	NA	NA	NA	NA
FUELS NOT USED OR FREE	31 358	31 358	NA	NA	NA	NA	NA
MEDIAN	500	500	NA	NA	NA	NA	NA

[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: 1979--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	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.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	26 550	7 780	7 475	3 296	2 804	4 524	671
LESS THAN $100	313	194	64	23	10	18	5
$100 TO $199	212	148	23	4	1	6	29
$200 TO $299	223	139	48	3	-	-	33
$300 TO $399	286	184	64	6	1	2	29
$400 TO $499	214	154	42	4	-	-	14
$500 TO $599	202	140	51	3	-	-	8
$600 TO $699	201	144	49	3	-	-	5
$700 TO $799	102	54	41	2	-	-	5
$800 OR MORE	360	231	125	3	-	-	1
INCLUDED IN RENT	4 957	476	1 503	667	598	1 669	44
FUELS NOT USED OR FREE	19 478	5 915	5 465	2 577	2 193	2 830	498
MEDIAN	411	418	524	168	...	...	292
ALL OCCUPIED HOUSING UNITS	78 572	53 809	9 725	3 541	2 909	4 977	3 610
HEATING EQUIPMENT							
OWNER OCCUPIED	51 411	45 418	2 250	245	105	453	2 940
WARM-AIR FURNACE	30 967	27 205	929	131	40	158	2 505
HEAT PUMP	1 125	1 063	16	5	7	19	15
STEAM OR HOT WATER	6 787	5 654	886	48	25	165	10
BUILT-IN ELECTRIC UNITS	3 244	2 839	130	42	31	86	117
FLOOR, WALL, OR PIPELESS FURNACE	3 313	3 102	98	7	2	-	104
ROOM HEATERS WITH FLUE	2 271	2 071	129	3	-	-	67
ROOM HEATERS WITHOUT FLUE	1 700	1 627	32	4	-	-	38
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 769	1 669	21	3	-	-	75
NONE	235	188	9	2	-	26	10
RENTER OCCUPIED	27 160	8 390	7 475	3 296	2 804	4 524	671
WARM-AIR FURNACE	9 918	3 259	2 692	1 209	1 096	1 129	531
HEAT PUMP	188	56	32	27	33	40	1
STEAM OR HOT WATER	6 892	577	2 094	1 012	861	2 347	2
BUILT-IN ELECTRIC UNITS	2 712	497	625	446	443	675	25
FLOOR, WALL, OR PIPELESS FURNACE	2 912	1 258	821	327	242	222	43
ROOM HEATERS WITH FLUE	2 045	1 027	715	184	69	30	20
ROOM HEATERS WITHOUT FLUE	1 350	934	333	33	25	13	12
FIREPLACES, STOVES, OR PORTABLE HEATERS	809	640	110	26	7	2	25
NONE	335	142	54	33	28	67	11
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	51 411	45 418	2 250	245	105	453	2 940
NO HEATING EQUIPMENT	235	188	9	2	-	26	10
WITH HEATING EQUIPMENT	51 176	45 230	2 241	243	105	427	2 929
NO THERMOSTAT CONTROL	5 541	4 946	238	20	12	170	154
WITH THERMOSTAT CONTROL	45 498	40 157	1 998	223	93	255	2 772
NOT CLOCK OPERATED	39 467	34 991	1 602	179	80	215	2 401
CONSTANT TEMPERATURE SETTING MAINTAINED	14 206	12 576	637	52	23	77	840
TEMPERATURE SETTING IS CHANGED	25 055	22 240	955	123	57	136	1 543
OCCASIONALLY	6 633	5 889	253	43	26	48	373
REGULARLY	18 163	16 132	691	79	27	85	1 148
DON'T KNOW	225	185	11	2	3	4	21
NOT REPORTED	34	33	-	-	-	-	1
NOT REPORTED	206	174	10	3	-	2	17
CLOCK OPERATED	6 005	5 147	395	42	12	38	372
NOT REPORTED	26	19	2	2	2	2	-
NOT REPORTED	137	127	6	-	-	2	3
RENTER OCCUPIED	27 160	8 390	7 475	3 296	2 804	4 524	671
NO HEATING EQUIPMENT	335	142	54	33	28	67	11
WITH HEATING EQUIPMENT	26 826	8 249	7 421	3 263	2 776	4 457	659
NO THERMOSTAT CONTROL	9 958	2 780	2 781	1 154	842	2 333	67
WITH THERMOSTAT CONTROL	16 796	5 439	4 624	2 101	1 926	2 114	591
NOT CLOCK OPERATED	14 821	4 793	4 117	1 830	1 708	1 854	520
CONSTANT TEMPERATURE SETTING MAINTAINED	5 644	1 786	1 548	698	650	729	234
TEMPERATURE SETTING IS CHANGED	8 878	2 928	2 498	1 082	1 008	1 083	280
OCCASIONALLY	2 875	825	820	376	365	402	87
REGULARLY	5 780	2 014	1 615	690	632	644	186
DON'T KNOW	211	85	58	16	11	36	5
NOT REPORTED	12	4	4	-	-	2	2
NOT REPORTED	298	78	71	50	51	41	7
CLOCK OPERATED	1 946	646	501	266	214	249	70
NOT REPORTED	28	1	7	5	3	11	2
NOT REPORTED	72	30	16	8	8	10	1

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	78 572	53 809	9 725	3 541	2 909	4 977	3 610
UNITS OCCUPIED LAST WINTER	66 323	48 163	7 430	2 365	1 904	3 627	2 834
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	47 489	42 192	2 087	211	87	412	2 501
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	38 875	2 030	202	87	391	2 387
NO ADDITIONAL HEAT SOURCE USED	39 942	35 288	1 859	185	78	343	2 188
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	3 209	2 859	140	16	7	37	149
NOT REPORTED	820	727	32	-	1	11	49
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	3 318	57	9	-	21	114
RENTER OCCUPIED	18 833	5 971	5 343	2 154	1 817	3 215	334
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	4 681	4 991	2 099	1 781	3 166	308
NO ADDITIONAL HEAT SOURCE USED	14 181	3 826	4 197	1 777	1 531	2 603	248
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 392	707	689	282	197	473	45
NOT REPORTED	452	148	105	40	53	90	15
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	1 289	352	55	36	50	25
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	47 489	42 192	2 087	211	87	412	2 501
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	38 875	2 030	202	87	391	2 387
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	35 271	30 737	1 649	183	79	364	2 259
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 939	7 460	354	17	7	19	81
1 ROOM	2 341	2 120	154	11	3	7	46
2 ROOMS	2 060	1 923	97	1	3	7	28
3 ROOMS OR MORE	3 538	3 417	103	5	-	5	7
NOT REPORTED	761	677	27	2	1	8	46
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	3 318	57	9	-	21	114
RENTER OCCUPIED	18 833	5 971	5 343	2 154	1 817	3 215	334
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	4 681	4 991	2 099	1 781	3 166	308
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	12 647	2 748	3 596	1 660	1 529	2 836	278
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 912	1 781	1 281	393	203	238	16
1 ROOM	1 380	417	487	187	113	167	8
2 ROOMS	1 343	587	473	151	71	56	5
3 ROOMS OR MORE	1 189	776	321	54	19	15	3
NOT REPORTED	467	152	114	45	49	91	15
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	1 289	352	55	36	50	25
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	47 489	42 192	2 087	211	87	412	2 501
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	38 875	2 030	202	87	391	2 387
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	3 318	57	9	-	21	114
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 975	2 810	46	5	-	21	91
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	416	388	7	3	-	-	18
NOT REPORTED	128	120	4	-	-	-	5
RENTER OCCUPIED	18 833	5 971	5 343	2 154	1 817	3 215	334
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	4 681	4 991	2 099	1 781	3 166	308
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	1 289	352	55	36	50	25
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 363	975	265	39	29	36	19
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	333	253	54	10	2	10	5
NOT REPORTED	111	61	34	7	5	3	2

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	78 572	53 809	9 725	3 541	2 909	4 977	3 610
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	51 411	45 418	2 250	245	105	453	2 940
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 004	1 858	30	5	-	26	85
WITH SELECTED HEATING EQUIPMENT[1]	49 407	43 561	2 220	240	105	427	2 855
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	46 552	40 947	2 139	233	95	413	2 724
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 638	2 419	69	7	9	12	122
SOLAR HEATING EQUIPMENT	18	15	2	-	-	-	1
STOVE, BURNING WOOD OR COAL	1 142	1 076	22	1	-	-	44
FIREPLACE, BURNING WOOD OR COAL	347	327	9	-	2	-	10
PORTABLE ELECTRIC HEATER	570	484	14	6	2	12	51
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	114	104	2	-	-	-	9
OTHER	441	413	19	-	3	-	6
NOT REPORTED	36	30	2	-	2	-	3
NOT REPORTED	217	195	12	-	1	2	8
RENTER OCCUPIED	27 160	8 390	7 475	3 296	2 804	4 524	671
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 144	782	164	59	35	68	36
WITH SELECTED HEATING EQUIPMENT[1]	26 017	7 609	7 311	3 237	2 769	4 456	634
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 901	7 217	7 008	3 107	2 709	4 247	612
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	968	350	263	110	43	184	19
SOLAR HEATING EQUIPMENT	1	1	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	125	81	28	7	4	3	2
FIREPLACE, BURNING WOOD OR COAL	14	12	2	-	-	-	-
PORTABLE ELECTRIC HEATER	655	167	184	92	35	161	16
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	77	47	17	4	2	5	2
OTHER	90	43	28	8	4	7	-
NOT REPORTED	16	5	4	-	-	7	-
NOT REPORTED	147	41	40	20	17	25	3
AIR CONDITIONING							
OWNER OCCUPIED	51 411	45 418	2 250	245	105	453	2 940
WITH AIR CONDITIONING	30 278	26 616	1 240	175	83	379	1 784
ROOM UNITS	15 400	13 360	903	53	36	149	900
1	9 293	7 916	521	36	29	61	730
2	4 376	3 876	283	10	3	51	152
3	1 241	1 116	75	7	3	26	13
4	342	319	15	-	-	7	1
5 OR MORE	149	132	9	-	-	4	4
CENTRAL SYSTEM	14 877	13 256	337	122	48	230	884
WITH NO AIR CONDITIONING	21 134	18 803	1 010	69	22	74	1 156
RENTER OCCUPIED	27 160	8 390	7 475	3 296	2 804	4 524	671
WITH AIR CONDITIONING	12 577	3 286	2 928	1 708	1 776	2 522	355
ROOM UNITS	7 640	2 294	2 078	798	837	1 402	231
1	5 901	1 653	1 658	673	693	1 030	195
2	1 440	513	354	102	123	311	36
3	244	100	54	18	18	55	-
4	36	17	6	5	2	7	-
5 OR MORE	19	11	7	-	2	-	-
CENTRAL SYSTEM	4 936	993	850	910	939	1 120	124
WITH NO AIR CONDITIONING	14 584	5 104	4 547	1 588	1 028	2 002	315

[1]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: 1979

(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	78 572	1 070	2 150	7 595	15 176	18 881	16 385	17 314	5.2
HOUSE HEATING FUEL									
OWNER OCCUPIED	51 411	92	333	1 189	6 367	13 694	13 861	15 875	5.8
UTILITY GAS	28 845	41	132	479	3 248	7 750	8 149	9 046	5.8
BOTTLED, TANK, OR LP GAS	3 180	20	58	198	691	982	675	555	5.1
FUEL OIL	9 732	7	56	188	1 075	2 261	2 626	3 519	6.0
KEROSENE, ETC	282	1	3	16	87	86	52	37	4.9
ELECTRICITY	8 105	16	47	234	1 042	2 263	2 059	2 444	5.7
COAL OR COKE	239	1	3	5	36	56	68	70	5.8
WOOD	774	4	21	51	148	218	177	154	5.2
SOLAR HEAT	4	-	-	-	-	-	2	1	...
OTHER FUEL	15	-	2	-	2	1	4	7	...
NONE	235	3	11	17	38	77	48	41	5.1
RENTER OCCUPIED	27 160	978	1 817	6 406	8 809	5 187	2 525	1 439	4.0
UTILITY GAS	14 478	382	883	3 279	4 734	3 026	1 448	727	4.1
BOTTLED, TANK, OR LP GAS	954	13	27	118	314	233	143	107	4.5
FUEL OIL	5 562	257	379	1 422	1 601	977	550	378	3.9
KEROSENE, ETC	131	1	4	16	42	34	26	9	4.6
ELECTRICITY	5 139	222	438	1 410	1 880	749	275	165	3.8
COAL OR COKE	119	5	4	21	31	31	13	15	4.5
WOOD	361	19	18	51	114	81	47	32	4.3
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	81	30	11	21	13	6	-	1	2.5
NONE	335	50	54	69	82	50	23	6	3.4
WATER HEATING FUEL									
OWNER OCCUPIED	51 411	92	333	1 189	6 367	13 694	13 861	15 875	5.8
NO HOT PIPED WATER	401	11	26	59	125	83	62	36	4.3
WITH HOT PIPED WATER	51 009	81	308	1 129	6 242	13 611	13 799	15 839	5.8
FUEL USED:									
UTILITY GAS	27 261	34	111	410	2 916	7 241	7 843	8 706	5.9
BOTTLED, TANK, OR LP GAS	2 425	16	48	136	478	752	533	462	5.2
FUEL OIL	3 437	2	14	67	287	694	929	1 444	6.2
KEROSENE, ETC	13	-	-	1	2	5	4	2	...
ELECTRICITY	17 752	30	133	512	2 543	4 897	4 457	5 182	5.7
COAL OR COKE	26	-	-	-	6	6	7	7	...
WOOD	33	-	-	1	4	5	10	13	...
SOLAR HEAT	37	-	2	-	-	5	13	18	6.4
OTHER FUEL	16	-	-	1	6	3	1	5	...
NONE	8	-	-	2	1	3	3	-	...
NOT REPORTED	1	-	-	1	-	-	-	-	...
RENTER OCCUPIED	27 160	978	1 817	6 406	8 809	5 187	2 525	1 439	4.0
NO HOT PIPED WATER	452	56	40	91	139	70	40	16	3.8
WITH HOT PIPED WATER	26 708	921	1 777	6 316	8 670	5 116	2 485	1 424	4.0
FUEL USED:									
UTILITY GAS	14 691	376	952	3 408	4 766	3 027	1 465	697	4.0
BOTTLED, TANK, OR LP GAS	704	14	20	80	208	184	112	86	4.7
FUEL OIL	3 472	207	295	1 043	1 050	539	204	133	3.7
KEROSENE, ETC	4	-	-	2	-	2	-	1	...
ELECTRICITY	7 654	290	492	1 735	2 596	1 340	700	502	4.0
COAL OR COKE	31	3	-	13	3	9	-	2	...
WOOD	6	-	-	-	2	2	1	2	...
SOLAR HEAT	3	-	-	-	1	2	-	-	...
OTHER FUEL	104	28	13	24	27	9	3	-	2.9
NONE	38	3	6	11	16	3	-	-	3.4
NOT REPORTED	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED	51 411	92	333	1 189	6 367	13 694	13 861	15 875	5.8
UTILITY GAS	18 351	24	97	456	2 610	5 295	5 231	4 637	5.6
BOTTLED, TANK, OR LP GAS	3 886	20	87	276	959	1 126	758	661	5.0
FUEL OIL	40	-	-	2	2	7	13	17	6.2
KEROSENE, ETC	14	-	2	1	2	2	3	4	...
ELECTRICITY	28 955	45	143	441	2 763	7 228	7 819	10 515	6.0
COAL OR COKE	16	-	-	-	-	6	5	6	...
WOOD	123	2	4	10	26	24	28	30	5.3
OTHER FUEL	12	2	-	1	3	2	-	4	...
NONE	14	1	1	2	2	3	4	1	...
RENTER OCCUPIED	27 160	978	1 817	6 406	8 809	5 187	2 525	1 439	4.0
UTILITY GAS	14 200	354	1 039	3 587	4 558	2 852	1 294	516	4.0
BOTTLED, TANK, OR LP GAS	1 260	22	45	171	449	292	168	114	4.4
FUEL OIL	24	-	3	7	6	5	1	2	...
KEROSENE, ETC	6	-	-	3	1	2	-	-	...
ELECTRICITY	11 390	442	703	2 619	3 757	2 012	1 056	800	4.0
COAL OR COKE	6	-	2	-	1	3	-	1	...
WOOD	63	2	10	8	21	10	5	6	4.0
OTHER FUEL	16	4	3	-	4	5	-	-	...
NONE	197	155	11	11	11	6	2	1	1.5-

TABLE A-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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]	41 336	57	190	439	3 686	10 930	12 051	13 983	5.9
LESS THAN $10	543	6	9	38	126	146	125	92	5.1
$10 TO $19	5 049	6	32	154	831	1 616	1 366	1 043	5.4
$20 TO $29	8 649	9	38	110	1 078	2 588	2 541	2 286	5.7
$30 TO $39	8 356	10	49	52	707	2 287	2 586	2 665	5.9
$40 TO $49	5 559	11	17	31	398	1 409	1 675	2 018	6.0
$50 TO $59	4 431	5	12	15	205	1 071	1 340	1 784	6.2
$60 TO $79	4 661	7	18	14	238	1 111	1 340	1 933	6.2
$80 TO $99	1 849	2	11	8	55	393	555	825	6.3
$100 TO $149	1 780	-	3	9	33	266	432	1 037	6.5+
$150 OR MORE	433	-	-	3	10	35	86	299	6.5+
NO ELECTRICITY USED	26	2	-	5	5	8	4	3	...
MEDIAN	37	36	33	22	27	34	37	44	...
SPECIFIED RENTER OCCUPIED[2]	26 550	968	1 806	6 387	8 678	5 059	2 388	1 263	4.0
LESS THAN $10	2 092	50	262	843	644	221	51	21	3.4
$10 TO $19	6 421	101	382	1 856	2 345	1 124	436	178	3.9
$20 TO $29	5 173	44	198	1 111	1 814	1 200	569	237	4.2
$30 TO $39	3 209	18	122	541	1 055	753	447	272	4.4
$40 TO $49	1 667	10	32	258	601	415	226	125	4.4
$50 TO $59	1 028	2	21	111	401	258	143	92	4.4
$60 TO $79	933	2	13	109	326	267	126	90	4.6
$80 TO $99	278	-	5	27	92	81	44	28	4.7
$100 TO $149	223	-	2	16	45	63	53	44	5.3
$150 OR MORE	49	-	2	3	15	8	12	9	5.1
INCLUDED IN RENT	5 402	732	755	1 493	1 320	663	274	165	3.3
NO ELECTRICITY USED	74	10	12	18	19	7	7	2	3.3
MEDIAN	24	16	16	18	23	26	29	34	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	41 336	57	190	439	3 686	10 930	12 051	13 983	5.9
LESS THAN $10	2 239	5	16	53	324	650	634	557	5.6
$10 TO $14	2 770	9	10	64	342	860	822	663	5.6
$15 TO $19	2 807	3	15	36	353	801	895	704	5.7
$20 TO $24	3 224	4	22	73	344	962	900	919	5.7
$25 TO $29	2 965	2	16	31	325	930	914	746	5.7
$30 TO $39	5 819	5	21	45	524	1 698	1 762	1 764	5.8
$40 TO $49	4 293	9	16	19	291	1 015	1 376	1 567	6.1
$50 TO $69	4 641	6	14	15	244	902	1 287	2 173	6.4
$70 TO $99	1 395	-	2	4	45	187	377	780	6.5+
$100 OR MORE	511	-	-	-	17	61	122	311	6.5+
NO GAS USED	10 674	13	57	99	877	2 864	2 962	3 801	6.0
MEDIAN	32	26	26	21	26	28	32	38	...
SPECIFIED RENTER OCCUPIED[2]	26 550	968	1 806	6 387	8 678	5 059	2 388	1 263	4.0
LESS THAN $10	3 702	90	291	1 160	1 269	572	229	91	3.7
$10 TO $14	2 266	16	88	528	875	445	234	80	4.1
$15 TO $19	1 555	5	49	285	570	379	203	65	4.3
$20 TO $24	1 287	2	29	184	468	348	191	66	4.4
$25 TO $29	836	2	16	147	285	222	116	49	4.4
$30 TO $39	1 420	-	21	196	439	440	204	119	4.6
$40 TO $49	839	2	6	63	230	284	159	95	4.9
$50 TO $69	820	5	7	59	205	228	197	119	5.1
$70 TO $99	269	2	-	14	69	71	62	52	5.2
$100 OR MORE	135	2	-	10	31	31	30	31	5.3
INCLUDED IN RENT	7 804	530	897	2 368	2 320	1 141	359	190	3.5
NO GAS USED	5 614	313	404	1 372	1 917	895	407	306	3.9
MEDIAN	17	10-	10-	11	16	21	23	32	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	41 336	57	190	439	3 686	10 930	12 051	13 983	5.9
LESS THAN $100	1 296	2	6	15	89	230	363	593	6.3
$100 TO $199	860	4	7	10	80	210	228	321	6.0
$200 TO $299	710	2	2	12	111	206	166	211	5.6
$300 TO $399	1 034	-	3	13	136	331	314	236	5.6
$400 TO $499	1 085	-	12	12	118	297	326	319	5.8
$500 TO $599	1 034	-	3	14	101	239	324	353	6.0
$600 TO $699	1 071	1	6	12	66	226	352	408	6.1
$700 TO $799	761	1	2	10	35	150	227	336	6.3
$800 OR MORE	2 129	1	7	3	67	282	583	1 187	6.5+
FUELS NOT USED OR FREE	31 358	46	142	338	2 882	8 760	9 170	10 020	5.9
MEDIAN	500	...	451	402	388	436	513	585	...

[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: 1979--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.--CONTINUED									
SPECIFIED RENTER OCCUPIED[1]	26 550	968	1 806	6 387	8 678	5 059	2 388	1 263	4.0
LESS THAN $100	313	10	10	46	98	73	42	33	4.4
$100 TO $199	212	-	12	32	66	44	30	28	4.4
$200 TO $299	223	-	6	35	82	56	30	14	4.3
$300 TO $399	286	-	2	25	98	89	53	18	4.7
$400 TO $499	214	-	4	20	53	59	49	29	5.0
$500 TO $599	202	-	5	15	38	62	50	33	5.2
$600 TO $699	201	-	-	4	39	56	58	44	5.5
$700 TO $799	102	-	-	-	15	43	28	16	5.3
$800 OR MORE	360	-	2	18	67	86	80	107	5.6
INCLUDED IN RENT	4 957	332	439	1 511	1 537	746	268	124	3.6
FUELS NOT USED OR FREE	19 478	626	1 325	4 680	6 584	3 745	1 700	817	4.0
MEDIAN	411	...	190	254	332	437	512	612	...
ALL OCCUPIED HOUSING UNITS	78 572	1 070	2 150	7 595	15 176	18 881	16 385	17 314	5.2
HEATING EQUIPMENT									
OWNER OCCUPIED	51 411	92	333	1 189	6 367	13 694	13 861	15 875	5.8
WARM-AIR FURNACE	30 967	38	164	528	3 431	8 104	8 474	10 228	5.9
HEAT PUMP	1 125	-	8	11	70	207	323	506	6.3
STEAM OR HOT WATER	6 787	8	22	116	537	1 256	1 988	2 861	6.2
BUILT-IN ELECTRIC UNITS	3 244	10	19	116	436	986	818	858	5.6
FLOOR, WALL, OR PIPELESS FURNACE	3 313	5	23	89	659	1 276	845	417	5.2
ROOM HEATERS WITH FLUE	2 271	14	34	108	503	704	521	387	5.2
ROOM HEATERS WITHOUT FLUE	1 700	5	13	92	380	567	410	235	5.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 769	10	39	112	314	517	435	341	5.3
NONE	235	3	11	17	38	77	48	41	5.1
RENTER OCCUPIED	27 160	978	1 817	6 406	8 809	5 187	2 525	1 439	4.0
WARM-AIR FURNACE	9 918	132	386	1 857	3 316	2 232	1 212	782	4.3
HEAT PUMP	188	4	10	46	75	26	13	15	3.9
STEAM OR HOT WATER	6 892	466	600	1 995	1 988	1 094	482	266	3.7
BUILT-IN ELECTRIC UNITS	2 712	179	309	803	908	330	114	69	3.6
FLOOR, WALL, OR PIPELESS FURNACE	2 912	56	199	754	1 086	553	205	58	3.9
ROOM HEATERS WITH FLUE	2 045	45	121	411	689	436	224	119	4.1
ROOM HEATERS WITHOUT FLUE	1 350	16	67	327	432	294	156	58	4.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	809	29	70	143	234	172	96	65	4.2
NONE	335	50	54	69	82	50	23	6	3.4
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED	51 411	92	333	1 189	6 367	13 694	13 861	15 875	5.8
NO HEATING EQUIPMENT	235	3	11	17	38	77	48	41	5.1
WITH HEATING EQUIPMENT	51 176	89	322	1 172	6 329	13 617	13 813	15 834	5.8
NO THERMOSTAT CONTROL	5 541	31	87	367	1 197	1 759	1 295	807	5.1
WITH THERMOSTAT CONTROL	45 498	58	235	801	5 119	11 806	12 480	14 999	5.9
NOT CLOCK OPERATED	39 467	50	203	684	4 481	10 243	10 881	12 924	5.9
CONSTANT TEMPERATURE SETTING MAINTAINED	14 206	26	68	261	1 730	3 843	4 008	4 269	5.8
TEMPERATURE SETTING IS CHANGED	25 055	24	135	421	2 729	6 330	6 820	8 597	5.9
OCCASIONALLY	6 633	9	34	95	689	1 723	1 895	2 186	5.9
REGULARLY	18 163	15	101	312	2 007	4 543	4 841	6 344	5.9
DON'T KNOW	225	-	-	14	28	54	75	54	5.7
NOT REPORTED	34	-	-	-	4	10	8	12	...
NOT REPORTED	206	-	-	2	23	70	53	58	5.6
CLOCK OPERATED	6 005	8	32	117	636	1 553	1 592	2 068	5.9
NOT REPORTED	26	-	-	-	2	10	7	7	...
NOT REPORTED	137	1	1	4	13	52	38	28	5.4
RENTER OCCUPIED	27 160	978	1 817	6 406	8 809	5 187	2 525	1 439	4.0
NO HEATING EQUIPMENT	335	50	54	69	82	50	23	6	3.4
WITH HEATING EQUIPMENT	26 826	927	1 763	6 337	8 727	5 136	2 502	1 433	4.0
NO THERMOSTAT CONTROL	9 958	620	1 020	2 802	2 944	1 619	674	278	3.7
WITH THERMOSTAT CONTROL	16 796	302	738	3 514	5 766	3 507	1 819	1 150	4.2
NOT CLOCK OPERATED	14 821	272	650	3 165	5 099	3 093	1 552	990	4.1
CONSTANT TEMPERATURE SETTING MAINTAINED	5 644	116	239	1 204	1 961	1 180	595	348	4.1
TEMPERATURE SETTING IS CHANGED	8 878	147	389	1 882	3 038	1 861	937	624	4.2
OCCASIONALLY	2 875	39	122	687	987	609	274	157	4.1
REGULARLY	5 780	107	251	1 153	1 984	1 203	626	455	4.2
DON'T KNOW	211	1	15	41	62	47	33	11	4.3
NOT REPORTED	12	-	-	-	5	2	4	1	...
NOT REPORTED	298	8	22	78	100	53	20	17	3.9
CLOCK OPERATED	1 946	26	81	349	655	411	265	160	4.3
NOT REPORTED	28	5	7	-	11	3	2	-	...
NOT REPORTED	72	6	4	21	18	10	8	5	3.8

[1]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: 1979--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	78 572	1 070	2 150	7 595	15 176	18 881	16 385	17 314	5.2
UNITS OCCUPIED LAST WINTER	66 323	720	1 465	5 484	11 849	16 331	14 776	15 698	5.3
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	47 489	82	301	1 070	5 795	12 657	12 923	14 661	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	66	249	862	5 101	11 548	12 077	14 067	5.8
NO ADDITIONAL HEAT SOURCE USED	39 942	57	222	766	4 659	10 551	10 979	12 708	5.8
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	3 209	7	26	72	342	766	853	1 142	5.9
NOT REPORTED	820	2	2	23	100	231	245	217	5.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	16	52	208	694	1 109	847	594	5.2
RENTER OCCUPIED	18 833	638	1 164	4 414	6 054	3 674	1 853	1 037	4.0
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	584	1 055	4 015	5 523	3 271	1 639	938	4.0
NO ADDITIONAL HEAT SOURCE USED	14 181	505	880	3 360	4 640	2 714	1 319	763	4.0
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 392	58	149	568	727	458	279	154	4.1
NOT REPORTED	452	22	26	87	156	99	41	21	4.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	53	109	399	531	403	214	98	4.1
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	47 489	82	301	1 070	5 795	12 657	12 923	14 661	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	66	249	862	5 101	11 548	12 077	14 067	5.8
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	35 271	66	193	666	3 898	9 122	9 710	11 617	5.9
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 939	-	55	171	1 114	2 216	2 141	2 242	5.7
1 ROOM	2 341	-	55	86	220	481	645	855	6.0
2 ROOMS	2 060	-	-	85	493	534	477	471	5.3
3 ROOMS OR MORE	3 538	-	-	-	401	1 202	1 020	915	5.7
NOT REPORTED	761	1	1	25	89	211	226	209	5.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	16	52	208	694	1 109	847	594	5.2
RENTER OCCUPIED	18 833	638	1 164	4 414	6 054	3 674	1 853	1 037	4.0
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	584	1 055	4 015	5 523	3 271	1 639	938	4.0
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	12 647	563	871	3 091	4 025	2 308	1 149	640	3.9
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 912	-	153	832	1 336	866	449	276	4.2
1 ROOM	1 380	-	153	538	326	187	93	82	3.5
2 ROOMS	1 343	-	-	293	664	229	102	56	4.1
3 ROOMS OR MORE	1 189	-	-	-	346	450	254	138	5.0
NOT REPORTED	467	21	31	92	162	97	41	22	4.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	53	109	399	531	403	214	98	4.1
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	47 489	82	301	1 070	5 795	12 657	12 923	14 661	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	66	249	862	5 101	11 548	12 077	14 067	5.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	16	52	208	694	1 109	847	594	5.2
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 975	14	40	171	583	951	716	499	5.2
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	416	2	11	30	90	118	96	69	5.1
NOT REPORTED	128	-	1	7	21	40	34	26	5.4
RENTER OCCUPIED	18 833	638	1 164	4 414	6 054	3 674	1 853	1 037	4.0
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	584	1 055	4 015	5 523	3 271	1 639	938	4.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	53	109	399	531	403	214	98	4.1
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 363	35	88	323	393	305	148	72	4.1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	333	13	16	63	97	85	39	21	4.3
NOT REPORTED	111	6	6	14	41	13	27	6	4.3

[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: 1979--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	78 572	1 070	2 150	7 595	15 176	18 881	16 385	17 314	5.2
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	51 411	92	333	1 189	6 367	13 694	13 861	15 875	5.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 004	13	50	129	352	594	483	382	5.3
WITH SELECTED HEATING EQUIPMENT[1]	49 407	80	283	1 060	6 015	13 100	13 378	15 492	5.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	46 552	72	271	998	5 740	12 469	12 607	14 397	5.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 638	7	10	52	254	570	707	1 037	6.1
SOLAR HEATING EQUIPMENT	18	-	-	-	2	3	7	6	...
STOVE, BURNING WOOD OR COAL	1 142	2	3	16	98	247	328	448	6.1
FIREPLACE, BURNING WOOD OR COAL	347	3	1	2	23	62	83	174	6.5+
PORTABLE ELECTRIC HEATER	570	2	5	26	76	147	143	172	5.7
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	114	-	-	4	22	23	32	33	5.7
OTHER	441	-	1	2	32	87	111	209	6.4
NOT REPORTED	36	-	-	3	3	9	11	11	5.8
NOT REPORTED	217	1	2	9	21	61	65	58	5.7
RENTER OCCUPIED	27 160	978	1 817	6 406	8 809	5 187	2 525	1 439	4.0
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 144	79	124	212	316	223	119	71	4.0
WITH SELECTED HEATING EQUIPMENT[1]	26 017	899	1 693	6 194	8 493	4 964	2 406	1 368	4.0
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 901	864	1 623	5 969	8 152	4 747	2 263	1 282	4.0
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	968	30	56	189	293	187	134	79	4.2
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	1	...
STOVE, BURNING WOOD OR COAL	125	2	2	17	21	28	31	24	5.2
FIREPLACE, BURNING WOOD OR COAL	14	-	-	-	2	3	4	5	...
PORTABLE ELECTRIC HEATER	655	25	42	143	229	112	79	24	4.0
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	77	2	3	16	18	24	5	9	4.4
OTHER	90	2	8	13	16	23	12	17	4.8
NOT REPORTED	16	-	-	-	8	1	6	2	...
NOT REPORTED	147	5	14	36	48	30	9	7	3.9
AIR CONDITIONING									
OWNER OCCUPIED	51 411	92	333	1 189	6 367	13 694	13 861	15 875	5.8
WITH AIR CONDITIONING	30 278	44	163	631	3 453	7 971	8 257	9 759	5.8
ROOM UNITS	15 400	20	99	411	2 198	4 494	4 184	3 994	5.6
1	9 293	15	73	330	1 578	2 933	2 375	1 990	5.4
2	4 376	4	19	73	504	1 220	1 313	1 242	5.8
3	1 241	-	6	7	90	277	361	500	6.2
4	342	2	2	1	19	50	99	170	6.5
5 OR MORE	149	-	-	1	7	13	36	92	6.5+
CENTRAL SYSTEM	14 877	24	64	220	1 255	3 476	4 073	5 765	6.1
WITH NO AIR CONDITIONING	21 134	48	171	558	2 914	5 723	5 603	6 116	5.7
RENTER OCCUPIED	27 160	978	1 817	6 406	8 809	5 187	2 525	1 439	4.0
WITH AIR CONDITIONING	12 577	301	708	3 098	4 431	2 342	1 101	595	4.0
ROOM UNITS	7 640	206	498	1 939	2 545	1 425	684	344	4.0
1	5 901	203	459	1 621	1 945	1 003	461	209	3.8
2	1 440	3	39	288	505	347	171	86	4.3
3	244	-	-	25	86	67	35	31	4.7
4	36	-	-	3	8	6	9	10	5.6
5 OR MORE	19	-	-	2	1	2	8	7	...
CENTRAL SYSTEM	4 936	95	210	1 159	1 886	918	417	252	4.0
WITH NO AIR CONDITIONING	14 584	677	1 109	3 308	4 378	2 844	1 424	844	4.0
ALL OCCUPIED HOUSING UNITS	78 572	1 070	2 150	7 595	15 176	18 881	16 385	17 314	5.2
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	57 419	154	535	1 831	7 947	15 218	14 953	16 781	5.7
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	48 358	78	304	886	5 479	12 770	13 275	15 567	5.8
ALL WINDOWS COVERED	26 929	33	114	293	2 732	6 732	7 516	9 508	6.0
SOME WINDOWS COVERED	4 818	-	34	70	526	1 080	1 249	1 859	6.0
NO WINDOWS COVERED	16 409	42	155	512	2 193	4 898	4 461	4 148	5.6
NOT REPORTED	202	2	1	12	28	60	48	51	5.5
RENTER OCCUPIED	9 061	76	231	945	2 468	2 448	1 678	1 215	4.8
ALL WINDOWS COVERED	2 782	3	40	198	696	773	560	514	5.1
SOME WINDOWS COVERED	1 023	1	14	62	214	257	249	226	5.3
NO WINDOWS COVERED	4 839	59	156	574	1 441	1 328	820	460	4.6
NOT REPORTED	417	13	21	111	117	90	49	15	4.0

[1]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: 1979--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									
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED									
STORM DOORS									
OWNER OCCUPIED	48 358	78	304	886	5 479	12 770	13 275	15 567	5.8
ALL DOORS COVERED	25 471	31	103	238	2 417	6 631	7 329	8 722	5.9
SOME DOORS COVERED	6 461	2	38	69	786	1 651	1 683	2 232	5.9
NO DOORS COVERED	16 223	42	163	567	2 248	4 428	4 216	4 559	5.6
NOT REPORTED	203	3	-	12	29	59	47	53	5.5
RENTER OCCUPIED	9 061	76	231	945	2 468	2 448	1 678	1 215	4.8
ALL DOORS COVERED	2 598	3	27	153	637	712	559	508	5.2
SOME DOORS COVERED	924	2	6	42	202	275	201	196	5.3
NO DOORS COVERED	5 121	58	178	639	1 513	1 369	869	495	4.6
NOT REPORTED	417	13	21	111	115	92	49	15	4.0
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	48 358	78	304	886	5 479	12 770	13 275	15 567	5.8
YES	40 273	62	222	594	4 131	10 426	11 169	13 670	5.9
NO	6 207	13	56	207	1 025	1 798	1 672	1 435	5.5
DON'T KNOW	1 651	1	26	73	293	478	380	401	5.4
NOT REPORTED	227	2	-	13	30	68	54	61	5.5
RENTER OCCUPIED	9 061	76	231	945	2 468	2 448	1 678	1 215	4.8
YES	3 935	14	67	273	947	1 130	818	685	5.1
NO	2 633	30	83	338	752	662	471	297	4.7
DON'T KNOW	2 061	18	59	221	648	563	334	217	4.6
NOT REPORTED	433	13	23	114	120	93	54	15	4.0

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979

(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	78 572	16 724	61 848	16 707	13 341	7 398	24 402
HOUSE HEATING FUEL							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
UTILITY GAS	28 845	4 766	24 079	6 625	6 463	3 051	7 940
BOTTLED, TANK, OR LP GAS	3 180	949	2 232	709	423	308	791
FUEL OIL	9 732	1 023	8 709	1 661	2 090	1 065	3 893
KEROSENE, ETC	282	51	230	87	46	30	67
ELECTRICITY	8 105	4 596	3 509	1 840	847	307	515
COAL OR COKE	239	9	230	16	29	32	153
WOOD	774	147	626	139	103	96	288
SOLAR HEAT	4	2	2	-	2	-	-
OTHER FUEL	15	2	13	4	-	1	8
NONE	235	58	177	59	66	23	30
RENTER OCCUPIED	27 160	5 119	22 041	5 567	3 272	2 486	10 716
UTILITY GAS	14 478	1 965	12 513	3 027	2 013	1 561	5 913
BOTTLED, TANK, OR LP GAS	954	111	843	172	148	107	416
FUEL OIL	5 562	324	5 238	759	648	518	3 313
KEROSENE, ETC	131	7	125	21	22	13	68
ELECTRICITY	5 139	2 645	2 494	1 488	336	168	502
COAL OR COKE	119	1	118	3	7	9	99
WOOD	361	14	347	30	38	47	232
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	81	9	72	7	4	7	54
NONE	335	44	291	61	57	54	119
WATER HEATING FUEL							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
NO HOT PIPED WATER	401	38	363	58	51	76	178
WITH HOT PIPED WATER	51 009	11 566	39 443	11 081	10 018	4 837	13 507
FUEL USED:							
UTILITY GAS	27 261	4 374	22 887	6 120	6 131	2 840	7 796
BOTTLED, TANK, OR LP GAS	2 425	641	1 784	502	322	239	722
FUEL OIL	3 437	367	3 069	644	749	361	1 316
KEROSENE, ETC	13	2	11	2	2	3	5
ELECTRICITY	17 752	6 150	11 602	3 789	2 807	1 389	3 617
COAL OR COKE	26	1	25	2	-	2	22
WOOD	33	10	23	4	1	3	15
SOLAR HEAT	37	14	23	12	6	-	6
OTHER FUEL	16	4	12	5	2	1	5
NONE	8	3	6	2	-	1	3
NOT REPORTED	1	-	1	-	-	-	1
RENTER OCCUPIED	27 160	5 119	22 041	5 567	3 272	2 486	10 716
NO HOT PIPED WATER	452	6	446	32	53	67	294
WITH HOT PIPED WATER	26 708	5 113	21 595	5 535	3 219	2 418	10 422
FUEL USED:							
UTILITY GAS	14 691	2 091	12 600	3 079	1 916	1 525	6 080
BOTTLED, TANK, OR LP GAS	704	69	635	127	93	79	337
FUEL OIL	3 472	209	3 263	469	403	317	2 073
KEROSENE, ETC	4	-	4	1	1	-	2
ELECTRICITY	7 654	2 716	4 938	1 828	782	487	1 842
COAL OR COKE	31	-	31	3	8	1	18
WOOD	6	-	6	-	-	1	6
SOLAR HEAT	3	1	2	-	2	-	-
OTHER FUEL	104	10	94	20	13	5	56
NONE	38	17	21	9	2	2	8
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
UTILITY GAS	18 351	2 186	16 165	3 333	3 951	2 218	6 663
BOTTLED, TANK, OR LP GAS	3 886	1 040	2 846	889	501	352	1 104
FUEL OIL	40	3	37	5	9	9	14
KEROSENE, ETC	14	4	10	1	1	-	9
ELECTRICITY	28 955	8 357	20 598	6 895	5 597	2 314	5 792
COAL OR COKE	16	1	16	-	-	-	16
WOOD	123	7	116	13	10	17	75
OTHER FUEL	12	4	8	2	-	1	5
NONE	14	3	11	1	-	3	8
RENTER OCCUPIED	27 160	5 119	22 041	5 567	3 272	2 486	10 716
UTILITY GAS	14 200	1 313	12 887	2 354	1 850	1 630	7 054
BOTTLED, TANK, OR LP GAS	1 260	131	1 129	252	163	130	584
FUEL OIL	24	2	22	-	2	-	20
KEROSENE, ETC	6	-	6	-	2	-	4
ELECTRICITY	11 390	3 671	7 719	2 949	1 233	708	2 828
COAL OR COKE	6	-	6	-	2	-	5
WOOD	63	1	62	4	8	6	46
OTHER FUEL	16	2	14	2	1	2	9
NONE	197	1	196	6	14	10	166

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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		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--CONTINUED							
MONTHLY COST PAID FOR ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	41 336	8 252	33 084	9 097	9 247	4 352	10 388
LESS THAN $10	543	22	520	39	85	84	313
$10 TO $19	5 049	437	4 612	663	1 160	762	2 028
$20 TO $29	8 649	1 075	7 574	1 542	2 133	1 116	2 782
$30 TO $39	8 356	1 309	7 046	1 807	2 011	999	2 229
$40 TO $49	5 559	1 068	4 492	1 432	1 317	527	1 216
$50 TO $59	4 431	1 072	3 359	1 198	996	347	817
$60 TO $79	4 661	1 523	3 138	1 291	888	332	628
$80 TO $99	1 849	720	1 129	516	345	105	162
$100 TO $149	1 780	843	937	480	246	53	159
$150 OR MORE	433	180	254	126	65	17	44
NO ELECTRICITY USED	26	3	23	3	-	10	10
MEDIAN	37	52	35	43	36	32	30
SPECIFIED RENTER OCCUPIED[2]	26 550	5 090	21 459	5 508	3 209	2 422	10 319
LESS THAN $10	2 092	219	1 873	517	265	201	891
$10 TO $19	6 421	874	5 548	1 314	775	625	2 834
$20 TO $29	5 173	851	4 323	1 028	611	505	2 178
$30 TO $39	3 209	648	2 561	618	408	286	1 249
$40 TO $49	1 667	470	1 197	360	214	125	498
$50 TO $59	1 028	364	663	187	125	70	280
$60 TO $79	933	391	542	203	100	62	178
$80 TO $99	278	125	153	57	31	21	44
$100 TO $149	223	102	122	48	26	9	40
$150 OR MORE	49	14	34	8	10	7	9
INCLUDED IN RENT	5 402	1 016	4 385	1 159	637	504	2 086
NO ELECTRICITY USED	74	16	58	10	8	7	33
MEDIAN	24	31	22	23	24	22	22
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	41 336	8 252	33 084	9 097	9 247	4 352	10 388
LESS THAN $10	2 239	293	1 946	324	515	323	783
$10 TO $14	2 770	430	2 340	511	695	387	747
$15 TO $19	2 807	385	2 421	619	685	392	725
$20 TO $24	3 224	510	2 713	764	794	368	787
$25 TO $29	2 965	443	2 521	662	752	341	765
$30 TO $39	5 819	918	4 901	1 300	1 454	683	1 464
$40 TO $49	4 293	590	3 704	1 053	1 020	425	1 205
$50 TO $69	4 641	634	4 007	1 151	945	447	1 463
$70 TO $99	1 395	175	1 220	347	232	111	530
$100 OR MORE	511	53	458	114	89	40	214
NO GAS USED	10 674	3 820	6 854	2 251	2 065	834	1 704
MEDIAN	32	32	32	34	31	28	33
SPECIFIED RENTER OCCUPIED[2]	26 550	5 090	21 459	5 508	3 209	2 422	10 319
LESS THAN $10	3 702	335	3 368	695	487	397	1 789
$10 TO $14	2 266	215	2 052	408	329	280	1 035
$15 TO $19	1 555	146	1 409	260	252	205	692
$20 TO $24	1 287	141	1 147	235	208	168	537
$25 TO $29	836	74	762	138	117	96	411
$30 TO $39	1 420	118	1 301	163	219	167	752
$40 TO $49	839	59	780	88	87	82	523
$50 TO $69	820	54	767	76	77	68	546
$70 TO $99	269	13	256	22	16	28	191
$100 OR MORE	135	7	128	15	14	6	93
INCLUDED IN RENT	7 804	1 665	6 139	2 062	948	628	2 501
NO GAS USED	5 614	2 264	3 350	1 348	456	297	1 249
MEDIAN	17	16	17	13	16	16	18
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	41 336	8 252	33 084	9 097	9 247	4 352	10 388
LESS THAN $100	1 296	409	887	362	230	89	206
$100 TO $199	860	207	653	227	171	75	180
$200 TO $299	710	114	596	151	148	103	194
$300 TO $399	1 034	120	914	173	290	150	301
$400 TO $499	1 085	106	978	162	272	157	388
$500 TO $599	1 034	92	942	178	237	134	391
$600 TO $699	1 071	83	988	185	248	125	429
$700 TO $799	761	71	690	106	186	98	299
$800 OR MORE	2 129	191	1 938	324	438	215	961
FUELS NOT USED OR FREE	31 358	6 858	24 499	7 229	7 026	3 205	7 040
MEDIAN	500	270	528	413	499	499	603

[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: 1979--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		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--CONTINUED							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	26 550	5 090	21 459	5 508	3 209	2 422	10 319
LESS THAN $100	313	55	259	35	46	28	150
$100 TO $199	212	27	184	37	26	25	97
$200 TO $299	223	16	207	30	31	26	120
$300 TO $399	286	13	273	38	38	33	164
$400 TO $499	214	9	206	19	29	30	128
$500 TO $599	202	7	196	12	29	26	129
$600 TO $699	201	4	196	24	23	25	125
$700 TO $799	102	1	101	9	6	3	82
$800 OR MORE	360	7	353	26	38	26	263
INCLUDED IN RENT	4 957	528	4 429	812	564	385	2 668
FUELS NOT USED OR FREE	19 478	4 423	15 055	4 467	2 379	1 816	6 393
MEDIAN	411	153	431	334	379	395	476
ALL OCCUPIED HOUSING UNITS	78 572	16 724	61 848	16 707	13 341	7 398	24 402
HEATING EQUIPMENT							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
WARM-AIR FURNACE	30 967	8 181	22 786	7 585	6 295	2 356	6 550
HEAT PUMP	1 125	848	277	159	67	23	28
STEAM OR HOT WATER	6 787	541	6 247	1 162	1 128	624	3 332
BUILT-IN ELECTRIC UNITS	3 244	1 372	1 872	950	420	181	320
FLOOR, WALL, OR PIPELESS FURNACE	3 313	137	3 176	420	1 078	714	965
ROOM HEATERS WITH FLUE	2 271	82	2 189	230	389	357	1 213
ROOM HEATERS WITHOUT FLUE	1 700	87	1 613	228	314	408	663
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 769	298	1 470	346	313	226	585
NONE	235	58	177	59	66	23	30
RENTER OCCUPIED	27 160	5 119	22 041	5 567	3 272	2 486	10 716
WARM-AIR FURNACE	9 918	3 055	6 862	2 520	1 016	573	2 753
HEAT PUMP	188	116	72	40	8	8	17
STEAM OR HOT WATER	6 892	526	6 366	1 052	615	580	4 118
BUILT-IN ELECTRIC UNITS	2 712	1 132	1 580	853	212	119	395
FLOOR, WALL, OR PIPELESS FURNACE	2 912	176	2 736	703	802	482	749
ROOM HEATERS WITH FLUE	2 045	21	2 024	130	231	260	1 403
ROOM HEATERS WITHOUT FLUE	1 350	16	1 334	128	229	293	684
FIREPLACES, STOVES, OR PORTABLE HEATERS	809	33	776	80	101	117	478
NONE	335	44	291	61	57	54	119
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
NO HEATING EQUIPMENT	235	58	177	59	66	23	30
WITH HEATING EQUIPMENT	51 176	11 546	39 630	11 080	10 004	4 890	13 656
NO THERMOSTAT CONTROL	5 541	447	5 094	851	1 144	983	2 116
WITH THERMOSTAT CONTROL	45 498	11 081	34 417	10 201	8 830	3 894	11 493
NOT CLOCK OPERATED	39 467	9 659	29 808	8 965	7 601	3 332	9 909
CONSTANT TEMPERATURE SETTING MAINTAINED	14 206	3 482	10 723	3 118	2 709	1 171	3 725
TEMPERATURE SETTING IS CHANGED	25 055	6 087	18 968	5 813	4 860	2 142	6 153
OCCASIONALLY	6 633	1 598	5 035	1 545	1 214	571	1 705
REGULARLY	18 163	4 429	13 734	4 221	3 598	1 544	4 372
DON'T KNOW	225	51	175	42	38	25	70
NOT REPORTED	34	9	25	7	10	3	6
NOT REPORTED	206	90	117	34	32	20	31
CLOCK OPERATED	6 005	1 418	4 587	1 232	1 222	556	1 576
NOT REPORTED	26	4	22	3	6	5	7
NOT REPORTED	137	19	118	28	30	13	47
RENTER OCCUPIED	27 160	5 119	22 041	5 567	3 272	2 486	10 716
NO HEATING EQUIPMENT	335	44	291	61	57	54	119
WITH HEATING EQUIPMENT	26 826	5 076	21 750	5 507	3 215	2 431	10 597
NO THERMOSTAT CONTROL	9 958	459	9 499	1 094	1 376	1 246	5 784
WITH THERMOSTAT CONTROL	16 796	4 604	12 191	4 401	1 830	1 175	4 785
NOT CLOCK OPERATED	14 821	4 012	10 809	3 933	1 598	1 039	4 239
CONSTANT TEMPERATURE SETTING MAINTAINED	5 644	1 486	4 159	1 483	585	393	1 698
TEMPERATURE SETTING IS CHANGED	8 878	2 422	6 457	2 370	978	634	2 473
OCCASIONALLY	2 875	802	2 074	794	295	194	790
REGULARLY	5 780	1 575	4 206	1 519	650	421	1 616
DON'T KNOW	211	45	166	50	33	18	65
NOT REPORTED	12	-	12	8	1	1	2
NOT REPORTED	298	105	193	79	34	12	68
CLOCK OPERATED	1 946	590	1 357	463	231	132	531
NOT REPORTED	28	2	26	6	2	3	15
NOT REPORTED	72	12	60	12	9	10	28

[1]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: 1979--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		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	78 572	16 724	61 848	16 707	13 341	7 398	24 402
UNITS OCCUPIED LAST WINTER	66 323	12 495	53 827	14 367	11 946	6 520	20 995
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	47 489	9 640	37 850	10 514	9 601	4 686	13 049
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	9 249	34 721	9 910	8 938	4 054	11 819
NO ADDITIONAL HEAT SOURCE USED	39 942	8 598	31 344	9 108	8 126	3 629	10 481
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	3 209	476	2 732	592	652	364	1 124
NOT REPORTED	820	175	645	211	159	60	214
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	390	3 129	603	663	632	1 230
RENTER OCCUPIED	18 833	2 856	15 978	3 853	2 344	1 834	7 946
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	2 803	14 223	3 654	2 082	1 507	6 980
NO ADDITIONAL HEAT SOURCE USED	14 181	2 549	11 632	3 207	1 728	1 215	5 482
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 392	170	2 222	356	292	257	1 317
NOT REPORTED	452	83	369	91	62	36	180
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	53	1 754	199	262	327	966
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	47 489	9 640	37 850	10 514	9 601	4 686	13 049
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	9 249	34 721	9 910	8 938	4 054	11 819
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	35 271	8 698	26 573	8 727	7 107	2 810	7 929
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	7 939	392	7 547	980	1 691	1 183	3 693
1 ROOM	2 341	219	2 122	367	405	267	1 082
2 ROOMS	2 060	62	1 998	170	397	362	1 068
3 ROOMS OR MORE	3 538	111	3 427	442	888	554	1 542
NOT REPORTED	761	159	601	203	140	61	196
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	390	3 129	603	663	632	1 230
RENTER OCCUPIED	18 833	2 856	15 978	3 853	2 344	1 834	7 946
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	2 803	14 223	3 654	2 082	1 507	6 980
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	12 647	2 583	10 064	2 971	1 375	979	4 739
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 912	135	3 777	592	646	489	2 050
1 ROOM	1 380	83	1 297	206	151	161	780
2 ROOMS	1 343	35	1 309	250	258	169	632
3 ROOMS OR MORE	1 189	18	1 171	136	237	159	638
NOT REPORTED	467	85	382	91	62	39	191
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	53	1 754	199	262	327	966
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	47 489	9 640	37 850	10 514	9 601	4 686	13 049
WITH SPECIFIED HEATING EQUIPMENT[1]	43 970	9 249	34 721	9 910	8 938	4 054	11 819
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 519	390	3 129	603	663	632	1 230
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 975	337	2 638	525	573	533	1 007
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	416	42	374	60	73	71	169
NOT REPORTED	128	12	117	18	18	27	54
RENTER OCCUPIED	18 833	2 856	15 978	3 853	2 344	1 834	7 946
WITH SPECIFIED HEATING EQUIPMENT[1]	17 026	2 803	14 223	3 654	2 082	1 507	6 980
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 807	53	1 754	199	262	327	966
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 363	45	1 319	149	204	258	708
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	333	6	327	33	43	61	190
NOT REPORTED	111	2	109	17	16	7	69

[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: 1979--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		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	78 572	16 724	61 848	16 707	13 341	7 398	24 402
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 004	356	1 648	405	378	249	615
WITH SELECTED HEATING EQUIPMENT[1]	49 407	11 248	38 159	10 734	9 691	4 664	13 070
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	46 552	10 577	35 975	10 142	9 144	4 425	12 264
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 638	630	2 008	539	502	225	741
SOLAR HEATING EQUIPMENT	18	4	14	3	6	-	5
STOVE, BURNING WOOD OR COAL	1 142	321	821	236	170	79	336
FIREPLACE, BURNING WOOD OR COAL	347	108	240	87	55	26	71
PORTABLE ELECTRIC HEATER	570	94	477	108	134	74	160
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	114	20	94	20	28	11	34
OTHER	441	84	357	82	106	35	134
NOT REPORTED	36	10	26	9	8	-	9
NOT REPORTED	217	41	176	53	45	13	66
RENTER OCCUPIED	27 160	5 119	22 041	5 567	3 272	2 486	10 716
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 144	77	1 067	141	158	171	597
WITH SELECTED HEATING EQUIPMENT[1]	26 017	5 042	20 974	5 426	3 114	2 315	10 119
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 901	4 934	19 967	5 274	2 977	2 189	9 527
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	968	75	893	126	118	112	538
SOLAR HEATING EQUIPMENT	1	-	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	125	10	115	14	12	14	75
FIREPLACE, BURNING WOOD OR COAL	14	-	14	-	4	2	9
PORTABLE ELECTRIC HEATER	655	53	602	90	85	76	351
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	77	7	70	8	11	12	39
OTHER	90	4	86	9	5	9	63
NOT REPORTED	16	3	13	5	3	-	5
NOT REPORTED	147	33	114	26	19	14	55
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	526	5 450	864	1 080	1 015	2 491
WITH SELECTED HEATING EQUIPMENT[2]	45 436	11 079	34 357	10 275	8 989	3 898	11 195
LESS THAN 4 YEARS	8 205	4 635	3 569	785	1 014	471	1 300
4 TO 9 YEARS	12 102	6 136	5 966	1 548	1 486	710	2 223
10 TO 19 YEARS	13 514	210	13 304	7 124	1 918	1 007	3 255
20 TO 39 YEARS	8 408	5	8 402	450	4 041	1 315	2 596
40 YEARS OR MORE	780	2	779	6	7	57	708
DON'T KNOW	2 067	40	2 027	301	447	299	981
NOT REPORTED	360	50	310	62	76	39	132
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	526	5 450	864	1 080	1 015	2 491
WITH SELECTED HEATING EQUIPMENT[2]	45 436	11 079	34 357	10 275	8 989	3 898	11 195
NO MAINTENANCE OR MODIFICATION	34 612	9 276	25 336	7 836	6 645	2 925	7 929
WITH MAINTENANCE OR MODIFICATION	10 447	1 738	8 709	2 336	2 272	935	3 166
NOT REPORTED	377	64	312	104	71	38	99
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	5 975	526	5 450	864	1 080	1 015	2 491
WITH SELECTED HEATING EQUIPMENT[2]	45 436	11 079	34 357	10 275	8 989	3 898	11 195
NO MAINTENANCE CONTRACT	39 228	9 863	29 365	9 155	7 727	3 293	9 190
WITH MAINTENANCE CONTRACT	5 790	1 137	4 653	1 016	1 189	567	1 881
NOT REPORTED	419	79	340	104	74	38	124

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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		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--CONTINUED							
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
NO HOT PIPED WATER	401	38	363	58	51	76	178
WITH HOT PIPED WATER	51 009	11 566	39 443	11 081	10 018	4 837	13 507
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	49 647	11 292	38 355	10 761	9 739	4 701	13 153
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	259	62	197	61	48	29	59
NOT REPORTED	1 058	196	862	245	225	106	286
NOT REPORTED	1	-	1	-	-	-	1
RENTER OCCUPIED	27 160	5 119	22 041	5 567	3 272	2 486	10 716
NO HOT PIPED WATER	452	6	446	32	53	67	294
WITH HOT PIPED WATER	26 708	5 113	21 595	5 535	3 219	2 418	10 422
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 837	4 953	20 884	5 346	3 094	2 338	10 106
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	98	21	77	23	15	10	28
NOT REPORTED	733	121	612	157	107	68	280
NOT REPORTED	-	-	-	-	-	-	-
AIR CONDITIONING							
OWNER OCCUPIED	51 411	11 604	39 807	11 139	10 069	4 913	13 686
WITH AIR CONDITIONING	30 278	7 957	22 321	7 312	6 320	2 641	6 047
ROOM UNITS	15 400	1 629	13 772	3 013	3 801	1 935	5 023
1	9 293	1 137	8 156	1 917	2 089	1 121	3 030
2	4 376	427	3 949	817	1 206	565	1 361
3	1 241	49	1 192	212	377	172	430
4	342	9	333	45	92	55	141
5 OR MORE	149	7	142	22	37	22	61
CENTRAL SYSTEM	14 877	6 329	8 549	4 299	2 519	707	1 024
WITH NO AIR CONDITIONING	21 134	3 647	17 486	3 827	3 749	2 272	7 639
RENTER OCCUPIED	27 160	5 119	22 041	5 567	3 272	2 486	10 716
WITH AIR CONDITIONING	12 577	3 890	8 687	3 504	1 472	879	2 833
ROOM UNITS	7 640	1 130	6 510	1 969	1 131	778	2 632
1	5 901	914	4 987	1 538	824	575	2 050
2	1 440	186	1 254	368	255	166	466
3	244	27	217	50	44	33	90
4	36	1	35	11	7	1	16
5 OR MORE	19	2	18	2	2	3	10
CENTRAL SYSTEM	4 936	2 760	2 176	1 535	340	101	200
WITH NO AIR CONDITIONING	14 584	1 230	13 354	2 064	1 800	1 607	7 883
ALL OCCUPIED HOUSING UNITS	78 572	16 724	61 848	16 707	13 341	7 398	24 402
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	57 419	11 937	45 482	12 165	11 383	5 964	15 970
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	48 358	10 927	37 431	10 678	9 847	4 747	12 160
ALL WINDOWS COVERED	26 929	6 097	20 831	5 611	5 258	2 547	7 415
SOME WINDOWS COVERED	4 818	579	4 240	816	888	506	2 030
NO WINDOWS COVERED	16 409	4 202	12 208	4 214	3 661	1 682	2 651
NOT REPORTED	202	49	153	37	39	12	65
RENTER OCCUPIED	9 061	1 010	8 051	1 487	1 536	1 217	3 810
ALL WINDOWS COVERED	2 782	358	2 424	421	398	301	1 304
SOME WINDOWS COVERED	1 023	55	967	123	137	91	617
NO WINDOWS COVERED	4 839	529	4 310	853	923	778	1 756
NOT REPORTED	417	68	350	90	79	47	134
STORM DOORS							
OWNER OCCUPIED	48 358	10 927	37 431	10 678	9 847	4 747	12 160
ALL DOORS COVERED	25 471	4 192	21 279	5 264	5 598	2 715	7 703
SOME DOORS COVERED	6 461	1 845	4 616	1 423	988	487	1 718
NO DOORS COVERED	16 223	4 839	11 383	3 951	3 222	1 533	2 677
NOT REPORTED	203	51	153	39	39	12	63
RENTER OCCUPIED	9 061	1 010	8 051	1 487	1 536	1 217	3 810
ALL DOORS COVERED	2 598	239	2 359	356	405	290	1 309
SOME DOORS COVERED	924	105	819	136	129	112	442
NO DOORS COVERED	5 121	599	4 522	907	924	768	1 924
NOT REPORTED	417	67	351	89	79	47	135

[1]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: 1979--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		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--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	48 358	10 927	37 431	10 678	9 847	4 747	12 160
YES	40 273	10 192	30 081	9 565	8 396	3 597	8 523
NO	6 207	404	5 802	741	1 071	945	3 045
DON'T KNOW	1 651	274	1 377	331	327	191	528
NOT REPORTED	227	56	171	40	52	15	64
RENTER OCCUPIED	9 061	1 010	8 051	1 487	1 536	1 217	3 810
YES	3 935	626	3 308	794	687	434	1 393
NO	2 633	80	2 553	272	407	426	1 449
DON'T KNOW	2 061	237	1 824	328	361	306	828
NOT REPORTED	433	67	366	93	81	51	140
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	48 358	10 927	37 431	10 678	9 847	4 747	12 160
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	16 409	4 202	12 208	4 214	3 661	1 682	2 651
SOME OR ALL WINDOWS COVERED	31 747	6 676	25 071	6 427	6 147	3 053	9 445
NONE ADDED OR INSTALLED	27 572	5 781	21 791	5 694	5 394	2 660	8 044
SOME OR ALL ADDED OR INSTALLED	3 899	829	3 070	667	710	371	1 322
NOT REPORTED	276	66	209	66	43	22	79
NOT REPORTED	202	49	153	37	39	12	65
STORM DOORS:							
NO DOORS COVERED	16 223	4 839	11 383	3 951	3 222	1 533	2 677
SOME OR ALL DOORS COVERED	31 932	6 037	25 895	6 688	6 585	3 202	9 421
NONE ADDED OR INSTALLED	28 399	5 028	23 371	5 985	5 983	2 879	8 523
SOME OR ALL ADDED OR INSTALLED	2 877	848	2 029	559	490	262	719
NOT REPORTED	656	161	496	144	113	60	179
NOT REPORTED	203	51	153	39	39	12	63
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	6 207	404	5 802	741	1 071	945	3 045
WITH ATTIC OR ROOF INSULATION	40 273	10 192	30 081	9 565	8 396	3 597	8 523
NONE ADDED OR INSTALLED	35 723	9 034	26 689	8 619	7 451	3 200	7 419
SOME OR ALL ADDED OR INSTALLED	3 912	979	2 933	806	814	337	976
LESS THAN 3 INCHES ADDED	293	72	221	63	71	15	72
3 TO 6 INCHES ADDED	1 593	316	1 277	347	367	161	402
6 INCHES OR MORE ADDED	1 451	403	1 049	290	296	111	352
DON'T KNOW	354	126	227	59	52	29	87
NOT REPORTED	221	62	160	47	29	20	64
NOT REPORTED	639	180	459	140	131	60	128
DON'T KNOW	1 651	274	1 377	331	327	191	528
NOT REPORTED	227	56	171	40	52	15	64
WALL INSULATION:							
NONE ADDED OR INSTALLED	45 109	10 060	35 049	10 152	9 334	4 472	11 091
SOME OR ALL ADDED OR INSTALLED	2 938	789	2 148	457	455	257	979
NOT REPORTED	311	78	234	69	58	17	90
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	36 700	8 448	28 252	8 148	7 410	3 697	8 997
SOME OR ALL ADDED OR INSTALLED	11 025	2 313	8 712	2 405	2 312	1 005	2 990
DON'T KNOW	405	105	300	86	79	31	104
NOT REPORTED	228	61	167	39	45	14	69
OTHER INSULATION:							
NONE ADDED OR INSTALLED	45 424	9 987	35 437	10 057	9 402	4 549	11 429
SOME OR ALL ADDED OR INSTALLED	2 568	853	1 715	531	376	174	634
NOT REPORTED	366	86	279	90	68	24	97

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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	9 061	1 010	8 051	1 487	1 536	1 217	3 810
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	4 839	529	4 310	853	923	778	1 756
SOME OR ALL WINDOWS COVERED	3 805	414	3 391	545	534	392	1 921
NONE ADDED OR INSTALLED	3 177	376	2 801	452	459	318	1 572
SOME OR ALL ADDED OR INSTALLED	556	33	523	77	64	66	316
NOT REPORTED	72	5	67	16	11	8	32
NOT REPORTED	417	68	350	90	79	47	134
STORM DOORS:							
NO DOORS COVERED	5 121	599	4 522	907	924	768	1 924
SOME OR ALL DOORS COVERED	3 522	344	3 178	491	534	402	1 752
NONE ADDED OR INSTALLED	3 117	287	2 831	436	479	354	1 562
SOME OR ALL ADDED OR INSTALLED	285	49	236	31	43	31	130
NOT REPORTED	120	8	112	25	11	17	60
NOT REPORTED	417	67	351	89	79	47	135
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	2 633	80	2 553	272	407	426	1 449
WITH ATTIC OR ROOF INSULATION	3 935	626	3 308	794	687	434	1 393
NONE ADDED OR INSTALLED	3 522	566	2 956	726	623	378	1 230
SOME OR ALL ADDED OR INSTALLED	287	38	248	38	38	34	138
LESS THAN 3 INCHES ADDED	14	-	14	2	2	2	9
3 TO 6 INCHES ADDED	89	7	83	11	18	11	42
6 INCHES OR MORE ADDED	77	9	68	12	8	10	39
DON'T KNOW	90	18	72	11	8	11	41
NOT REPORTED	16	4	11	2	2	-	6
NOT REPORTED	126	22	104	31	26	22	25
DON'T KNOW	2 061	237	1 824	328	361	306	828
NOT REPORTED	433	67	366	93	81	51	140
WALL INSULATION:							
NONE ADDED OR INSTALLED	8 268	892	7 376	1 344	1 405	1 134	3 493
SOME OR ALL ADDED OR INSTALLED	215	26	190	23	24	24	119
NOT REPORTED	578	93	485	121	107	59	198
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	6 910	760	6 150	1 138	1 192	960	2 861
SOME OR ALL ADDED OR INSTALLED	1 044	87	956	120	146	118	573
DON'T KNOW	675	90	585	137	117	88	244
NOT REPORTED	433	73	359	93	81	52	133
OTHER INSULATION:							
NONE ADDED OR INSTALLED	8 211	897	7 314	1 316	1 395	1 126	3 478
SOME OR ALL ADDED OR INSTALLED	282	25	257	49	38	31	139
NOT REPORTED	569	88	480	123	104	60	193
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	48 358	10 927	37 431	10 678	9 847	4 747	12 160
NO INSULATION ADDED OR INSTALLED	30 783	7 060	23 723	6 921	6 275	3 125	7 403
WITH INSULATION ADDED OR INSTALLED	16 080	3 482	12 598	3 420	3 306	1 497	4 374
LESS THAN $50	6 937	1 433	5 504	1 561	1 455	646	1 843
$50 TO $99	1 640	379	1 260	345	323	148	444
$100 TO $199	1 666	389	1 276	348	330	156	443
$200 TO $399	1 687	321	1 366	349	392	173	453
$400 OR MORE	2 726	547	2 178	537	564	245	832
DON'T KNOW	682	224	458	119	101	54	183
NOT REPORTED	744	189	555	162	141	75	177
MEDIAN	62	63	61	51	62	63	68
NOT REPORTED OR DON'T KNOW	1 495	385	1 110	337	266	124	384
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 180	200	981	229	237	121	394
LESS THAN $50	439	76	363	76	80	38	168
$50 TO $99	127	17	110	32	25	16	37
$100 TO $199	139	22	117	22	39	6	48
$200 TO $399	136	21	114	23	26	18	47
$400 OR MORE	219	37	181	50	49	30	51
DON'T KNOW	38	6	32	6	8	3	15
NOT REPORTED	83	19	64	20	8	8	28
MEDIAN	85	82	85	90	112	98	60

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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		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--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
ONLY ADDED OR INSTALLED STORM DOORS	964	287	677	209	174	97	196
LESS THAN $50	142	29	113	31	30	22	30
$50 TO $99	329	109	220	67	52	28	72
$100 TO $199	252	83	169	61	47	20	42
$200 TO $399	93	25	68	21	17	10	20
$400 OR MORE	54	12	42	11	14	7	10
DON'T KNOW	12	1	11	4	5	1	1
NOT REPORTED	82	29	53	13	8	10	22
MEDIAN	94	95	93	97	97	87	89
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	2 056	437	1 619	445	439	204	531
LESS THAN $50	234	56	178	41	40	34	64
$50 TO $99	251	59	192	60	53	15	64
$100 TO $199	351	88	263	78	70	33	82
$200 TO $399	428	79	349	94	108	48	99
$400 OR MORE	466	51	415	101	113	44	156
DON'T KNOW	170	51	119	37	26	14	42
NOT REPORTED	155	53	102	33	30	16	24
MEDIAN	213	158	237	217	254	222	245

TABLE A-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979

(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]	41 336	543	5 049	8 649	8 356	5 559	4 431	4 661	1 849	1 780	433	26	37
HOUSE HEATING FUEL													
ELECTRICITY	6 143	16	175	347	532	593	796	1 553	904	984	244	-	67
OTHER THAN ELECTRICITY	35 012	525	4 859	8 277	7 791	4 932	3 606	3 083	931	792	190	26	34
UTILITY GAS	25 172	409	3 734	6 179	5 494	3 396	2 504	2 082	649	578	136	11	34
BOTTLED, TANK, OR LP GAS	1 567	19	198	332	346	248	174	177	39	27	5	4	36
FUEL OIL	7 486	79	805	1 585	1 777	1 179	845	765	221	179	48	4	36
KEROSENE, ETC	166	-	27	35	37	20	17	18	9	4	-	-	35
COAL OR COKE	159	3	33	43	34	19	15	9	2	1	-	2	30
WOOD	452	16	63	103	98	70	49	32	11	4	-	6	34
SOLAR HEAT	2	-	-	-	2	-	-	-	1	-	-	-	...
OTHER FUEL	8	-	-	1	4	-	2	2	-	-	-	-	...
NONE	181	2	15	25	33	34	29	25	14	4	-	-	44
WATER HEATING FUEL[3]													
ELECTRICITY	13 018	58	761	1 630	2 119	1 762	1 690	2 440	1 147	1 143	267	-	51
OTHER FUEL	28 062	458	4 194	6 947	6 206	3 782	2 737	2 218	701	637	165	18	34
NONE	4	-	1	-	-	3	-	-	-	-	-	-	...
COOKING FUEL													
ELECTRICITY	24 033	141	1 897	4 206	4 674	3 383	2 944	3 474	1 505	1 456	354	-	43
OTHER FUEL	17 292	399	3 148	4 443	3 680	2 175	1 487	1 187	344	324	79	26	32
NONE	11	3	4	-	2	1	-	-	-	-	-	1	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	5 393	13	108	258	416	499	708	1 437	846	890	217	-	69
ALL OTHER FUEL COMBINATIONS OR NONE	35 943	530	4 941	8 391	7 940	5 060	3 723	3 224	1 002	890	216	26	35
HEATING EQUIPMENT													
WARM-AIR FURNACE	25 342	229	2 725	5 420	5 361	3 564	2 848	2 812	1 069	1 036	275	2	37
HEAT PUMP	957	-	4	26	49	76	135	271	159	193	44	-	73
STEAM OR HOT WATER	5 284	62	593	1 252	1 304	808	535	438	132	124	34	4	35
BUILT-IN ELECTRIC UNITS	2 463	7	98	171	255	244	339	639	316	335	61	-	64
FLOOR, WALL, OR PIPELESS FURNACE	2 909	106	762	769	516	330	187	151	47	29	8	3	27
ROOM HEATERS WITH FLUE	1 683	70	388	396	331	199	106	113	42	26	4	6	29
ROOM HEATERS WITHOUT FLUE	1 383	35	295	340	283	150	131	107	22	14	3	2	31
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 133	32	169	250	223	155	121	105	48	19	4	9	35
NONE	181	2	15	25	33	34	29	25	14	4	-	-	44
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	181	2	15	25	33	34	29	25	14	4	-	-	44
WITH HEATING EQUIPMENT	41 155	541	5 034	8 624	8 322	5 525	4 402	4 636	1 834	1 776	433	26	37
NO THERMOSTAT CONTROL	3 979	131	828	941	710	455	362	336	117	65	17	19	31
WITH THERMOSTAT CONTROL	37 061	405	4 192	7 659	7 589	5 063	4 024	4 290	1 711	1 707	414	7	37
NOT CLOCK OPERATED	32 218	361	3 688	6 844	6 603	4 401	3 455	3 663	1 442	1 422	334	4	37
CONSTANT TEMPERATURE SETTING MAINTAINED	11 627	145	1 310	2 320	2 370	1 611	1 277	1 350	597	533	112	3	38
TEMPERATURE SETTING IS CHANGED	20 423	214	2 360	4 479	4 208	2 773	2 170	2 288	832	881	218	1	37
OCCASIONALLY	5 427	58	521	1 077	1 080	774	595	715	275	267	64	-	39
REGULARLY	14 793	154	1 813	3 359	3 102	1 975	1 544	1 545	542	606	152	1	36
DON'T KNOW	170	2	23	34	21	21	24	27	11	7	-	-	43
NOT REPORTED	32	-	2	9	5	3	7	-	3	1	2	-	...
NOT REPORTED	168	2	19	45	26	17	8	26	13	8	4	-	36
CLOCK OPERATED	4 824	43	502	806	985	658	568	627	267	285	80	3	41
NOT REPORTED	19	-	2	9	1	4	1	-	2	-	-	-	...
NOT REPORTED	115	6	14	24	24	8	16	10	7	4	2	-	35
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 315	33	184	274	257	189	150	130	62	24	4	9	36
WITH SELECTED HEATING EQUIPMENT[4]	40 022	510	4 865	8 375	8 099	5 370	4 281	4 532	1 787	1 757	429	18	37
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	37 747	484	4 645	7 957	7 641	5 044	3 986	4 245	1 681	1 645	402	18	37
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 107	22	198	381	434	303	277	259	102	106	26	-	41
SOLAR HEATING EQUIPMENT	12	-	-	-	6	2	3	1	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	884	4	68	138	221	135	124	109	35	46	5	-	41
FIREPLACE, BURNING WOOD OR COAL	292	1	17	54	43	34	38	51	22	27	5	-	48
PORTABLE ELECTRIC HEATER	451	12	69	104	84	56	41	46	18	11	8	-	34
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	95	2	8	18	10	14	18	11	3	7	3	-	46
OTHER	364	2	34	72	65	57	54	38	23	15	5	-	42
NOT REPORTED	30	2	2	2	7	7	2	6	1	1	-	-	...
NOT REPORTED	167	3	22	37	25	24	18	28	4	6	2	-	38
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	138	868	1 011	871	537	387	351	126	64	11	17	32
WITH SELECTED HEATING EQUIPMENT[5]	36 956	405	4 181	7 638	7 485	5 022	4 044	4 311	1 723	1 716	422	9	38
LESS THAN 4 YEARS	6 606	55	537	1 113	1 115	852	830	1 051	456	491	105	2	45
4 TO 9 YEARS	9 079	61	734	1 595	1 704	1 267	1 072	1 276	554	644	170	2	43
10 TO 19 YEARS	11 254	104	1 148	2 326	2 459	1 628	1 268	1 319	477	416	105	4	37
20 TO 39 YEARS	7 470	124	1 300	1 950	1 658	939	661	517	180	110	30	1	32
40 YEARS OR MORE	639	30	169	149	122	87	51	24	-	6	2	-	27
DON'T KNOW	1 655	23	261	441	377	224	130	105	48	39	7	-	32
NOT REPORTED	252	10	31	64	50	26	32	18	7	11	3	-	34

[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 HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE A-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	138	868	1 011	871	537	387	351	126	64	11	17	32
WITH SELECTED HEATING EQUIPMENT[3]	36 956	405	4 181	7 638	7 485	5 022	4 044	4 311	1 723	1 716	422	9	38
NO MAINTENANCE OR MODIFICATION	28 199	311	3 271	5 824	5 620	3 712	3 070	3 373	1 381	1 319	312	5	38
WITH MAINTENANCE OR MODIFICATION	8 513	89	883	1 751	1 823	1 285	945	911	329	387	107	3	38
NOT REPORTED	243	5	27	64	41	25	28	26	13	11	3	-	36
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	138	868	1 011	871	537	387	351	126	64	11	17	32
WITH SELECTED HEATING EQUIPMENT[3]	36 956	405	4 181	7 638	7 485	5 022	4 044	4 311	1 723	1 716	422	9	38
NO MAINTENANCE CONTRACT	31 968	358	3 692	6 660	6 510	4 297	3 391	3 723	1 482	1 486	359	9	37
WITH MAINTENANCE CONTRACT	4 732	40	464	907	942	698	613	564	226	219	59	-	40
NOT REPORTED	256	7	25	71	33	27	40	23	15	11	4	-	37
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	252	26	93	71	31	12	5	3	1	1	2	9	20
WITH HOT PIPED WATER	41 083	516	4 956	8 578	8 325	5 547	4 426	4 658	1 848	1 779	432	18	37
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	39 982	489	4 828	8 376	8 087	5 406	4 313	4 527	1 789	1 732	418	16	37
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	222	3	27	29	51	44	23	19	9	12	5	-	40
NOT REPORTED	841	23	101	167	178	92	88	105	48	30	9	1	37
NOT REPORTED	1	1	-	-	-	-	-	-	-	-	-	-	...
AIR CONDITIONING													
WITH AIR CONDITIONING	24 638	97	1 587	3 971	4 791	3 670	3 337	3 753	1 530	1 526	367	7	45
ROOM UNITS	12 303	77	1 230	2 720	2 951	1 811	1 354	1 348	408	332	66	6	36
1	7 228	69	929	1 816	1 722	989	677	652	195	147	24	6	34
2	3 628	5	245	710	905	578	446	460	134	122	21	-	38
3	1 027	2	40	156	251	163	154	157	47	43	14	-	44
4	296	-	11	28	56	64	47	55	23	11	2	-	47
5 OR MORE	124	-	4	9	17	16	29	25	9	9	5	-	55
CENTRAL SYSTEM	12 335	20	358	1 251	1 840	1 859	1 984	2 405	1 122	1 194	301	1	54
WITH NO AIR CONDITIONING	16 698	446	3 461	4 678	3 565	1 889	1 094	908	318	254	66	20	29
PERSONS													
1 PERSON	5 648	326	1 706	1 614	838	428	297	271	72	63	18	14	24
2 PERSONS	12 695	138	1 907	3 189	2 732	1 584	1 190	1 142	426	314	69	5	34
3 PERSONS	7 736	30	680	1 472	1 696	1 129	899	976	379	394	81	1	39
4 PERSONS	8 223	24	448	1 411	1 682	1 311	1 083	1 182	484	492	103	5	44
5 PERSONS	4 205	17	206	620	839	644	550	650	310	287	81	2	46
6 PERSONS	1 739	5	63	209	357	272	232	285	104	162	50	1	48
7 PERSONS OR MORE	1 090	2	40	135	213	192	180	154	74	68	31	-	47
MEDIAN	2.8	1.5-	1.9	2.3	2.8	3.2	3.3	3.4	3.6	3.7	4.0	...	...
SPECIFIED OWNER OCCUPIED[2]	41 336	543	5 049	8 649	8 356	5 559	4 431	4 661	1 849	1 780	433	26	37
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	41 336	543	5 049	8 649	8 356	5 559	4 431	4 661	1 849	1 780	433	26	37
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	23 168	217	2 436	4 989	4 996	3 399	2 533	2 543	934	895	216	10	37
SOME WINDOWS COVERED	4 096	68	520	937	903	492	427	413	150	157	23	3	35
NO WINDOWS COVERED	13 914	251	2 064	2 680	2 437	1 653	1 459	1 695	759	718	186	13	37
NOT REPORTED	157	7	29	42	19	15	12	10	5	10	8	-	30
STORM DOORS													
ALL DOORS COVERED	22 398	224	2 497	5 097	5 048	3 265	2 387	2 257	774	676	165	8	36
SOME DOORS COVERED	5 261	51	532	961	1 055	714	645	695	292	260	52	2	40
NO DOORS COVERED	13 519	261	1 992	2 549	2 233	1 565	1 386	1 699	778	833	208	16	38
NOT REPORTED	158	7	27	42	19	15	12	10	5	12	8	-	31
ATTIC OR ROOF INSULATION													
YES	34 622	320	3 580	6 889	7 090	4 838	3 951	4 232	1 681	1 629	398	16	38
NO	5 248	196	1 186	1 392	987	552	371	320	122	95	19	9	28
DON'T KNOW	1 283	19	256	324	256	147	92	97	39	45	6	2	31
NOT REPORTED	183	8	27	44	23	22	17	12	6	12	11	-	35
SPECIFIED RENTER OCCUPIED[5]	26 550	2 092	6 421	5 173	3 209	1 667	1 028	933	278	223	49	5 475	24
HOUSE HEATING FUEL													
ELECTRICITY	5 093	214	652	728	687	559	433	454	147	130	19	1 070	35
OTHER THAN ELECTRICITY	21 126	1 854	5 722	4 385	2 491	1 084	585	461	130	92	30	4 290	22
UTILITY GAS	14 364	1 463	4 176	2 910	1 582	671	384	305	83	62	19	2 709	21
BOTTLED, TANK, OR LP GAS	768	28	149	169	129	67	53	41	14	10	3	106	28
FUEL OIL	5 428	311	1 268	1 192	696	305	125	104	26	18	6	1 377	23
KEROSENE, ETC	124	6	23	31	27	18	8	3	4	1	-	3	30
COAL OR COKE	102	9	20	27	20	6	2	-	2	-	2	15	25
WOOD	260	31	77	51	35	16	12	8	2	1	-	28	21
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	80	7	8	5	2	3	2	-	-	-	-	53	...
NONE	331	24	47	60	32	23	9	17	2	1	-	115	25

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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[1]--CONTINUED													
WATER HEATING FUEL[3]													
ELECTRICITY	7 346	261	964	1 304	1 157	800	590	580	179	155	27	1 328	34
OTHER FUEL	18 801	1 780	5 320	3 801	2 017	861	436	350	96	68	22	4 051	21
NONE	36	2	8	4	6	-	-	2	2	-	-	13	...
COOKING FUEL													
ELECTRICITY	11 047	714	2 076	2 058	1 539	961	658	639	200	168	38	1 996	28
OTHER FUEL	15 311	1 372	4 334	3 111	1 670	703	370	294	78	55	11	3 313	21
NONE	192	6	12	4	-	3	-	-	-	-	-	166	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	4 027	113	442	582	583	495	380	405	130	120	19	757	38
ALL OTHER FUEL COMBINATIONS OR NONE	22 523	1 979	5 979	4 591	2 626	1 172	647	528	149	103	30	4 718	22
HEATING EQUIPMENT													
WARM-AIR FURNACE	9 719	476	2 016	1 865	1 335	742	528	522	158	129	23	1 925	27
HEAT PUMP	186	7	20	17	26	24	16	29	5	7	4	31	43
STEAM OR HOT WATER	6 866	642	1 828	1 312	656	263	66	72	15	8	10	1 994	19
BUILT-IN ELECTRIC UNITS	2 685	160	455	478	361	263	198	142	50	41	6	532	29
FLOOR, WALL, OR PIPELESS FURNACE	2 873	470	967	575	252	103	63	54	15	12	6	358	17
ROOM HEATERS WITH FLUE	1 956	170	590	420	258	103	54	33	19	13	1	296	22
ROOM HEATERS WITHOUT FLUE	1 274	92	340	295	199	103	59	43	5	11	1	126	24
FIREPLACES, STOVES, OR PORTABLE HEATERS	660	52	159	150	92	43	33	20	10	3	-	98	24
NONE	331	24	47	60	32	23	9	17	2	1	-	115	25
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	331	24	47	60	32	23	9	17	2	1	-	115	25
WITH HEATING EQUIPMENT	26 219	2 068	6 374	5 113	3 178	1 644	1 018	915	277	223	49	5 360	23
NO THERMOSTAT CONTROL	9 675	974	2 488	1 808	994	425	205	158	52	41	8	2 521	21
WITH THERMOSTAT CONTROL	16 477	1 086	3 875	3 290	2 175	1 217	810	754	225	182	41	2 824	25
NOT CLOCK OPERATED	14 531	980	3 508	2 928	1 892	1 051	691	629	188	155	32	2 478	25
CONSTANT TEMPERATURE SETTING MAINTAINED	5 529	400	1 326	1 061	684	394	262	250	83	47	10	1 012	25
TEMPERATURE SETTING IS CHANGED	8 704	564	2 103	1 815	1 172	632	418	363	103	100	21	1 415	25
OCCASIONALLY	2 826	187	702	565	372	208	119	117	30	25	8	494	24
REGULARLY	5 659	360	1 344	1 210	781	413	286	230	71	71	13	880	25
DON'T KNOW	208	17	53	37	19	8	14	16	2	3	-	39	24
NOT REPORTED	11	-	3	3	-	2	-	-	-	-	-	2	...
NOT REPORTED	298	16	79	51	36	25	11	16	2	8	2	51	25
CLOCK OPERATED	1 918	104	363	354	281	164	119	124	36	27	9	337	28
NOT REPORTED	28	2	4	8	2	2	-	1	1	-	-	10	...
NOT REPORTED	67	9	11	15	9	2	3	3	-	-	-	14	24
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	991	76	206	210	124	67	42	37	11	4	-	214	25
WITH SELECTED HEATING EQUIPMENT[4]	25 559	2 016	6 215	4 963	3 086	1 600	985	895	267	220	49	5 262	23
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 479	1 935	5 993	4 714	2 944	1 527	953	848	256	209	47	5 053	23
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	937	68	194	218	131	68	30	41	5	9	2	171	25
SOLAR HEATING EQUIPMENT	1	-	-	-	-	1	-	-	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	110	8	26	20	24	9	6	5	1	1	-	10	27
FIREPLACE, BURNING WOOD OR COAL	12	2	3	2	1	2	2	1	-	-	-	-	...
PORTABLE ELECTRIC HEATER	648	46	137	159	86	39	17	23	4	9	2	127	24
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	73	6	17	18	6	8	5	3	-	-	-	10	24
OTHER	88	7	12	17	13	8	-	8	1	-	-	21	28
NOT REPORTED	16	-	2	4	4	2	-	1	-	-	-	4	...
NOT REPORTED	143	13	29	31	11	6	2	6	6	1	-	37	23
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	366	50	129	65	29	6	2	2	1	-	-	83	16
WITH HOT PIPED WATER	26 183	2 042	6 292	5 109	3 180	1 661	1 026	931	277	223	49	5 392	24
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 332	1 971	6 103	4 938	3 082	1 614	1 001	903	267	217	49	5 185	24
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	98	11	23	22	13	4	4	7	-	-	-	14	23
NOT REPORTED	715	58	158	144	78	41	21	20	8	6	-	180	23
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	12 378	587	2 370	2 428	1 767	1 101	759	736	227	188	33	2 183	28
ROOM UNITS	7 483	473	1 802	1 725	1 078	609	364	258	86	55	14	1 019	25
1	5 792	441	1 526	1 310	778	415	247	155	42	34	8	835	24
2	1 402	31	246	359	259	152	92	75	36	13	2	137	29
3	236	2	18	44	34	36	22	28	4	6	3	38	40
4	35	-	7	8	6	5	-	1	3	-	-	3	...
5 OR MORE	19	-	5	3	-	-	2	-	1	2	-	6	...
CENTRAL SYSTEM	4 894	113	568	703	688	492	395	477	140	133	19	1 164	36
WITH NO AIR CONDITIONING	14 172	1 506	4 051	2 745	1 443	566	269	197	52	36	16	3 292	19
PERSONS													
1 PERSON	9 643	1 296	2 693	1 515	735	320	175	124	29	31	15	2 709	17
2 PERSONS	7 767	504	2 035	1 623	980	543	349	286	81	42	12	1 312	24
3 PERSONS	4 209	154	909	915	646	356	206	214	63	36	5	705	27
4 PERSONS	2 642	75	450	614	475	239	156	151	57	64	7	354	30
5 PERSONS	1 258	39	174	262	214	115	79	82	31	26	7	228	32
6 PERSONS	565	13	77	141	93	58	38	40	8	18	3	77	31
7 PERSONS OR MORE	466	12	82	105	66	36	25	35	9	7	-	90	28
MEDIAN	2.0	1.5-	1.8	2.2	2.4	2.4	2.5	2.8	3.0	3.5	2.3	1.5	...

[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]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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]	26 550	2 092	6 421	5 173	3 209	1 667	1 028	933	278	223	49	5 475	24
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 450	366	1 866	1 950	1 396	710	519	464	151	133	27	868	27
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	2 538	71	492	597	473	243	164	112	36	39	10	301	28
SOME WINDOWS COVERED	931	27	185	255	163	88	54	61	15	10	4	69	28
NO WINDOWS COVERED	4 569	242	1 068	1 031	718	361	290	268	98	81	13	400	27
NOT REPORTED	411	25	120	67	43	18	11	23	2	4	-	98	22
STORM DOORS													
ALL DOORS COVERED	2 358	48	462	560	460	237	151	111	25	30	8	266	29
SOME DOORS COVERED	859	24	159	247	149	70	65	62	16	18	-	98	28
NO DOORS COVERED	4 822	268	1 122	1 078	745	385	292	267	108	81	19	455	27
NOT REPORTED	411	25	122	65	43	18	11	23	2	4	-	98	21
ATTIC OR ROOF INSULATION													
YES	3 624	114	607	818	638	350	268	258	83	86	19	384	31
NO	2 403	146	620	552	414	185	136	98	32	27	2	190	26
DON'T KNOW	1 997	80	511	512	300	157	103	85	34	17	5	193	25
NOT REPORTED	427	26	129	68	44	18	12	23	2	4	-	101	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.

TABLE A-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979

(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]	41 336	2 239	2 770	2 807	3 224	2 965	5 819	4 293	4 641	1 395	511	10 674	32
HOUSE HEATING FUEL													
GAS	26 739	1 147	2 040	2 301	2 805	2 677	5 483	4 114	4 406	1 304	461	-	34
UTILITY GAS	25 172	1 052	1 919	2 199	2 645	2 520	5 213	3 928	4 101	1 194	403	-	34
BOTTLED, TANK, OR LP GAS	1 567	95	121	102	160	157	271	186	305	110	59	-	35
OTHER THAN GAS	14 416	1 073	711	492	407	284	331	178	234	91	49	10 567	16
FUEL OIL	7 486	787	500	361	261	168	188	107	132	58	35	4 888	15
KEROSENE, ETC	166	25	16	10	9	6	5	2	2	-	2	91	13
ELECTRICITY	6 143	200	145	96	102	95	120	60	83	27	10	5 205	21
COAL OR COKE	159	18	16	7	5	4	6	2	5	-	-	96	13
WOOD	452	43	34	16	28	11	12	8	11	2	2	283	17
SOLAR HEAT	2	-	-	-	2	-	-	-	-	-	-	1	...
OTHER FUEL	8	-	-	-	-	1	-	-	1	3	-	3	...
NONE	181	19	19	14	12	4	5	1	1	-	-	106	14
WATER HEATING FUEL[3]													
GAS	25 262	1 197	2 179	2 317	2 681	2 467	4 998	3 761	4 003	1 228	432	-	33
UTILITY GAS	23 992	1 131	2 051	2 200	2 531	2 352	4 792	3 614	3 781	1 146	393	-	33
BOTTLED, TANK, OR LP GAS	1 271	66	128	117	150	115	206	147	221	82	39	-	33
OTHER FUEL	15 818	1 008	562	465	523	476	803	518	621	166	78	10 596	25
NONE	4	-	-	-	-	-	-	2	-	-	-	2	...
COOKING FUEL													
GAS	17 176	1 462	1 758	1 714	1 779	1 555	3 017	2 275	2 479	834	302	-	31
UTILITY GAS	15 221	1 009	1 484	1 500	1 569	1 422	2 809	2 141	2 261	760	265	-	32
BOTTLED, TANK, OR LP GAS	1 955	453	274	214	210	133	208	134	217	74	37	-	21
OTHER FUEL	24 150	777	1 008	1 093	1 445	1 409	2 802	2 018	2 161	560	208	10 668	33
NONE	11	-	4	-	-	-	-	-	1	-	-	6	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	13 535	591	1 134	1 215	1 369	1 273	2 641	2 070	2 229	751	262	-	34
ALL OTHER FUEL COMBINATIONS OR NONE	27 801	1 648	1 636	1 591	1 855	1 692	3 178	2 223	2 412	643	249	10 674	30
HEATING EQUIPMENT													
WARM-AIR FURNACE	25 342	974	1 438	1 603	2 118	2 062	4 491	3 405	3 453	903	303	4 592	34
HEAT PUMP	957	26	11	13	8	7	7	2	12	-	6	865	18
STEAM OR HOT WATER	5 284	436	291	231	219	196	394	430	699	389	160	1 840	38
BUILT-IN ELECTRIC UNITS	2 463	92	38	27	23	14	29	10	15	7	2	2 208	14
FLOOR, WALL, OR PIPELESS FURNACE	2 909	351	517	484	371	300	361	161	167	23	11	163	20
ROOM HEATERS WITH FLUE	1 683	132	141	157	180	169	241	128	137	34	12	351	26
ROOM HEATERS WITHOUT FLUE	1 383	92	206	199	198	165	231	118	118	30	12	14	24
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 133	117	110	79	94	48	60	38	39	9	4	535	19
NONE	181	19	19	14	12	4	5	1	1	-	-	106	14
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	181	19	19	14	12	4	5	1	1	-	-	106	14
WITH HEATING EQUIPMENT	41 155	2 220	2 751	2 793	3 212	2 960	5 814	4 292	4 640	1 395	511	10 567	32
NO THERMOSTAT CONTROL	3 979	393	512	443	407	329	451	245	224	53	21	900	22
WITH THERMOSTAT CONTROL	37 061	1 814	2 227	2 347	2 786	2 622	5 356	4 040	4 401	1 340	484	9 645	33
NOT CLOCK OPERATED	32 218	1 560	1 895	1 987	2 329	2 289	4 733	3 552	3 851	1 124	380	8 517	33
CONSTANT TEMPERATURE SETTING MAINTAINED	11 627	598	648	675	787	837	1 692	1 316	1 365	432	161	3 118	34
TEMPERATURE SETTING IS CHANGED	20 423	950	1 231	1 299	1 529	1 446	3 027	2 219	2 466	691	217	5 348	33
OCCASIONALLY	5 427	268	319	308	373	333	777	596	699	236	68	1 450	34
REGULARLY	14 793	676	891	981	1 142	1 090	2 221	1 609	1 750	440	147	3 846	33
DON'T KNOW	170	6	19	5	11	21	24	10	17	10	2	45	30
NOT REPORTED	32	-	2	5	4	2	5	4	-	4	-	8	...
NOT REPORTED	168	12	17	13	13	7	14	17	19	2	2	51	27
CLOCK OPERATED	4 824	255	329	357	453	333	622	486	547	216	102	1 127	32
NOT REPORTED	19	-	2	3	4	-	-	2	3	-	2	1	...
NOT REPORTED	115	12	13	2	18	9	8	7	15	2	6	23	24
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 315	136	129	93	106	52	65	39	40	9	4	642	18
WITH SELECTED HEATING EQUIPMENT[4]	40 022	2 103	2 641	2 713	3 118	2 913	5 755	4 254	4 601	1 385	507	10 032	32
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	37 747	1 978	2 531	2 574	2 977	2 790	5 515	4 038	4 365	1 316	474	9 189	32
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	2 107	115	100	127	118	111	221	188	221	68	26	814	33
SOLAR HEATING EQUIPMENT	12	-	-	-	2	-	2	2	-	1	1	6	...
STOVE, BURNING WOOD OR COAL	884	53	33	38	44	35	65	57	54	21	9	476	30
FIREPLACE, BURNING WOOD OR COAL	292	12	9	8	12	17	35	37	35	13	4	110	38
PORTABLE ELECTRIC HEATER	451	24	26	37	30	31	65	47	64	17	7	104	34
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	95	9	9	7	4	4	14	9	17	5	2	15	34
OTHER	364	18	20	38	25	22	39	36	41	12	4	108	31
NOT REPORTED	30	2	2	-	2	2	3	3	9	-	-	6	...
NOT REPORTED	167	10	10	13	23	11	19	29	15	1	8	29	31
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	360	476	449	484	386	537	286	295	73	29	1 006	23
WITH SELECTED HEATING EQUIPMENT[5]	36 956	1 879	2 295	2 357	2 740	2 579	5 282	4 008	4 346	1 321	482	9 667	33
LESS THAN 4 YEARS	6 606	323	394	367	471	386	796	519	550	155	63	2 581	31
4 TO 9 YEARS	9 079	355	480	544	665	623	1 248	909	1 083	332	110	2 731	34
10 TO 19 YEARS	11 254	500	577	713	860	838	1 766	1 394	1 558	473	169	2 405	35
20 TO 39 YEARS	7 470	502	613	525	548	535	1 088	886	822	255	88	1 607	32
40 YEARS OR MORE	639	66	85	55	47	37	90	75	63	32	15	74	28
DON'T KNOW	1 655	114	128	137	127	139	264	198	221	71	29	225	32
NOT REPORTED	252	18	17	17	21	21	30	27	48	4	7	43	33

[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 HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE A-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	360	476	449	484	386	537	286	295	73	29	1 006	23
WITH SELECTED HEATING EQUIPMENT[3]	36 956	1 879	2 295	2 357	2 740	2 579	5 282	4 008	4 346	1 321	482	9 667	33
NO MAINTENANCE OR MODIFICATION	28 199	1 371	1 787	1 903	2 191	2 058	4 177	3 066	3 234	1 004	323	7 084	33
WITH MAINTENANCE OR MODIFICATION	8 513	491	497	446	530	501	1 075	919	1 060	313	151	2 530	34
NOT REPORTED	243	17	11	8	18	20	30	22	51	4	8	53	36
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	360	476	449	484	386	537	286	295	73	29	1 006	23
WITH SELECTED HEATING EQUIPMENT[3]	36 956	1 879	2 295	2 357	2 740	2 579	5 282	4 008	4 346	1 321	482	9 667	33
NO MAINTENANCE CONTRACT	31 968	1 499	1 925	2 069	2 458	2 358	4 847	3 687	3 877	1 174	414	7 661	33
WITH MAINTENANCE CONTRACT	4 732	364	354	276	260	204	410	291	413	141	61	1 958	28
NOT REPORTED	256	17	15	12	22	17	26	30	56	7	7	48	38
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	252	34	28	25	20	22	17	12	17	1	1	75	20
WITH HOT PIPED WATER	41 083	2 205	2 742	2 782	3 204	2 943	5 802	4 281	4 624	1 394	510	10 598	32
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	39 982	2 132	2 656	2 699	3 122	2 868	5 680	4 170	4 508	1 364	495	10 290	32
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	222	17	18	22	18	14	28	17	26	5	2	55	27
NOT REPORTED	841	54	68	60	62	57	94	92	90	24	13	226	31
NOT REPORTED	1	-	-	-	-	-	-	-	-	-	-	1	-
AIR CONDITIONING													
WITH AIR CONDITIONING	24 638	1 094	1 489	1 453	1 940	1 839	3 626	2 629	2 928	889	340	6 410	33
ROOM UNITS	12 303	686	835	817	946	974	1 843	1 248	1 371	454	195	2 933	32
1	7 228	407	476	486	581	561	1 126	752	777	211	100	1 751	32
2	3 628	196	246	230	277	311	528	365	385	157	62	872	32
3	1 027	56	85	79	67	71	139	98	145	52	16	219	33
4	296	19	19	18	16	21	36	20	44	30	11	63	36
5 OR MORE	124	8	9	4	5	10	15	14	21	3	5	29	37
CENTRAL SYSTEM	12 335	409	653	636	994	865	1 783	1 381	1 557	435	145	3 477	34
WITH NO AIR CONDITIONING	16 698	1 145	1 281	1 354	1 284	1 125	2 193	1 664	1 712	506	171	4 263	30
PERSONS													
1 PERSON	5 648	561	529	439	532	513	780	457	437	115	35	1 248	26
2 PERSONS	12 695	742	956	957	1 072	1 037	1 790	1 278	1 194	295	100	3 274	29
3 PERSONS	7 736	356	513	486	615	507	1 177	796	827	245	86	2 128	33
4 PERSONS	8 223	301	447	497	580	480	1 162	939	1 092	313	126	2 284	35
5 PERSONS	4 205	161	193	237	236	261	556	524	648	236	81	1 072	38
6 PERSONS	1 739	74	89	112	105	108	223	192	267	109	37	422	37
7 PERSONS OR MORE	1 090	44	43	79	83	58	130	107	175	81	45	244	38
MEDIAN	2.8	2.3	2.4	2.5	2.5	2.4	2.8	3.0	3.3	3.6	3.8	2.9	...
SPECIFIED OWNER OCCUPIED[2]	41 336	2 239	2 770	2 807	3 224	2 965	5 819	4 293	4 641	1 395	511	10 674	32
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	41 336	2 239	2 770	2 807	3 224	2 965	5 819	4 293	4 641	1 395	511	10 674	32
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	23 168	980	811	937	1 248	1 489	3 562	2 917	3 260	1 018	339	6 607	37
SOME WINDOWS COVERED	4 096	226	214	227	286	287	599	436	531	177	77	1 035	34
NO WINDOWS COVERED	13 914	1 018	1 731	1 632	1 675	1 178	1 638	923	831	196	87	3 005	23
NOT REPORTED	157	16	13	10	15	10	21	17	19	3	7	26	31
STORM DOORS													
ALL DOORS COVERED	22 398	960	806	957	1 295	1 504	3 598	2 961	3 194	981	288	5 855	37
SOME DOORS COVERED	5 261	227	264	281	422	440	712	523	625	214	112	1 441	33
NO DOORS COVERED	13 519	1 036	1 691	1 559	1 491	1 011	1 490	793	804	196	103	3 346	22
NOT REPORTED	158	16	9	10	16	10	20	16	19	3	7	31	31
ATTIC OR ROOF INSULATION													
YES	34 622	1 667	2 041	2 081	2 547	2 432	4 945	3 730	3 943	1 185	416	9 636	33
NO	5 248	470	584	598	519	416	672	434	516	168	73	799	26
DON'T KNOW	1 283	86	135	115	136	105	181	110	159	38	14	203	28
NOT REPORTED	183	16	9	14	21	12	22	20	23	3	7	36	31
SPECIFIED RENTER OCCUPIED[5]	26 550	3 702	2 266	1 555	1 287	836	1 420	839	820	269	135	13 418	17
HOUSE HEATING FUEL													
GAS	15 132	2 254	1 602	1 158	1 077	723	1 285	768	761	255	129	5 119	19
UTILITY GAS	14 364	2 178	1 543	1 102	996	659	1 181	708	675	225	101	4 996	18
BOTTLED, TANK, OR LP GAS	768	76	59	57	81	64	104	60	87	30	28	124	28
OTHER THAN GAS	11 087	1 404	650	384	201	109	123	63	57	14	7	8 075	11
FUEL OIL	5 428	1 127	546	305	150	89	83	42	39	10	7	3 030	11
KEROSENE, ETC	124	23	9	5	5	2	3	-	2	-	-	76	10
ELECTRICITY	5 093	191	68	54	37	12	29	15	14	3	-	4 668	11
COAL OR COKE	102	13	8	6	2	-	3	2	1	-	-	68	...
WOOD	260	40	15	13	8	7	5	4	2	1	-	165	12
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	80	8	3	-	-	-	-	-	-	-	-	68	...
NONE	331	45	15	13	9	4	12	8	2	-	-	224	12

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]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: 1979--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													
WATER HEATING FUEL[3]													
GAS	15 196	2 406	1 616	1 187	1 014	645	1 190	697	688	225	104	5 426	18
UTILITY GAS	14 623	2 342	1 575	1 134	950	610	1 109	659	640	207	92	5 304	18
BOTTLED, TANK, OR LP GAS	574	63	41	52	63	35	82	37	47	18	12	122	26
OTHER FUEL	10 951	1 250	613	351	245	178	210	130	126	40	31	7 776	12
NONE	36	-	1	-	2	1	2	1	-	-	-	30	...
COOKING FUEL													
GAS	15 218	3 120	1 861	1 210	946	603	1 020	617	605	214	91	4 929	16
UTILITY GAS	14 144	2 832	1 739	1 099	850	554	925	558	536	187	77	4 788	15
BOTTLED, TANK, OR LP GAS	1 073	289	122	111	96	49	95	59	70	27	14	141	17
OTHER FUEL	11 140	580	402	343	340	233	400	221	215	55	44	8 306	21
NONE	192	2	3	2	1	-	-	1	-	-	1	182	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	9 784	1 589	1 144	789	694	452	843	515	507	186	75	2 991	18
ALL OTHER FUEL COMBINATIONS OR NONE	16 765	2 114	1 122	766	593	384	577	324	314	83	60	10 428	14
HEATING EQUIPMENT													
WARM-AIR FURNACE	9 719	798	667	533	576	387	720	443	466	155	70	4 903	23
HEAT PUMP	186	18	2	-	1	-	-	-	-	-	-	166	...
STEAM OR HOT WATER	6 866	1 408	594	327	143	105	120	105	107	46	23	3 889	11
BUILT-IN ELECTRIC UNITS	2 685	112	28	23	11	10	11	6	1	-	-	2 484	10-
FLOOR, WALL, OR PIPELESS FURNACE	2 873	861	526	283	199	103	165	60	47	15	7	607	12
ROOM HEATERS WITH FLUE	1 956	200	191	166	175	107	219	132	134	36	19	575	23
ROOM HEATERS WITHOUT FLUE	1 274	162	196	171	153	100	142	78	53	14	14	190	20
FIREPLACES, STOVES, OR PORTABLE HEATERS	660	98	48	39	20	20	31	7	10	2	3	381	13
NONE	331	45	15	13	9	4	12	8	2	-	-	224	12
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	331	45	15	13	9	4	12	8	2	-	-	224	12
WITH HEATING EQUIPMENT	26 219	3 658	2 252	1 542	1 278	832	1 408	831	819	269	135	13 194	17
NO THERMOSTAT CONTROL	9 675	1 952	1 034	658	436	285	371	207	174	49	41	4 466	13
WITH THERMOSTAT CONTROL	16 477	1 702	1 200	880	838	544	1 036	622	644	220	92	8 699	21
NOT CLOCK OPERATED	14 531	1 478	1 028	766	726	471	947	558	569	182	78	7 728	21
CONSTANT TEMPERATURE SETTING MAINTAINED	5 529	627	370	269	261	155	375	176	233	64	37	2 962	20
TEMPERATURE SETTING IS CHANGED	8 704	806	627	483	448	313	556	380	331	115	40	4 606	21
OCCASIONALLY	2 826	245	184	152	134	81	172	132	118	37	12	1 558	22
REGULARLY	5 659	534	420	320	300	220	376	242	202	76	26	2 942	21
DON'T KNOW	208	25	23	11	11	9	8	6	11	2	2	101	17
NOT REPORTED	11	1	-	-	2	2	-	1	-	-	-	5	...
NOT REPORTED	298	45	31	14	17	3	16	2	6	4	-	161	13
CLOCK OPERATED	1 918	218	172	112	112	73	86	64	76	38	14	954	18
NOT REPORTED	28	6	-	3	-	-	3	-	-	-	-	17	...
NOT REPORTED	67	3	18	4	4	3	-	2	-	-	3	30	13
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	991	143	62	52	29	24	43	15	11	2	3	605	13
WITH SELECTED HEATING EQUIPMENT[4]	25 559	3 559	2 204	1 503	1 258	812	1 376	824	809	267	132	12 813	17
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 479	3 411	2 089	1 418	1 204	766	1 305	791	763	247	127	12 358	17
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	937	138	98	76	47	41	66	25	44	20	6	377	17
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	1	-
STOVE, BURNING WOOD OR COAL	110	15	11	7	2	3	10	5	8	-	1	48	18
FIREPLACE, BURNING WOOD OR COAL	12	-	2	2	1	2	-	-	-	-	2	4	...
PORTABLE ELECTRIC HEATER	648	102	67	57	32	27	39	18	27	9	2	270	16
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	73	5	15	5	10	6	9	1	2	7	-	14	22
OTHER	88	17	2	5	3	5	8	2	6	4	2	36	24
NOT REPORTED	16	2	2	2	-	-	-	1	2	-	-	8	...
NOT REPORTED	143	11	18	9	7	5	5	8	2	-	-	79	17
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	366	47	37	17	27	11	18	11	6	5	1	187	16
WITH HOT PIPED WATER	26 183	3 655	2 230	1 538	1 260	825	1 402	828	814	265	135	13 232	17
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 332	3 552	2 156	1 491	1 213	810	1 366	796	784	252	126	12 787	17
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	98	16	11	5	6	5	5	5	4	4	-	36	18
NOT REPORTED	715	88	61	42	40	9	29	27	26	9	9	376	17
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	12 378	1 419	883	600	549	354	611	317	298	81	40	7 226	17
ROOM UNITS	7 483	1 137	645	428	363	260	460	246	209	64	29	3 642	16
1	5 792	899	493	324	286	180	349	179	131	40	23	2 889	16
2	1 402	204	135	85	62	68	93	60	62	19	3	611	18
3	236	29	16	14	12	11	16	6	11	2	2	117	20
4	35	3	2	4	2	1	-	2	2	2	-	17	...
5 OR MORE	19	2	-	2	-	-	2	-	3	-	2	9	...
CENTRAL SYSTEM	4 894	282	237	172	186	94	151	71	89	17	11	3 584	18
WITH NO AIR CONDITIONING	14 172	2 283	1 384	955	738	482	808	522	523	189	96	6 192	16

[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]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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	9 643	1 529	670	402	322	227	375	165	158	37	32	5 726	13
2 PERSONS	7 767	1 178	721	454	361	225	370	216	202	56	25	3 939	15
3 PERSONS	4 209	512	398	296	239	179	285	168	177	64	20	1 870	19
4 PERSONS	2 642	285	260	206	173	112	246	152	126	38	30	1 015	21
5 PERSONS	1 258	113	128	95	78	52	84	75	86	35	15	497	22
6 PERSONS	565	52	53	48	52	29	31	33	34	23	2	207	22
7 PERSONS OR MORE	466	32	36	54	43	11	29	29	38	17	12	166	23
MEDIAN	2.0	1.8	2.1	2.3	2.3	2.3	2.4	2.7	2.8	3.2	3.0	1.7	...
SPECIFIED RENTER OCCUPIED[2]	26 550	3 702	2 266	1 555	1 287	836	1 420	839	820	269	135	13 418	17
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 450	907	871	703	745	424	827	497	490	170	94	2 722	22
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	2 538	190	174	127	168	144	276	201	204	73	42	940	29
SOME WINDOWS COVERED	931	68	42	57	81	40	116	63	110	41	15	298	32
NO WINDOWS COVERED	4 569	591	617	490	469	229	416	218	163	54	35	1 287	19
NOT REPORTED	411	58	38	29	28	11	20	15	12	2	2	197	16
STORM DOORS													
ALL DOORS COVERED	2 358	148	124	114	142	135	292	203	210	77	34	880	32
SOME DOORS COVERED	859	52	53	63	78	51	107	70	88	27	16	254	30
NO DOORS COVERED	4 822	649	656	498	497	227	409	209	180	64	42	1 392	18
NOT REPORTED	411	58	38	29	29	11	20	15	12	2	2	196	17
ATTIC OR ROOF INSULATION													
YES	3 624	305	299	272	292	175	397	212	232	77	36	1 326	24
NO	2 403	291	274	222	229	149	212	164	130	58	33	641	22
DON'T KNOW	1 997	250	255	179	195	86	196	106	116	33	23	555	21
NOT REPORTED	427	60	42	30	28	14	22	15	13	2	2	200	17

[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: 1979

(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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	41 336	1 296	860	710	1 034	1 085	1 034	1 071	761	2 129	31 358	500
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	8 263	239	360	509	890	984	935	966	692	1 983	706	584
FUEL OIL	7 486	190	274	422	798	927	892	939	677	1 960	407	604
COAL OR COKE	159	5	15	26	34	22	19	12	6	5	15	375
KEROSENE, ETC	166	12	23	28	32	21	14	13	7	5	12	345
WOOD	452	31	48	32	27	15	10	3	2	13	271	234
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	32 892	1 058	500	201	143	101	98	104	69	144	30 473	130
UTILITY GAS	25 172	769	336	130	89	69	70	69	47	108	23 491	121
BOTTLED, TANK, OR LP GAS	1 567	50	46	18	15	10	6	7	6	11	1 398	174
ELECTRICITY	6 143	239	118	53	39	27	23	28	16	25	5 575	138
SOLAR HEAT	2	-	-	-	-	-	-	-	-	-	2	-
OTHER FUEL	8	-	-	1	-	-	-	-	-	1	6	...
NONE	181	-	-	-	1	-	-	-	-	2	179	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	25 342	829	445	401	654	694	584	508	319	649	20 259	430
HEAT PUMP	957	54	14	6	7	2	4	4	3	2	862	100-
STEAM OR HOT WATER	5 284	103	65	56	138	246	322	468	396	1 384	2 106	748
BUILT-IN ELECTRIC UNITS	2 463	80	55	22	14	16	13	11	6	17	2 229	167
FLOOR, WALL, OR PIPELESS FURNACE	2 909	56	63	42	40	30	29	12	7	13	2 617	263
ROOM HEATERS WITH FLUE	1 683	70	93	86	121	65	58	53	23	38	1 076	345
ROOM HEATERS WITHOUT FLUE	1 383	30	25	10	6	3	1	-	1	2	1 307	132
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 133	75	101	87	55	29	22	15	6	22	723	234
NONE	181	-	-	-	1	-	-	-	-	2	179	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	181	-	-	-	1	-	-	-	-	2	179	...
WITH HEATING EQUIPMENT	41 155	1 296	860	710	1 033	1 085	1 034	1 071	761	2 127	31 179	500
NO THERMOSTAT CONTROL	3 979	134	175	134	125	84	64	49	23	26	3 165	272
WITH THERMOSTAT CONTROL	37 061	1 156	681	574	907	997	966	1 019	736	2 095	27 929	526
NOT CLOCK OPERATED	32 218	994	581	507	824	893	846	905	650	1 784	24 235	523
CONSTANT TEMPERATURE SETTING MAINTAINED	11 627	300	220	167	286	294	294	311	204	590	8 961	522
TEMPERATURE SETTING IS CHANGED	20 423	691	356	334	535	599	549	592	445	1 187	15 137	523
OCCASIONALLY	5 427	169	89	88	126	127	130	120	107	288	4 182	517
REGULARLY	14 793	520	264	243	403	471	415	470	334	891	10 781	525
DON'T KNOW	170	1	3	2	5	-	3	1	4	8	144	...
NOT REPORTED	32	-	-	-	1	-	1	2	-	-	29	...
NOT REPORTED	168	4	5	7	2	-	3	2	1	7	138	...
CLOCK OPERATED	4 824	162	99	67	83	104	119	113	87	311	3 678	547
NOT REPORTED	19	-	1	-	-	-	1	2	-	-	15	...
NOT REPORTED	115	6	4	2	1	4	3	2	2	6	85	...
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	175	219	182	182	97	81	68	30	63	3 284	284
WITH SELECTED HEATING EQUIPMENT[2]	36 956	1 121	642	527	852	988	952	1 003	731	2 065	28 074	532
LESS THAN 4 YEARS	6 606	247	139	91	109	129	163	145	81	283	5 220	483
4 TO 9 YEARS	9 079	293	161	127	186	175	180	172	115	305	7 366	451
10 TO 19 YEARS	11 254	356	210	167	254	308	296	299	199	541	8 625	507
20 TO 39 YEARS	7 470	170	102	99	251	302	236	308	274	727	5 001	624
40 YEARS OR MORE	639	10	6	13	12	18	30	23	23	98	407	722
DON'T KNOW	1 655	36	20	29	35	49	39	46	35	99	1 266	565
NOT REPORTED	252	10	4	3	5	7	9	8	5	11	190	530
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	175	219	182	182	97	81	68	30	63	3 284	284
WITH SELECTED HEATING EQUIPMENT[2]	36 956	1 121	642	527	852	988	952	1 003	731	2 065	28 074	532
NO MAINTENANCE OR MODIFICATION	28 199	815	474	386	562	578	568	557	404	1 033	22 824	477
WITH MAINTENANCE OR MODIFICATION	8 513	295	165	139	288	403	379	437	322	1 022	5 063	613
NOT REPORTED	243	11	3	3	2	7	5	9	5	11	187	543
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 381	175	219	182	182	97	81	68	30	63	3 284	284
WITH SELECTED HEATING EQUIPMENT[2]	36 956	1 121	642	527	852	988	952	1 003	731	2 065	28 074	532
NO MAINTENANCE CONTRACT	31 968	996	567	450	666	708	657	616	389	989	25 930	448
WITH MAINTENANCE CONTRACT	4 732	113	68	75	184	272	287	378	337	1 062	1 956	703
NOT REPORTED	256	12	7	3	2	8	7	9	5	15	187	528
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	252	24	22	21	18	7	10	9	4	3	135	260
WITH HOT PIPED WATER	41 083	1 273	838	688	1 016	1 078	1 024	1 061	757	2 126	31 223	504
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	39 982	1 251	811	664	996	1 041	991	1 037	740	2 052	30 400	503
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	222	3	5	2	6	2	3	3	3	22	173	694
NOT REPORTED	841	15	19	23	14	34	30	21	13	52	620	518
NOT REPORTED	1	-	-	1	-	-	-	-	-	-	-	...
AIR CONDITIONING												
WITH AIR CONDITIONING	29 638	830	476	346	443	501	464	468	364	1 059	19 687	475
ROOM UNITS	12 303	288	227	213	288	349	339	365	286	899	9 049	577
1	7 228	160	136	145	194	224	198	203	174	397	5 397	528
2	3 628	79	66	56	70	74	110	111	74	324	2 664	624
3	1 027	31	17	8	21	43	24	34	30	111	708	647
4	296	9	8	-	1	8	7	10	3	36	214	683
5 OR MORE	124	8	-	3	2	1	1	7	5	30	66	800+
CENTRAL SYSTEM	12 335	542	249	133	155	152	125	103	78	160	10 638	243
WITH NO AIR CONDITIONING	16 698	467	384	364	590	584	569	603	397	1 070	11 671	522

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
PERSONS												
1 PERSON	5 648	145	119	110	175	198	151	150	108	223	4 268	470
2 PERSONS	12 695	385	273	231	365	371	339	329	240	580	9 582	481
3 PERSONS	7 736	248	172	130	198	199	199	190	137	404	5 859	495
4 PERSONS	8 223	285	170	140	154	183	186	207	144	444	6 311	513
5 PERSONS	4 205	153	77	51	80	80	95	126	77	271	3 194	566
6 PERSONS	1 739	53	25	21	41	30	35	42	32	123	1 336	588
7 PERSONS OR MORE	1 090	26	23	27	22	23	28	27	23	83	807	570
MEDIAN	2.8	3.0	2.7	2.6	2.4	2.4	2.6	2.8	2.7	3.1	2.8	...
SPECIFIED OWNER OCCUPIED[1]	41 336	1 296	860	710	1 034	1 085	1 034	1 071	761	2 129	31 358	500
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	41 336	1 296	860	710	1 034	1 085	1 034	1 071	761	2 129	31 358	500
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	23 168	665	392	381	642	798	785	820	600	1 718	16 367	566
SOME WINDOWS COVERED	4 096	138	86	97	143	138	148	146	88	277	2 834	519
NO WINDOWS COVERED	13 914	493	378	232	248	142	99	104	68	119	12 032	230
NOT REPORTED	157	-	3	-	1	7	2	-	5	15	125	...
STORM DOORS												
ALL DOORS COVERED	22 398	598	352	364	663	786	774	831	616	1 675	15 739	572
SOME DOORS COVERED	5 261	183	120	127	171	150	141	140	88	253	3 890	456
NO DOORS COVERED	13 519	516	384	219	199	143	118	100	52	186	11 603	226
NOT REPORTED	158	-	4	-	1	7	2	-	5	15	125	...
ATTIC OR ROOF INSULATION												
YES	34 622	1 134	719	587	864	931	859	930	652	1 825	26 121	502
NO	5 248	127	114	108	148	120	134	116	80	232	4 069	476
DON'T KNOW	1 283	32	23	13	20	29	39	25	24	55	1 023	533
NOT REPORTED	183	4	4	1	2	5	2	-	5	16	144	741
SPECIFIED RENTER OCCUPIED[2]	26 550	313	212	223	286	214	202	201	102	360	24 435	411
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	5 914	107	125	180	239	192	183	184	92	324	4 287	483
FUEL OIL	5 428	57	79	115	188	170	169	163	86	307	4 095	534
COAL OR COKE	102	6	8	24	6	8	3	6	3	3	36	283
KEROSENE, ETC	124	7	13	19	32	7	5	13	2	6	19	342
WOOD	260	38	26	23	13	7	5	2	1	8	137	191
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	20 304	206	87	41	46	22	20	16	10	36	19 820	141
UTILITY GAS	14 364	148	41	23	31	18	17	12	10	19	14 046	127
BOTTLED, TANK, OR LP GAS	768	15	19	9	6	4	-	2	-	13	699	207
ELECTRICITY	5 093	42	27	9	9	1	2	2	-	4	4 996	123
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	80	1	-	-	-	-	-	-	-	-	79	...
NONE	331	-	-	1	-	-	-	1	-	-	329	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	9 719	106	74	75	117	119	87	82	43	122	8 892	434
HEAT PUMP	186	5	2	-	-	-	-	1	-	1	177	...
STEAM OR HOT WATER	6 866	30	8	15	35	41	61	72	47	176	6 382	672
BUILT-IN ELECTRIC UNITS	2 685	21	19	3	5	-	2	1	-	2	2 632	130
FLOOR, WALL, OR PIPELESS FURNACE	2 873	23	11	15	23	11	6	6	2	9	2 765	321
ROOM HEATERS WITH FLUE	1 956	37	46	56	79	28	30	33	6	36	1 604	346
ROOM HEATERS WITHOUT FLUE	1 274	25	7	11	3	5	2	1	4	2	1 215	159
FIREPLACES, STOVES, OR PORTABLE HEATERS	660	67	44	46	22	11	14	4	1	12	440	196
NONE	331	-	-	1	-	-	-	1	-	-	329	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	331	-	-	1	-	-	-	1	-	-	329	...
WITH HEATING EQUIPMENT	26 219	313	212	222	286	214	202	200	102	360	24 107	411
NO THERMOSTAT CONTROL	9 675	132	89	112	97	44	40	33	12	48	9 069	273
WITH THERMOSTAT CONTROL	16 477	179	122	109	187	170	162	167	90	313	14 978	489
NOT CLOCK OPERATED	14 531	157	107	100	170	142	148	159	77	282	13 189	495
CONSTANT TEMPERATURE SETTING MAINTAINED	5 529	60	29	38	71	58	50	52	29	93	5 048	472
TEMPERATURE SETTING IS CHANGED	8 704	94	76	61	98	84	94	103	46	187	7 862	509
OCCASIONALLY	2 826	36	28	22	17	19	16	28	10	46	2 604	443
REGULARLY	5 659	58	45	39	78	63	75	72	34	138	5 058	525
DON'T KNOW	208	-	2	-	3	2	3	2	2	3	192	...
NOT REPORTED	11	-	2	-	1	-	-	-	-	1	8	...
NOT REPORTED	298	3	2	1	1	-	4	4	2	2	279	...
CLOCK OPERATED	1 918	22	14	9	17	28	14	8	13	31	1 761	458
NOT REPORTED	28	-	1	-	-	-	-	-	-	-	28	...
NOT REPORTED	67	3	2	1	2	-	-	-	-	-	60	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	366	35	31	37	19	9	4	2	1	8	222	218
WITH HOT PIPED WATER	26 183	279	181	186	267	206	199	198	101	353	24 213	435
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 332	266	173	182	261	201	194	195	101	348	23 410	439
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	98	-	-	-	2	-	1	2	-	1	92	...
NOT REPORTED	715	12	8	4	3	4	4	2	-	3	674	204
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-

[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.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	12 378	105	54	57	81	58	64	74	25	124	11 736	441
ROOM UNITS	7 483	64	44	50	73	54	59	66	23	113	6 937	478
1	5 792	46	34	40	51	46	46	49	17	83	5 381	474
2	1 402	15	8	8	18	6	9	14	6	23	1 295	473
3	236	2	2	-	5	2	-	3	-	7	216	...
4	35	-	-	-	-	-	5	-	-	1	29	...
5 OR MORE	19	-	-	2	-	-	-	-	-	-	17	...
CENTRAL SYSTEM	4 894	41	10	7	8	4	5	8	2	10	4 799	164
WITH NO AIR CONDITIONING	14 172	208	158	166	204	157	138	127	77	237	12 699	399
PERSONS												
1 PERSON	9 643	104	58	55	71	41	40	26	15	40	9 193	311
2 PERSONS	7 767	87	51	54	84	66	56	54	34	114	7 167	437
3 PERSONS	4 209	50	42	54	53	48	38	42	18	76	3 790	423
4 PERSONS	2 642	40	28	35	46	31	33	41	13	68	2 308	459
5 PERSONS	1 258	16	22	9	10	15	16	17	7	36	1 110	510
6 PERSONS	565	9	7	8	17	10	14	10	10	17	463	495
7 PERSONS OR MORE	466	7	4	9	5	4	6	11	5	10	405	527
MEDIAN	2.0	2.1	2.4	2.5	2.3	2.5	2.6	3.0	2.6	2.8	1.9	...
SPECIFIED RENTER OCCUPIED[1]	26 550	313	212	223	286	214	202	201	102	360	24 435	411
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 450	199	177	172	213	168	148	149	59	232	6 933	398
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	2 538	52	45	49	85	83	75	58	27	146	1 919	494
SOME WINDOWS COVERED	931	18	13	19	34	39	29	30	18	51	681	509
NO WINDOWS COVERED	4 569	124	115	104	93	44	38	58	15	33	3 946	269
NOT REPORTED	411	5	4	-	2	2	6	2	-	2	387	...
STORM DOORS												
ALL DOORS COVERED	2 358	40	36	47	75	80	72	75	33	138	1 763	528
SOME DOORS COVERED	859	20	17	25	26	26	26	20	5	34	662	445
NO DOORS COVERED	4 822	134	121	100	111	61	42	52	22	58	4 122	294
NOT REPORTED	411	5	4	-	2	2	7	2	-	2	387	...
ATTIC OR ROOF INSULATION												
YES	3 624	72	90	68	91	82	82	85	21	119	2 914	440
NO	2 403	78	60	69	82	45	35	43	25	67	1 898	354
DON'T KNOW	1 997	43	23	34	37	40	25	19	14	44	1 719	405
NOT REPORTED	427	5	4	-	3	2	6	2	-	2	402	...

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

TABLE A-11. HOUSEHOLD HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1979

(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	HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE OR MOTOR-CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME OR NOT REPORTED
HOUSING UNITS WITH EMPLOYED HEADS[1]	54 104	37 129	9 240	3 145	684	73	2 117	256	1 461
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	36 032	26 181	6 217	1 211	375	12	780	182	1 075
LESS THAN 1 MILE	2 284	1 394	182	8	41	-	640	14	5
1 TO 4 MILES	7 434	6 096	835	193	145	7	109	40	10
5 TO 9 MILES	6 848	5 452	1 058	226	88	2	2	12	7
10 TO 19 MILES	7 776	5 760	1 641	284	60	-	-	17	13
20 TO 29 MILES	3 098	1 945	928	187	23	-	-	14	2
30 TO 49 MILES	1 897	1 049	696	134	3	-	-	11	3
50 MILES OR MORE	547	268	215	56	-	-	-	8	1
WORKS AT HOME	953	-	-	-	-	-	-	-	953
NO FIXED PLACE OF WORK	4 578	3 828	599	57	10	4	22	51	8
NOT REPORTED	617	391	63	66	4	-	7	13	73
MEDIAN	8.8	8.2	14.3	14.1	4.8	...	1.0-	6.8	9.1
RENTER OCCUPIED	18 073	10 948	3 023	1 935	309	62	1 337	74	386
LESS THAN 1 MILE	2 092	784	134	54	37	11	1 049	13	12
1 TO 4 MILES	4 789	3 056	681	588	154	33	237	23	17
5 TO 9 MILES	3 666	2 469	621	502	51	7	5	5	7
10 TO 19 MILES	3 360	2 269	660	386	32	3	-	7	3
20 TO 29 MILES	1 031	619	269	133	6	-	-	5	-
30 TO 49 MILES	509	290	172	41	5	-	-	-	1
50 MILES OR MORE	155	72	61	18	1	-	-	2	-
WORKS AT HOME	308	-	-	-	-	-	-	-	308
NO FIXED PLACE OF WORK	1 738	1 195	348	104	22	8	39	17	5
NOT REPORTED	425	194	76	110	-	-	8	4	34
MEDIAN	6.3	6.9	8.9	7.2	3.8	3.0	1.0-	3.5	2.9
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	36 032	26 181	6 217	1 211	375	12	780	182	1 075
LESS THAN 15 MINUTES	10 520	8 536	1 117	38	158	5	612	41	13
15 TO 29 MINUTES	11 114	8 639	1 991	197	145	2	103	27	11
30 TO 44 MINUTES	5 000	3 306	1 336	267	41	2	29	6	12
45 TO 59 MINUTES	1 831	982	606	217	15	-	-	7	4
1 HOUR TO 1 HOUR AND 29 MINUTES	1 297	532	441	293	3	-	3	25	-
1 HOUR AND 30 MINUTES OR MORE	398	160	96	131	4	-	-	7	1
WORKS AT HOME	953	-	-	-	-	-	-	-	953
NO FIXED PLACE OF WORK	4 578	3 828	599	57	10	4	22	51	8
NOT REPORTED	342	199	30	11	-	-	11	17	73
MEDIAN	21.1	19.4	27.6	49.7	17.5	...	15.0-	23.4	25.0
RENTER OCCUPIED	18 073	10 948	3 023	1 935	309	62	1 337	74	386
LESS THAN 15 MINUTES	6 209	4 161	759	129	159	31	923	30	17
15 TO 29 MINUTES	5 676	3 787	1 059	426	80	19	280	11	14
30 TO 44 MINUTES	2 380	1 247	526	511	28	3	61	4	-
45 TO 59 MINUTES	807	292	166	320	8	-	15	2	3
1 HOUR TO 1 HOUR AND 29 MINUTES	614	144	113	333	8	-	6	6	4
1 HOUR AND 30 MINUTES OR MORE	195	43	39	104	5	-	-	2	3
WORKS AT HOME	308	-	-	-	-	-	-	-	308
NO FIXED PLACE OF WORK	1 738	1 195	348	104	22	8	39	17	5
NOT REPORTED	145	77	13	7	-	-	13	3	32
MEDIAN	19.5	17.6	23.0	40.4	15.0-	15.0-	15.0-	15.0-	19.1

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

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979

(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	17 123	13 508	5 887	7 621	3 614
HOUSE HEATING FUEL					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
UTILITY GAS	4 162	3 386	1 199	2 187	775
BOTTLED, TANK, OR LP GAS	81	46	2	44	35
FUEL OIL	5 116	3 714	960	2 754	1 401
KEROSENE, ETC	94	31	-	31	63
ELECTRICITY	600	358	53	305	242
COAL OR COKE	101	64	19	46	37
WOOD	96	14	-	14	82
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	2	2	2	-	-
NONE	5	3	1	2	3
RENTER OCCUPIED	6 867	5 890	3 652	2 239	977
UTILITY GAS	2 396	2 086	1 262	824	310
BOTTLED, TANK, OR LP GAS	41	16	5	11	25
FUEL OIL	3 812	3 331	2 202	1 129	481
KEROSENE, ETC	36	13	2	11	23
ELECTRICITY	509	401	161	239	109
COAL OR COKE	32	24	6	17	8
WOOD	24	7	-	7	17
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	13	10	10	-	3
NONE	4	3	3	-	1
WATER HEATING FUEL					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
NO HOT PIPED WATER	30	7	1	7	23
WITH HOT PIPED WATER	10 225	7 611	2 235	5 376	2 615
FUEL USED:					
UTILITY GAS	4 628	3 898	1 432	2 465	730
BOTTLED, TANK, OR LP GAS	250	107	3	103	143
FUEL OIL	3 019	2 342	638	1 704	677
KEROSENE, ETC	8	1	-	1	7
ELECTRICITY	2 279	1 252	159	1 092	1 027
COAL OR COKE	22	8	-	8	14
WOOD	16	2	-	2	14
SOLAR HEAT	2	1	-	1	2
OTHER FUEL	-	-	-	-	-
NONE	2	2	2	-	-
NOT REPORTED	1	-	-	-	1
RENTER OCCUPIED	6 867	5 890	3 652	2 239	977
NO HOT PIPED WATER	49	37	23	15	12
WITH HOT PIPED WATER	6 818	5 853	3 629	2 224	965
FUEL USED:					
UTILITY GAS	2 683	2 370	1 378	993	313
BOTTLED, TANK, OR LP GAS	79	25	2	23	54
FUEL OIL	3 112	2 838	2 060	778	274
KEROSENE, ETC	1	-	-	-	1
ELECTRICITY	899	583	161	422	317
COAL OR COKE	14	10	8	2	4
WOOD	1	-	-	-	1
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	25	23	18	5	2
NONE	4	4	3	1	-
NOT REPORTED	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
UTILITY GAS	4 434	3 837	1 679	2 157	598
BOTTLED, TANK, OR LP GAS	812	367	14	353	445
FUEL OIL	21	16	5	10	6
KEROSENE, ETC	6	2	-	2	4
ELECTRICITY	4 952	3 394	537	2 857	1 558
COAL OR COKE	5	2	-	2	3
WOOD	23	2	-	2	21
OTHER FUEL	-	-	-	-	-
NONE	2	-	-	-	2
RENTER OCCUPIED	6 867	5 890	3 652	2 239	977
UTILITY GAS	4 728	4 371	3 109	1 262	358
BOTTLED, TANK, OR LP GAS	241	100	8	92	141
FUEL OIL	15	13	10	3	2
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	1 800	1 336	466	870	464
COAL OR COKE	2	-	-	-	2
WOOD	2	-	-	-	2
OTHER FUEL	4	3	3	-	1
NONE	75	67	55	12	8

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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]	8 208	6 170	1 493	4 677	2 038
LESS THAN $10	86	60	20	40	27
$10 TO $19	882	648	231	416	234
$20 TO $29	1 684	1 371	379	993	512
$30 TO $39	1 949	1 434	378	1 057	515
$40 TO $49	1 163	889	186	703	274
$50 TO $59	819	647	107	540	172
$60 TO $79	758	601	112	489	157
$80 TO $99	278	212	44	168	65
$100 TO $149	302	241	24	217	61
$150 OR MORE	82	63	11	52	19
NO ELECTRICITY USED	6	3	2	2	2
MEDIAN	36	36	33	38	34
SPECIFIED RENTER OCCUPIED[2]	6 821	5 871	3 650	2 221	950
LESS THAN $10	318	272	161	111	46
$10 TO $19	1 748	1 535	939	596	213
$20 TO $29	1 547	1 321	807	515	226
$30 TO $39	801	675	379	296	126
$40 TO $49	379	338	202	137	40
$50 TO $59	153	129	58	71	23
$60 TO $79	132	109	51	58	23
$80 TO $99	35	30	12	18	5
$100 TO $149	32	27	13	14	4
$150 OR MORE	12	11	5	6	1
INCLUDED IN RENT	1 651	1 411	1 013	398	241
NO ELECTRICITY USED	14	12	10	2	2
MEDIAN	23	23	22	24	24
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	8 208	6 170	1 493	4 677	2 038
LESS THAN $10	606	423	105	318	183
$10 TO $14	415	324	86	238	91
$15 TO $19	325	245	74	170	80
$20 TO $24	365	291	103	188	74
$25 TO $29	334	279	99	180	55
$30 TO $39	676	558	172	386	119
$40 TO $49	720	568	135	433	152
$50 TO $69	1 164	944	270	674	221
$70 TO $99	541	452	152	299	89
$100 OR MORE	221	202	66	136	19
NO GAS USED	2 841	1 885	231	1 654	956
MEDIAN	38	40	39	41	34
SPECIFIED RENTER OCCUPIED[2]	6 821	5 871	3 650	2 221	950
LESS THAN $10	1 206	1 100	787	313	106
$10 TO $14	656	621	475	145	35
$15 TO $19	378	353	238	115	25
$20 TO $24	253	206	120	86	47
$25 TO $29	171	155	101	54	16
$30 TO $39	295	243	148	96	52
$40 TO $49	204	164	84	80	41
$50 TO $69	239	203	124	79	36
$70 TO $99	105	88	56	31	17
$100 OR MORE	31	22	15	6	9
INCLUDED IN RENT	2 244	1 984	1 265	719	260
NO GAS USED	1 038	732	236	496	306
MEDIAN	13	13	12	17	22
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	8 208	6 170	1 493	4 677	2 038
LESS THAN $100	120	77	14	63	43
$100 TO $199	113	75	13	62	38
$200 TO $299	151	81	22	60	70
$300 TO $399	318	181	28	153	136
$400 TO $499	441	282	35	247	158
$500 TO $599	509	342	75	267	166
$600 TO $699	621	424	75	349	197
$700 TO $799	521	391	57	334	131
$800 OR MORE	1 691	1 343	269	1 074	348
FUELS NOT USED OR FREE	3 723	2 973	906	2 068	750
MEDIAN	694	734	756	731	616

[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: 1979--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.--CONTINUED					
SPECIFIED RENTER OCCUPIED[1]	6 821	5 871	3 650	2 221	950
LESS THAN $100	37	26	10	15	11
$100 TO $199	28	20	3	17	8
$200 TO $299	48	19	5	14	29
$300 TO $399	84	59	26	33	26
$400 TO $499	91	60	22	38	31
$500 TO $599	99	55	21	35	44
$600 TO $699	95	66	22	43	29
$700 TO $799	64	46	24	22	19
$800 OR MORE	221	167	50	118	53
INCLUDED IN RENT	3 444	3 118	2 171	947	326
FUELS NOT USED OR FREE	2 610	2 235	1 295	939	375
MEDIAN	596	630	619	636	546
ALL OCCUPIED HOUSING UNITS	17 123	13 508	5 887	7 621	3 614
HEATING EQUIPMENT					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
WARM-AIR FURNACE	4 439	3 170	809	2 361	1 268
HEAT PUMP	48	39	2	37	9
STEAM OR HOT WATER	4 776	3 903	1 299	2 604	873
BUILT-IN ELECTRIC UNITS	474	265	38	227	209
FLOOR, WALL, OR PIPELESS FURNACE	101	49	10	39	52
ROOM HEATERS WITH FLUE	185	127	65	62	57
ROOM HEATERS WITHOUT FLUE	14	9	-	9	5
FIREPLACES, STOVES, OR PORTABLE HEATERS	214	53	10	43	161
NONE	5	3	1	2	3
RENTER OCCUPIED	6 867	5 890	3 652	2 239	977
WARM-AIR FURNACE	1 536	1 217	557	660	318
HEAT PUMP	9	7	5	2	2
STEAM OR HOT WATER	4 337	3 934	2 703	1 231	403
BUILT-IN ELECTRIC UNITS	442	343	143	200	99
FLOOR, WALL, OR PIPELESS FURNACE	48	25	2	23	24
ROOM HEATERS WITH FLUE	388	305	212	94	82
ROOM HEATERS WITHOUT FLUE	43	31	15	15	12
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	25	12	13	35
NONE	4	3	3	-	1
THERMOSTAT CONTROLLED HEATING EQUIPMENT					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
NO HEATING EQUIPMENT	5	3	1	2	3
WITH HEATING EQUIPMENT	10 250	7 615	2 235	5 381	2 635
NO THERMOSTAT CONTROL	437	289	201	87	149
WITH THERMOSTAT CONTROL	9 786	7 307	2 026	5 282	2 479
NOT CLOCK OPERATED	8 424	6 135	1 526	4 609	2 289
CONSTANT TEMPERATURE SETTING MAINTAINED	2 996	2 181	609	1 571	815
TEMPERATURE SETTING IS CHANGED	5 392	3 925	909	3 016	1 467
OCCASIONALLY	1 376	1 053	277	776	324
REGULARLY	3 982	2 843	614	2 228	1 139
DON'T KNOW	30	27	18	9	2
NOT REPORTED	4	3	-	3	2
NOT REPORTED	36	29	7	21	8
CLOCK OPERATED	1 352	1 163	497	666	189
NOT REPORTED	10	10	4	6	1
NOT REPORTED	27	19	7	12	8
RENTER OCCUPIED	6 867	5 890	3 652	2 239	977
NO HEATING EQUIPMENT	4	3	3	-	1
WITH HEATING EQUIPMENT	6 863	5 887	3 648	2 239	976
NO THERMOSTAT CONTROL	3 530	3 262	2 601	661	268
WITH THERMOSTAT CONTROL	3 321	2 615	1 040	1 575	706
NOT CLOCK OPERATED	2 951	2 298	867	1 431	653
CONSTANT TEMPERATURE SETTING MAINTAINED	1 071	849	313	536	222
TEMPERATURE SETTING IS CHANGED	1 823	1 400	539	862	422
OCCASIONALLY	602	488	206	282	114
REGULARLY	1 195	889	319	570	307
DON'T KNOW	25	24	14	10	2
NOT REPORTED	-	-	-	-	-
NOT REPORTED	58	49	15	34	9
CLOCK OPERATED	361	309	168	141	52
NOT REPORTED	8	8	5	3	-
NOT REPORTED	12	10	7	3	2

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

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	17 123	13 508	5 887	7 621	3 614
UNITS OCCUPIED LAST WINTER	15 173	11 961	5 141	6 820	3 212
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	9 755	7 252	2 148	5 104	2 503
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	7 189	2 137	5 052	2 342
NO ADDITIONAL HEAT SOURCE USED	8 765	6 618	1 943	4 675	2 147
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	614	466	161	305	147
NOT REPORTED	152	105	33	72	47
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	63	11	52	161
RENTER OCCUPIED	5 418	4 709	2 993	1 716	709
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	4 664	2 969	1 695	677
NO ADDITIONAL HEAT SOURCE USED	4 243	3 707	2 285	1 421	536
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	969	853	610	243	117
NOT REPORTED	129	104	74	31	24
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	45	24	21	32
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	9 755	7 252	2 148	5 104	2 503
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	7 189	2 137	5 052	2 342
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 251	6 434	1 865	4 569	1 817
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 131	654	243	411	478
1 ROOM	473	317	121	196	156
2 ROOMS	269	158	66	92	111
3 ROOMS OR MORE	390	179	55	123	211
NOT REPORTED	148	101	29	72	47
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	63	11	52	161
RENTER OCCUPIED	5 418	4 709	2 993	1 716	709
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	4 664	2 969	1 695	677
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 555	4 061	2 540	1 521	494
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	656	500	355	145	156
1 ROOM	278	220	158	62	59
2 ROOMS	181	132	98	34	49
3 ROOMS OR MORE	197	148	99	49	49
NOT REPORTED	129	103	73	29	27
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	45	24	21	32
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	9 755	7 252	2 148	5 104	2 503
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	7 189	2 137	5 052	2 342
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	63	11	52	161
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	191	48	10	38	143
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	5	-	5	12
NOT REPORTED	17	10	1	9	7
RENTER OCCUPIED	5 418	4 709	2 993	1 716	709
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	4 664	2 969	1 695	677
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	45	24	21	32
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	20	3	17	24
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	21	15	14	2	6
NOT REPORTED	11	9	7	2	2

[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: 1979--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	17 123	13 508	5 887	7 621	3 614
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	220	55	11	44	164
WITH SELECTED HEATING EQUIPMENT[1]	10 036	7 562	2 224	5 338	2 474
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 309	7 103	2 143	4 960	2 207
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	690	432	74	358	258
SOLAR HEATING EQUIPMENT	5	3	-	3	2
STOVE, BURNING WOOD OR COAL	386	213	25	187	173
FIREPLACE, BURNING WOOD OR COAL	75	40	7	33	35
PORTABLE ELECTRIC HEATER	107	94	28	67	13
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	4	-	4	6
OTHER	105	75	12	63	30
NOT REPORTED	7	5	2	3	2
NOT REPORTED	36	28	7	21	9
RENTER OCCUPIED	6 867	5 890	3 652	2 239	977
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	64	28	15	13	36
WITH SELECTED HEATING EQUIPMENT[1]	6 803	5 862	3 636	2 226	941
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 407	5 518	3 379	2 140	889
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	320	249	71	46
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	34	16	7	10	18
FIREPLACE, BURNING WOOD OR COAL	3	3	2	2	-
PORTABLE ELECTRIC HEATER	276	248	194	55	27
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	18	18	1	1
OTHER	29	29	24	5	1
NOT REPORTED	7	7	5	2	-
NOT REPORTED	29	24	9	15	6
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	192	76	116	226
WITH SELECTED HEATING EQUIPMENT[2]	9 838	7 426	2 159	5 267	2 412
LESS THAN 4 YEARS	1 301	939	215	724	362
4 TO 9 YEARS	1 939	1 268	288	980	671
10 TO 19 YEARS	3 063	2 306	696	1 610	757
20 TO 39 YEARS	2 623	2 132	586	1 546	491
40 YEARS OR MORE	290	236	90	146	54
DON'T KNOW	539	475	253	223	64
NOT REPORTED	83	70	32	38	13
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	192	76	116	226
WITH SELECTED HEATING EQUIPMENT[2]	9 838	7 426	2 159	5 267	2 412
NO MAINTENANCE OR MODIFICATION	6 266	4 681	1 429	3 252	1 585
WITH MAINTENANCE OR MODIFICATION	3 475	2 663	683	1 980	812
NOT REPORTED	97	82	46	36	15
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	192	76	116	226
WITH SELECTED HEATING EQUIPMENT[2]	9 838	7 426	2 159	5 267	2 412
NO MAINTENANCE CONTRACT	6 663	4 791	1 397	3 394	1 872
WITH MAINTENANCE CONTRACT	3 053	2 527	700	1 827	525
NOT REPORTED	122	108	62	45	14

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

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
NO HOT PIPED WATER	30	7	1	7	23
WITH HOT PIPED WATER	10 225	7 611	2 235	5 376	2 615
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 931	7 366	2 177	5 190	2 564
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	43	34	10	23	10
NOT REPORTED	247	208	46	162	39
NOT REPORTED	1	-	-	-	1
RENTER OCCUPIED	6 867	5 890	3 652	2 239	977
NO HOT PIPED WATER	49	37	23	15	12
WITH HOT PIPED WATER	6 818	5 853	3 629	2 224	965
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 617	5 674	3 505	2 169	943
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	19	17	14	3	2
NOT REPORTED	178	157	107	51	20
NOT REPORTED	-	-	-	-	-
AIR CONDITIONING					
OWNER OCCUPIED	10 256	7 618	2 235	5 383	2 638
WITH AIR CONDITIONING	4 846	4 067	1 310	2 757	779
ROOM UNITS	3 906	3 299	1 163	2 136	607
1	2 014	1 624	543	1 081	391
2	1 266	1 107	426	681	160
3	412	373	121	252	39
4	140	130	47	84	10
5 OR MORE	73	65	25	39	8
CENTRAL SYSTEM	940	768	147	621	172
WITH NO AIR CONDITIONING	5 410	3 551	926	2 625	1 859
RENTER OCCUPIED	6 867	5 890	3 652	2 239	977
WITH AIR CONDITIONING	2 463	2 257	1 189	1 068	207
ROOM UNITS	2 102	1 916	1 061	855	186
1	1 458	1 316	728	588	142
2	532	495	259	236	37
3	96	92	64	28	5
4	9	8	5	3	1
5 OR MORE	7	5	5	-	2
CENTRAL SYSTEM	362	341	128	213	21
WITH NO AIR CONDITIONING	4 404	3 634	2 463	1 171	770
ALL OCCUPIED HOUSING UNITS	17 123	13 508	5 887	7 621	3 614
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 034	7 216	1 757	5 459	2 818
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	9 023	6 537	1 534	5 003	2 486
ALL WINDOWS COVERED	7 540	5 486	1 248	4 238	2 054
SOME WINDOWS COVERED	1 077	753	202	551	324
NO WINDOWS COVERED	360	262	66	195	98
NOT REPORTED	46	37	18	19	10
RENTER OCCUPIED	1 011	679	223	456	332
ALL WINDOWS COVERED	587	380	95	285	207
SOME WINDOWS COVERED	185	121	44	77	64
NO WINDOWS COVERED	188	134	68	66	54
NOT REPORTED	51	44	16	28	7
STORM DOORS					
OWNER OCCUPIED	9 023	6 537	1 534	5 003	2 486
ALL DOORS COVERED	7 320	5 364	1 208	4 156	1 956
SOME DOORS COVERED	1 096	783	209	574	313
NO DOORS COVERED	560	353	99	254	206
NOT REPORTED	47	37	18	19	10
RENTER OCCUPIED	1 011	679	223	456	332
ALL DOORS COVERED	573	381	105	276	192
SOME DOORS COVERED	152	102	37	65	50
NO DOORS COVERED	235	152	65	87	83
NOT REPORTED	51	44	16	28	7

[1]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: 1979--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	9 023	6 537	1 534	5 003	2 486
YES	7 546	5 424	1 088	4 335	2 122
NO	1 105	802	324	478	303
DON'T KNOW	321	269	102	167	52
NOT REPORTED	51	42	20	22	10
RENTER OCCUPIED	1 011	679	223	456	332
YES	474	298	51	247	176
NO	287	205	106	99	83
DON'T KNOW	199	132	50	82	67
NOT REPORTED	51	44	16	28	7
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	9 023	6 537	1 534	5 003	2 486
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	360	262	66	195	98
SOME OR ALL WINDOWS COVERED	8 617	6 239	1 450	4 789	2 378
NONE ADDED OR INSTALLED	7 608	5 506	1 263	4 243	2 102
SOME OR ALL ADDED OR INSTALLED	935	688	174	514	247
NOT REPORTED	73	44	13	31	29
NOT REPORTED	46	37	18	19	10
STORM DOORS:					
NO DOORS COVERED	560	353	99	254	206
SOME OR ALL DOORS COVERED	8 417	6 147	1 417	4 730	2 269
NONE ADDED OR INSTALLED	7 668	5 610	1 278	4 332	2 057
SOME OR ALL ADDED OR INSTALLED	608	444	110	334	164
NOT REPORTED	141	93	28	65	48
NOT REPORTED	47	37	18	19	10
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	1 105	802	324	478	303
WITH ATTIC OR ROOF INSULATION	7 546	5 424	1 088	4 335	2 122
NONE ADDED OR INSTALLED	6 604	4 738	955	3 783	1 866
SOME OR ALL ADDED OR INSTALLED	829	605	113	492	224
LESS THAN 3 INCHES ADDED	42	32	4	28	11
3 TO 6 INCHES ADDED	345	256	57	199	89
6 INCHES OR MORE ADDED	315	217	33	184	98
DON'T KNOW	70	58	18	40	13
NOT REPORTED	56	42	2	40	13
NOT REPORTED	113	81	20	61	32
DON'T KNOW	321	269	102	167	52
NOT REPORTED	51	42	20	22	10
WALL INSULATION:					
NONE ADDED OR INSTALLED	8 199	5 956	1 397	4 559	2 242
SOME OR ALL ADDED OR INSTALLED	756	529	115	414	227
NOT REPORTED	69	52	21	30	17
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	6 329	4 495	1 113	3 383	1 834
SOME OR ALL ADDED OR INSTALLED	2 564	1 936	392	1 544	627
DON'T KNOW	74	59	9	49	15
NOT REPORTED	56	47	20	27	10
OTHER INSULATION:					
NONE ADDED OR INSTALLED	8 372	6 087	1 416	4 671	2 285
SOME OR ALL ADDED OR INSTALLED	576	391	96	295	185
NOT REPORTED	75	59	21	37	16

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	1 011	679	223	456	332
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	188	134	68	66	54
SOME OR ALL WINDOWS COVERED	772	501	139	362	271
NONE ADDED OR INSTALLED	675	434	118	316	240
SOME OR ALL ADDED OR INSTALLED	84	57	19	39	26
NOT REPORTED	14	9	2	7	5
NOT REPORTED	51	44	16	28	7
STORM DOORS:					
NO DOORS COVERED	235	152	65	87	83
SOME OR ALL DOORS COVERED	725	483	142	341	242
NONE ADDED OR INSTALLED	648	428	124	304	220
SOME OR ALL ADDED OR INSTALLED	50	38	16	22	12
NOT REPORTED	27	17	2	15	11
NOT REPORTED	51	44	16	28	7
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	287	205	106	99	83
WITH ATTIC OR ROOF INSULATION	474	298	51	247	176
NONE ADDED OR INSTALLED	425	271	46	225	154
SOME OR ALL ADDED OR INSTALLED	35	19	2	17	16
LESS THAN 3 INCHES ADDED	-	-	-	-	-
3 TO 6 INCHES ADDED	7	2	-	2	5
6 INCHES OR MORE ADDED	11	7	2	6	4
DON'T KNOW	8	5	-	5	3
NOT REPORTED	8	4	-	4	4
NOT REPORTED	14	8	3	5	6
DON'T KNOW	199	132	50	82	67
NOT REPORTED	51	44	16	28	7
WALL INSULATION:					
NONE ADDED OR INSTALLED	914	608	202	406	306
SOME OR ALL ADDED OR INSTALLED	23	12	3	9	11
NOT REPORTED	73	59	18	41	14
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	734	487	160	327	247
SOME OR ALL ADDED OR INSTALLED	175	114	38	76	61
DON'T KNOW	48	32	9	24	15
NOT REPORTED	54	45	16	29	9
OTHER INSULATION:					
NONE ADDED OR INSTALLED	907	603	203	399	305
SOME OR ALL ADDED OR INSTALLED	37	26	4	23	11
NOT REPORTED	66	50	16	34	16
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	9 023	6 537	1 534	5 003	2 486
NO INSULATION ADDED OR INSTALLED	5 141	3 684	914	2 769	1 458
WITH INSULATION ADDED OR INSTALLED	3 589	2 645	562	2 083	944
LESS THAN $50	1 390	995	179	816	395
$50 TO $99	354	258	71	186	96
$100 TO $199	380	253	46	207	127
$200 TO $399	418	302	69	233	116
$400 OR MORE	759	598	157	440	161
DON'T KNOW	134	109	23	86	25
NOT REPORTED	154	130	16	114	24
MEDIAN	86	90	125	83	77
NOT REPORTED OR DON'T KNOW	293	208	57	151	85
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	233	154	39	115	79
LESS THAN $50	59	25	2	24	33
$50 TO $99	24	16	7	9	7
$100 TO $199	31	20	4	16	11
$200 TO $399	35	27	11	16	8
$400 OR MORE	55	42	11	31	14
DON'T KNOW	6	4	-	4	2
NOT REPORTED	24	20	5	14	4
MEDIAN	162	225	...	192	72

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
ONLY ADDED OR INSTALLED STORM DOORS	152	99	28	71	53
LESS THAN $50	13	11	6	5	2
$50 TO $99	37	19	9	11	18
$100 TO $199	47	32	4	28	16
$200 TO $399	23	17	5	12	6
$400 OR MORE	15	7	2	5	8
DON'T KNOW	2	2	-	2	-
NOT REPORTED	14	11	3	8	3
MEDIAN	137	140	...	152	131
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	438	299	61	239	139
LESS THAN $50	58	33	2	31	25
$50 TO $99	45	27	2	26	18
$100 TO $199	63	35	11	24	28
$200 TO $399	90	62	14	47	29
$400 OR MORE	139	120	30	90	19
DON'T KNOW	24	12	2	11	11
NOT REPORTED	19	10	-	10	9
MEDIAN	270	340	400+	318	158
ALL OCCUPIED HOUSING UNITS	17 123	13 508	5 887	7 621	3 614
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	7 321	5 467	1 446	4 021	1 854
DRIVES SELF	5 034	3 730	827	2 904	1 303
CARPOOL	1 224	862	195	667	362
MASS TRANSPORTATION	560	527	297	230	34
BICYCLE OR MOTORCYCLE	47	35	10	25	12
TAXICAB	2	2	2	-	-
WALKS ONLY	250	173	80	93	77
OTHER MEANS	40	33	15	17	7
WORKS AT HOME	141	89	14	76	51
NOT REPORTED	24	17	7	9	8
RENTER OCCUPIED	4 103	3 497	1 976	1 521	606
DRIVES SELF	2 017	1 616	615	1 001	401
CARPOOL	516	418	208	210	98
MASS TRANSPORTATION	1 009	1 005	844	160	4
BICYCLE OR MOTORCYCLE	36	26	18	8	10
TAXICAB	25	22	22	-	3
WALKS ONLY	398	325	225	100	74
OTHER MEANS	23	17	12	5	5
WORKS AT HOME	59	48	20	28	11
NOT REPORTED	21	20	12	8	1
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	7 321	5 467	1 446	4 021	1 854
LESS THAN 1 MILE	487	308	103	205	179
1 TO 4 MILES	1 429	1 049	376	673	380
5 TO 9 MILES	1 326	1 041	268	773	285
10 TO 19 MILES	1 582	1 225	307	917	358
20 TO 29 MILES	646	495	122	373	150
30 TO 49 MILES	460	331	45	286	129
50 MILES OR MORE	141	86	10	76	55
WORKS AT HOME	141	89	14	76	51
NO FIXED PLACE OF WORK	914	669	142	527	245
NOT REPORTED	196	174	59	115	22
MEDIAN	9.2	9.4	7.5	10.0	8.7
RENTER OCCUPIED	4 103	3 497	1 976	1 521	606
LESS THAN 1 MILE	525	397	254	142	128
1 TO 4 MILES	1 056	902	552	350	154
5 TO 9 MILES	788	696	372	324	92
10 TO 19 MILES	794	702	388	314	92
20 TO 29 MILES	274	235	110	125	39
30 TO 49 MILES	97	81	36	45	17
50 MILES OR MORE	32	25	10	15	7
WORKS AT HOME	59	48	20	28	11
NO FIXED PLACE OF WORK	341	277	144	132	65
NOT REPORTED	136	135	89	45	1
MEDIAN	6.3	6.6	5.7	7.5	4.5

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

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	7 321	5 467	1 446	4 021	1 854
LESS THAN 15 MINUTES	1 983	1 380	351	1 029	603
15 TO 29 MINUTES	2 113	1 613	444	1 169	500
30 TO 44 MINUTES	1 101	872	224	648	230
45 TO 59 MINUTES	422	331	120	210	91
1 HOUR TO 1 HOUR AND 29 MINUTES	396	315	100	215	81
1 HOUR AND 30 MINUTES OR MORE	154	121	37	83	34
WORKS AT HOME	141	89	14	76	51
NO FIXED PLACE OF WORK	914	669	142	527	245
NOT REPORTED	96	78	14	64	18
MEDIAN	22.8	23.7	24.7	23.3	19.9
RENTER OCCUPIED	4 103	3 497	1 976	1 521	606
LESS THAN 15 MINUTES	1 192	911	455	456	281
15 TO 29 MINUTES	1 201	1 046	531	515	155
30 TO 44 MINUTES	665	602	380	222	63
45 TO 59 MINUTES	299	283	200	83	16
1 HOUR TO 1 HOUR AND 29 MINUTES	249	240	185	55	9
1 HOUR AND 30 MINUTES OR MORE	69	64	50	14	5
WORKS AT HOME	59	48	20	28	11
NO FIXED PLACE OF WORK	341	277	144	132	65
NOT REPORTED	27	26	10	15	2
MEDIAN	23.0	24.4	27.5	21.2	15.0-

[1]LIMITED TO HEADS 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: 1979

(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	17 123	984	2 825	1 836	3 142	2 369	2 081	2 232	1 094	388	172	14600
HOUSE HEATING FUEL												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
UTILITY GAS	4 162	128	400	310	680	596	631	778	424	171	43	19700
BOTTLED, TANK, OR LP GAS	81	4	17	9	18	10	8	10	2	2	-	13000
FUEL OIL	5 116	147	533	398	878	777	760	904	469	155	95	18900
KEROSENE, ETC	94	6	14	22	26	10	7	9	-	-	-	10800
ELECTRICITY	600	9	28	40	99	83	123	131	55	20	12	21700
COAL OR COKE	101	5	21	7	26	17	8	9	7	-	1	13400
WOOD	96	4	17	15	16	13	11	15	5	-	-	13800
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	2	-	-	-	2	-	-	-	-	-	-	...
NONE	5	-	1	1	-	2	2	-	-	-	-	...
RENTER OCCUPIED	6 867	681	1 795	1 035	1 397	859	532	376	133	39	21	9800
UTILITY GAS	2 396	264	655	338	496	302	173	110	48	3	7	9500
BOTTLED, TANK, OR LP GAS	41	2	10	6	15	2	5	1	-	-	-	10900
FUEL OIL	3 812	343	971	612	767	485	300	225	69	28	12	9900
KEROSENE, ETC	36	6	11	6	5	6	2	-	-	-	-	7600
ELECTRICITY	509	54	130	65	105	57	47	33	12	3	2	10200
COAL OR COKE	32	4	6	5	4	4	1	6	2	-	-	...
WOOD	24	5	6	4	5	2	2	2	-	-	-	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	3	-	-	2	2	-	2	5	-	...
NONE	4	2	2	-	-	-	-	-	-	-	-	...
WATER HEATING FUEL												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
NO HOT PIPED WATER	30	6	14	2	3	2	1	2	-	-	-	...
WITH HOT PIPED WATER	10 225	298	1 016	798	1 742	1 508	1 549	1 854	961	348	151	19200
FUEL USED:												
UTILITY GAS	4 628	142	460	332	767	651	687	853	490	181	64	19700
BOTTLED, TANK, OR LP GAS	250	11	36	40	50	36	32	26	16	2	-	13800
FUEL OIL	3 019	84	282	189	472	435	467	616	300	114	61	20500
KEROSENE, ETC	8	-	1	2	4	1	1	-	-	-	-	...
ELECTRICITY	2 279	59	233	233	439	375	361	350	151	51	26	17300
COAL OR COKE	22	1	1	1	7	7	1	3	2	-	-	...
WOOD	16	2	3	1	4	2	1	3	2	-	-	...
SOLAR HEAT	2	-	-	-	-	-	-	1	2	-	-	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	2	-	-	-	-	-	-	2	-	-	-	...
NOT REPORTED	1	-	-	1	-	-	-	-	-	-	-	...
RENTER OCCUPIED	6 867	681	1 795	1 035	1 397	859	532	376	133	39	21	9800
NO HOT PIPED WATER	49	11	21	8	6	3	-	-	-	-	-	5700
WITH HOT PIPED WATER	6 818	670	1 774	1 027	1 390	856	532	376	133	39	21	9800
FUEL USED:												
UTILITY GAS	2 683	283	735	397	561	321	211	120	47	5	2	9400
BOTTLED, TANK, OR LP GAS	79	9	19	13	17	10	10	1	-	-	1	9600
FUEL OIL	3 112	286	783	470	613	404	242	193	73	33	15	10100
KEROSENE, ETC	1	-	1	-	-	-	-	-	-	-	-	...
ELECTRICITY	899	87	224	140	196	114	64	57	13	2	4	10000
COAL OR COKE	14	2	2	5	-	4	2	-	-	-	-	...
WOOD	1	-	-	-	-	1	-	-	-	-	-	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	25	3	10	-	3	2	2	5	-	-	-	...
NONE	4	-	1	2	-	-	2	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
UTILITY GAS	4 434	150	535	353	733	636	667	766	406	132	56	18500
BOTTLED, TANK, OR LP GAS	812	39	120	126	167	135	92	85	33	8	7	13600
FUEL OIL	21	3	4	2	2	6	-	3	-	2	-	...
KEROSENE, ETC	6	1	1	-	3	-	1	-	-	-	-	...
ELECTRICITY	4 952	108	360	318	836	732	787	996	523	206	88	20800
COAL OR COKE	5	-	2	-	-	-	2	-	-	-	1	...
WOOD	23	2	8	2	5	1	1	4	-	-	-	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	2	-	-	1	-	-	-	2	-	-	-	...
RENTER OCCUPIED	6 867	681	1 795	1 035	1 397	859	532	376	133	39	21	9800
UTILITY GAS	4 728	467	1 302	720	917	592	350	237	98	31	13	9500
BOTTLED, TANK, OR LP GAS	241	21	67	41	55	24	21	12	-	-	1	9400
FUEL OIL	15	4	8	2	-	-	2	-	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 800	163	400	257	408	238	158	127	34	9	7	11000
COAL OR COKE	2	-	-	1	1	-	-	-	-	-	-	...
WOOD	2	1	-	-	1	-	-	-	-	-	-	...
OTHER FUEL	4	2	1	-	2	-	-	-	-	-	-	...
NONE	75	23	17	15	13	5	2	-	-	-	-	6300
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[1]	8 208	226	745	586	1 327	1 193	1 257	1 599	851	296	127	20100
LESS THAN $10	86	11	30	16	13	5	3	3	5	-	-	7400
$10 TO $19	882	57	224	119	180	115	81	70	23	14	-	11100
$20 TO $29	1 884	64	220	167	352	320	297	309	121	27	7	17200
$30 TO $39	1 949	36	131	147	317	325	310	415	197	51	20	20300
$40 TO $49	1 163	16	55	58	174	175	205	257	158	47	17	22500
$50 TO $59	819	24	31	33	105	95	135	203	114	58	21	24500
$60 TO $79	758	10	24	32	90	91	133	177	124	48	28	25000
$80 TO $99	278	5	10	4	35	26	48	81	43	16	9	26300
$100 TO $149	302	3	13	5	44	35	37	67	51	31	15	26900
$150 OR MORE	82	-	4	4	14	7	7	16	14	5	10	27800
NO ELECTRICITY USED	6	-	2	-	2	-	2	-	-	-	-	...
MEDIAN	36	26	25	29	33	34	37	40	45	51	59	...

[1]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: 1979--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]	6 821	677	1 784	1 030	1 386	854	525	375	132	39	20	9800
LESS THAN $10	318	50	106	62	56	27	15	2	2	-	-	7200
$10 TO $19	1 748	153	462	286	386	245	100	83	21	8	3	9700
$20 TO $29	1 547	129	339	234	323	213	161	105	31	10	2	11100
$30 TO $39	801	56	177	98	173	126	83	67	15	2	3	12000
$40 TO $49	379	19	59	50	86	64	41	29	17	10	5	13600
$50 TO $59	153	6	24	15	31	20	26	18	10	2	-	15000
$60 TO $79	132	3	26	3	33	17	18	17	11	2	2	15300
$80 TO $99	35	2	3	3	9	9	5	2	2	-	-	...
$100 TO $149	32	1	7	5	9	2	1	3	4	-	-	...
$150 OR MORE	12	-	3	-	3	3	1	1	-	-	-	...
INCLUDED IN RENT	1 651	256	573	271	274	127	72	48	18	6	6	7000
NO ELECTRICITY USED	14	2	4	3	3	2	1	-	-	-	-	...
MEDIAN	23	20	21	21	23	24	26	27	32	...	...	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	8 208	226	745	586	1 327	1 193	1 257	1 599	851	296	127	20100
LESS THAN $10	606	24	105	59	97	102	80	67	43	16	13	15900
$10 TO $14	415	16	66	32	73	57	59	65	27	11	10	16800
$15 TO $19	325	10	46	32	61	28	50	58	31	4	5	17400
$20 TO $24	365	13	43	34	53	57	54	65	34	11	3	18500
$25 TO $29	334	14	33	35	48	58	41	62	29	10	3	18100
$30 TO $39	676	20	60	60	110	111	100	125	74	13	3	19000
$40 TO $49	720	18	62	40	120	117	128	138	75	15	6	20100
$50 TO $69	1 164	32	79	72	190	144	175	254	141	53	25	21900
$70 TO $99	541	13	39	37	74	62	79	120	65	43	8	22900
$100 OR MORE	221	3	18	9	29	21	25	34	40	31	10	26400
NO GAS USED	2 841	64	194	175	472	436	467	612	293	89	40	20900
MEDIAN	38	32	27	32	38	36	41	43	45	58	50	...
SPECIFIED RENTER OCCUPIED[1]	6 821	677	1 784	1 030	1 386	854	525	375	132	39	20	9800
LESS THAN $10	1 206	93	319	192	232	167	101	69	22	10	2	10000
$10 TO $14	656	78	182	93	130	75	44	36	10	3	3	9200
$15 TO $19	378	39	82	53	80	59	30	24	7	2	3	11000
$20 TO $24	253	23	70	43	46	27	24	14	5	2	-	9400
$25 TO $29	171	12	50	24	40	17	8	13	7	-	-	9900
$30 TO $39	295	21	78	59	69	37	15	12	5	-	-	9500
$40 TO $49	204	28	40	26	40	33	25	6	6	-	2	11100
$50 TO $69	239	16	63	28	55	36	24	11	5	-	1	11200
$70 TO $99	105	3	18	12	39	22	4	3	1	2	-	12400
$100 OR MORE	31	5	7	2	10	2	5	-	2	-	-	...
INCLUDED IN RENT	2 244	252	644	327	414	254	162	117	50	16	8	9100
NO GAS USED	1 038	107	230	171	231	126	83	68	14	6	2	10200
MEDIAN	13	13	13	13	15	14	14	13	17	...	...	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	8 208	226	745	586	1 327	1 193	1 257	1 599	851	296	127	20100
LESS THAN $100	120	5	7	2	11	21	21	27	17	3	4	22900
$100 TO $199	113	2	7	11	20	20	21	19	13	-	2	19300
$200 TO $299	151	6	15	21	28	16	31	23	7	2	2	16700
$300 TO $399	318	15	47	29	54	57	56	43	17	1	1	16300
$400 TO $499	441	10	62	34	85	75	58	62	40	10	4	17000
$500 TO $599	509	12	41	40	94	94	87	82	42	12	5	18600
$600 TO $699	621	18	71	46	110	87	85	133	50	16	6	18800
$700 TO $799	521	19	42	47	71	89	102	88	38	11	13	19500
$800 OR MORE	1 691	41	130	96	250	212	237	371	227	85	43	22500
FUELS NOT USED OR FREE	3 723	99	323	261	603	522	560	751	400	157	47	20500
MEDIAN	694	678	645	657	662	659	687	740	800+	800+	800+	...
SPECIFIED RENTER OCCUPIED[1]	6 821	677	1 784	1 030	1 386	854	525	375	132	39	20	9800
LESS THAN $100	37	7	10	7	7	4	2	-	1	-	-	7800
$100 TO $199	28	2	4	9	9	1	2	1	-	-	-	...
$200 TO $299	48	12	14	9	4	5	2	2	-	-	-	6500
$300 TO $399	84	9	24	20	13	12	5	2	-	1	-	8400
$400 TO $499	91	4	25	18	28	7	6	1	2	-	-	9600
$500 TO $599	99	9	21	9	22	20	12	7	-	-	-	12500
$600 TO $699	95	6	17	10	29	10	3	16	2	2	-	12500
$700 TO $799	64	2	15	10	9	14	7	6	2	-	-	13300
$800 OR MORE	221	8	28	44	32	38	30	31	10	2	-	15000
INCLUDED IN RENT	3 444	363	906	519	675	439	263	176	63	28	13	9600
FUELS NOT USED OR FREE	2 610	256	720	376	560	303	193	133	54	8	7	9600
MEDIAN	596	394	507	550	572	662	737	772	...	...	-	...
ALL OCCUPIED HOUSING UNITS	17 123	984	2 825	1 836	3 142	2 369	2 081	2 232	1 094	388	172	14600
HEATING EQUIPMENT												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
WARM-AIR FURNACE	4 439	140	444	383	792	685	654	780	370	137	53	18400
HEAT PUMP	48	-	1	-	4	7	11	10	7	2	5	25300
STEAM OR HOT WATER	4 776	132	466	326	758	672	728	898	518	190	87	20200
BUILT-IN ELECTRIC UNITS	474	6	22	35	84	65	93	102	44	17	7	21400
FLOOR, WALL, OR PIPELESS FURNACE	101	4	19	12	19	18	12	12	3	2	-	14000
ROOM HEATERS WITH FLUE	185	15	44	12	47	25	17	19	8	-	-	12300
ROOM HEATERS WITHOUT FLUE	14	-	3	3	-	2	2	3	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	214	6	32	29	41	34	30	30	12	-	-	14900
NONE	5	-	1	1	-	2	2	-	-	-	-	...

[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: 1979--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	6 867	681	1 795	1 035	1 397	859	532	376	133	39	21	9800
WARM-AIR FURNACE	1 536	124	352	246	347	194	120	102	36	5	9	10700
HEAT PUMP	9	2	5	-	1	-	2	-	-	-	-	...
STEAM OR HOT WATER	4 337	430	1 155	641	859	558	345	224	81	33	11	9700
BUILT-IN ELECTRIC UNITS	442	49	123	56	89	45	36	30	12	2	-	9600
FLOOR, WALL, OR PIPELESS FURNACE	48	4	6	10	13	8	2	6	1	-	-	11800
ROOM HEATERS WITH FLUE	388	54	127	60	67	44	22	10	3	-	-	7600
ROOM HEATERS WITHOUT FLUE	43	4	13	5	12	4	2	3	-	-	-	9400
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	12	11	17	9	6	3	2	-	-	1	8200
NONE	4	2	2	-	-	-	-	-	-	-	-	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
NO HEATING EQUIPMENT	5	-	1	1	-	2	2	-	-	-	-	...
WITH HEATING EQUIPMENT	10 250	303	1 029	800	1 746	1 508	1 548	1 856	961	348	151	19100
NO THERMOSTAT CONTROL	437	25	86	42	92	55	39	61	20	9	8	13600
WITH THERMOSTAT CONTROL	9 786	277	940	755	1 649	1 450	1 506	1 788	941	339	142	19400
NOT CLOCK OPERATED	8 424	242	814	675	1 436	1 270	1 303	1 563	776	254	91	19100
CONSTANT TEMPERATURE SETTING MAINTAINED	2 996	88	349	244	523	465	477	505	249	71	24	18200
TEMPERATURE SETTING IS CHANGED	5 392	151	461	427	908	793	824	1 051	527	183	67	19700
OCCASIONALLY	1 376	50	127	117	252	189	226	246	115	42	11	18700
REGULARLY	3 982	101	330	307	647	598	595	800	408	141	56	20100
DON'T KNOW	30	-	3	2	7	6	2	6	2	-	-	...
NOT REPORTED	4	-	1	-	2	-	-	-	2	-	-	...
NOT REPORTED	36	3	4	4	5	13	1	6	-	-	-	16000
CLOCK OPERATED	1 352	35	126	80	209	180	200	221	165	85	51	21100
NOT REPORTED	10	-	-	-	4	-	3	4	-	-	-	...
NOT REPORTED	27	2	3	2	5	2	3	7	1	-	1	...
RENTER OCCUPIED	6 867	681	1 795	1 035	1 397	859	532	376	133	39	21	9800
NO HEATING EQUIPMENT	4	2	2	-	-	-	-	-	-	-	-	...
WITH HEATING EQUIPMENT	6 863	678	1 793	1 035	1 397	859	532	376	133	39	21	9800
NO THERMOSTAT CONTROL	3 530	406	1 072	544	651	389	224	147	65	21	12	8600
WITH THERMOSTAT CONTROL	3 321	269	721	489	744	469	308	228	67	18	9	11200
NOT CLOCK OPERATED	2 951	224	640	440	671	420	271	205	56	17	7	11300
CONSTANT TEMPERATURE SETTING MAINTAINED	1 071	84	259	166	236	137	95	61	22	6	5	10500
TEMPERATURE SETTING IS CHANGED	1 823	130	373	266	419	279	172	137	32	11	2	11700
OCCASIONALLY	602	54	135	102	109	81	56	51	10	5	-	10500
REGULARLY	1 195	74	228	162	303	196	117	83	22	6	2	12200
DON'T KNOW	25	2	10	3	7	2	-	3	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	58	10	8	8	16	4	4	7	2	-	-	11100
CLOCK OPERATED	361	43	79	48	73	47	33	23	12	2	2	10700
NOT REPORTED	8	2	2	-	-	2	3	-	-	-	-	...
NOT REPORTED	12	3	1	3	2	2	1	2	-	-	-	...
ALL OCCUPIED HOUSING UNITS	17 123	984	2 825	1 836	3 142	2 369	2 081	2 232	1 094	388	172	14600
UNITS OCCUPIED LAST WINTER	15 173	786	2 438	1 578	2 737	2 117	1 879	2 069	1 037	375	156	15100
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	9 755	295	1 011	765	1 650	1 436	1 447	1 751	921	338	142	19000
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	289	978	733	1 610	1 400	1 413	1 718	910	338	142	19100
NO ADDITIONAL HEAT SOURCE USED	8 765	269	864	669	1 463	1 295	1 327	1 577	852	320	130	19300
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	614	16	92	53	114	85	70	113	48	15	8	16900
NOT REPORTED	152	4	22	11	34	20	17	28	10	3	3	16400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	6	33	33	39	36	33	33	11	-	-	15100
RENTER OCCUPIED	5 418	491	1 427	813	1 088	681	432	317	117	38	14	9900
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	480	1 405	799	1 071	672	431	314	117	38	14	9900
NO ADDITIONAL HEAT SOURCE USED	4 243	370	1 091	625	838	550	354	271	99	31	14	10200
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	969	92	275	157	210	105	73	36	14	6	-	9200
NOT REPORTED	129	17	40	16	24	17	5	6	3	-	-	8400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	11	21	14	16	9	1	3	-	-	1	8200
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	9 755	295	1 011	765	1 650	1 436	1 447	1 751	921	338	142	19000
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	289	978	733	1 610	1 400	1 413	1 718	910	338	142	19100
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 251	235	781	606	1 376	1 207	1 239	1 545	812	324	127	19700
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 131	50	178	116	206	174	156	147	84	11	10	15500
1 ROOM	473	16	47	49	84	67	73	81	45	5	7	18100
2 ROOMS	269	17	49	20	49	41	40	28	23	2	-	14900
3 ROOMS OR MORE	390	17	82	47	73	65	43	38	17	3	3	13400
NOT REPORTED	148	4	19	11	29	19	18	26	14	3	4	17800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	6	33	33	39	36	33	33	11	-	-	15100
RENTER OCCUPIED	5 418	491	1 427	813	1 088	681	432	317	117	38	14	9900
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	480	1 405	799	1 071	672	431	314	117	38	14	9900
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 555	400	1 183	685	918	569	373	272	106	36	14	10100
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	656	60	185	95	130	87	55	36	7	2	-	9600
1 ROOM	278	19	72	41	56	33	33	20	3	2	-	10600
2 ROOMS	181	18	57	24	31	28	10	10	2	-	-	8800
3 ROOMS OR MORE	197	23	55	30	43	27	12	6	2	-	-	9100
NOT REPORTED	129	20	38	19	24	16	3	6	3	-	-	8000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	11	21	14	16	9	1	3	-	-	1	8200

[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: 1979--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	9 755	295	1 011	765	1 650	1 436	1 447	1 751	921	338	142	19000
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	289	978	733	1 610	1 400	1 413	1 718	910	338	142	19100
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	6	33	33	39	36	33	33	11	-	-	15100
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	191	5	29	24	32	30	31	30	10	-	-	15900
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	2	2	4	2	3	2	2	1	-	-	...
NOT REPORTED	17	-	3	5	6	3	-	2	-	-	-	...
RENTER OCCUPIED	5 418	491	1 427	813	1 088	681	432	317	117	38	14	9900
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	480	1 405	799	1 071	672	431	314	117	38	14	9900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	11	21	14	16	9	1	3	-	-	1	8200
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	8	12	9	6	6	1	2	-	-	1	7800
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	21	2	7	4	6	2	-	-	-	-	-	...
NOT REPORTED	11	2	2	-	3	2	-	2	-	-	-	...
ALL OCCUPIED HOUSING UNITS	17 123	984	2 825	1 836	3 142	2 369	2 081	2 232	1 094	388	172	14600
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	220	6	32	30	41	36	32	30	12	-	-	15000
WITH SELECTED HEATING EQUIPMENT[2]	10 036	297	998	771	1 705	1 474	1 518	1 825	950	348	151	19200
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 309	282	973	730	1 601	1 349	1 396	1 649	870	317	140	19000
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	690	8	23	40	92	120	120	170	79	28	10	22600
SOLAR HEATING EQUIPMENT	5	-	-	-	1	-	1	3	1	-	-	...
STOVE, BURNING WOOD OR COAL	386	3	8	23	51	80	65	101	40	13	2	22200
FIREPLACE, BURNING WOOD OR COAL	75	4	-	6	7	11	13	22	8	3	2	23700
PORTABLE ELECTRIC HEATER	107	2	7	7	16	12	18	22	11	8	3	22600
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	-	3	1	2	2	-	1	2	-	-	...
OTHER	105	-	6	3	14	15	23	22	16	4	2	23300
NOT REPORTED	7	-	-	-	2	2	1	3	-	-	-	...
NOT REPORTED	36	7	1	1	11	5	1	7	-	3	1	13900
RENTER OCCUPIED	6 867	681	1 795	1 035	1 397	859	532	376	133	39	21	9800
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	64	14	13	17	9	6	3	2	-	-	1	7800
WITH SELECTED HEATING EQUIPMENT[2]	6 803	666	1 782	1 018	1 388	853	529	375	133	39	20	9800
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 407	631	1 671	961	1 298	803	509	351	125	39	19	9800
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	31	105	52	86	47	18	22	6	1	1	9800
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	34	-	8	3	11	6	2	2	1	1	1	...
FIREPLACE, BURNING WOOD OR COAL	3	-	-	-	2	-	-	2	-	-	-	...
PORTABLE ELECTRIC HEATER	276	25	81	43	58	31	16	17	3	-	-	9200
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	7	-	9	3	-	-	-	-	-	...
OTHER	29	5	7	2	7	6	-	2	2	-	-	...
NOT REPORTED	7	-	2	4	2	-	-	-	-	-	-	...
NOT REPORTED	29	5	6	6	4	3	2	2	2	-	-	...
AGE OF HEATING EQUIPMENT												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	21	79	45	88	62	51	52	19	-	-	13600
WITH SELECTED HEATING EQUIPMENT[3]	9 838	282	951	756	1 657	1 448	1 499	1 803	942	348	151	19400
LESS THAN 4 YEARS	1 301	31	100	86	208	196	240	272	112	45	12	20600
4 TO 9 YEARS	1 939	51	189	147	318	292	313	355	185	68	21	19500
10 TO 19 YEARS	3 063	77	274	205	550	438	432	583	326	125	53	19900
20 TO 39 YEARS	2 623	92	262	232	427	400	382	456	243	81	47	18700
40 YEARS OR MORE	290	13	35	31	37	28	46	45	34	12	8	19900
DON'T KNOW	539	14	78	45	98	89	82	76	38	12	6	16900
NOT REPORTED	83	3	14	11	19	4	3	17	4	5	3	13700
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	21	79	45	88	62	51	52	19	-	-	13600
WITH SELECTED HEATING EQUIPMENT[3]	9 838	282	951	756	1 657	1 448	1 499	1 803	942	348	151	19400
NO MAINTENANCE OR MODIFICATION	6 266	182	616	489	1 087	944	958	1 145	559	198	87	19000
WITH MAINTENANCE OR MODIFICATION	3 475	95	318	255	555	502	535	636	374	145	61	20100
NOT REPORTED	97	5	17	11	16	2	6	23	9	5	3	14700
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	21	79	45	88	62	51	52	19	-	-	13600
WITH SELECTED HEATING EQUIPMENT[3]	9 838	282	951	756	1 657	1 448	1 499	1 803	942	348	151	19400
NO MAINTENANCE CONTRACT	6 663	202	662	521	1 156	1 025	1 001	1 210	605	205	77	18900
WITH MAINTENANCE CONTRACT	3 053	77	268	220	481	418	482	572	325	138	69	20600
NOT REPORTED	122	3	21	15	20	4	16	21	12	5	4	18300

[1] EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3] EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
NO HOT PIPED WATER	30	6	14	2	3	2	1	2	-	-	-	...
WITH HOT PIPED WATER	10 225	298	1 016	798	1 742	1 508	1 549	1 854	961	348	151	19200
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 931	287	977	777	1 693	1 466	1 513	1 800	930	339	148	19200
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	43	4	1	5	5	4	4	13	5	1	2	23900
NOT REPORTED	247	7	38	16	45	38	32	38	24	8	1	17300
NOT REPORTED	1	-	-	1	-	-	-	-	-	-	-	...
RENTER OCCUPIED	6 867	681	1 795	1 035	1 397	859	532	376	133	39	21	9800
NO HOT PIPED WATER	49	11	21	8	6	3	-	-	-	-	-	5700
WITH HOT PIPED WATER	6 818	670	1 774	1 027	1 390	856	532	376	133	39	21	9800
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 617	652	1 729	990	1 347	822	517	368	133	38	21	9800
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	19	2	2	4	5	3	3	-	-	-	-	...
NOT REPORTED	178	16	42	31	38	31	9	8	-	2	-	9900
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
OWNER OCCUPIED	10 256	303	1 030	801	1 746	1 510	1 549	1 856	961	348	151	19100
WITH AIR CONDITIONING	4 846	105	323	277	755	675	804	975	577	237	118	21800
ROOM UNITS	3 906	83	295	225	621	586	677	762	433	153	71	21100
1	2 014	52	214	148	366	303	365	351	154	43	18	18700
2	1 266	23	56	63	170	200	222	290	158	63	21	22700
3	412	5	20	7	60	60	56	84	74	27	19	24800
4	140	-	3	3	17	19	26	32	28	10	3	26100
5 OR MORE	73	3	2	4	8	5	7	4	20	11	10	37700
CENTRAL SYSTEM	940	22	28	52	135	89	127	213	143	84	47	25800
WITH NO AIR CONDITIONING	5 410	198	707	524	990	835	746	881	384	111	33	16700
RENTER OCCUPIED	6 867	681	1 795	1 035	1 397	859	532	376	133	39	21	9800
WITH AIR CONDITIONING	2 463	124	377	342	551	423	285	224	94	27	16	13500
ROOM UNITS	2 102	111	327	299	488	364	225	183	73	21	11	13200
1	1 458	88	243	206	370	266	139	104	31	8	3	12600
2	532	17	74	85	107	79	66	64	25	10	5	14200
3	96	5	8	7	7	14	19	12	18	3	3	21900
4	9	1	-	2	3	2	-	2	-	-	-	...
5 OR MORE	7	-	2	-	-	4	-	2	-	-	-	...
CENTRAL SYSTEM	362	13	50	43	63	60	60	41	20	7	5	16000
WITH NO AIR CONDITIONING	4 404	557	1 417	693	845	436	247	152	39	12	5	8000
ALL OCCUPIED HOUSING UNITS	17 123	984	2 825	1 836	3 142	2 369	2 081	2 232	1 094	388	172	14600
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 034	348	1 078	839	1 720	1 445	1 455	1 760	915	333	141	18600
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	9 023	257	844	688	1 501	1 308	1 374	1 690	895	327	139	19700
ALL WINDOWS COVERED	7 540	188	671	560	1 203	1 099	1 158	1 491	775	282	113	20200
SOME WINDOWS COVERED	1 077	46	125	100	216	147	166	138	86	33	21	16800
NO WINDOWS COVERED	360	21	47	27	75	48	50	50	28	10	4	16000
NOT REPORTED	46	2	1	1	8	15	1	11	6	2	1	19100
RENTER OCCUPIED	1 011	91	235	151	219	137	81	70	19	6	2	10700
ALL WINDOWS COVERED	587	48	126	86	123	82	58	45	14	3	1	11400
SOME WINDOWS COVERED	185	20	41	32	40	27	11	11	1	1	-	9900
NO WINDOWS COVERED	188	23	50	25	44	22	9	6	5	2	2	9400
NOT REPORTED	51	-	17	7	12	6	2	8	-	-	-	10700
STORM DOORS												
OWNER OCCUPIED	9 023	257	844	688	1 501	1 308	1 374	1 690	895	327	139	19700
ALL DOORS COVERED	7 320	190	668	546	1 205	1 055	1 133	1 416	747	245	114	20000
SOME DOORS COVERED	1 096	41	114	79	189	176	153	176	92	59	18	18500
NO DOORS COVERED	560	24	61	62	99	62	88	87	50	21	6	17700
NOT REPORTED	47	2	1	1	8	15	1	11	6	2	1	19000
RENTER OCCUPIED	1 011	91	235	151	219	137	81	70	19	6	2	10700
ALL DOORS COVERED	573	52	114	77	127	87	54	44	15	3	1	11700
SOME DOORS COVERED	152	15	38	28	31	19	13	5	2	-	-	9400
NO DOORS COVERED	235	24	65	39	49	26	12	13	2	2	2	9100
NOT REPORTED	51	-	17	7	12	6	2	8	-	-	-	10700
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	9 023	257	844	688	1 501	1 308	1 374	1 690	895	327	139	19700
YES	7 546	183	593	540	1 197	1 101	1 193	1 490	814	309	126	20700
NO	1 105	51	204	114	227	151	140	142	54	14	8	14000
DON'T KNOW	321	19	46	34	70	40	40	45	21	2	4	14400
NOT REPORTED	51	3	1	1	8	16	1	14	6	2	1	19200
RENTER OCCUPIED	1 011	91	235	151	219	137	81	70	19	6	2	10700
YES	474	33	94	67	103	73	40	48	12	4	1	12100
NO	287	33	70	51	70	30	20	10	2	2	-	9400
DON'T KNOW	199	25	53	26	35	29	19	4	6	-	2	9500
NOT REPORTED	51	-	17	7	12	6	2	8	-	-	-	10700

[1]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: 1979--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												
OWNER OCCUPIED	9 023	257	844	688	1 501	1 308	1 374	1 690	895	327	139	19700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	360	21	47	27	75	48	50	50	28	10	4	16000
SOME OR ALL WINDOWS COVERED	8 617	234	796	660	1 418	1 246	1 324	1 629	861	315	134	19800
NONE ADDED OR INSTALLED	7 608	208	730	597	1 279	1 094	1 133	1 416	748	283	122	19500
SOME OR ALL ADDED OR INSTALLED	935	22	56	56	128	143	179	201	111	28	12	21800
NOT REPORTED	73	4	9	8	11	9	13	12	3	4	-	17200
NOT REPORTED	46	2	1	1	8	15	1	11	6	2	1	19100
STORM DOORS:												
NO DOORS COVERED	560	24	61	62	99	62	88	87	50	21	6	17700
SOME OR ALL DOORS COVERED	8 417	232	782	625	1 394	1 231	1 286	1 592	839	304	132	19800
NONE ADDED OR INSTALLED	7 668	216	733	584	1 277	1 125	1 137	1 419	769	279	129	19600
SOME OR ALL ADDED OR INSTALLED	608	12	26	29	86	95	121	147	69	22	3	22300
NOT REPORTED	141	3	23	12	31	12	28	26	1	3	1	15100
NOT REPORTED	47	2	1	1	8	15	1	11	6	2	1	19000
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 105	51	204	114	227	151	140	142	54	14	8	14000
WITH ATTIC OR ROOF INSULATION	7 546	183	593	540	1 197	1 101	1 193	1 490	814	309	126	20700
NONE ADDED OR INSTALLED	6 604	157	550	490	1 054	980	1 013	1 264	715	272	110	20400
SOME OR ALL ADDED OR INSTALLED	829	22	33	41	132	98	163	204	87	34	16	22700
LESS THAN 3 INCHES ADDED	42	-	6	3	6	3	8	7	5	2	2	21600
3 TO 6 INCHES ADDED	345	11	10	18	50	42	73	89	38	8	7	22900
6 INCHES OR MORE ADDED	315	3	11	16	42	45	56	83	41	11	8	23700
DON'T KNOW	70	4	5	2	24	7	9	9	2	8	-	15000
NOT REPORTED	56	3	1	2	9	2	18	14	1	5	-	23000
NOT REPORTED	113	4	10	9	11	24	17	22	12	4	-	19600
DON'T KNOW	321	19	46	34	70	40	40	45	21	2	4	14400
NOT REPORTED	51	3	1	1	8	16	1	14	6	2	1	19200
WALL INSULATION:												
NONE ADDED OR INSTALLED	8 199	236	815	651	1 354	1 180	1 214	1 516	807	291	134	19400
SOME OR ALL ADDED OR INSTALLED	756	17	27	33	138	112	153	159	82	32	4	21700
NOT REPORTED	69	4	3	4	10	16	7	14	7	3	1	19500
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	6 329	201	706	523	1 113	905	904	1 086	572	219	100	18400
SOME OR ALL ADDED OR INSTALLED	2 564	51	133	163	367	380	450	572	309	100	38	22100
DON'T KNOW	74	1	5	2	9	8	18	16	8	7	-	23200
NOT REPORTED	56	4	-	1	11	15	2	15	6	2	1	19300
OTHER INSULATION:												
NONE ADDED OR INSTALLED	8 372	242	816	657	1 392	1 204	1 257	1 552	825	297	130	19500
SOME OR ALL ADDED OR INSTALLED	576	10	28	27	97	84	107	125	61	28	8	21900
NOT REPORTED	75	4	-	4	12	20	10	13	9	2	1	19200
RENTER OCCUPIED	1 011	91	235	151	219	137	81	70	19	6	2	10700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	188	23	50	25	44	22	9	6	5	2	2	9400
SOME OR ALL WINDOWS COVERED	772	68	167	119	163	109	70	56	15	4	1	11000
NONE ADDED OR INSTALLED	675	62	144	100	130	101	64	54	15	4	1	11200
SOME OR ALL ADDED OR INSTALLED	84	2	21	17	28	8	5	2	-	-	-	10300
NOT REPORTED	14	4	2	2	6	-	1	-	-	-	-	...
NOT REPORTED	51	-	17	7	12	6	2	8	-	-	-	10700
STORM DOORS:												
NO DOORS COVERED	235	24	65	39	49	26	12	13	2	2	2	9100
SOME OR ALL DOORS COVERED	725	67	152	105	158	106	67	49	18	3	1	11200
NONE ADDED OR INSTALLED	648	56	133	97	138	98	61	44	16	3	1	11400
SOME OR ALL ADDED OR INSTALLED	50	6	13	5	14	4	5	3	1	-	-	10300
NOT REPORTED	27	5	6	3	7	3	1	2	1	-	-	...
NOT REPORTED	51	-	17	7	12	6	2	8	-	-	-	10700
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	287	33	70	51	70	30	20	10	2	2	-	9400
WITH ATTIC OR ROOF INSULATION	474	33	94	67	103	73	40	48	12	4	1	12100
NONE ADDED OR INSTALLED	425	30	85	58	91	66	37	41	11	4	1	12100
SOME OR ALL ADDED OR INSTALLED	35	3	5	3	9	6	2	7	1	-	-	...
LESS THAN 3 INCHES ADDED	-	-	-	-	-	-	-	-	-	-	-	-
3 TO 6 INCHES ADDED	7	-	-	2	1	2	2	2	-	-	-	...
6 INCHES OR MORE ADDED	11	2	2	1	2	2	-	2	-	-	-	...
DON'T KNOW	8	-	3	1	5	-	-	-	-	-	-	...
NOT REPORTED	8	1	-	-	2	2	-	3	1	-	-	...
NOT REPORTED	14	-	4	6	3	1	1	-	-	-	-	...
DON'T KNOW	199	25	53	26	35	29	19	4	6	-	2	9500
NOT REPORTED	51	-	17	7	12	6	2	8	-	-	-	10700
WALL INSULATION:												
NONE ADDED OR INSTALLED	914	84	209	139	191	128	75	60	19	6	2	10700
SOME OR ALL ADDED OR INSTALLED	23	3	3	2	9	3	2	2	-	-	-	...
NOT REPORTED	73	4	22	10	19	6	4	8	-	-	-	10000
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	734	73	173	110	137	103	67	51	15	4	1	10400
SOME OR ALL ADDED OR INSTALLED	175	13	36	25	55	24	6	11	4	-	2	11300
DON'T KNOW	48	5	9	7	15	4	5	1	-	2	-	11000
NOT REPORTED	54	-	17	8	12	6	2	8	-	-	-	10700
OTHER INSULATION:												
NONE ADDED OR INSTALLED	907	88	209	131	193	128	76	56	19	6	2	10700
SOME OR ALL ADDED OR INSTALLED	37	2	6	11	7	4	2	6	-	-	-	10000
NOT REPORTED	66	2	20	9	19	6	3	8	-	-	-	10700

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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												
OWNER OCCUPIED	9 023	257	844	688	1 501	1 308	1 374	1 690	895	327	139	19700
NO INSULATION ADDED OR INSTALLED	5 141	173	618	448	903	736	693	843	463	178	86	17900
WITH INSULATION ADDED OR INSTALLED	3 589	75	189	216	551	527	648	785	407	139	51	21800
LESS THAN $50	1 390	32	93	105	225	222	242	258	145	51	17	20400
$50 TO $99	354	8	11	24	67	52	65	77	36	10	3	21100
$100 TO $199	380	1	31	21	50	42	67	95	59	13	3	23400
$200 TO $399	418	5	7	22	59	65	70	112	50	17	10	23600
$400 OR MORE	759	22	30	30	94	115	150	180	86	34	17	23000
DON'T KNOW	134	3	10	8	22	10	29	25	19	9	-	22600
NOT REPORTED	154	5	6	7	34	21	25	38	11	5	2	20800
MEDIAN	86	63	50-	50-	67	74	92	127	112	112	245	...
NOT REPORTED OR DON'T KNOW	293	9	37	24	47	45	33	61	25	10	2	18400
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	233	5	19	21	35	34	42	45	18	10	3	20300
LESS THAN $50	59	2	10	5	12	12	13	5	-	1	-	15500
$50 TO $99	24	-	2	3	5	-	8	6	1	-	-	...
$100 TO $199	31	-	3	2	2	4	2	9	7	2	-	...
$200 TO $399	35	2	-	3	5	4	4	5	6	4	2	...
$400 OR MORE	55	2	3	5	4	12	10	13	4	3	-	21000
DON'T KNOW	6	-	-	-	2	-	2	3	-	-	-	...
NOT REPORTED	24	-	-	3	6	3	4	5	-	2	2	...
MEDIAN	162	...	...	...	...	...	86	185	...	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS	152	4	9	7	24	25	30	37	11	6	-	21300
LESS THAN $50	13	-	1	2	3	1	3	-	2	2	-	...
$50 TO $99	37	-	2	1	7	6	9	10	2	-	-	21400
$100 TO $199	47	-	3	2	4	7	10	14	6	2	-	24000
$200 TO $399	23	-	1	2	5	6	3	6	-	-	-	...
$400 OR MORE	15	-	2	1	2	4	2	2	2	-	-	...
DON'T KNOW	2	-	-	-	2	-	-	-	-	-	-	...
NOT REPORTED	14	4	2	-	2	-	2	4	-	2	-	...
MEDIAN	137	-	...	...	...	...	...	...	...	...	-	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	438	8	20	18	91	60	86	86	45	15	9	21300
LESS THAN $50	58	2	4	2	14	7	8	12	5	1	2	19500
$50 TO $99	45	1	2	2	7	7	12	11	2	2	-	21700
$100 TO $199	63	-	4	3	9	10	9	17	7	4	-	23100
$200 TO $399	90	-	2	2	16	16	19	24	6	5	1	22600
$400 OR MORE	139	5	7	5	33	13	26	20	22	2	7	21200
DON'T KNOW	24	-	1	3	5	2	6	2	2	2	-	...
NOT REPORTED	19	-	-	1	7	5	6	-	-	-	-	...
MEDIAN	270	...	...	...	314	237	282	214	400+	...	...	...
ALL OCCUPIED HOUSING UNITS	17 123	984	2 825	1 836	3 142	2 369	2 081	2 232	1 094	388	172	14600
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	7 321	104	165	319	1 143	1 205	1 368	1 661	891	326	139	22600
DRIVES SELF	5 034	67	95	196	819	851	927	1 146	601	227	104	22600
CARPOOL	1 224	9	18	56	148	191	270	337	140	45	11	23500
MASS TRANSPORTATION	560	11	20	31	94	81	77	100	97	28	21	22700
BICYCLE OR MOTORCYCLE	47	1	1	1	9	6	17	6	6	-	1	21800
TAXICAB	2	-	-	2	-	-	-	-	-	-	-	...
WALKS ONLY	250	4	10	22	41	50	48	38	25	12	-	19800
OTHER MEANS	40	2	1	3	6	3	4	7	8	5	-	25900
WORKS AT HOME	141	9	17	6	23	20	21	24	12	8	3	19000
NOT REPORTED	24	2	2	2	2	5	3	4	3	2	-	...
RENTER OCCUPIED	4 103	137	464	700	1 109	728	463	340	105	38	19	13400
DRIVES SELF	2 017	52	163	318	567	389	265	186	54	13	10	14200
CARPOOL	516	16	63	89	119	95	69	48	14	1	2	13800
MASS TRANSPORTATION	1 009	31	145	174	285	164	95	69	28	11	6	12700
BICYCLE OR MOTORCYCLE	36	3	8	5	7	4	5	2	2	-	-	10800
TAXICAB	25	-	4	4	5	4	-	3	-	5	-	...
WALKS ONLY	398	29	63	89	100	60	21	25	5	6	-	10900
OTHER MEANS	23	3	2	4	6	6	2	-	-	-	-	...
WORKS AT HOME	59	3	13	12	14	1	6	7	-	2	1	10400
NOT REPORTED	21	-	3	5	6	5	-	-	2	-	-	...
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	7 321	104	165	319	1 143	1 205	1 368	1 661	891	326	139	22600
LESS THAN 1 MILE	487	5	10	49	79	106	91	80	42	18	5	19700
1 TO 4 MILES	1 429	31	54	73	240	244	284	305	135	38	27	21300
5 TO 9 MILES	1 326	13	23	57	240	192	231	313	164	57	35	23000
10 TO 19 MILES	1 582	9	19	71	222	306	302	386	197	50	20	22700
20 TO 29 MILES	646	8	7	10	99	109	126	166	80	30	12	23600
30 TO 49 MILES	460	2	6	8	62	55	101	104	68	41	15	24800
50 MILES OR MORE	141	3	2	1	14	15	33	34	25	14	1	25700
WORKS AT HOME	141	9	17	6	23	20	21	24	12	8	3	19000
NO FIXED PLACE OF WORK	914	18	20	33	128	121	153	209	147	62	23	24500
NOT REPORTED	196	7	8	12	35	37	27	41	22	8	-	19900
MEDIAN	9.2	4.9	4.7	6.1	8.3	9.2	9.5	9.9	10.7	12.1	8.5	...
RENTER OCCUPIED	4 103	137	464	700	1 109	728	463	340	105	38	19	13400
LESS THAN 1 MILE	525	35	86	114	143	71	38	27	7	5	1	11000
1 TO 4 MILES	1 056	46	116	204	282	199	105	61	21	13	9	12900
5 TO 9 MILES	788	15	96	128	222	151	90	56	20	6	3	13500
10 TO 19 MILES	794	9	68	128	220	149	100	87	24	6	3	14400
20 TO 29 MILES	274	10	20	32	72	48	46	31	14	2	-	15400
30 TO 49 MILES	97	2	2	12	31	18	15	15	2	-	-	15200
50 MILES OR MORE	32	2	-	3	10	5	7	4	-	2	-	...
WORKS AT HOME	59	3	13	12	14	1	6	7	-	2	1	10400
NO FIXED PLACE OF WORK	341	14	45	36	83	65	47	37	13	2	-	14600
NOT REPORTED	136	-	19	32	32	22	9	15	3	2	2	12600
MEDIAN	6.3	3.1	4.7	4.8	6.4	6.7	8.2	9.7	9.1	...	...	...

[1]LIMITED TO HEADS 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: 1979--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												
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	7 321	104	165	319	1 143	1 205	1 368	1 661	891	326	139	22600
LESS THAN 15 MINUTES	1 983	31	61	117	326	371	370	412	191	65	39	21200
15 TO 29 MINUTES	2 113	23	34	99	347	358	426	494	227	82	25	22300
30 TO 44 MINUTES	1 101	5	13	27	155	185	216	277	156	39	30	23800
45 TO 59 MINUTES	422	3	7	18	66	65	76	105	57	20	6	23500
1 HOUR TO 1 HOUR AND 29 MINUTES	396	8	7	11	53	48	68	99	59	30	12	25100
1 HOUR AND 30 MINUTES OR MORE	154	2	4	1	29	23	23	23	29	17	3	23900
WORKS AT HOME	141	9	17	6	23	20	21	24	12	8	3	19000
NO FIXED PLACE OF WORK	914	18	20	33	128	121	153	209	147	62	23	24500
NOT REPORTED	96	5	2	8	15	14	16	19	13	3	-	21100
MEDIAN	22.8	18.1	15.9	17.9	22.0	21.4	22.7	23.8	26.1	26.2	25.7	...
RENTER OCCUPIED	4 103	137	464	700	1 109	728	463	340	105	38	19	13400
LESS THAN 15 MINUTES	1 192	57	138	215	334	206	128	81	17	8	7	12800
15 TO 29 MINUTES	1 201	33	123	235	319	223	135	84	31	14	3	13300
30 TO 44 MINUTES	665	11	87	106	170	113	68	63	32	10	5	13800
45 TO 59 MINUTES	299	10	27	39	97	48	34	32	8	-	3	13800
1 HOUR TO 1 HOUR AND 29 MINUTES	249	7	21	34	67	55	35	29	2	-	-	14700
1 HOUR AND 30 MINUTES OR MORE	69	2	9	17	19	9	7	6	-	2	-	12000
WORKS AT HOME	59	3	13	12	14	1	6	7	-	2	1	10400
NO FIXED PLACE OF WORK	341	14	45	36	83	65	47	37	13	2	-	14600
NOT REPORTED	27	-	2	6	6	8	2	-	2	2	-	...
MEDIAN	23.0	16.2	22.7	21.8	22.9	23.1	23.3	26.8	28.1	...	...	...

[1]LIMITED TO HEADS 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: 1979

(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]	8 208	118	489	869	1 518	1 522	1 153	1 217	778	476	68	47300
HOUSE HEATING FUEL												
UTILITY GAS	3 461	60	243	374	700	598	475	475	313	196	25	45900
BOTTLED, TANK, OR LP GAS	57	2	6	12	12	5	9	9	1	3	-	37500
FUEL OIL	4 026	36	200	406	705	801	591	633	384	233	38	48300
KEROSENE, ETC	42	6	7	11	9	2	2	4	-	-	-	26600
ELECTRICITY	480	1	11	33	65	93	62	92	75	43	4	55800
COAL OR COKE	79	10	15	25	12	11	3	1	2	-	-	25700
WOOD	60	3	5	9	14	12	12	3	3	-	-	39800
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	3	-	1	-	-	-	-	-	-	2	-	...
WATER HEATING FUEL												
NO HOT PIPED WATER	19	10	4	3	1	1	-	-	-	-	-	...
WITH HOT PIPED WATER	8 188	107	485	866	1 517	1 521	1 153	1 217	778	476	68	47400
FUEL USED:												
UTILITY GAS	3 860	72	277	438	760	674	522	534	355	206	22	45700
BOTTLED, TANK, OR LP GAS	188	5	25	48	44	21	16	17	8	4	-	33700
FUEL OIL	2 395	7	52	160	380	500	393	452	239	178	35	52500
KEROSENE, ETC	4	-	2	1	1	-	-	-	-	-	-	...
ELECTRICITY	1 715	19	128	215	329	322	216	213	174	88	11	45200
COAL OR COKE	14	3	1	3	2	3	2	-	-	-	-	...
WOOD	9	-	-	2	2	-	4	2	-	1	-	...
SOLAR HEAT	2	-	-	-	-	-	1	-	2	-	-	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	1	1	-	-	-	-	-	-	-	-	-	...
COOKING FUEL												
UTILITY GAS	3 408	78	260	389	690	606	501	454	263	151	16	44700
BOTTLED, TANK, OR LP GAS	520	20	59	100	99	86	59	48	30	15	3	38200
FUEL OIL	19	1	-	1	5	2	2	5	2	2	-	...
KEROSENE, ETC	4	1	-	1	1	-	2	-	-	-	-	...
ELECTRICITY	4 244	15	168	375	721	825	589	709	484	308	49	50300
COAL OR COKE	4	2	-	3	-	-	-	-	-	-	-	...
WOOD	5	1	2	2	1	1	-	-	-	-	-	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	2	-	1	-	-	2	-	-	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	86	5	19	18	10	14	11	5	4	-	-	30700
$10 TO $19	882	35	117	162	250	133	84	68	20	10	2	35000
$20 TO $29	1 884	34	157	247	412	364	275	231	124	41	-	42500
$30 TO $39	1 949	28	109	223	369	388	276	291	164	96	3	46300
$40 TO $49	1 163	5	39	102	193	234	191	204	112	70	13	50400
$50 TO $59	819	6	24	62	128	153	122	140	98	77	9	53000
$60 TO $79	758	1	14	28	101	138	112	155	110	84	14	58600
$80 TO $99	278	2	4	14	26	45	41	44	65	35	2	62400
$100 TO $149	302	1	4	11	23	40	32	69	65	44	13	68700
$150 OR MORE	82	-	2	1	5	11	7	11	16	19	12	83500
NO ELECTRICITY USED	6	2	-	1	-	-	3	-	-	-	-	...
MEDIAN	36	25	26	30	32	36	37	41	46	52	69	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	606	14	38	93	124	101	103	81	31	18	3	43300
$10 TO $14	415	6	23	57	86	76	59	55	28	19	6	44700
$15 TO $19	325	6	35	47	72	52	37	44	24	5	3	40600
$20 TO $24	365	7	47	50	60	72	43	53	15	16	2	42500
$25 TO $29	334	12	32	50	89	53	40	30	22	7	-	38300
$30 TO $39	676	20	45	82	185	135	89	62	42	16	-	40400
$40 TO $49	720	9	50	82	145	150	96	105	61	16	4	44900
$50 TO $69	1 164	24	61	103	205	203	193	180	120	68	7	49300
$70 TO $99	541	3	32	44	83	79	69	92	73	64	2	54300
$100 OR MORE	221	1	14	19	18	24	26	30	38	40	12	64500
NO GAS USED	2 841	16	112	241	451	578	398	484	325	207	29	50600
MEDIAN	38	33	33	32	35	38	41	43	51	61	52	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	120	2	-	2	19	25	14	29	16	7	7	58800
$100 TO $199	113	1	6	9	23	15	23	19	7	9	3	51700
$200 TO $299	151	6	17	29	29	27	17	15	6	4	2	38500
$300 TO $399	318	9	31	46	77	61	36	38	12	8	-	39500
$400 TO $499	441	7	37	69	78	74	68	58	31	14	6	44100
$500 TO $599	509	14	39	61	88	115	62	76	35	13	5	44600
$600 TO $699	621	5	31	71	133	142	93	69	50	23	3	44900
$700 TO $799	521	3	15	49	82	108	84	88	60	31	3	50500
$800 OR MORE	1 691	10	54	135	256	311	253	302	198	152	19	53100
FUELS NOT USED OR FREE	3 723	61	260	398	733	645	504	523	362	215	21	46300
MEDIAN	694	529	565	627	659	685	714	748	782	800+	647	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 669	58	279	486	750	663	460	471	304	172	26	43900
HEAT PUMP	35	-	-	-	-	4	4	4	14	7	2	83500
STEAM OR HOT WATER	3 766	30	142	301	652	724	592	638	391	259	38	50600
BUILT-IN ELECTRIC UNITS	383	1	6	24	54	75	48	82	57	34	3	56700
FLOOR, WALL, OR PIPELESS FURNACE	85	8	16	17	17	9	9	5	2	2	-	31000
ROOM HEATERS WITH FLUE	113	12	27	17	13	17	14	7	5	-	-	29800
ROOM HEATERS WITHOUT FLUE	9	-	2	1	3	3	1	-	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	146	10	17	22	29	28	25	10	5	1	-	38300
NONE	3	-	1	-	-	-	-	-	-	2	-	...

[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: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	3	-	1	-	-	-	-	-	-	2	-	...
WITH HEATING EQUIPMENT	8 205	118	488	869	1 518	1 522	1 153	1 217	778	474	68	47300
NO THERMOSTAT CONTROL	144	23	30	33	22	14	15	3	2	1	-	25500
WITH THERMOSTAT CONTROL	8 041	93	458	833	1 490	1 506	1 133	1 211	776	473	68	47600
NOT CLOCK OPERATED	6 990	76	404	743	1 327	1 332	994	1 067	648	363	36	47100
CONSTANT TEMPERATURE SETTING MAINTAINED	2 457	39	166	285	519	489	346	322	192	90	9	44500
TEMPERATURE SETTING IS CHANGED	4 505	37	234	457	802	836	646	741	455	270	28	48600
OCCASIONALLY	1 144	12	83	125	249	201	158	146	115	53	3	45100
REGULARLY	3 333	25	149	326	548	627	485	592	339	217	25	49900
DON'T KNOW	23	-	2	6	3	7	3	2	1	-	-	...
NOT REPORTED	4	-	-	-	2	1	1	1	-	-	-	...
NOT REPORTED	29	-	4	2	6	7	3	4	2	3	-	...
CLOCK OPERATED	1 040	17	54	90	163	170	137	141	129	109	31	51900
NOT REPORTED	10	-	-	1	-	3	2	2	-	2	1	...
NOT REPORTED	20	2	-	3	5	3	5	3	-	-	-	...
SPECIFIED OWNER OCCUPIED[1]	8 208	118	489	869	1 518	1 522	1 153	1 217	778	476	68	47300
UNITS OCCUPIED LAST WINTER	7 811	114	475	834	1 460	1 458	1 099	1 149	730	434	60	47000
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	7 663	104	457	813	1 428	1 429	1 074	1 139	726	432	60	47200
NO ADDITIONAL HEAT SOURCE USED	7 079	82	420	739	1 319	1 329	984	1 066	687	401	52	47400
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	470	18	33	62	83	86	69	57	33	23	5	44500
NOT REPORTED	114	3	5	12	26	14	21	15	7	8	3	47300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	149	10	18	20	31	29	25	10	4	2	-	38600
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	7 663	104	457	813	1 428	1 429	1 074	1 139	726	432	60	47200
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 692	65	327	614	1 237	1 286	955	1 076	671	408	52	48600
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	859	36	125	188	168	127	98	51	45	15	5	34800
1 ROOM	361	9	41	74	61	63	55	29	21	7	1	39200
2 ROOMS	206	13	41	44	46	22	17	10	10	3	-	31100
3 ROOMS OR MORE	293	14	43	70	61	42	26	13	14	5	4	33100
NOT REPORTED	111	2	5	11	24	16	21	11	10	8	3	48500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	149	10	18	20	31	29	25	10	4	2	-	38600
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	7 663	104	457	813	1 428	1 429	1 074	1 139	726	432	60	47200
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	149	10	18	20	31	29	25	10	4	2	-	38600
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	129	8	14	18	26	23	25	10	4	1	-	39300
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	11	2	2	-	2	3	-	-	-	2	-	...
NOT REPORTED	10	-	2	2	3	3	-	-	-	-	-	...
SPECIFIED OWNER OCCUPIED[1]	8 208	118	489	869	1 518	1 522	1 153	1 217	778	476	68	47300
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	149	10	18	22	29	28	25	10	5	2	-	38400
WITH SELECTED HEATING EQUIPMENT[3]	8 059	108	471	847	1 489	1 494	1 128	1 207	773	473	68	47500
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 457	101	454	797	1 394	1 385	1 037	1 096	700	426	66	47100
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	572	5	15	47	91	102	87	110	71	44	2	53000
SOLAR HEATING EQUIPMENT	4	-	-	-	-	-	-	-	3	1	-	...
STOVE, BURNING WOOD OR COAL	321	1	8	34	55	57	51	52	38	23	2	51100
FIREPLACE, BURNING WOOD OR COAL	67	-	2	1	11	13	6	15	14	6	-	61600
PORTABLE ELECTRIC HEATER	82	2	3	7	11	12	12	16	7	11	-	54200
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	-	-	1	2	1	-	2	1	1	-	...
OTHER	87	3	2	5	11	17	17	23	7	2	-	53400
NOT REPORTED	6	-	-	-	2	1	1	2	-	-	-	...
NOT REPORTED	30	2	2	2	4	7	4	2	3	4	-	...
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	22	47	41	44	47	40	17	10	2	-	35800
WITH SELECTED HEATING EQUIPMENT[4]	7 937	95	443	829	1 473	1 475	1 113	1 200	768	473	68	47700
LESS THAN 4 YEARS	1 036	8	54	85	177	188	141	190	115	71	7	50400
4 TO 9 YEARS	1 497	27	104	171	255	277	199	196	170	88	11	46900
10 TO 19 YEARS	2 503	31	149	272	422	412	329	439	269	166	15	49200
20 TO 39 YEARS	2 259	16	81	218	480	494	361	296	175	114	24	46800
40 YEARS OR MORE	217	4	9	18	40	34	43	27	24	14	6	51200
DON'T KNOW	372	8	44	63	91	61	34	43	13	11	4	37900
NOT REPORTED	54	2	3	3	9	9	6	10	3	9	1	54200
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	22	47	41	44	47	40	17	10	2	-	35800
WITH SELECTED HEATING EQUIPMENT[4]	7 937	95	443	829	1 473	1 475	1 113	1 200	768	473	68	47700
NO MAINTENANCE OR MODIFICATION	5 117	61	321	558	995	946	698	762	476	265	35	46600
WITH MAINTENANCE OR MODIFICATION	2 773	35	119	265	471	524	409	432	287	199	33	49500
NOT REPORTED	47	-	3	5	8	4	6	6	5	10	-	55500

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

TABLE B-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	22	47	41	44	47	40	17	10	2	-	35800
WITH SELECTED HEATING EQUIPMENT[2]	7 937	95	443	829	1 473	1 475	1 113	1 200	768	473	68	47700
NO MAINTENANCE CONTRACT	5 400	80	356	647	1 051	975	723	763	479	290	37	45800
WITH MAINTENANCE CONTRACT	2 479	14	84	178	414	490	381	427	283	177	30	51600
NOT REPORTED	59	2	3	3	9	10	9	10	6	6	1	53400
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	19	10	4	3	1	1	-	-	-	-	-	...
WITH HOT PIPED WATER	8 188	107	485	866	1 517	1 521	1 153	1 217	778	476	68	47400
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 945	100	468	848	1 474	1 466	1 125	1 171	760	468	65	47400
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	37	2	2	2	7	10	3	8	-	1	3	45800
NOT REPORTED	204	5	16	16	37	46	24	38	16	7	1	46400
NOT REPORTED	1	1	-	-	-	-	-	-	-	-	-	...
AIR CONDITIONING												
WITH AIR CONDITIONING	3 915	32	153	281	636	688	602	698	459	320	47	52800
ROOM UNITS	3 137	32	139	262	574	586	512	542	299	171	21	49600
1	1 602	24	93	138	358	310	257	229	116	69	8	46100
2	1 017	8	30	102	171	180	172	197	100	51	6	51000
3	338	-	13	16	31	67	58	75	50	25	4	57400
4	121	-	4	5	8	26	23	23	16	15	2	57800
5 OR MORE	60	-	-	-	7	3	2	18	17	11	1	74500
CENTRAL SYSTEM	778	-	13	19	62	102	90	156	160	149	26	69800
WITH NO AIR CONDITIONING	4 292	86	337	588	881	834	551	519	319	156	21	43100
SPECIFIED OWNER OCCUPIED[1]	8 208	118	489	869	1 518	1 522	1 153	1 217	778	476	68	47300
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 208	118	489	869	1 518	1 522	1 153	1 217	778	476	68	47300
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	6 892	65	338	667	1 268	1 323	983	1 109	692	396	51	48400
SOME WINDOWS COVERED	953	28	108	149	177	155	126	84	62	52	12	41000
NO WINDOWS COVERED	329	25	41	51	66	39	36	22	22	22	5	37200
NOT REPORTED	34	-	2	3	7	5	9	2	2	5	-	...
STORM DOORS												
ALL DOORS COVERED	6 801	59	362	687	1 319	1 324	994	1 047	632	341	36	47400
SOME DOORS COVERED	939	24	83	125	152	130	106	118	102	84	15	46600
NO DOORS COVERED	434	34	43	55	40	63	44	50	42	45	17	47200
NOT REPORTED	34	-	2	3	7	5	9	2	2	5	-	...
ATTIC OR ROOF INSULATION												
YES	6 889	51	284	616	1 229	1 336	1 026	1 116	729	438	65	49500
NO	1 000	59	167	207	219	141	78	70	36	22	2	33100
DON'T KNOW	279	8	37	44	62	39	38	29	11	11	2	38200
NOT REPORTED	39	-	2	3	8	7	11	2	2	5	-	50400
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	329	25	41	51	66	39	36	22	22	22	5	37200
SOME OR ALL WINDOWS COVERED	7 845	93	447	816	1 445	1 478	1 108	1 194	754	448	63	47600
NONE ADDED OR INSTALLED	6 921	79	373	725	1 263	1 313	997	1 035	674	409	54	47800
SOME OR ALL ADDED OR INSTALLED	859	12	70	82	163	158	102	149	76	37	9	46500
NOT REPORTED	65	2	4	9	19	7	9	10	4	3	-	40000
NOT REPORTED	34	-	2	3	7	5	9	2	2	5	-	...
STORM DOORS:												
NO DOORS COVERED	434	34	43	55	40	63	44	50	42	45	17	47200
SOME OR ALL DOORS COVERED	7 740	83	445	812	1 471	1 454	1 100	1 165	734	425	51	47300
NONE ADDED OR INSTALLED	7 056	77	402	742	1 338	1 343	996	1 051	671	391	45	47200
SOME OR ALL ADDED OR INSTALLED	562	3	37	58	94	98	85	100	52	30	5	49100
NOT REPORTED	122	4	6	11	39	13	19	14	12	4	1	41100
NOT REPORTED	34	-	2	3	7	5	9	2	2	5	-	...
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 000	59	167	207	219	141	78	70	36	22	2	33100
WITH ATTIC OR ROOF INSULATION	6 889	51	284	616	1 229	1 336	1 026	1 116	729	438	65	49500
NONE ADDED OR INSTALLED	6 027	38	238	529	1 084	1 177	904	972	651	383	51	49600
SOME OR ALL ADDED OR INSTALLED	755	12	40	74	119	141	110	126	73	46	13	49400
LESS THAN 3 INCHES ADDED	35	1	7	7	3	4	3	2	2	5	-	36600
3 TO 6 INCHES ADDED	322	10	14	20	56	62	45	59	31	20	5	49900
6 INCHES OR MORE ADDED	284	1	11	35	53	60	44	37	23	12	7	46900
DON'T KNOW	61	-	8	9	1	8	9	7	11	6	2	55300
NOT REPORTED	53	-	-	3	6	7	8	19	6	3	-	61600
NOT REPORTED	108	-	6	12	27	18	12	19	6	8	-	45000
DON'T KNOW	279	8	37	44	62	39	38	29	11	11	2	38200
NOT REPORTED	39	-	2	3	8	7	11	2	2	5	-	50400
WALL INSULATION:												
NONE ADDED OR INSTALLED	7 461	102	427	781	1 378	1 406	1 040	1 110	728	429	59	47400
SOME OR ALL ADDED OR INSTALLED	694	16	59	85	129	107	103	100	47	40	9	45500
NOT REPORTED	52	-	4	3	10	9	10	7	3	7	-	50400
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	5 721	85	365	630	1 067	1 044	782	841	531	331	47	46800
SOME OR ALL ADDED OR INSTALLED	2 376	32	121	231	426	461	357	358	240	128	21	48200
DON'T KNOW	67	-	-	6	17	12	4	12	6	10	-	48500
NOT REPORTED	44	-	4	3	7	5	10	7	2	7	-	53700
OTHER INSULATION:												
NONE ADDED OR INSTALLED	7 656	110	450	819	1 434	1 442	1 059	1 125	729	426	62	47000
SOME OR ALL ADDED OR INSTALLED	491	6	36	47	73	73	84	80	43	43	6	51200
NOT REPORTED	61	1	4	3	10	7	11	12	6	7	-	55000

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]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: 1979--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												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	4 646	69	294	519	849	859	624	670	442	278	41	46900
WITH INSULATION ADDED OR INSTALLED	3 306	45	186	324	599	624	492	514	318	177	27	48000
LESS THAN $50	1 274	15	80	124	232	265	210	174	120	51	5	47000
$50 TO $99	328	8	24	45	67	62	41	27	31	24	-	43300
$100 TO $199	346	6	22	32	59	50	56	67	32	22	2	50900
$200 TO $399	393	7	19	24	78	91	55	61	36	19	2	47500
$400 OR MORE	697	6	38	70	114	117	103	125	69	41	15	50500
DON'T KNOW	126	2	2	15	22	15	19	26	15	9	-	53200
NOT REPORTED	141	1	2	15	27	24	9	34	15	10	3	51400
MEDIAN	87	83	73	76	81	72	77	139	89	115	...	...
NOT REPORTED OR DON'T KNOW	256	4	9	26	70	38	37	33	18	21	1	45300
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	214	2	21	20	52	28	25	36	18	12	-	44400
LESS THAN $50	49	1	10	4	14	5	6	3	4	2	-	36900
$50 TO $99	23	-	3	3	7	5	3	2	1	-	-	...
$100 TO $199	29	-	1	2	12	3	2	4	5	2	-	...
$200 TO $399	33	-	3	5	2	7	7	7	1	1	-	...
$400 OR MORE	54	-	3	2	14	8	8	14	2	2	-	48700
DON'T KNOW	5	-	-	1	-	-	-	3	-	2	-	...
NOT REPORTED	22	1	1	3	3	1	-	4	5	4	-	...
MEDIAN	175	...	...	...	132	...	...	...	...	...	-	...
ONLY ADDED OR INSTALLED STORM DOORS	136	-	12	17	18	26	22	24	13	5	-	48400
LESS THAN $50	12	-	2	4	-	2	1	4	-	-	-	...
$50 TO $99	32	-	1	7	8	8	4	3	2	-	-	...
$100 TO $199	44	-	2	5	4	7	6	11	7	2	-	56300
$200 TO $399	22	-	3	1	5	3	5	2	2	1	-	...
$400 OR MORE	10	-	2	1	-	-	4	2	1	-	-	...
DON'T KNOW	2	-	-	-	-	-	2	-	-	-	-	...
NOT REPORTED	14	-	2	-	1	6	-	1	2	3	-	...
MEDIAN	135	-	...	...	...	...	...	...	...	...	-	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	394	8	22	38	68	65	64	69	32	24	3	49300
LESS THAN $50	52	3	5	7	7	6	11	7	2	2	-	43700
$50 TO $99	40	-	3	2	11	4	11	3	3	3	-	50400
$100 TO $199	56	1	4	5	7	11	8	13	4	3	-	49900
$200 TO $399	85	2	4	2	15	12	15	17	9	8	-	54500
$400 OR MORE	127	2	5	14	18	28	13	23	12	7	3	48500
DON'T KNOW	20	-	-	3	5	3	4	2	2	1	-	...
NOT REPORTED	15	-	-	4	4	2	2	3	-	-	-	...
MEDIAN	275	...	...	...	250	362	190	297	...	...	...	...

[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: 1979

(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]	6 821	487	790	1 359	1 426	1 142	624	368	252	150	222	223
HOUSE HEATING FUEL												
UTILITY GAS	2 389	176	346	536	492	343	208	94	80	37	76	210
BOTTLED, TANK, OR LP GAS	38	2	10	7	7	5	-	4	-	2	2	194
FUEL OIL	3 784	224	367	732	827	693	347	231	141	91	130	230
KEROSENE, ETC	34	5	5	10	8	3	-	-	-	-	3	...
ELECTRICITY	506	69	49	53	85	94	68	37	31	14	6	246
COAL OR COKE	32	5	7	11	2	2	-	-	-	-	3	...
WOOD	20	5	5	4	2	2	1	-	-	-	2	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	-	3	2	-	-	2	-	7	-	...
NONE	4	-	2	3	-	-	-	-	-	-	-	...
WATER HEATING FUEL												
NO HOT PIPED WATER	47	26	17	3	-	-	-	-	-	-	2	100-
WITH HOT PIPED WATER	6 773	461	774	1 356	1 426	1 142	624	368	252	150	221	224
FUEL USED:												
UTILITY GAS	2 677	168	364	604	555	405	245	122	90	38	87	214
BOTTLED, TANK, OR LP GAS	70	6	18	15	9	7	1	3	2	2	8	176
FUEL OIL	3 105	198	299	592	685	586	269	195	117	82	83	230
KEROSENE, ETC	1	-	1	-	-	-	-	-	-	-	-	...
ELECTRICITY	876	85	88	131	176	138	105	46	43	26	39	232
COAL OR COKE	14	2	2	7	-	1	2	-	-	-	2	...
WOOD	1	-	-	1	-	-	-	-	-	-	-	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	25	3	3	7	2	3	3	-	-	2	2	...
NONE	4	-	-	1	-	2	-	2	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	4 722	296	567	1 011	1 031	805	407	241	156	86	122	220
BOTTLED, TANK, OR LP GAS	226	11	39	44	43	20	22	6	10	5	27	207
FUEL OIL	15	3	7	-	1	2	2	-	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 777	142	150	292	348	314	192	121	87	58	74	238
COAL OR COKE	2	-	-	-	-	1	1	-	-	-	-	...
WOOD	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	-	2	3	-	-	-	-	-	-	-	...
NONE	75	35	27	10	3	-	-	-	-	-	-	104
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	318	27	49	101	79	38	7	7	2	-	9	188
$10 TO $19	1 748	68	242	441	419	305	153	49	31	12	29	213
$20 TO $29	1 547	16	114	291	416	346	176	81	46	21	42	239
$30 TO $39	801	4	40	118	187	180	87	76	53	30	26	261
$40 TO $49	379	3	19	33	67	76	78	42	27	27	7	292
$50 TO $59	153	-	2	8	23	34	25	26	18	9	7	309
$60 TO $79	132	-	5	8	12	23	28	24	13	14	5	327
$80 TO $99	35	-	-	4	2	1	4	4	14	3	2	...
$100 TO $149	32	-	-	1	-	5	4	3	9	9	1	...
$150 OR MORE	12	-	-	-	-	-	-	-	3	8	-	...
INCLUDED IN RENT	1 651	363	319	351	220	133	61	57	36	17	93	164
NO ELECTRICITY USED	14	6	2	3	2	-	-	-	-	-	1	...
MEDIAN	23	14	17	18	22	24	26	32	35	41	26	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	1 206	33	138	293	287	228	97	58	30	14	28	221
$10 TO $14	656	13	65	153	175	121	53	27	21	13	16	225
$15 TO $19	378	4	36	59	116	84	40	18	6	8	8	237
$20 TO $24	253	10	43	47	66	36	17	16	14	2	3	219
$25 TO $29	171	3	23	41	35	33	20	7	-	2	9	221
$30 TO $39	295	5	51	70	51	27	46	14	10	6	15	214
$40 TO $49	204	5	20	57	38	34	17	13	13	1	8	222
$50 TO $69	239	-	19	51	56	48	27	11	12	6	9	240
$70 TO $99	105	-	1	19	33	17	10	7	8	8	2	248
$100 OR MORE	31	-	-	-	3	8	7	-	2	9	1	...
INCLUDED IN RENT	2 244	317	301	410	365	326	176	132	92	42	83	207
NO GAS USED	1 038	97	95	161	202	179	115	65	44	39	41	235
MEDIAN	13	11	14	13	13	13	17	15	20	19	18	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	37	6	2	7	4	7	2	2	4	-	2	224
$100 TO $199	28	2	2	6	3	9	1	4	-	-	1	...
$200 TO $299	48	3	13	13	6	5	1	-	1	1	6	169
$300 TO $399	84	5	8	18	27	9	4	-	5	1	6	214
$400 TO $499	91	2	4	25	17	13	10	2	7	2	9	228
$500 TO $599	99	2	4	20	25	20	11	6	8	2	1	246
$600 TO $699	95	-	2	11	21	16	16	3	6	10	9	276
$700 TO $799	64	-	2	10	21	16	11	2	1	1	1	248
$800 OR MORE	221	-	-	8	29	46	30	43	27	18	19	329
INCLUDED IN RENT	3 444	276	401	687	721	619	300	176	119	65	80	222
FUELS NOT USED OR FREE	2 610	190	352	554	552	382	238	128	75	50	87	215
MEDIAN	596	...	315	458	578	649	688	800+	671	...	622	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 515	80	147	300	314	214	155	81	90	56	78	230
HEAT PUMP	9	-	5	-	1	3	-	-	-	-	-	...
STEAM OR HOT WATER	4 329	300	455	837	940	814	399	251	131	86	116	227
BUILT-IN ELECTRIC UNITS	440	69	43	49	71	82	56	34	23	6	6	238
FLOOR, WALL, OR PIPELESS FURNACE	45	1	6	8	9	3	8	2	5	-	2	235
ROOM HEATERS WITH FLUE	384	21	114	132	78	21	-	-	3	-	14	169
ROOM HEATERS WITHOUT FLUE	42	8	5	14	8	2	3	-	-	2	1	178
FIREPLACES, STOVES, OR PORTABLE HEATERS	53	8	14	17	5	2	3	-	1	-	5	157
NONE	4	-	2	3	-	-	-	-	-	-	-	...

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

TABLE B-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	4	-	2	3	-	-	-	-	-	-	-	...
WITH HEATING EQUIPMENT	6 816	487	789	1 357	1 426	1 142	624	368	252	150	222	223
NO THERMOSTAT CONTROL	3 519	320	511	825	728	540	233	145	81	56	80	204
WITH THERMOSTAT CONTROL	3 286	167	273	528	699	601	391	223	171	92	141	242
NOT CLOCK OPERATED	2 920	151	231	475	620	540	354	194	153	74	127	243
CONSTANT TEMPERATURE SETTING MAINTAINED	1 055	67	100	186	223	172	124	60	48	20	55	232
TEMPERATURE SETTING IS CHANGED	1 807	80	127	286	381	355	223	129	104	53	70	248
OCCASIONALLY	597	31	45	102	137	111	66	33	33	12	26	238
REGULARLY	1 185	47	78	179	237	239	155	96	71	40	44	256
DON'T KNOW	25	2	4	4	7	5	3	-	-	1	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	58	4	4	3	16	14	7	6	1	2	2	252
CLOCK OPERATED	358	16	38	52	77	59	36	28	18	18	14	241
NOT REPORTED	8	-	3	2	2	2	-	-	-	-	-	...
NOT REPORTED	11	-	5	4	-	-	-	-	-	2	1	...
SPECIFIED RENTER OCCUPIED[1]	6 821	487	790	1 359	1 426	1 142	624	368	252	150	222	223
UNITS OCCUPIED LAST WINTER	5 380	434	674	1 088	1 090	856	492	269	185	105	187	218
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	5 310	422	663	1 066	1 079	854	487	269	184	103	183	219
NO ADDITIONAL HEAT SOURCE USED	4 218	365	504	845	834	683	394	204	150	89	151	219
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	965	49	145	195	221	153	81	52	28	12	28	218
NOT REPORTED	127	8	14	27	24	18	12	12	6	2	4	226
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	71	12	12	22	11	3	5	-	1	2	4	171
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	5 310	422	663	1 066	1 079	854	487	269	184	103	183	219
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 536	381	507	855	927	772	443	237	164	97	152	224
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	646	31	139	187	126	65	33	19	15	5	27	187
1 ROOM	275	16	44	72	58	39	21	6	9	3	7	201
2 ROOMS	178	6	46	52	32	13	8	9	3	-	8	181
3 ROOMS OR MORE	194	10	48	62	36	13	4	4	3	2	11	176
NOT REPORTED	128	9	17	25	26	17	12	12	5	2	4	221
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	71	12	12	22	11	3	5	-	1	2	4	171
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	5 310	422	663	1 066	1 079	854	487	269	184	103	183	219
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	71	12	12	22	11	3	5	-	1	2	4	171
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	40	10	10	12	3	1	2	-	-	-	3	143
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	21	2	-	8	5	-	4	-	1	-	1	...
NOT REPORTED	10	-	2	2	3	2	-	-	-	2	-	...
SPECIFIED RENTER OCCUPIED[1]	6 821	487	790	1 359	1 426	1 142	624	368	252	150	222	223
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	58	8	16	19	5	2	3	-	1	-	5	157
WITH SELECTED HEATING EQUIPMENT[3]	6 763	479	775	1 340	1 421	1 140	621	368	252	150	218	223
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 372	460	720	1 243	1 336	1 066	596	355	245	141	209	224
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	363	15	52	93	79	71	22	13	7	6	6	211
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	31	2	2	6	7	7	3	1	-	-	3	...
FIREPLACE, BURNING WOOD OR COAL	3	-	-	-	-	-	2	-	-	-	2	...
PORTABLE ELECTRIC HEATER	275	10	39	69	66	56	13	7	5	6	3	213
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	2	5	4	2	2	2	2	-	-	...
OTHER	29	4	9	8	2	3	2	3	-	-	-	...
NOT REPORTED	7	-	-	5	-	2	-	-	-	-	-	...
NOT REPORTED	28	3	3	3	7	3	3	-	-	2	2	...
AIR CONDITIONING												
WITH AIR CONDITIONING	2 459	68	140	308	492	551	355	224	153	106	62	267
ROOM UNITS	2 098	65	133	291	444	489	281	169	102	65	60	259
1	1 454	59	111	231	349	348	160	88	43	26	39	243
2	532	6	17	50	93	120	110	64	51	11	10	289
3	96	-	5	9	2	14	12	18	8	22	6	359
4	9	-	-	-	-	5	-	-	-	3	1	...
5 OR MORE	7	-	-	-	-	2	-	-	-	2	3	...
CENTRAL SYSTEM	361	3	7	17	49	63	74	54	51	41	2	327
WITH NO AIR CONDITIONING	4 362	419	651	1 052	934	590	269	144	99	44	160	198

[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: 1979--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]	6 821	487	790	1 359	1 426	1 142	624	368	252	150	222	223
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	965	57	95	171	142	115	100	55	70	54	108	237
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	564	28	48	84	84	66	65	38	48	34	69	253
SOME WINDOWS COVERED	174	6	21	40	28	15	18	14	5	10	17	220
NO WINDOWS COVERED	176	17	21	42	20	28	11	3	12	8	14	200
NOT REPORTED	49	6	4	5	10	5	7	-	5	2	6	231
STORM DOORS												
ALL DOORS COVERED	550	30	50	83	75	63	62	39	43	35	71	251
SOME DOORS COVERED	145	7	24	32	24	17	11	5	9	6	12	207
NO DOORS COVERED	220	13	17	52	33	30	20	11	14	12	18	229
NOT REPORTED	49	6	4	5	10	5	7	-	5	2	6	231
ATTIC OR ROOF INSULATION												
YES	443	19	48	61	54	43	40	39	45	26	70	256
NO	278	20	34	66	40	40	23	6	11	14	24	208
DON'T KNOW	195	12	9	40	38	28	30	10	9	13	7	244
NOT REPORTED	49	6	4	5	10	5	7	-	5	2	6	231

[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: 1979

(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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	17 123	9 701	3 537	939	640	1 972	333
HOUSE HEATING FUEL							
OWNER OCCUPIED	10 256	8 752	1 022	55	19	136	271
UTILITY GAS	4 162	3 596	483	26	-	11	46
BOTTLED, TANK, OR LP GAS	81	67	-	-	-	-	14
FUEL OIL	5 116	4 315	490	26	15	117	151
KEROSENE, ETC	94	46	2	-	-	-	46
ELECTRICITY	600	534	43	3	4	6	9
COAL OR COKE	101	100	2	-	-	-	-
WOOD	96	90	2	-	-	-	5
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	2	-	-	-	-	2	-
NONE	5	4	2	-	-	-	-
RENTER OCCUPIED	6 867	948	2 514	884	621	1 837	63
UTILITY GAS	2 396	406	1 134	304	206	334	12
BOTTLED, TANK, OR LP GAS	41	14	18	3	-	2	4
FUEL OIL	3 812	438	1 214	473	344	1 313	30
KEROSENE, ETC	36	13	7	3	2	-	11
ELECTRICITY	509	45	122	95	68	175	4
COAL OR COKE	32	15	12	2	-	3	-
WOOD	24	17	6	-	-	-	1
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	13	-	-	3	-	10	-
NONE	4	1	2	-	2	-	-
WATER HEATING FUEL							
OWNER OCCUPIED	10 256	8 752	1 022	55	19	136	271
NO HOT PIPED WATER	30	28	-	-	-	-	2
WITH HOT PIPED WATER	10 225	8 723	1 022	55	19	136	269
FUEL USED:							
UTILITY GAS	4 628	3 977	596	28	-	9	19
BOTTLED, TANK, OR LP GAS	250	228	8	-	-	-	14
FUEL OIL	3 019	2 530	325	23	12	116	13
KEROSENE, ETC	8	5	-	-	-	-	2
ELECTRICITY	2 279	1 945	93	5	7	9	220
COAL OR COKE	22	21	-	-	-	-	1
WOOD	16	15	1	-	-	-	-
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-
NONE	2	-	-	-	-	2	-
NOT REPORTED	1	1	-	-	-	-	-
RENTER OCCUPIED	6 867	948	2 514	884	621	1 837	63
NO HOT PIPED WATER	49	8	5	6	19	10	1
WITH HOT PIPED WATER	6 818	940	2 510	878	602	1 827	62
FUEL USED:							
UTILITY GAS	2 683	442	1 415	359	186	275	5
BOTTLED, TANK, OR LP GAS	79	49	25	3	-	-	1
FUEL OIL	3 112	221	810	402	313	1 363	3
KEROSENE, ETC	1	1	-	-	-	-	-
ELECTRICITY	899	222	252	109	95	169	52
COAL OR COKE	14	4	2	-	5	3	-
WOOD	1	1	-	-	-	-	-
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	25	-	4	5	3	13	-
NONE	4	1	-	-	-	3	-
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	10 256	8 752	1 022	55	19	136	271
UTILITY GAS	4 434	3 499	734	39	7	119	36
BOTTLED, TANK, OR LP GAS	812	619	19	-	-	-	175
FUEL OIL	21	21	-	-	-	-	-
KEROSENE, ETC	6	6	-	-	-	-	-
ELECTRICITY	4 952	4 578	269	17	12	16	60
COAL OR COKE	5	5	-	-	-	-	-
WOOD	23	23	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-
NONE	2	2	-	-	-	-	-
RENTER OCCUPIED	6 867	948	2 514	884	621	1 837	63
UTILITY GAS	4 728	466	1 826	606	369	1 449	11
BOTTLED, TANK, OR LP GAS	241	102	84	15	-	-	40
FUEL OIL	15	3	2	5	-	5	-
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 800	375	590	243	232	348	11
COAL OR COKE	2	1	-	1	-	-	-
WOOD	2	2	-	-	-	-	-
OTHER FUEL	4	-	3	-	-	2	-
NONE	75	-	9	13	19	33	-

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1979--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	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]	8 208	8 208	NA	NA	NA	NA	NA
LESS THAN $10	86	86	NA	NA	NA	NA	NA
$10 TO $19	882	882	NA	NA	NA	NA	NA
$20 TO $29	1 884	1 884	NA	NA	NA	NA	NA
$30 TO $39	1 949	1 949	NA	NA	NA	NA	NA
$40 TO $49	1 163	1 163	NA	NA	NA	NA	NA
$50 TO $59	819	819	NA	NA	NA	NA	NA
$60 TO $79	758	758	NA	NA	NA	NA	NA
$80 TO $99	278	278	NA	NA	NA	NA	NA
$100 TO $149	302	302	NA	NA	NA	NA	NA
$150 OR MORE	82	82	NA	NA	NA	NA	NA
NO ELECTRICITY USED	6	6	NA	NA	NA	NA	NA
MEDIAN	36	36	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	6 821	902	2 514	884	621	1 837	63
LESS THAN $10	318	14	142	48	48	66	1
$10 TO $19	1 748	168	748	253	182	388	8
$20 TO $29	1 547	234	615	182	113	379	24
$30 TO $39	801	162	316	76	47	187	12
$40 TO $49	379	79	138	51	22	84	5
$50 TO $59	153	41	51	23	13	19	6
$60 TO $79	132	38	52	6	10	25	1
$80 TO $99	35	9	10	6	2	8	-
$100 TO $149	32	8	14	-	2	8	-
$150 OR MORE	12	3	5	-	-	3	-
INCLUDED IN RENT	1 651	144	416	237	181	667	7
NO ELECTRICITY USED	14	2	7	2	2	2	-
MEDIAN	23	28	22	21	18	23	27
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	8 208	8 208	NA	NA	NA	NA	NA
LESS THAN $10	606	606	NA	NA	NA	NA	NA
$10 TO $14	415	415	NA	NA	NA	NA	NA
$15 TO $19	325	325	NA	NA	NA	NA	NA
$20 TO $24	365	365	NA	NA	NA	NA	NA
$25 TO $29	334	334	NA	NA	NA	NA	NA
$30 TO $39	676	676	NA	NA	NA	NA	NA
$40 TO $49	720	720	NA	NA	NA	NA	NA
$50 TO $69	1 164	1 164	NA	NA	NA	NA	NA
$70 TO $99	541	541	NA	NA	NA	NA	NA
$100 OR MORE	221	221	NA	NA	NA	NA	NA
NO GAS USED	2 841	2 841	NA	NA	NA	NA	NA
MEDIAN	38	38	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	6 821	902	2 514	884	621	1 837	63
LESS THAN $10	1 206	73	443	156	118	392	24
$10 TO $14	656	50	290	94	53	164	6
$15 TO $19	378	44	196	48	17	72	2
$20 TO $24	253	52	139	30	13	17	3
$25 TO $29	171	30	86	17	13	22	2
$30 TO $39	295	79	165	21	2	23	6
$40 TO $49	204	67	116	18	-	3	-
$50 TO $69	239	85	130	20	-	3	2
$70 TO $99	105	38	58	6	2	-	2
$100 OR MORE	31	11	17	2	-	2	-
INCLUDED IN RENT	2 244	163	541	325	269	937	9
NO GAS USED	1 038	210	334	148	135	202	7
MEDIAN	13	32	17	12	10-	10-	10-
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	8 208	8 208	NA	NA	NA	NA	NA
LESS THAN $100	120	120	NA	NA	NA	NA	NA
$100 TO $199	113	113	NA	NA	NA	NA	NA
$200 TO $299	151	151	NA	NA	NA	NA	NA
$300 TO $399	318	318	NA	NA	NA	NA	NA
$400 TO $499	441	441	NA	NA	NA	NA	NA
$500 TO $599	509	509	NA	NA	NA	NA	NA
$600 TO $699	621	621	NA	NA	NA	NA	NA
$700 TO $799	521	521	NA	NA	NA	NA	NA
$800 OR MORE	1 691	1 691	NA	NA	NA	NA	NA
FUELS NOT USED OR FREE	3 723	3 723	NA	NA	NA	NA	NA
MEDIAN	694	694	NA	NA	NA	NA	NA

[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: 1979--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	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.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	6 821	902	2 514	884	621	1 837	63
LESS THAN $100	37	9	19	2	-	5	2
$100 TO $199	28	10	8	3	-	5	2
$200 TO $299	48	17	22	-	-	-	9
$300 TO $399	84	39	34	3	-	-	8
$400 TO $499	91	45	37	4	-	-	5
$500 TO $599	99	53	38	2	-	-	6
$600 TO $699	95	51	37	3	-	-	3
$700 TO $799	64	24	38	-	-	-	2
$800 OR MORE	221	107	112	2	-	-	1
INCLUDED IN RENT	3 444	150	1 063	464	392	1 371	4
FUELS NOT USED OR FREE	2 610	397	1 107	401	228	456	19
MEDIAN	596	608	641	...	-	...	368
ALL OCCUPIED HOUSING UNITS	17 123	9 701	3 537	939	640	1 972	333
HEATING EQUIPMENT							
OWNER OCCUPIED	10 256	8 752	1 022	55	19	136	271
WARM-AIR FURNACE	4 439	3 902	256	15	6	14	245
HEAT PUMP	48	47	-	-	-	-	1
STEAM OR HOT WATER	4 776	3 949	660	35	9	116	7
BUILT-IN ELECTRIC UNITS	474	418	39	3	4	6	3
FLOOR, WALL, OR PIPELESS FURNACE	101	92	6	-	-	-	3
ROOM HEATERS WITH FLUE	185	129	53	2	-	-	1
ROOM HEATERS WITHOUT FLUE	14	12	2	-	-	-	-
FIREPLACES, STOVES, OR PORTABLE HEATERS	214	199	5	-	-	-	10
NONE	5	4	2	-	-	-	-
RENTER OCCUPIED	6 867	948	2 514	884	621	1 837	63
WARM-AIR FURNACE	1 536	454	618	136	121	150	57
HEAT PUMP	9	-	-	2	2	5	1
STEAM OR HOT WATER	4 337	334	1 461	609	418	1 514	1
BUILT-IN ELECTRIC UNITS	442	38	106	82	59	155	1
FLOOR, WALL, OR PIPELESS FURNACE	48	28	15	-	-	4	1
ROOM HEATERS WITH FLUE	388	63	252	52	16	3	1
ROOM HEATERS WITHOUT FLUE	43	5	30	-	3	5	-
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	25	30	3	-	-	1
NONE	4	1	2	-	2	-	-
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	10 256	8 752	1 022	55	19	136	271
NO HEATING EQUIPMENT	5	4	2	-	-	-	-
WITH HEATING EQUIPMENT	10 250	8 749	1 021	55	19	136	271
NO THERMOSTAT CONTROL	437	217	91	5	4	116	4
WITH THERMOSTAT CONTROL	9 786	8 509	928	50	16	18	265
NOT CLOCK OPERATED	8 424	7 420	684	38	14	15	253
CONSTANT TEMPERATURE SETTING MAINTAINED	2 996	2 611	279	14	3	2	86
TEMPERATURE SETTING IS CHANGED	5 392	4 778	401	22	11	13	167
OCCASIONALLY	1 376	1 204	121	7	9	5	30
REGULARLY	3 982	3 545	275	15	2	8	137
DON'T KNOW	30	24	6	-	-	-	-
NOT REPORTED	4	4	-	-	-	-	-
NOT REPORTED	36	31	3	2	-	-	-
CLOCK OPERATED	1 352	1 078	244	12	2	4	12
NOT REPORTED	10	10	-	-	-	-	-
NOT REPORTED	27	23	1	-	-	2	1
RENTER OCCUPIED	6 867	948	2 514	884	621	1 837	63
NO HEATING EQUIPMENT	4	1	2	-	2	-	-
WITH HEATING EQUIPMENT	6 863	947	2 513	884	619	1 837	63
NO THERMOSTAT CONTROL	3 530	120	1 119	504	324	1 460	2
WITH THERMOSTAT CONTROL	3 321	824	1 392	379	295	370	60
NOT CLOCK OPERATED	2 951	724	1 227	345	269	328	58
CONSTANT TEMPERATURE SETTING MAINTAINED	1 071	278	430	128	91	120	23
TEMPERATURE SETTING IS CHANGED	1 823	439	773	203	168	205	34
OCCASIONALLY	602	119	268	65	62	76	13
REGULARLY	1 195	315	494	137	106	123	21
DON'T KNOW	25	5	11	2	1	7	-
NOT REPORTED	-	-	-	-	-	-	-
NOT REPORTED	58	8	23	13	10	3	1
CLOCK OPERATED	361	100	162	34	26	36	2
NOT REPORTED	8	-	3	-	-	5	-
NOT REPORTED	12	3	2	1	-	7	-

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	17 123	9 701	3 537	939	640	1 972	333
UNITS OCCUPIED LAST WINTER	15 173	9 090	2 930	714	483	1 670	287
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	9 755	8 340	980	50	18	130	238
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	8 134	971	50	18	130	228
NO ADDITIONAL HEAT SOURCE USED	8 765	7 500	894	47	18	105	202
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	614	509	61	4	-	24	15
NOT REPORTED	152	124	17	-	-	-	11
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	206	9	-	-	-	10
RENTER OCCUPIED	5 418	750	1 950	664	465	1 541	49
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	728	1 904	660	463	1 537	48
NO ADDITIONAL HEAT SOURCE USED	4 243	598	1 557	507	378	1 171	33
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	969	119	314	137	67	320	14
NOT REPORTED	129	12	34	17	18	47	1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	22	46	3	2	3	1
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	9 755	8 340	980	50	18	130	238
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	8 134	971	50	18	130	228
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 251	7 026	816	47	18	128	216
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 131	987	138	1	-	2	3
1 ROOM	473	397	72	-	-	2	2
2 ROOMS	269	237	28	1	-	-	2
3 ROOMS OR MORE	390	353	37	-	-	-	-
NOT REPORTED	148	121	17	2	-	-	8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	206	9	-	-	-	10
RENTER OCCUPIED	5 418	750	1 950	664	465	1 541	49
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	728	1 904	660	463	1 537	48
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 555	571	1 525	564	427	1 421	47
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	656	144	342	81	19	69	-
1 ROOM	278	51	123	41	11	52	-
2 ROOMS	181	38	97	25	7	14	-
3 ROOMS OR MORE	197	55	122	15	2	3	-
NOT REPORTED	129	13	36	15	17	47	1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	22	46	3	2	3	1
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	9 755	8 340	980	50	18	130	238
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	8 134	971	50	18	130	228
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	206	9	-	-	-	10
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	191	175	7	-	-	-	8
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	17	-	-	-	-	-
NOT REPORTED	17	14	2	-	-	-	2
RENTER OCCUPIED	5 418	750	1 950	664	465	1 541	49
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	728	1 904	660	463	1 537	48
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	22	46	3	2	3	1
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	18	24	2	-	-	1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	21	3	15	-	-	3	-
NOT REPORTED	11	1	7	2	2	-	-

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	17 123	9 701	3 537	939	640	1 972	333
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	10 256	8 752	1 022	55	19	136	271
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	220	203	7	-	-	-	10
WITH SELECTED HEATING EQUIPMENT[1]	10 036	8 550	1 015	55	19	136	261
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 309	7 879	986	54	16	125	250
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	690	638	28	2	3	10	9
SOLAR HEATING EQUIPMENT	5	5	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	386	367	13	-	-	-	5
FIREPLACE, BURNING WOOD OR COAL	75	71	2	-	2	-	1
PORTABLE ELECTRIC HEATER	107	88	4	2	-	10	2
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	7	2	-	-	-	1
OTHER	105	96	7	-	2	-	-
NOT REPORTED	7	7	-	-	-	-	-
NOT REPORTED	36	33	2	-	-	-	1
RENTER OCCUPIED	6 867	948	2 514	884	621	1 837	63
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	64	26	32	3	2	-	1
WITH SELECTED HEATING EQUIPMENT[1]	6 803	922	2 482	881	619	1 837	62
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 407	874	2 356	822	605	1 690	60
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	47	113	57	13	136	2
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	34	22	9	1	2	-	-
FIREPLACE, BURNING WOOD OR COAL	3	2	2	-	-	-	-
PORTABLE ELECTRIC HEATER	276	17	79	48	7	124	2
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	5	7	4	-	3	-
OTHER	29	5	16	3	4	2	-
NOT REPORTED	7	-	-	-	-	7	-
NOT REPORTED	29	1	14	2	2	10	-
AIR CONDITIONING							
OWNER OCCUPIED	10 256	8 752	1 022	55	19	136	271
WITH AIR CONDITIONING	4 846	4 083	531	32	12	104	84
ROOM UNITS	3 906	3 248	488	18	3	78	70
1	2 014	1 655	253	10	3	33	59
2	1 266	1 049	177	4	-	27	10
3	412	358	37	4	-	13	1
4	140	125	13	-	-	2	-
5 OR MORE	73	62	7	-	-	4	-
CENTRAL SYSTEM	940	834	42	15	9	26	14
WITH NO AIR CONDITIONING	5 410	4 670	492	23	7	32	187
RENTER OCCUPIED	6 867	948	2 514	884	621	1 837	63
WITH AIR CONDITIONING	2 463	267	805	293	298	790	11
ROOM UNITS	2 102	226	725	251	234	656	10
1	1 458	157	530	195	176	390	9
2	532	53	161	43	54	219	1
3	96	9	27	13	3	44	-
4	9	4	2	-	-	3	-
5 OR MORE	7	3	4	-	-	-	-
CENTRAL SYSTEM	362	41	80	42	65	134	1
WITH NO AIR CONDITIONING	4 404	682	1 710	591	323	1 047	52

[1]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: 1979

(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	17 123	302	522	1 981	3 134	3 390	3 550	4 243	5.3
HOUSE HEATING FUEL									
OWNER OCCUPIED	10 256	15	47	175	1 029	2 092	2 944	3 955	6.1
UTILITY GAS	4 162	9	13	42	355	807	1 284	1 652	6.2
BOTTLED, TANK, OR LP GAS	81	2	2	6	22	15	17	17	5.0
FUEL OIL	5 116	3	21	101	518	1 081	1 429	1 962	6.1
KEROSENE, ETC	94	-	1	10	34	23	12	14	4.6
ELECTRICITY	600	1	3	12	68	132	150	234	6.1
COAL OR COKE	101	-	2	-	12	21	32	35	6.0
WOOD	96	-	2	4	18	13	20	39	6.0
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	2	-	2	-	-	-	-	-	...
NONE	5	1	1	-	2	-	-	2	...
RENTER OCCUPIED	6 867	288	475	1 806	2 105	1 298	606	288	3.9
UTILITY GAS	2 396	85	127	540	761	537	258	88	4.1
BOTTLED, TANK, OR LP GAS	41	-	-	7	14	15	2	2	4.4
FUEL OIL	3 812	178	266	1 082	1 132	665	315	173	3.8
KEROSENE, ETC	36	-	1	5	14	5	10	2	4.3
ELECTRICITY	509	21	76	158	168	61	12	14	3.5
COAL OR COKE	32	-	-	3	10	9	4	5	...
WOOD	24	2	2	4	5	2	5	5	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	3	5	2	3	-	-	...
NONE	4	2	-	2	-	1	-	-	...
WATER HEATING FUEL									
OWNER OCCUPIED	10 256	15	47	175	1 029	2 092	2 944	3 955	6.1
NO HOT PIPED WATER	30	1	2	4	8	5	3	6	...
WITH HOT PIPED WATER	10 225	14	45	170	1 020	2 087	2 941	3 948	6.1
FUEL USED:									
UTILITY GAS	4 628	8	12	51	382	850	1 467	1 857	6.2
BOTTLED, TANK, OR LP GAS	250	-	3	11	40	61	62	74	5.7
FUEL OIL	3 019	2	14	58	264	616	819	1 247	6.2
KEROSENE, ETC	8	-	-	-	2	2	2	2	...
ELECTRICITY	2 279	4	17	50	324	550	579	756	5.8
COAL OR COKE	22	-	-	-	6	3	7	6	...
WOOD	16	-	-	1	2	2	5	7	...
SOLAR HEAT	2	-	-	-	-	1	1	1	...
OTHER FUEL	-	-	-	-	-	-	-	-	-
NONE	2	-	-	-	-	2	-	-	...
NOT REPORTED	1	-	-	1	-	-	-	-	...
RENTER OCCUPIED	6 867	288	475	1 806	2 105	1 298	606	288	3.9
NO HOT PIPED WATER	49	29	5	3	6	2	2	2	1.5-
WITH HOT PIPED WATER	6 818	258	470	1 803	2 099	1 297	604	287	3.9
FUEL USED:									
UTILITY GAS	2 683	55	126	621	829	616	326	112	4.1
BOTTLED, TANK, OR LP GAS	79	2	2	10	20	20	19	8	4.8
FUEL OIL	3 112	176	256	931	964	490	182	112	3.7
KEROSENE, ETC	1	-	-	1	-	-	-	-	...
ELECTRICITY	899	20	83	230	277	162	74	54	3.9
COAL OR COKE	14	-	-	3	2	8	-	2	...
WOOD	1	-	-	-	1	-	-	-	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	25	4	5	5	7	2	3	-	...
NONE	4	2	-	2	1	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED	10 256	15	47	175	1 029	2 092	2 944	3 955	6.1
UTILITY GAS	4 434	7	18	93	454	880	1 421	1 561	6.0
BOTTLED, TANK, OR LP GAS	812	2	9	34	176	193	178	219	5.4
FUEL OIL	21	-	-	1	-	3	8	10	...
KEROSENE, ETC	6	-	2	1	-	-	2	2	...
ELECTRICITY	4 952	6	19	46	397	1 011	1 328	2 147	6.3
COAL OR COKE	5	-	-	-	-	2	2	2	...
WOOD	23	-	-	1	2	2	5	13	...
OTHER FUEL	-	-	-	-	-	-	-	-	-
NONE	2	-	-	-	-	-	2	1	...
RENTER OCCUPIED	6 867	288	475	1 806	2 105	1 298	606	288	3.9
UTILITY GAS	4 728	150	299	1 295	1 494	917	432	142	3.9
BOTTLED, TANK, OR LP GAS	241	2	7	34	83	47	42	27	4.4
FUEL OIL	15	-	3	4	3	4	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 800	71	162	470	519	325	133	119	3.9
COAL OR COKE	2	-	-	-	-	2	-	-	...
WOOD	2	-	-	-	1	-	-	1	...
OTHER FUEL	4	1	2	-	-	2	-	-	...
NONE	75	63	2	3	5	2	-	-	1.5-

TABLE B-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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]	8 208	7	28	45	524	1 554	2 531	3 519	6.3
LESS THAN $10	86	-	2	1	12	15	31	26	5.9
$10 TO $19	882	-	3	14	114	191	299	261	5.9
$20 TO $29	1 884	-	7	15	173	429	629	630	6.0
$30 TO $39	1 949	4	11	6	126	369	651	781	6.2
$40 TO $49	1 163	2	2	6	53	224	342	534	6.4
$50 TO $59	819	-	1	2	16	131	229	440	6.5+
$60 TO $79	758	1	-	-	16	114	211	416	6.5+
$80 TO $99	278	1	2	1	6	41	60	167	6.5+
$100 TO $149	302	-	-	-	6	32	60	203	6.5+
$150 OR MORE	82	-	-	-	1	4	18	59	6.5+
NO ELECTRICITY USED	6	-	-	-	1	2	1	2	...
MEDIAN	36	...	...	24	27	33	34	41	...
SPECIFIED RENTER OCCUPIED[2]	6 821	288	475	1 803	2 099	1 291	597	267	3.9
LESS THAN $10	318	10	38	152	83	26	8	2	3.2
$10 TO $19	1 748	48	109	551	594	283	123	40	3.8
$20 TO $29	1 547	25	62	359	527	344	180	51	4.1
$30 TO $39	801	3	37	157	224	213	113	54	4.4
$40 TO $49	379	3	7	52	124	106	52	34	4.5
$50 TO $59	153	-	6	13	57	40	20	15	4.5
$60 TO $79	132	-	2	16	48	34	18	14	4.5
$80 TO $99	35	-	-	5	20	8	1	1	...
$100 TO $149	32	-	2	8	6	7	2	8	...
$150 OR MORE	12	-	-	2	5	3	2	1	...
INCLUDED IN RENT	1 651	198	212	484	409	224	79	46	3.3
NO ELECTRICITY USED	14	1	2	4	2	3	-	2	...
MEDIAN	23	17	18	18	23	26	26	33	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	8 208	7	28	45	524	1 554	2 531	3 519	6.3
LESS THAN $10	606	-	4	6	48	127	206	216	6.1
$10 TO $14	415	-	1	2	35	58	158	161	6.2
$15 TO $19	325	-	2	3	28	54	110	128	6.2
$20 TO $24	365	-	-	6	23	69	115	151	6.2
$25 TO $29	334	-	-	-	25	77	127	105	6.0
$30 TO $39	676	2	3	5	59	156	253	198	5.9
$40 TO $49	720	2	4	7	32	137	260	278	6.2
$50 TO $69	1 164	3	1	1	55	184	340	581	6.5
$70 TO $99	541	-	-	-	12	53	142	333	6.5+
$100 OR MORE	221	-	-	-	3	15	48	154	6.5+
NO GAS USED	2 841	2	13	16	202	624	772	1 213	6.2
MEDIAN	38	...	...	...	30	35	36	46	...
SPECIFIED RENTER OCCUPIED[2]	6 821	288	475	1 803	2 099	1 291	597	267	3.9
LESS THAN $10	1 206	52	95	421	347	190	70	31	3.6
$10 TO $14	656	9	27	175	223	113	89	20	4.0
$15 TO $19	378	2	13	72	140	89	52	12	4.2
$20 TO $24	253	2	8	33	83	78	43	7	4.5
$25 TO $29	171	-	3	33	65	44	20	6	4.3
$30 TO $39	295	-	3	49	85	86	56	16	4.6
$40 TO $49	204	-	-	17	61	80	27	19	4.8
$50 TO $69	239	-	-	12	71	83	51	22	4.9
$70 TO $99	105	2	-	8	24	37	26	9	5.0
$100 OR MORE	31	-	-	4	5	10	2	10	...
INCLUDED IN RENT	2 244	174	230	720	679	304	92	45	3.5
NO GAS USED	1 038	48	97	261	316	177	68	71	3.8
MEDIAN	13	10-	10-	10-	14	21	21	30	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	8 208	7	28	45	524	1 554	2 531	3 519	6.3
LESS THAN $100	120	1	-	1	7	19	34	58	6.4
$100 TO $199	113	-	-	1	12	14	37	50	6.3
$200 TO $299	151	-	-	6	20	50	32	43	5.5
$300 TO $399	318	-	2	2	53	95	92	73	5.6
$400 TO $499	441	-	3	5	53	113	132	135	5.8
$500 TO $599	509	-	1	8	50	101	174	175	6.0
$600 TO $699	621	-	3	6	33	131	214	233	6.1
$700 TO $799	521	1	1	3	23	109	163	221	6.3
$800 OR MORE	1 691	-	4	1	52	219	463	953	6.5+
FUELS NOT USED OR FREE	3 723	6	14	13	221	704	1 190	1 576	6.3
MEDIAN	694	...	...	...	514	625	678	791	...

[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: 1979--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.--CONTINUED									
SPECIFIED RENTER OCCUPIED[1]	6 821	288	475	1 803	2 099	1 291	597	267	3.9
LESS THAN $100	37	2	2	2	19	8	2	2	4.1
$100 TO $199	28	-	4	3	6	6	6	3	...
$200 TO $299	48	-	-	7	20	16	2	3	4.3
$300 TO $399	84	-	1	6	26	27	19	5	4.8
$400 TO $499	91	-	2	2	22	37	18	9	5.0
$500 TO $599	99	-	1	8	20	36	20	13	5.1
$600 TO $699	95	-	-	3	21	24	28	18	5.4
$700 TO $799	64	-	-	-	6	33	23	2	5.3
$800 OR MORE	221	-	1	11	40	55	55	59	5.6
INCLUDED IN RENT	3 444	225	297	1 114	1 069	504	178	56	3.6
FUELS NOT USED OR FREE	2 610	61	168	647	849	545	245	96	4.0
MEDIAN	596	...	...	507	485	575	668	800+	...
ALL OCCUPIED HOUSING UNITS	17 123	302	522	1 981	3 134	3 390	3 550	4 243	5.3
HEATING EQUIPMENT									
OWNER OCCUPIED	10 256	15	47	175	1 029	2 092	2 944	3 955	6.1
WARM-AIR FURNACE	4 439	3	18	56	489	972	1 278	1 621	6.0
HEAT PUMP	48	-	2	-	2	3	11	29	6.5+
STEAM OR HOT WATER	4 776	6	17	90	389	890	1 412	1 972	6.2
BUILT-IN ELECTRIC UNITS	474	1	2	11	56	114	117	173	5.9
FLOOR, WALL, OR PIPELESS FURNACE	101	-	1	1	15	27	38	20	5.7
ROOM HEATERS WITH FLUE	185	2	3	8	42	38	38	53	5.5
ROOM HEATERS WITHOUT FLUE	14	-	-	-	1	2	6	5	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	214	2	3	9	32	46	43	79	5.8
NONE	5	1	1	-	2	-	-	2	...
RENTER OCCUPIED	6 867	288	475	1 806	2 105	1 298	606	288	3.9
WARM-AIR FURNACE	1 536	26	70	284	475	377	191	113	4.3
HEAT PUMP	9	2	2	4	2	-	-	-	...
STEAM OR HOT WATER	4 337	233	320	1 291	1 297	727	329	142	3.8
BUILT-IN ELECTRIC UNITS	442	18	69	141	144	51	9	10	3.4
FLOOR, WALL, OR PIPELESS FURNACE	48	-	-	8	17	8	11	4	4.4
ROOM HEATERS WITH FLUE	388	4	8	63	136	118	50	7	4.4
ROOM HEATERS WITHOUT FLUE	43	2	5	2	17	10	6	2	4.3
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	2	2	12	17	6	10	11	4.3
NONE	4	2	-	2	-	1	-	-	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED	10 256	15	47	175	1 029	2 092	2 944	3 955	6.1
NO HEATING EQUIPMENT	5	1	1	-	2	-	-	2	...
WITH HEATING EQUIPMENT	10 250	14	46	175	1 027	2 092	2 944	3 953	6.1
NO THERMOSTAT CONTROL	437	5	13	51	109	94	84	81	4.9
WITH THERMOSTAT CONTROL	9 786	9	33	121	918	1 991	2 848	3 866	6.1
NOT CLOCK OPERATED	8 424	9	28	106	808	1 697	2 489	3 287	6.1
CONSTANT TEMPERATURE SETTING MAINTAINED	2 996	6	12	38	332	638	954	1 016	6.0
TEMPERATURE SETTING IS CHANGED	5 392	3	15	67	472	1 051	1 526	2 258	6.2
OCCASIONALLY	1 376	2	6	17	124	279	389	560	6.2
REGULARLY	3 982	1	9	48	346	765	1 124	1 688	6.2
DON'T KNOW	30	-	-	2	-	5	13	9	...
NOT REPORTED	4	-	-	-	2	2	-	1	...
NOT REPORTED	36	-	-	-	4	9	10	13	6.0
CLOCK OPERATED	1 352	-	5	15	110	290	355	577	6.2
NOT REPORTED	10	-	-	-	-	3	4	3	...
NOT REPORTED	27	-	-	3	-	7	12	6	...
RENTER OCCUPIED	6 867	288	475	1 806	2 105	1 298	606	288	3.9
NO HEATING EQUIPMENT	4	2	-	2	-	1	-	-	...
WITH HEATING EQUIPMENT	6 863	286	475	1 805	2 105	1 298	606	288	3.9
NO THERMOSTAT CONTROL	3 530	235	320	1 132	1 043	569	189	41	3.6
WITH THERMOSTAT CONTROL	3 321	49	155	670	1 059	726	415	246	4.2
NOT CLOCK OPERATED	2 951	38	137	610	959	652	355	199	4.2
CONSTANT TEMPERATURE SETTING MAINTAINED	1 071	23	39	193	371	250	126	69	4.3
TEMPERATURE SETTING IS CHANGED	1 823	13	94	401	570	391	227	128	4.2
OCCASIONALLY	602	4	34	140	190	124	72	37	4.1
REGULARLY	1 195	9	56	253	373	262	153	90	4.2
DON'T KNOW	25	-	3	7	6	6	2	1	...
NOT REPORTED	-	-	-	-	-	-	-	-	-
NOT REPORTED	58	3	4	17	17	11	3	2	3.8
CLOCK OPERATED	361	11	18	60	93	74	58	47	4.5
NOT REPORTED	8	-	-	-	7	-	2	-	...
NOT REPORTED	12	2	-	3	3	2	2	1	...

[1]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: 1979--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	17 123	302	522	1 981	3 134	3 390	3 550	4 243	5.3
UNITS OCCUPIED LAST WINTER	15 173	245	400	1 566	2 625	3 037	3 311	3 989	5.4
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	9 755	15	43	170	953	1 999	2 814	3 761	6.1
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	12	40	161	920	1 952	2 766	3 680	6.1
NO ADDITIONAL HEAT SOURCE USED	8 765	11	35	143	847	1 809	2 547	3 373	6.1
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	614	1	4	16	52	111	169	261	6.2
NOT REPORTED	152	-	-	1	21	32	51	46	5.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	2	3	9	33	47	48	82	5.8
RENTER OCCUPIED	5 418	230	358	1 395	1 672	1 038	497	227	3.9
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	227	355	1 386	1 644	1 024	489	216	3.9
NO ADDITIONAL HEAT SOURCE USED	4 243	182	280	1 096	1 314	821	380	169	3.9
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	969	34	61	258	300	173	98	46	3.9
NOT REPORTED	129	11	14	31	30	30	11	1	3.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	3	2	10	28	14	8	11	4.3
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	9 755	15	43	170	953	1 999	2 814	3 761	6.1
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	12	40	161	920	1 952	2 766	3 680	6.1
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 251	12	34	150	809	1 732	2 391	3 123	6.1
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 131	-	5	10	92	187	331	506	6.3
1 ROOM	473	-	5	4	37	88	145	193	6.2
2 ROOMS	269	-	-	6	22	51	75	115	6.2
3 ROOMS OR MORE	390	-	-	-	33	48	111	198	6.5+
NOT REPORTED	148	-	-	1	19	33	44	51	6.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	2	3	9	33	47	48	82	5.8
RENTER OCCUPIED	5 418	230	358	1 395	1 672	1 038	497	227	3.9
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	227	355	1 386	1 644	1 024	489	216	3.9
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 555	214	316	1 267	1 430	799	373	158	3.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	656	-	23	90	185	196	105	58	4.6
1 ROOM	278	-	23	61	69	76	27	24	4.3
2 ROOMS	181	-	-	29	63	43	31	14	4.5
3 ROOMS OR MORE	197	-	-	-	54	77	47	20	5.1
NOT REPORTED	129	13	17	29	29	29	11	1	3.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	3	2	10	28	14	8	11	4.3
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	9 755	15	43	170	953	1 999	2 814	3 761	6.1
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	12	40	161	920	1 952	2 766	3 680	6.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	2	3	9	33	47	48	82	5.8
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	191	2	3	9	29	43	38	66	5.7
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	-	-	1	2	2	6	7	...
NOT REPORTED	17	-	-	-	2	3	4	8	...
RENTER OCCUPIED	5 418	230	358	1 395	1 672	1 038	497	227	3.9
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	227	355	1 386	1 644	1 024	489	216	3.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	3	2	10	28	14	8	11	4.3
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	2	1	6	16	9	5	6	4.3
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	21	-	2	3	6	5	2	3	...
NOT REPORTED	11	2	-	-	6	-	2	2	...

[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: 1979--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	17 123	302	522	1 981	3 134	3 390	3 550	4 243	5.3
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	10 256	15	47	175	1 029	2 092	2 944	3 955	6.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	220	2	5	9	34	46	43	81	5.8
WITH SELECTED HEATING EQUIPMENT[1]	10 036	12	43	165	995	2 046	2 901	3 874	6.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 309	11	43	154	931	1 914	2 711	3 547	6.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	690	2	-	10	59	128	177	315	6.3
SOLAR HEATING EQUIPMENT	5	-	-	-	-	1	3	1	...
STOVE, BURNING WOOD OR COAL	386	-	-	2	31	79	100	173	6.3
FIREPLACE, BURNING WOOD OR COAL	75	2	-	-	9	5	21	39	6.5+
PORTABLE ELECTRIC HEATER	107	-	-	8	13	23	21	43	6.0
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	-	-	1	1	3	2	4	...
OTHER	105	-	-	-	6	15	29	55	6.5+
NOT REPORTED	7	-	-	-	-	3	2	3	...
NOT REPORTED	36	-	-	2	5	4	13	12	6.0
RENTER OCCUPIED	6 867	288	475	1 806	2 105	1 298	606	288	3.9
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	64	4	2	14	17	7	10	11	4.3
WITH SELECTED HEATING EQUIPMENT[1]	6 803	284	474	1 793	2 088	1 292	596	277	3.9
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 407	268	442	1 707	1 955	1 219	554	263	3.9
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	16	28	77	125	66	41	15	4.0
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	34	-	-	3	5	9	10	8	...
FIREPLACE, BURNING WOOD OR COAL	3	-	-	-	-	2	2	-	...
PORTABLE ELECTRIC HEATER	276	14	21	67	107	39	25	3	3.8
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	3	3	2	9	-	2	...
OTHER	29	2	4	3	7	7	5	2	...
NOT REPORTED	7	-	-	-	5	-	2	-	...
NOT REPORTED	29	-	3	10	8	7	1	-	...
AIR CONDITIONING									
OWNER OCCUPIED	10 256	15	47	175	1 029	2 092	2 944	3 955	6.1
WITH AIR CONDITIONING	4 846	7	15	88	442	906	1 357	2 030	6.2
ROOM UNITS	3 906	4	10	71	368	767	1 169	1 518	6.1
1	2 014	2	5	50	235	456	603	664	5.9
2	1 266	2	4	18	105	249	371	518	6.2
3	412	-	1	2	22	40	135	212	6.5+
4	140	-	-	1	3	14	42	81	6.5+
5 OR MORE	73	-	-	-	4	8	18	43	6.5+
CENTRAL SYSTEM	940	3	5	17	74	139	188	513	6.5+
WITH NO AIR CONDITIONING	5 410	8	32	86	586	1 185	1 587	1 924	6.0
RENTER OCCUPIED	6 867	288	475	1 806	2 105	1 298	606	288	3.9
WITH AIR CONDITIONING	2 463	74	174	696	845	426	170	79	3.8
ROOM UNITS	2 102	67	152	593	716	356	152	67	3.8
1	1 458	66	133	425	452	244	100	38	3.7
2	532	2	19	158	215	82	38	17	3.9
3	96	-	-	7	45	28	10	6	4.4
4	9	-	-	-	3	2	2	2	...
5 OR MORE	7	-	-	2	-	-	2	3	...
CENTRAL SYSTEM	362	6	22	104	129	70	18	13	3.9
WITH NO AIR CONDITIONING	4 404	214	302	1 110	1 260	873	437	209	3.9
ALL OCCUPIED HOUSING UNITS	17 123	302	522	1 981	3 134	3 390	3 550	4 243	5.3
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 034	16	51	136	966	1 977	2 896	3 993	6.1
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	9 023	10	37	76	712	1 719	2 673	3 796	6.2
ALL WINDOWS COVERED	7 540	7	25	54	583	1 459	2 270	3 142	6.2
SOME WINDOWS COVERED	1 077	-	11	9	82	162	302	511	6.4
NO WINDOWS COVERED	360	2	1	11	40	89	86	131	5.9
NOT REPORTED	46	-	-	2	7	10	15	12	5.7
RENTER OCCUPIED	1 011	6	14	60	254	257	223	197	5.2
ALL WINDOWS COVERED	587	1	9	37	153	149	114	125	5.1
SOME WINDOWS COVERED	185	-	1	7	25	55	59	38	5.6
NO WINDOWS COVERED	188	6	2	11	60	46	35	29	4.8
NOT REPORTED	51	-	3	5	16	8	15	4	4.6

[1]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: 1979--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									
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED									
STORM DOORS									
OWNER OCCUPIED	9 023	10	37	76	712	1 719	2 673	3 796	6.2
ALL DOORS COVERED	7 320	7	25	48	534	1 438	2 262	3 006	6.2
SOME DOORS COVERED	1 096	-	6	4	99	186	285	517	6.4
NO DOORS COVERED	560	2	6	22	71	85	112	261	6.3
NOT REPORTED	47	-	-	2	7	10	15	12	5.7
RENTER OCCUPIED	1 011	6	14	60	254	257	223	197	5.2
ALL DOORS COVERED	573	2	5	30	151	143	119	123	5.2
SOME DOORS COVERED	152	-	-	5	27	46	42	31	5.4
NO DOORS COVERED	235	4	6	20	59	61	47	38	5.0
NOT REPORTED	51	-	3	5	16	8	15	4	4.6
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	9 023	10	37	76	712	1 719	2 673	3 796	6.2
YES	7 546	9	26	59	569	1 435	2 199	3 249	6.3
NO	1 105	1	6	10	114	206	352	416	6.1
DON'T KNOW	321	-	4	5	23	66	104	119	6.1
NOT REPORTED	51	-	-	2	7	12	17	13	5.8
RENTER OCCUPIED	1 011	6	14	60	254	257	223	197	5.2
YES	474	2	3	31	123	101	99	115	5.3
NO	287	2	4	14	58	82	74	53	5.3
DON'T KNOW	199	2	3	10	56	67	36	24	4.9
NOT REPORTED	51	-	3	5	16	8	15	4	4.6

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979

(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	17 123	1 985	15 137	2 842	2 424	1 404	8 468
HOUSE HEATING FUEL							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
UTILITY GAS	4 162	363	3 799	868	785	366	1 780
BOTTLED, TANK, OR LP GAS	81	17	64	21	12	13	19
FUEL OIL	5 116	491	4 625	786	998	517	2 324
KEROSENE, ETC	94	31	63	31	6	3	23
ELECTRICITY	600	318	281	135	39	22	85
COAL OR COKE	101	-	101	2	7	11	81
WOOD	96	21	75	12	10	3	49
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	2	-	2	2	-	-	-
NONE	5	1	4	1	-	-	3
RENTER OCCUPIED	6 867	744	6 123	984	567	469	4 103
UTILITY GAS	2 396	246	2 150	360	148	153	1 489
BOTTLED, TANK, OR LP GAS	41	2	39	3	6	-	30
FUEL OIL	3 812	203	3 608	475	390	308	2 435
KEROSENE, ETC	36	5	31	5	4	-	22
ELECTRICITY	509	284	226	136	14	3	73
COAL OR COKE	32	1	31	-	2	-	29
WOOD	24	1	23	2	4	1	17
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	13	3	10	4	-	3	3
NONE	4	-	4	-	-	-	4
WATER HEATING FUEL							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
NO HOT PIPED WATER	30	6	24	5	2	3	14
WITH HOT PIPED WATER	10 225	1 236	8 989	1 853	1 855	932	4 349
FUEL USED:							
UTILITY GAS	4 628	328	4 299	860	822	397	2 220
BOTTLED, TANK, OR LP GAS	250	19	231	28	40	21	141
FUEL OIL	3 019	300	2 719	546	657	314	1 202
KEROSENE, ETC	8	2	5	-	1	1	4
ELECTRICITY	2 279	579	1 701	412	334	197	758
COAL OR COKE	22	1	21	2	-	2	18
WOOD	16	7	9	3	-	1	5
SOLAR HEAT	2	1	2	-	1	-	1
OTHER FUEL	-	-	-	-	-	-	-
NONE	2	-	2	2	-	-	-
NOT REPORTED	1	-	1	-	-	-	1
RENTER OCCUPIED	6 867	744	6 123	984	567	469	4 103
NO HOT PIPED WATER	49	1	48	1	-	2	46
WITH HOT PIPED WATER	6 818	743	6 075	983	567	467	4 057
FUEL USED:							
UTILITY GAS	2 683	250	2 433	381	139	172	1 742
BOTTLED, TANK, OR LP GAS	79	2	77	4	9	4	60
FUEL OIL	3 112	182	2 930	399	363	263	1 905
KEROSENE, ETC	1	-	1	-	-	-	1
ELECTRICITY	899	307	592	194	48	26	325
COAL OR COKE	14	-	14	-	3	-	11
WOOD	1	-	1	-	-	-	1
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	25	2	23	3	5	2	13
NONE	4	2	2	2	-	1	-
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
UTILITY GAS	4 434	236	4 198	682	717	431	2 367
BOTTLED, TANK, OR LP GAS	812	144	668	162	106	71	329
FUEL OIL	21	2	20	2	3	6	9
KEROSENE, ETC	6	-	6	-	-	-	6
ELECTRICITY	4 952	858	4 094	1 011	1 028	427	1 628
COAL OR COKE	5	-	5	-	-	-	5
WOOD	23	1	21	2	2	-	17
OTHER FUEL	-	-	-	-	-	-	-
NONE	2	-	2	-	-	-	2
RENTER OCCUPIED	6 867	744	6 123	984	567	469	4 103
UTILITY GAS	4 728	290	4 438	546	406	385	3 102
BOTTLED, TANK, OR LP GAS	241	18	223	30	26	16	151
FUEL OIL	15	-	15	-	2	-	13
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 800	434	1 366	408	129	68	762
COAL OR COKE	2	-	2	-	-	-	2
WOOD	2	-	2	-	-	1	1
OTHER FUEL	4	2	3	-	-	-	3
NONE	75	-	75	-	5	-	70

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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 ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	8 208	913	7 295	1 554	1 691	826	3 224
LESS THAN $10	86	-	86	4	12	3	67
$10 TO $19	882	32	850	94	135	98	523
$20 TO $29	1 884	169	1 715	254	368	194	899
$30 TO $39	1 949	195	1 754	342	426	205	780
$40 TO $49	1 163	114	1 049	253	259	129	408
$50 TO $59	819	93	726	200	206	72	249
$60 TO $79	758	113	644	200	179	76	190
$80 TO $99	278	68	209	88	49	28	44
$100 TO $149	302	106	196	92	40	14	49
$150 OR MORE	82	21	60	27	17	4	12
NO ELECTRICITY USED	6	1	4	-	-	3	2
MEDIAN	36	45	35	43	37	35	31
SPECIFIED RENTER OCCUPIED[2]	6 821	743	6 077	981	562	465	4 070
LESS THAN $10	318	12	306	42	17	23	224
$10 TO $19	1 748	113	1 635	224	112	99	1 200
$20 TO $29	1 547	123	1 424	222	108	97	997
$30 TO $39	801	86	714	104	67	40	503
$40 TO $49	379	64	315	47	21	29	218
$50 TO $59	153	40	112	25	12	7	68
$60 TO $79	132	24	108	31	7	7	64
$80 TO $99	35	8	27	11	4	3	9
$100 TO $149	32	15	17	3	3	-	12
$150 OR MORE	12	4	8	-	3	2	3
INCLUDED IN RENT	1 651	251	1 401	271	208	158	763
NO ELECTRICITY USED	14	2	11	-	2	-	9
MEDIAN	23	29	22	24	24	23	22
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	8 208	913	7 295	1 554	1 691	826	3 224
LESS THAN $10	606	35	571	59	93	63	357
$10 TO $14	415	22	393	24	59	67	243
$15 TO $19	325	6	319	31	48	43	196
$20 TO $24	365	5	360	40	74	32	214
$25 TO $29	334	18	316	37	77	42	161
$30 TO $39	676	60	617	117	164	80	255
$40 TO $49	720	46	674	164	184	60	266
$50 TO $69	1 164	103	1 061	290	224	108	439
$70 TO $99	541	40	501	151	70	41	239
$100 OR MORE	221	16	205	48	30	25	101
NO GAS USED	2 841	563	2 278	593	668	265	752
MEDIAN	38	46	38	51	39	34	32
SPECIFIED RENTER OCCUPIED[2]	6 821	743	6 077	981	562	465	4 070
LESS THAN $10	1 206	27	1 179	72	72	97	937
$10 TO $14	656	14	642	36	32	48	526
$15 TO $19	378	9	369	26	19	38	286
$20 TO $24	253	11	243	11	25	17	189
$25 TO $29	171	3	168	20	6	8	134
$30 TO $39	295	15	280	26	17	13	225
$40 TO $49	204	10	194	15	9	9	162
$50 TO $69	239	13	226	9	13	10	194
$70 TO $99	105	6	99	7	1	7	83
$100 OR MORE	31	2	30	2	-	-	28
INCLUDED IN RENT	2 244	360	1 884	544	302	177	861
NO GAS USED	1 038	273	765	213	68	40	444
MEDIAN	13	22	13	16	13	12	13
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	8 208	913	7 295	1 554	1 691	826	3 224
LESS THAN $100	120	16	103	32	24	7	41
$100 TO $199	113	21	93	23	19	6	45
$200 TO $299	151	29	123	16	26	14	66
$300 TO $399	318	38	279	43	78	37	122
$400 TO $499	441	52	389	51	107	51	179
$500 TO $599	509	44	464	88	113	51	213
$600 TO $699	621	43	578	108	135	79	256
$700 TO $799	521	54	467	68	118	74	207
$800 OR MORE	1 691	140	1 551	249	337	167	799
FUELS NOT USED OR FREE	3 723	475	3 248	877	734	341	1 296
MEDIAN	694	643	698	679	681	697	720

[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: 1979--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							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	6 821	743	6 077	981	562	465	4 070
LESS THAN $100	37	2	34	2	4	1	28
$100 TO $199	28	4	24	4	1	-	20
$200 TO $299	48	3	45	6	3	2	34
$300 TO $399	84	5	79	6	6	1	66
$400 TO $499	91	4	87	8	8	8	63
$500 TO $599	99	5	94	7	9	10	68
$600 TO $699	95	1	94	11	7	4	71
$700 TO $799	64	1	64	3	-	2	59
$800 OR MORE	221	6	215	15	18	16	167
INCLUDED IN RENT	3 444	286	3 159	475	379	256	2 049
FUELS NOT USED OR FREE	2 610	426	2 183	442	129	167	1 445
MEDIAN	596	...	605	569	573	601	613
ALL OCCUPIED HOUSING UNITS	17 123	1 985	15 137	2 842	2 424	1 404	8 468
HEATING EQUIPMENT							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
WARM-AIR FURNACE	4 439	532	3 906	902	922	409	1 674
HEAT PUMP	48	33	15	5	2	3	6
STEAM OR HOT WATER	4 776	365	4 411	784	853	465	2 309
BUILT-IN ELECTRIC UNITS	474	254	220	120	33	14	52
FLOOR, WALL, OR PIPELESS FURNACE	101	7	95	6	14	13	61
ROOM HEATERS WITH FLUE	185	3	182	11	15	20	137
ROOM HEATERS WITHOUT FLUE	14	1	13	-	-	1	12
FIREPLACES, STOVES, OR PORTABLE HEATERS	214	45	169	29	18	10	111
NONE	5	1	4	1	-	-	3
RENTER OCCUPIED	6 867	744	6 123	984	567	469	4 103
WARM-AIR FURNACE	1 536	268	1 267	246	105	81	835
HEAT PUMP	9	2	7	1	-	2	5
STEAM OR HOT WATER	4 337	224	4 113	601	431	364	2 717
BUILT-IN ELECTRIC UNITS	442	242	200	121	14	2	63
FLOOR, WALL, OR PIPELESS FURNACE	48	3	45	8	5	5	27
ROOM HEATERS WITH FLUE	388	3	384	4	3	12	365
ROOM HEATERS WITHOUT FLUE	43	-	43	1	4	2	37
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	1	58	2	5	2	50
NONE	4	-	4	-	-	-	4
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
NO HEATING EQUIPMENT	5	1	4	1	-	-	3
WITH HEATING EQUIPMENT	10 250	1 240	9 010	1 857	1 857	935	4 361
NO THERMOSTAT CONTROL	437	40	397	67	60	31	239
WITH THERMOSTAT CONTROL	9 786	1 196	8 590	1 786	1 788	902	4 115
NOT CLOCK OPERATED	8 424	1 089	7 335	1 597	1 518	750	3 471
CONSTANT TEMPERATURE SETTING MAINTAINED	2 996	368	2 627	521	535	263	1 309
TEMPERATURE SETTING IS CHANGED	5 392	704	4 688	1 073	976	484	2 155
OCCASIONALLY	1 376	140	1 236	271	242	131	593
REGULARLY	3 982	561	3 421	798	733	350	1 540
DON'T KNOW	30	2	28	3	-	4	21
NOT REPORTED	4	1	3	1	2	-	1
NOT REPORTED	36	16	20	3	7	3	7
CLOCK OPERATED	1 352	107	1 245	188	265	151	642
NOT REPORTED	10	1	10	2	4	2	2
NOT REPORTED	27	5	22	4	10	2	7
RENTER OCCUPIED	6 867	744	6 123	984	567	469	4 103
NO HEATING EQUIPMENT	4	-	4	-	-	-	4
WITH HEATING EQUIPMENT	6 863	744	6 119	984	567	469	4 099
NO THERMOSTAT CONTROL	3 530	138	3 392	315	365	310	2 403
WITH THERMOSTAT CONTROL	3 321	604	2 716	667	201	159	1 689
NOT CLOCK OPERATED	2 951	557	2 394	615	167	137	1 476
CONSTANT TEMPERATURE SETTING MAINTAINED	1 071	185	886	205	62	48	570
TEMPERATURE SETTING IS CHANGED	1 823	354	1 469	400	105	88	876
OCCASIONALLY	602	132	469	136	28	29	276
REGULARLY	1 195	215	981	259	74	58	590
DON'T KNOW	25	7	19	4	3	2	10
NOT REPORTED	-	-	-	-	-	-	-
NOT REPORTED	58	19	39	10	-	-	30
CLOCK OPERATED	361	47	314	52	32	21	209
NOT REPORTED	8	-	8	-	2	2	5
NOT REPORTED	12	2	11	2	2	-	7

[1]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: 1979--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	17 123	1 985	15 137	2 842	2 424	1 404	8 468
UNITS OCCUPIED LAST WINTER	15 173	1 595	13 578	2 602	2 269	1 304	7 403
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	9 755	1 068	8 687	1 779	1 794	900	4 213
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	1 024	8 507	1 749	1 778	889	4 090
NO ADDITIONAL HEAT SOURCE USED	8 765	965	7 801	1 619	1 639	818	3 724
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	614	46	568	91	105	59	313
NOT REPORTED	152	13	138	38	34	13	54
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	44	180	30	16	11	123
RENTER OCCUPIED	5 418	527	4 891	823	475	403	3 190
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	525	4 816	822	471	400	3 123
NO ADDITIONAL HEAT SOURCE USED	4 243	463	3 780	684	378	323	2 396
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	969	49	920	118	81	71	650
NOT REPORTED	129	13	115	20	12	6	78
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	1	75	1	5	3	66
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	9 755	1 068	8 687	1 779	1 794	900	4 213
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	1 024	8 507	1 749	1 778	889	4 090
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 251	984	7 267	1 657	1 663	796	3 151
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 131	24	1 108	54	87	80	887
1 ROOM	473	9	464	41	51	40	332
2 ROOMS	269	9	260	4	19	24	213
3 ROOMS OR MORE	390	5	384	9	17	16	342
NOT REPORTED	148	16	132	38	28	14	52
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	44	180	30	16	11	123
RENTER OCCUPIED	5 418	527	4 891	823	475	403	3 190
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	525	4 816	822	471	400	3 123
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 555	506	4 049	787	449	370	2 443
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	656	7	649	15	11	24	599
1 ROOM	278	6	273	9	5	17	242
2 ROOMS	181	-	181	6	2	4	168
3 ROOMS OR MORE	197	2	196	-	4	3	189
NOT REPORTED	129	12	118	20	10	6	81
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	1	75	1	5	3	66
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	9 755	1 068	8 687	1 779	1 794	900	4 213
WITH SPECIFIED HEATING EQUIPMENT[1]	9 531	1 024	8 507	1 749	1 778	889	4 090
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	225	44	180	30	16	11	123
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	191	41	150	25	16	7	101
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	17	2	14	3	-	1	11
NOT REPORTED	17	1	16	2	-	3	11
RENTER OCCUPIED	5 418	527	4 891	823	475	403	3 190
WITH SPECIFIED HEATING EQUIPMENT[1]	5 341	525	4 816	822	471	400	3 123
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	77	1	75	1	5	3	66
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	45	1	43	1	1	3	39
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	21	-	21	-	1	-	20
NOT REPORTED	11	-	11	-	3	-	7

[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: 1979--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		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	17 123	1 985	15 137	2 842	2 424	1 404	8 468
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	220	46	173	30	18	10	114
WITH SELECTED HEATING EQUIPMENT[1]	10 036	1 195	8 841	1 828	1 838	925	4 250
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 309	1 077	8 232	1 687	1 705	864	3 975
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	690	114	576	140	118	55	263
SOLAR HEATING EQUIPMENT	5	1	4	1	1	-	3
STOVE, BURNING WOOD OR COAL	386	76	309	81	64	22	142
FIREPLACE, BURNING WOOD OR COAL	75	13	62	17	11	8	25
PORTABLE ELECTRIC HEATER	107	9	98	19	22	18	39
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	1	9	1	2	-	7
OTHER	105	15	90	19	17	7	47
NOT REPORTED	7	-	7	2	2	-	3
NOT REPORTED	36	4	33	1	15	5	12
RENTER OCCUPIED	6 867	744	6 123	984	567	469	4 103
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	64	1	62	2	5	2	54
WITH SELECTED HEATING EQUIPMENT[1]	6 803	742	6 061	983	562	467	4 049
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 407	715	5 692	942	528	435	3 787
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	24	343	36	33	30	244
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	34	2	33	3	2	2	26
FIREPLACE, BURNING WOOD OR COAL	3	-	3	-	2	-	2
PORTABLE ELECTRIC HEATER	276	20	255	27	27	27	174
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	19	2	-	2	16
OTHER	29	2	28	-	2	-	26
NOT REPORTED	7	-	7	4	2	-	2
NOT REPORTED	29	3	26	5	2	2	18
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	50	368	41	33	31	263
WITH SELECTED HEATING EQUIPMENT[2]	9 838	1 191	8 646	1 817	1 824	904	4 101
LESS THAN 4 YEARS	1 301	450	851	104	162	105	480
4 TO 9 YEARS	1 939	699	1 240	214	187	132	706
10 TO 19 YEARS	3 063	31	3 032	1 318	331	210	1 173
20 TO 39 YEARS	2 623	-	2 623	123	1 048	359	1 093
40 YEARS OR MORE	290	1	289	-	2	15	271
DON'T KNOW	539	2	537	49	70	72	347
NOT REPORTED	83	9	74	9	24	11	31
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	50	368	41	33	31	263
WITH SELECTED HEATING EQUIPMENT[2]	9 838	1 191	8 646	1 817	1 824	904	4 101
NO MAINTENANCE OR MODIFICATION	6 266	876	5 389	1 171	1 112	556	2 551
WITH MAINTENANCE OR MODIFICATION	3 475	306	3 169	618	685	335	1 530
NOT REPORTED	97	9	88	29	27	12	21
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	418	50	368	41	33	31	263
WITH SELECTED HEATING EQUIPMENT[2]	9 838	1 191	8 646	1 817	1 824	904	4 101
NO MAINTENANCE CONTRACT	6 663	907	5 756	1 296	1 138	564	2 758
WITH MAINTENANCE CONTRACT	3 053	272	2 781	488	654	326	1 313
NOT REPORTED	122	12	110	33	32	14	30

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
NO HOT PIPED WATER	30	6	24	5	2	3	14
WITH HOT PIPED WATER	10 225	1 236	8 989	1 853	1 855	932	4 349
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 931	1 207	8 724	1 798	1 793	899	4 233
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	43	5	39	8	7	5	19
NOT REPORTED	247	23	224	46	54	27	96
NOT REPORTED	1	-	1	-	-	-	1
RENTER OCCUPIED	6 867	744	6 123	984	567	469	4 103
NO HOT PIPED WATER	49	1	48	1	-	2	46
WITH HOT PIPED WATER	6 818	743	6 075	983	567	467	4 057
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 617	722	5 895	943	550	454	3 948
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	19	2	17	5	3	1	8
NOT REPORTED	178	18	160	33	14	11	101
NOT REPORTED	-	-	-	-	-	-	-
AIR CONDITIONING							
OWNER OCCUPIED	10 256	1 242	9 014	1 858	1 857	935	4 364
WITH AIR CONDITIONING	4 846	588	4 257	1 009	1 074	485	1 690
ROOM UNITS	3 906	306	3 600	677	879	436	1 609
1	2 014	171	1 843	369	390	215	869
2	1 266	113	1 154	198	326	136	494
3	412	14	398	76	102	48	172
4	140	3	137	23	39	23	51
5 OR MORE	73	4	69	11	21	13	24
CENTRAL SYSTEM	940	283	657	332	195	49	81
WITH NO AIR CONDITIONING	5 410	653	4 757	849	782	450	2 675
RENTER OCCUPIED	6 867	744	6 123	984	567	469	4 103
WITH AIR CONDITIONING	2 463	463	2 000	612	250	183	956
ROOM UNITS	2 102	232	1 870	519	231	183	937
1	1 458	143	1 315	327	139	124	725
2	532	77	455	164	78	44	169
3	96	12	85	24	11	13	36
4	9	-	9	2	3	-	4
5 OR MORE	7	-	7	2	-	2	3
CENTRAL SYSTEM	362	232	130	93	19	-	19
WITH NO AIR CONDITIONING	4 404	281	4 123	372	317	286	3 147
ALL OCCUPIED HOUSING UNITS	17 123	1 985	15 137	2 842	2 424	1 404	8 468
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 034	1 214	8 820	1 846	1 877	948	4 149
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	9 023	1 134	7 889	1 723	1 756	867	3 542
ALL WINDOWS COVERED	7 540	1 037	6 503	1 553	1 520	732	2 698
SOME WINDOWS COVERED	1 077	56	1 020	105	153	97	665
NO WINDOWS COVERED	360	33	327	57	69	33	168
NOT REPORTED	46	8	38	8	14	5	11
RENTER OCCUPIED	1 011	80	931	122	122	80	607
ALL WINDOWS COVERED	587	55	532	82	77	54	318
SOME WINDOWS COVERED	185	7	177	15	14	11	138
NO WINDOWS COVERED	188	11	177	21	18	9	129
NOT REPORTED	51	6	45	5	13	6	21
STORM DOORS							
OWNER OCCUPIED	9 023	1 134	7 889	1 723	1 756	867	3 542
ALL DOORS COVERED	7 320	776	6 544	1 472	1 580	761	2 731
SOME DOORS COVERED	1 096	201	896	161	104	77	554
NO DOORS COVERED	560	149	410	82	58	24	247
NOT REPORTED	47	8	39	8	14	5	11
RENTER OCCUPIED	1 011	80	931	122	122	80	607
ALL DOORS COVERED	573	44	529	70	71	62	325
SOME DOORS COVERED	152	14	138	11	15	3	109
NO DOORS COVERED	235	15	219	36	23	9	152
NOT REPORTED	51	6	45	5	13	6	21

[1]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: 1979--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		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--CONTINUED							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED							
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	9 023	1 134	7 889	1 723	1 756	867	3 542
YES	7 546	1 075	6 471	1 625	1 607	732	2 507
NO	1 105	21	1 084	49	89	97	849
DON'T KNOW	321	29	291	42	41	34	175
NOT REPORTED	51	9	42	8	18	5	11
RENTER OCCUPIED	1 011	80	931	122	122	80	607
YES	474	44	430	72	68	38	251
NO	287	11	277	20	18	17	221
DON'T KNOW	199	19	180	25	23	19	114
NOT REPORTED	51	6	45	5	13	6	21
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	9 023	1 134	7 889	1 723	1 756	867	3 542
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	360	33	327	57	69	33	168
SOME OR ALL WINDOWS COVERED	8 617	1 093	7 524	1 659	1 673	829	3 364
NONE ADDED OR INSTALLED	7 608	960	6 649	1 523	1 501	741	2 883
SOME OR ALL ADDED OR INSTALLED	935	124	811	117	163	78	453
NOT REPORTED	73	9	64	19	9	9	27
NOT REPORTED	46	8	38	8	14	5	11
STORM DOORS:							
NO DOORS COVERED	560	149	410	82	58	24	247
SOME OR ALL DOORS COVERED	8 417	977	7 440	1 633	1 684	838	3 285
NONE ADDED OR INSTALLED	7 668	823	6 845	1 519	1 569	760	2 997
SOME OR ALL ADDED OR INSTALLED	608	134	475	87	96	64	227
NOT REPORTED	141	20	120	27	20	13	60
NOT REPORTED	47	8	39	8	14	5	11
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	1 105	21	1 084	49	89	97	849
WITH ATTIC OR ROOF INSULATION	7 546	1 075	6 471	1 625	1 607	732	2 507
NONE ADDED OR INSTALLED	6 604	937	5 667	1 446	1 415	651	2 156
SOME OR ALL ADDED OR INSTALLED	829	126	703	158	172	60	313
LESS THAN 3 INCHES ADDED	42	8	34	7	4	2	21
3 TO 6 INCHES ADDED	345	45	300	78	70	29	124
6 INCHES OR MORE ADDED	315	53	262	43	80	19	120
DON'T KNOW	70	10	61	15	13	6	27
NOT REPORTED	56	10	46	15	5	5	21
NOT REPORTED	113	12	100	21	21	21	38
DON'T KNOW	321	29	291	42	41	34	175
NOT REPORTED	51	9	42	8	18	5	11
WALL INSULATION:							
NONE ADDED OR INSTALLED	8 199	1 021	7 177	1 620	1 616	803	3 138
SOME OR ALL ADDED OR INSTALLED	756	98	657	88	122	57	390
NOT REPORTED	69	14	54	15	18	7	14
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	6 329	803	5 527	1 217	1 233	607	2 470
SOME OR ALL ADDED OR INSTALLED	2 564	309	2 255	481	488	251	1 033
DON'T KNOW	74	12	62	17	16	2	27
NOT REPORTED	56	10	46	8	19	7	13
OTHER INSULATION:							
NONE ADDED OR INSTALLED	8 372	1 003	7 369	1 594	1 656	830	3 290
SOME OR ALL ADDED OR INSTALLED	576	117	459	113	78	31	238
NOT REPORTED	75	14	61	17	22	7	14

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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	1 011	80	931	122	122	80	607
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	188	11	177	21	18	9	129
SOME OR ALL WINDOWS COVERED	772	62	709	97	91	65	457
NONE ADDED OR INSTALLED	675	58	617	83	84	57	392
SOME OR ALL ADDED OR INSTALLED	84	3	81	11	5	6	59
NOT REPORTED	14	2	12	3	2	2	6
NOT REPORTED	51	6	45	5	13	6	21
STORM DOORS:							
NO DOORS COVERED	235	15	219	36	23	9	152
SOME OR ALL DOORS COVERED	725	58	667	82	86	65	435
NONE ADDED OR INSTALLED	648	47	601	71	80	59	391
SOME OR ALL ADDED OR INSTALLED	50	9	41	6	6	3	26
NOT REPORTED	27	2	26	5	-	4	17
NOT REPORTED	51	6	45	5	13	6	21
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	287	11	277	20	18	17	221
WITH ATTIC OR ROOF INSULATION	474	44	430	72	68	38	251
NONE ADDED OR INSTALLED	425	39	385	66	63	35	221
SOME OR ALL ADDED OR INSTALLED	35	3	31	4	3	2	23
LESS THAN 3 INCHES ADDED	-	-	-	-	-	-	-
3 TO 6 INCHES ADDED	7	-	7	2	2	-	3
6 INCHES OR MORE ADDED	11	-	11	1	1	1	9
DON'T KNOW	8	-	8	1	-	1	7
NOT REPORTED	8	3	5	1	-	-	4
NOT REPORTED	14	2	13	2	2	2	7
DON'T KNOW	199	19	180	25	23	19	114
NOT REPORTED	51	6	45	5	13	6	21
WALL INSULATION:							
NONE ADDED OR INSTALLED	914	69	845	113	107	73	552
SOME OR ALL ADDED OR INSTALLED	23	-	23	2	2	1	18
NOT REPORTED	73	11	62	7	13	6	37
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	734	63	671	89	88	63	432
SOME OR ALL ADDED OR INSTALLED	175	7	168	18	14	8	128
DON'T KNOW	48	2	46	9	7	3	26
NOT REPORTED	54	8	46	6	13	6	21
OTHER INSULATION:							
NONE ADDED OR INSTALLED	907	70	837	112	109	72	545
SOME OR ALL ADDED OR INSTALLED	37	2	35	3	-	2	31
NOT REPORTED	66	8	58	7	13	6	32
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	9 023	1 134	7 889	1 723	1 756	867	3 542
NO INSULATION ADDED OR INSTALLED	5 141	615	4 526	1 016	1 019	507	1 984
WITH INSULATION ADDED OR INSTALLED	3 589	484	3 105	650	680	330	1 446
LESS THAN $50	1 390	191	1 198	266	270	143	519
$50 TO $99	354	51	302	69	60	24	149
$100 TO $199	380	65	315	73	61	34	147
$200 TO $399	418	52	366	68	88	41	169
$400 OR MORE	759	81	678	114	154	61	349
DON'T KNOW	134	15	120	26	22	10	62
NOT REPORTED	154	28	126	33	25	17	51
MEDIAN	86	78	88	71	88	68	99
NOT REPORTED OR DON'T KNOW	293	36	257	57	57	31	112
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	233	27	206	32	43	17	114
LESS THAN $50	59	13	46	6	9	3	28
$50 TO $99	24	2	22	4	4	-	13
$100 TO $199	31	-	31	3	7	1	21
$200 TO $399	35	4	30	2	8	2	19
$400 OR MORE	55	3	52	10	13	8	22
DON'T KNOW	6	1	5	-	2	-	3
NOT REPORTED	24	5	19	7	-	4	8
MEDIAN	162	...	173	...	199	...	148

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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							
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
ONLY ADDED OR INSTALLED STORM DOORS	152	46	105	26	27	18	35
LESS THAN $50	13	1	12	2	2	4	4
$50 TO $99	37	14	23	7	7	2	8
$100 TO $199	47	14	34	8	9	8	8
$200 TO $399	23	8	16	3	2	4	7
$400 OR MORE	15	2	13	4	5	-	3
DON'T KNOW	2	-	2	2	-	-	-
NOT REPORTED	14	8	6	-	3	-	4
MEDIAN	137	133	139	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	438	58	380	88	87	29	176
LESS THAN $50	58	9	49	7	8	8	26
$50 TO $99	45	8	38	12	3	-	22
$100 TO $199	63	19	44	17	10	2	15
$200 TO $399	90	11	79	18	24	8	29
$400 OR MORE	139	5	135	25	34	8	68
DON'T KNOW	24	5	18	2	3	-	13
NOT REPORTED	19	1	17	7	5	3	2
MEDIAN	270	147	305	234	353	...	316

TABLE B-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979

(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]	8 208	86	882	1 884	1 949	1 163	819	758	278	302	82	6	36
HOUSE HEATING FUEL													
ELECTRICITY	480	-	13	22	35	35	39	98	85	126	26	-	79
OTHER THAN ELECTRICITY	7 725	86	869	1 862	1 911	1 128	781	659	192	176	55	6	35
UTILITY GAS	3 461	45	417	874	848	459	357	267	71	88	33	3	34
BOTTLED, TANK, OR LP GAS	57	3	10	18	10	8	2	4	1	2	-	-	28
FUEL OIL	4 026	38	408	921	1 011	631	408	380	119	86	23	1	36
KEROSENE, ETC	42	-	9	11	11	5	3	2	1	-	-	-	31
COAL OR COKE	79	-	19	23	20	9	3	4	-	-	-	1	28
WOOD	60	1	5	15	12	16	8	2	1	-	-	1	37
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	-
NONE	3	-	-	-	3	-	-	-	-	-	-	-	...
WATER HEATING FUEL[3]													
ELECTRICITY	1 715	3	80	243	362	259	204	266	116	150	31	-	46
OTHER FUEL	6 473	80	797	1 635	1 584	904	615	491	161	152	51	3	34
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL													
ELECTRICITY	4 244	15	265	849	1 008	666	480	491	197	221	54	-	39
OTHER FUEL	3 961	69	616	1 035	941	498	339	267	81	81	28	6	32
NONE	2	2	1	-	-	-	-	-	-	-	-	-	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	391	-	2	10	20	26	29	92	77	113	22	-	84
ALL OTHER FUEL COMBINATIONS OR NONE	7 817	86	879	1 874	1 929	1 137	791	665	201	189	60	6	35
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 669	35	415	877	916	522	386	325	80	81	31	-	35
HEAT PUMP	35	-	-	5	1	-	3	5	7	11	3	-	89
STEAM OR HOT WATER	3 766	44	390	901	936	565	373	319	109	101	25	3	35
BUILT-IN ELECTRIC UNITS	383	-	5	10	22	28	33	81	72	109	22	-	83
FLOOR, WALL, OR PIPELESS FURNACE	85	2	21	25	13	8	8	6	2	-	-	-	27
ROOM HEATERS WITH FLUE	113	3	31	26	19	14	6	10	3	-	-	1	28
ROOM HEATERS WITHOUT FLUE	9	-	2	4	2	-	-	2	-	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	146	2	18	35	36	25	10	10	5	1	-	2	34
NONE	3	-	-	-	3	-	-	-	-	-	-	-	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	3	-	-	-	3	-	-	-	-	-	-	-	...
WITH HEATING EQUIPMENT	8 205	86	882	1 884	1 946	1 163	819	758	278	302	82	6	36
NO THERMOSTAT CONTROL	144	4	36	46	29	13	5	6	2	-	-	3	26
WITH THERMOSTAT CONTROL	8 041	80	844	1 835	1 911	1 149	812	749	275	300	82	3	36
NOT CLOCK OPERATED	6 990	75	753	1 649	1 688	989	669	625	229	253	59	2	35
CONSTANT TEMPERATURE SETTING MAINTAINED	2 457	38	291	607	568	342	225	187	96	80	22	2	35
TEMPERATURE SETTING IS CHANGED	4 505	37	459	1 030	1 117	644	443	434	130	173	37	-	36
OCCASIONALLY	1 144	16	120	246	289	162	108	113	40	44	7	-	36
REGULARLY	3 333	21	334	785	818	479	336	314	89	127	30	-	36
DON'T KNOW	23	-	4	-	9	2	-	7	1	2	-	-	...
NOT REPORTED	4	-	2	-	1	1	-	-	1	-	-	-	...
NOT REPORTED	29	-	3	12	3	2	1	5	3	-	-	-	...
CLOCK OPERATED	1 040	5	91	183	223	156	142	123	44	47	23	1	41
NOT REPORTED	10	-	-	4	-	4	1	-	2	-	-	-	...
NOT REPORTED	20	2	2	3	6	1	3	3	1	2	-	-	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	149	2	18	35	39	25	10	10	5	1	-	2	34
WITH SELECTED HEATING EQUIPMENT[4]	8 059	84	863	1 848	1 910	1 138	809	748	273	301	82	3	36
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 457	78	826	1 712	1 775	1 039	731	684	253	277	78	3	36
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	572	4	36	127	131	95	76	60	20	20	4	-	38
SOLAR HEATING EQUIPMENT	4	-	-	-	1	2	2	-	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	321	2	17	65	84	53	43	33	8	16	1	-	38
FIREPLACE, BURNING WOOD OR COAL	67	-	3	10	10	7	6	8	12	2	2	-	44
PORTABLE ELECTRIC HEATER	82	2	5	21	16	14	9	12	-	2	1	-	37
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	-	1	3	1	1	2	-	-	-	-	-	...
OTHER	87	-	10	22	15	19	15	6	-	1	1	-	37
NOT REPORTED	6	-	-	-	4	1	-	1	-	-	-	-	...
NOT REPORTED	30	2	1	10	4	4	2	3	-	4	-	-	...
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	5	51	65	60	39	16	22	8	1	-	3	32
WITH SELECTED HEATING EQUIPMENT[5]	7 937	81	830	1 819	1 889	1 124	803	736	269	301	82	3	36
LESS THAN 4 YEARS	1 036	8	97	257	236	141	83	109	31	54	19	-	36
4 TO 9 YEARS	1 497	15	137	325	348	214	162	132	69	75	19	-	37
10 TO 19 YEARS	2 503	22	241	516	584	362	268	275	94	110	28	3	37
20 TO 39 YEARS	2 259	21	265	541	565	317	233	187	66	48	14	-	35
40 YEARS OR MORE	217	4	32	54	53	34	25	11	-	3	-	-	33
DON'T KNOW	372	7	51	115	95	47	27	16	5	9	-	-	31
NOT REPORTED	54	4	6	13	6	9	5	4	3	2	2	-	36

[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 HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE B-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	5	51	65	60	39	16	22	8	1	-	3	32
WITH SELECTED HEATING EQUIPMENT[3]	7 937	81	830	1 819	1 889	1 124	803	736	269	301	82	3	36
NO MAINTENANCE OR MODIFICATION	5 117	46	551	1 205	1 219	663	508	477	189	201	56	1	36
WITH MAINTENANCE OR MODIFICATION	2 773	33	272	598	665	456	292	254	78	98	25	2	37
NOT REPORTED	47	2	7	15	4	5	3	4	3	2	2	-	28
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	5	51	65	60	39	16	22	8	1	-	3	32
WITH SELECTED HEATING EQUIPMENT[3]	7 937	81	830	1 819	1 889	1 124	803	736	269	301	82	3	36
NO MAINTENANCE CONTRACT	5 400	54	587	1 276	1 329	734	500	462	178	214	64	3	35
WITH MAINTENANCE CONTRACT	2 479	23	236	525	557	382	296	270	87	86	18	-	37
NOT REPORTED	59	4	7	18	4	8	8	4	5	2	-	-	31
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	19	2	5	6	3	-	-	1	-	-	-	2	...
WITH HOT PIPED WATER	6 188	84	877	1 877	1 946	1 163	819	757	278	302	82	3	36
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 945	77	854	1 829	1 888	1 116	801	730	268	299	79	3	36
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	37	2	3	4	8	14	-	3	2	1	2	-	42
NOT REPORTED	204	5	20	44	50	32	18	23	8	3	1	-	36
NOT REPORTED	1	1	-	-	-	-	-	-	-	-	-	-	...
AIR CONDITIONING													
WITH AIR CONDITIONING	3 915	15	273	710	957	608	475	473	159	191	53	2	40
ROOM UNITS	3 137	10	254	642	834	488	343	337	101	102	25	2	37
1	1 602	6	193	396	441	208	139	121	48	41	6	2	34
2	1 017	2	46	199	281	181	114	121	23	40	11	-	38
3	338	2	10	35	81	56	56	65	19	11	2	-	47
4	121	-	3	10	27	33	18	18	7	3	2	-	46
5 OR MORE	60	-	2	3	3	10	16	12	4	6	4	-	56
CENTRAL SYSTEM	778	5	19	68	123	120	132	136	58	89	29	-	54
WITH NO AIR CONDITIONING	4 292	71	609	1 174	992	555	344	285	119	111	28	4	33
PERSONS													
1 PERSON	980	53	317	306	159	64	36	19	11	11	3	1	24
2 PERSONS	2 361	22	364	710	568	303	159	142	50	38	3	1	31
3 PERSONS	1 556	6	93	365	426	213	161	146	64	58	24	-	37
4 PERSONS	1 679	2	75	301	411	285	230	190	61	100	21	3	42
5 PERSONS	993	3	22	136	222	181	130	166	59	58	15	1	46
6 PERSONS	394	-	3	50	100	74	55	64	19	20	8	-	45
7 PERSONS OR MORE	244	-	7	16	62	43	48	31	13	17	8	-	48
MEDIAN	3.0	1.5-	1.8	2.4	3.1	3.5	3.7	3.9	3.7	3.9	4.0	...	...
SPECIFIED OWNER OCCUPIED[2]	8 208	86	882	1 884	1 949	1 163	819	758	278	302	82	6	36
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 208	86	882	1 884	1 949	1 163	819	758	278	302	82	6	36
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	6 892	55	716	1 558	1 603	1 003	711	660	249	262	71	5	36
SOME WINDOWS COVERED	953	23	111	245	253	117	84	67	18	29	4	1	33
NO WINDOWS COVERED	329	6	52	73	88	41	24	26	8	6	5	-	33
NOT REPORTED	34	2	3	8	6	2	-	4	2	5	2	-	...
STORM DOORS													
ALL DOORS COVERED	6 801	69	723	1 583	1 632	976	689	622	224	224	57	3	36
SOME DOORS COVERED	939	12	119	204	213	126	92	89	33	36	13	2	36
NO DOORS COVERED	434	3	37	89	98	60	38	43	18	37	10	1	38
NOT REPORTED	34	2	3	8	6	2	-	4	2	5	2	-	...
ATTIC OR ROOF INSULATION													
YES	6 889	56	631	1 550	1 637	1 018	709	679	253	274	78	4	37
NO	1 000	27	197	268	241	107	76	50	19	13	-	2	30
DON'T KNOW	279	2	51	56	65	35	32	24	3	9	2	-	34
NOT REPORTED	39	2	3	10	6	3	2	5	2	5	2	-	37
SPECIFIED RENTER OCCUPIED[3]	6 821	318	1 748	1 547	801	379	153	132	35	32	12	1 665	23
HOUSE HEATING FUEL													
ELECTRICITY	506	5	57	63	44	47	42	35	14	14	4	181	38
OTHER THAN ELECTRICITY	6 310	313	1 691	1 484	756	331	110	97	21	18	8	1 480	22
UTILITY GAS	2 389	120	736	508	261	110	42	40	7	8	4	553	21
BOTTLED, TANK, OR LP GAS	38	2	12	12	6	3	1	-	-	-	-	2	23
FUEL OIL	3 784	185	925	935	478	210	65	56	14	10	3	904	23
KEROSENE, ETC	34	3	11	12	2	3	2	1	-	-	-	1	...
COAL OR COKE	32	2	4	10	7	1	-	-	-	-	-	8	...
WOOD	20	1	3	4	2	1	-	-	-	-	-	9	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	2	-	3	-	3	2	-	-	-	-	3	...
NONE	4	-	-	-	1	-	-	-	-	-	-	3	...

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
WATER HEATING FUEL[3]													
ELECTRICITY	876	21	97	170	120	90	51	51	17	18	6	236	32
OTHER FUEL	5 893	293	1 645	1 376	680	289	101	82	18	14	6	1 390	22
NONE	4	-	1	-	-	-	-	-	-	-	-	3	...
COOKING FUEL													
ELECTRICITY	1 777	74	370	364	213	128	71	64	23	18	6	446	25
OTHER FUEL	4 968	245	1 373	1 180	588	250	81	68	12	13	6	1 152	22
NONE	75	-	5	3	-	-	-	-	-	-	-	66	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	379	-	33	40	39	43	35	29	14	13	4	130	43
ALL OTHER FUEL COMBINATIONS OR NONE	6 441	318	1 715	1 507	762	335	118	103	21	19	8	1 535	23
HEATING EQUIPMENT													
WARM-AIR FURNACE	1 515	56	388	367	201	84	56	37	12	10	2	302	24
HEAT PUMP	9	-	3	1	2	-	-	-	-	-	-	3	...
STEAM OR HOT WATER	4 329	223	1 124	997	506	217	55	58	12	6	7	1 125	22
BUILT-IN ELECTRIC UNITS	440	5	40	56	37	43	37	30	11	12	2	166	39
FLOOR, WALL, OR PIPELESS FURNACE	45	2	11	7	10	7	1	5	-	-	-	3	32
ROOM HEATERS WITH FLUE	384	24	164	96	35	21	2	1	-	2	-	39	18
ROOM HEATERS WITHOUT FLUE	42	5	7	11	3	5	1	2	-	2	-	7	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	53	4	11	14	5	1	1	1	-	-	-	17	22
NONE	4	-	-	-	1	-	-	-	-	-	-	3	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	4	-	-	-	1	-	-	-	-	-	-	3	...
WITH HEATING EQUIPMENT	6 816	318	1 748	1 547	800	379	153	132	35	32	12	1 662	23
NO THERMOSTAT CONTROL	3 519	192	888	756	370	155	34	35	10	9	3	1 067	22
WITH THERMOSTAT CONTROL	3 286	126	856	787	430	224	119	97	25	23	8	592	24
NOT CLOCK OPERATED	2 920	106	781	720	362	182	101	87	25	21	7	528	24
CONSTANT TEMPERATURE SETTING MAINTAINED	1 055	32	289	257	127	65	36	32	7	9	2	200	24
TEMPERATURE SETTING IS CHANGED	1 807	72	472	449	226	110	64	55	18	12	5	323	24
OCCASIONALLY	597	25	183	130	65	28	26	21	5	2	2	110	22
REGULARLY	1 185	45	281	318	161	81	38	35	13	11	3	199	25
DON'T KNOW	25	2	8	1	-	1	-	-	-	-	-	14	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	58	3	20	13	9	7	1	-	-	-	-	5	23
CLOCK OPERATED	358	20	74	66	66	41	18	10	-	2	2	60	27
NOT REPORTED	8	-	-	2	2	2	-	-	-	-	-	3	...
NOT REPORTED	11	-	4	4	-	-	-	-	-	-	-	3	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	58	4	11	14	6	1	1	1	-	-	-	20	22
WITH SELECTED HEATING EQUIPMENT[4]	6 763	314	1 736	1 534	795	378	152	131	35	32	12	1 645	23
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 372	304	1 659	1 432	738	356	142	121	35	26	10	1 549	23
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	363	8	68	94	56	22	9	11	-	6	2	87	26
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	31	-	8	8	8	2	2	2	-	1	-	1	...
FIREPLACE, BURNING WOOD OR COAL	3	-	2	2	-	-	-	-	-	-	-	-	...
PORTABLE ELECTRIC HEATER	275	8	53	68	41	16	4	8	-	5	2	71	25
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	2	6	3	2	4	-	-	-	-	3	...
OTHER	29	-	4	9	6	2	-	2	-	-	-	9	...
NOT REPORTED	7	-	-	4	-	-	-	-	-	-	-	4	...
NOT REPORTED	28	2	9	7	2	-	-	-	-	-	-	8	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	47	4	5	2	1	-	-	-	-	-	-	35	...
WITH HOT PIPED WATER	6 773	315	1 743	1 545	800	379	153	132	35	32	12	1 629	23
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 574	305	1 699	1 498	779	371	149	123	35	30	12	1 572	23
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	19	-	10	3	3	-	1	-	-	-	-	2	...
NOT REPORTED	176	9	32	44	17	8	3	9	-	2	-	53	24
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	2 459	90	597	629	360	194	88	68	26	16	7	385	25
ROOM UNITS	2 098	80	539	557	308	162	61	47	18	8	5	312	24
1	1 454	70	428	369	197	100	30	16	8	5	2	229	23
2	532	10	99	166	92	48	16	19	8	2	-	70	27
3	96	-	8	19	17	14	13	11	-	2	3	10	39
4	9	-	-	3	2	-	-	-	2	-	-	2	...
5 OR MORE	7	-	4	-	-	-	2	-	-	-	-	2	...
CENTRAL SYSTEM	361	10	59	72	51	32	27	21	7	8	2	73	31
WITH NO AIR CONDITIONING	4 362	228	1 150	919	441	185	64	65	9	16	5	1 280	22
PERSONS													
1 PERSON	2 494	225	824	420	146	44	22	14	5	9	5	778	17
2 PERSONS	2 026	74	565	525	240	128	39	28	12	6	2	408	23
3 PERSONS	1 104	10	224	278	181	93	37	43	9	7	1	220	27
4 PERSONS	678	6	101	196	127	73	24	26	5	4	4	113	28
5 PERSONS	294	3	19	68	67	23	16	7	4	2	-	86	32
6 PERSONS	126	1	3	44	29	11	7	5	-	2	-	24	31
7 PERSONS OR MORE	99	-	12	17	10	7	7	11	-	-	-	35	33
MEDIAN	1.9	1.5-	1.6	2.2	2.6	2.7	2.9	3.1	...	...	...	1.6	...

[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]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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]	6 821	318	1 748	1 547	801	379	153	132	35	32	12	1 665	23
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	965	15	177	258	174	83	47	39	9	8	3	152	27
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	564	6	89	142	118	54	30	19	2	6	3	97	29
SOME WINDOWS COVERED	174	2	33	61	23	19	11	8	1	1	-	17	27
NO WINDOWS COVERED	176	7	44	41	29	9	6	8	6	2	-	25	25
NOT REPORTED	49	-	11	14	4	2	1	4	-	-	-	14	24
STORM DOORS													
ALL DOORS COVERED	550	8	88	139	107	55	26	23	2	6	3	93	29
SOME DOORS COVERED	145	1	33	57	20	6	6	7	2	-	-	15	25
NO DOORS COVERED	220	6	45	47	44	21	15	4	6	2	-	31	28
NOT REPORTED	49	-	11	14	4	2	1	4	-	-	-	14	24
ATTIC OR ROOF INSULATION													
YES	443	4	73	110	94	34	28	22	2	7	3	67	30
NO	278	7	61	70	48	23	11	9	6	1	-	42	26
DON'T KNOW	195	3	32	64	28	24	8	4	2	-	-	29	27
NOT REPORTED	49	-	11	14	4	2	1	4	-	-	-	14	24

[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: 1979

(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]	8 208	606	415	325	365	334	676	720	1 164	541	221	2 841	38
HOUSE HEATING FUEL													
GAS	3 518	78	53	63	153	214	560	638	1 071	496	191	-	49
UTILITY GAS	3 461	72	51	61	148	209	557	631	1 063	483	185	-	50
BOTTLED, TANK, OR LP GAS	57	6	2	2	5	5	3	7	8	12	7	-	47
OTHER THAN GAS	4 687	528	363	261	211	120	114	82	94	45	29	2 840	16
FUEL OIL	4 026	487	333	240	199	113	102	74	77	38	25	2 338	15
KEROSENE, ETC	42	7	6	5	2	4	2	-	-	-	-	16	...
ELECTRICITY	480	16	9	9	5	1	3	8	13	6	4	405	23
COAL OR COKE	79	11	11	5	5	2	5	-	3	-	-	38	14
WOOD	60	7	3	3	1	1	2	-	-	1	-	43	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	-
NONE	3	-	-	-	-	-	2	-	-	-	-	1	...
WATER HEATING FUEL[3]													
GAS	4 048	119	195	202	261	269	586	658	1 059	500	198	-	45
UTILITY GAS	3 860	105	167	169	223	250	570	646	1 048	488	194	-	46
BOTTLED, TANK, OR LP GAS	188	14	28	33	38	19	15	12	11	12	4	-	22
OTHER FUEL	4 140	483	219	121	103	63	90	61	104	41	22	2 832	13
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL													
GAS	3 928	481	339	253	288	249	489	497	783	394	156	-	37
UTILITY GAS	3 408	285	237	190	235	224	467	480	770	374	145	-	41
BOTTLED, TANK, OR LP GAS	520	196	102	63	53	25	21	17	14	19	10	-	13
OTHER FUEL	4 278	124	76	72	77	86	188	223	381	147	65	2 839	44
NONE	2	-	-	-	-	-	-	-	-	-	-	2	-
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 300	27	20	30	99	142	368	430	706	345	132	-	51
ALL OTHER FUEL COMBINATIONS OR NONE	5 908	579	395	294	265	192	308	290	458	196	89	2 841	24
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 669	197	151	136	171	172	474	492	711	262	95	808	42
HEAT PUMP	35	2	-	-	-	-	-	-	2	-	3	28	...
STEAM OR HOT WATER	3 766	365	235	166	163	129	174	195	410	267	120	1 541	33
BUILT-IN ELECTRIC UNITS	383	12	6	5	4	-	3	4	5	3	-	339	17
FLOOR, WALL, OR PIPELESS FURNACE	85	5	3	6	6	15	6	10	19	3	3	12	34
ROOM HEATERS WITH FLUE	113	8	5	6	12	11	10	14	14	4	-	28	30
ROOM HEATERS WITHOUT FLUE	9	1	1	-	-	1	2	3	-	-	-	2	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	146	16	14	6	9	7	6	1	4	1	-	81	16
NONE	3	-	-	-	-	-	2	-	-	-	-	1	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	3	-	-	-	-	-	2	-	-	-	-	1	...
WITH HEATING EQUIPMENT	8 205	606	415	325	365	334	675	720	1 164	541	221	2 840	39
NO THERMOSTAT CONTROL	144	22	14	9	11	8	11	13	9	4	-	43	22
WITH THERMOSTAT CONTROL	8 041	581	398	316	352	324	662	707	1 155	537	219	2 790	39
NOT CLOCK OPERATED	6 990	499	338	258	295	277	585	610	978	436	159	2 555	38
CONSTANT TEMPERATURE SETTING MAINTAINED	2 457	190	116	82	110	106	219	239	325	159	61	851	38
TEMPERATURE SETTING IS CHANGED	4 505	308	221	175	185	172	363	368	652	276	96	1 689	39
OCCASIONALLY	1 144	91	62	42	50	30	94	110	182	87	18	379	41
REGULARLY	3 333	215	159	132	135	142	264	256	466	183	78	1 303	38
DON'T KNOW	23	2	-	-	-	-	4	2	5	5	-	6	...
NOT REPORTED	4	-	-	1	-	-	2	-	-	1	-	1	...
NOT REPORTED	29	1	1	-	-	-	3	3	2	2	2	15	...
CLOCK OPERATED	1 040	83	59	57	57	46	77	96	173	100	58	234	42
NOT REPORTED	10	-	1	2	-	-	-	2	3	-	2	1	...
NOT REPORTED	20	3	4	-	2	3	2	-	-	-	2	6	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	149	16	14	6	9	7	7	1	4	1	-	83	17
WITH SELECTED HEATING EQUIPMENT[4]	8 059	590	401	319	356	328	669	718	1 160	540	221	2 758	39
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 457	547	367	289	325	310	631	683	1 103	514	210	2 477	40
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	572	37	31	29	28	15	36	34	55	26	7	274	32
SOLAR HEATING EQUIPMENT	4	-	-	-	-	-	-	-	-	1	-	3	...
STOVE, BURNING WOOD OR COAL	321	29	13	12	17	4	14	15	18	9	2	188	23
FIREPLACE, BURNING WOOD OR COAL	67	5	8	2	2	4	7	8	7	3	-	22	33
PORTABLE ELECTRIC HEATER	82	1	6	3	2	2	12	6	13	6	5	27	44
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	1	-	-	-	-	-	-	-	2	-	4	...
OTHER	87	2	2	13	8	5	4	4	13	5	-	30	28
NOT REPORTED	6	-	1	-	-	-	-	-	4	-	-	1	...
NOT REPORTED	30	5	3	-	3	3	2	2	2	-	4	7	...
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	25	20	12	21	19	19	18	18	5	-	112	25
WITH SELECTED HEATING EQUIPMENT[5]	7 937	580	395	313	344	316	657	701	1 146	536	221	2 729	39
LESS THAN 4 YEARS	1 036	78	53	44	39	38	87	66	99	38	22	472	33
4 TO 9 YEARS	1 497	96	60	63	46	54	113	103	242	103	43	574	43
10 TO 19 YEARS	2 503	155	89	82	92	87	216	254	438	220	85	786	45
20 TO 39 YEARS	2 259	185	136	90	112	104	194	215	283	128	43	769	35
40 YEARS OR MORE	217	26	26	13	26	9	7	22	21	18	9	41	24
DON'T KNOW	372	34	28	19	27	22	37	34	54	29	17	71	35
NOT REPORTED	54	7	3	3	2	3	2	8	10	-	2	15	41

[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 HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE B-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	25	20	12	21	19	19	18	18	5	-	112	25
WITH SELECTED HEATING EQUIPMENT[3]	7 937	580	395	313	344	316	657	701	1 146	536	221	2 729	39
NO MAINTENANCE OR MODIFICATION	5 117	333	215	172	196	214	490	525	863	402	134	1 573	43
WITH MAINTENANCE OR MODIFICATION	2 773	243	179	140	147	99	164	173	271	131	83	1 145	30
NOT REPORTED	47	5	2	1	2	3	3	3	12	2	4	11	48
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	25	20	12	21	19	19	18	18	5	-	112	25
WITH SELECTED HEATING EQUIPMENT[3]	7 937	580	395	313	344	316	657	701	1 146	536	221	2 729	39
NO MAINTENANCE CONTRACT	5 400	303	200	167	219	235	542	620	927	463	170	1 553	44
WITH MAINTENANCE CONTRACT	2 479	268	193	141	123	78	113	76	202	72	47	1 166	22
NOT REPORTED	59	10	2	5	2	3	2	6	17	1	4	9	44
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	19	4	2	2	1	2	1	-	1	-	-	8	...
WITH HOT PIPED WATER	8 188	602	414	323	364	333	676	720	1 164	541	221	2 832	39
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 945	586	398	313	352	319	658	690	1 131	521	219	2 758	39
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	37	2	-	3	3	3	3	2	5	3	-	13	...
NOT REPORTED	204	15	16	7	9	11	15	28	28	16	2	59	40
NOT REPORTED	1	-	-	-	-	-	-	-	-	-	-	1	-
AIR CONDITIONING													
WITH AIR CONDITIONING	3 915	233	191	159	163	190	334	345	608	313	154	1 226	42
ROOM UNITS	3 137	214	184	143	130	155	274	244	440	223	109	1 020	38
1	1 602	111	83	71	73	82	152	124	201	84	44	576	35
2	1 017	70	56	52	37	54	85	76	140	87	44	315	39
3	338	20	30	12	13	6	24	34	72	29	8	90	45
4	121	8	10	6	5	11	11	5	13	22	8	22	38
5 OR MORE	60	5	6	2	2	2	2	4	14	2	5	16	48
CENTRAL SYSTEM	778	19	7	15	33	34	60	101	168	89	45	206	52
WITH NO AIR CONDITIONING	4 292	373	224	166	202	145	343	374	557	228	67	1 615	36
PERSONS													
1 PERSON	980	142	73	50	49	54	82	74	103	33	11	309	27
2 PERSONS	2 361	175	130	113	112	109	197	230	307	129	38	820	36
3 PERSONS	1 556	109	80	59	86	68	153	126	204	94	38	539	36
4 PERSONS	1 679	87	68	45	61	46	133	150	281	126	56	626	45
5 PERSONS	993	56	43	24	18	34	72	88	166	92	36	364	47
6 PERSONS	394	26	13	18	27	18	26	42	58	43	15	108	43
7 PERSONS OR MORE	244	11	7	15	12	5	14	9	46	24	26	74	55
MEDIAN	3.0	2.4	2.5	2.5	2.7	2.5	2.9	2.9	3.3	3.6	3.9	3.0	...
SPECIFIED OWNER OCCUPIED[2]	8 208	606	415	325	365	334	676	720	1 164	541	221	2 841	38
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 208	606	415	325	365	334	676	720	1 164	541	221	2 841	38
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	6 892	499	325	272	292	282	556	578	985	442	172	2 490	39
SOME WINDOWS COVERED	953	82	69	43	49	34	87	97	126	75	34	257	37
NO WINDOWS COVERED	329	20	19	8	21	16	32	43	52	23	11	85	41
NOT REPORTED	34	5	3	2	3	2	2	2	2	2	4	9	...
STORM DOORS													
ALL DOORS COVERED	6 801	489	332	265	304	283	569	607	977	440	149	2 386	38
SOME DOORS COVERED	939	75	59	45	42	31	74	77	140	67	50	281	40
NO DOORS COVERED	434	37	22	13	16	19	32	34	46	32	18	165	38
NOT REPORTED	34	5	3	2	3	2	2	2	2	2	4	9	...
ATTIC OR ROOF INSULATION													
YES	6 889	468	326	236	275	269	536	598	956	443	178	2 603	40
NO	1 000	108	70	63	67	53	114	90	162	75	29	170	34
DON'T KNOW	279	25	16	24	20	9	24	29	44	21	10	57	37
NOT REPORTED	39	5	3	2	3	4	2	3	2	2	4	11	...
SPECIFIED RENTER OCCUPIED[5]	6 821	1 206	656	378	253	171	295	204	239	105	31	3 282	13
HOUSE HEATING FUEL													
GAS	2 427	223	167	107	123	99	229	171	210	100	25	972	30
UTILITY GAS	2 389	219	166	106	119	97	226	167	204	95	24	967	30
BOTTLED, TANK, OR LP GAS	38	5	2	2	4	2	4	4	6	5	2	5	...
OTHER THAN GAS	4 389	983	488	271	130	72	66	34	29	5	6	2 306	10
FUEL OIL	3 784	940	470	261	123	68	57	25	28	5	6	1 801	10
KEROSENE, ETC	34	13	6	1	1	-	2	-	-	-	-	12	...
ELECTRICITY	506	14	10	6	4	3	6	7	-	-	-	457	15
COAL OR COKE	32	6	2	2	1	-	1	2	1	-	-	17	...
WOOD	20	6	1	1	2	2	-	-	-	-	-	9	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	3	-	-	-	-	-	-	-	-	-	10	...
NONE	4	-	-	-	-	-	-	-	-	-	-	4	-

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]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: 1979--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													
WATER HEATING FUEL[3]													
GAS	2 747	303	235	176	169	109	241	177	210	95	24	1 009	24
UTILITY GAS	2 677	292	231	170	159	108	232	173	205	91	24	994	24
BOTTLED, TANK, OR LP GAS	70	12	3	6	10	1	9	4	5	5	-	15	23
OTHER FUEL	4 022	898	420	201	84	61	53	27	29	10	7	2 231	10-
NONE	4	-	1	-	-	-	-	-	-	-	-	3	...
COOKING FUEL													
GAS	4 948	1 164	616	355	233	159	258	178	213	90	25	1 658	13
UTILITY GAS	4 722	1 059	590	337	215	156	248	172	204	85	24	1 632	13
BOTTLED, TANK, OR LP GAS	226	105	26	18	18	3	10	6	9	5	1	26	10-
OTHER FUEL	1 798	42	40	23	20	12	37	26	26	15	7	1 549	24
NONE	75	-	-	-	-	-	-	-	-	-	-	75	-
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	1 663	133	122	77	98	77	191	134	176	81	17	556	32
ALL OTHER FUEL COMBINATIONS OR NONE	5 157	1 073	534	301	155	94	104	71	63	25	14	2 726	11
HEATING EQUIPMENT													
WARM-AIR FURNACE	1 515	109	87	66	80	61	128	88	122	49	13	713	29
HEAT PUMP	9	2	-	-	-	-	-	-	-	-	-	7	...
STEAM OR HOT WATER	4 329	1 046	522	270	120	74	82	59	53	31	13	2 059	11
BUILT-IN ELECTRIC UNITS	440	12	8	4	4	3	4	3	-	-	-	402	13
FLOOR, WALL, OR PIPELESS FURNACE	45	-	2	5	3	1	10	5	4	1	-	14	...
ROOM HEATERS WITH FLUE	384	24	29	27	35	28	64	45	53	19	5	55	33
ROOM HEATERS WITHOUT FLUE	42	2	7	2	5	-	5	4	3	5	-	9	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	53	11	2	4	6	5	3	-	4	-	-	19	...
NONE	4	-	-	-	-	-	-	-	-	-	-	4	-
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	4	-	-	-	-	-	-	-	-	-	-	4	-
WITH HEATING EQUIPMENT	6 816	1 206	656	378	253	171	295	204	239	105	31	3 277	13
NO THERMOSTAT CONTROL	3 519	881	447	216	120	78	85	48	56	19	7	1 563	11
WITH THERMOSTAT CONTROL	3 286	323	207	162	131	93	210	157	183	86	24	1 710	23
NOT CLOCK OPERATED	2 920	274	166	141	113	87	195	135	152	72	20	1 563	23
CONSTANT TEMPERATURE SETTING MAINTAINED	1 055	101	58	42	43	36	72	45	63	18	10	567	25
TEMPERATURE SETTING IS CHANGED	1 807	162	101	98	69	50	118	90	89	54	10	966	23
OCCASIONALLY	597	48	29	44	22	19	40	32	34	23	3	303	26
REGULARLY	1 185	114	72	52	47	31	78	58	52	30	7	643	23
DON'T KNOW	25	-	-	2	-	-	-	-	3	-	-	20	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	58	11	7	2	2	2	5	-	-	-	-	30	...
CLOCK OPERATED	358	48	41	19	18	6	13	21	31	14	5	142	19
NOT REPORTED	8	-	-	2	-	-	2	-	-	-	-	5	...
NOT REPORTED	11	2	2	1	2	-	-	-	-	-	-	5	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	58	11	2	4	6	5	3	-	4	-	-	23	...
WITH SELECTED HEATING EQUIPMENT[4]	6 763	1 195	654	374	247	166	293	204	234	105	31	3 259	13
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 372	1 125	604	345	232	152	277	200	229	94	30	3 085	13
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	363	68	45	28	13	12	16	3	6	11	2	159	13
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	31	8	1	2	-	2	1	-	2	-	-	16	...
FIREPLACE, BURNING WOOD OR COAL	3	-	2	-	-	2	-	-	-	-	-	-	...
PORTABLE ELECTRIC HEATER	275	56	35	20	11	7	12	3	2	4	2	122	12
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	7	2	-	-	-	-	-	7	-	3	...
OTHER	29	3	-	3	2	4	3	-	2	-	-	13	...
NOT REPORTED	7	-	2	-	-	-	-	-	-	-	-	5	...
NOT REPORTED	28	3	5	1	2	2	-	2	-	-	-	15	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	47	5	1	1	1	1	1	-	-	-	-	39	...
WITH HOT PIPED WATER	6 773	1 201	655	377	252	170	294	204	239	105	31	3 243	13
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 574	1 174	634	367	242	167	287	203	226	97	31	3 147	13
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	19	2	2	-	2	3	2	-	2	2	-	5	...
NOT REPORTED	176	26	19	10	9	-	5	2	11	7	-	87	14
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	2 459	432	217	127	72	49	73	68	66	31	6	1 317	13
ROOM UNITS	2 098	422	208	120	64	42	63	60	58	25	3	1 032	12
1	1 454	326	146	81	48	27	44	43	30	18	3	688	12
2	532	82	54	27	13	13	18	15	20	4	-	286	13
3	96	13	8	8	3	2	2	2	6	2	-	51	16
4	9	-	-	2	-	-	-	-	-	2	-	5	...
5 OR MORE	7	2	-	2	-	-	-	-	2	-	-	2	...
CENTRAL SYSTEM	361	10	10	8	8	6	10	8	8	6	3	285	26
WITH NO AIR CONDITIONING	4 362	774	438	251	181	122	222	137	173	74	25	1 965	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]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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	2 494	530	201	63	67	58	90	42	52	14	8	1 370	11
2 PERSONS	2 026	368	201	131	81	36	71	58	60	28	4	988	13
3 PERSONS	1 104	150	125	82	45	32	73	51	54	23	5	463	17
4 PERSONS	678	101	76	55	34	25	42	34	38	19	13	242	18
5 PERSONS	294	34	33	24	14	13	13	11	14	10	2	127	18
6 PERSONS	126	16	14	16	7	8	6	-	4	9	-	45	18
7 PERSONS OR MORE	99	8	5	8	5	-	1	7	16	2	-	47	34
MEDIAN	1.9	1.7	2.1	2.5	2.2	2.3	2.3	2.5	2.6	3.0	...	1.8	...
SPECIFIED RENTER OCCUPIED[2]	6 821	1 206	656	378	253	171	295	204	239	105	31	3 282	13
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	965	97	56	46	55	32	85	67	87	40	11	390	30
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	564	65	36	29	22	20	43	37	37	20	5	251	26
SOME WINDOWS COVERED	174	16	13	7	14	6	16	8	29	8	3	55	32
NO WINDOWS COVERED	176	12	6	10	18	6	21	19	16	11	3	54	34
NOT REPORTED	49	3	-	-	2	1	5	3	5	1	-	30	...
STORM DOORS													
ALL DOORS COVERED	550	50	31	23	23	16	49	34	45	22	5	252	31
SOME DOORS COVERED	145	14	9	3	9	8	14	17	20	6	3	42	36
NO DOORS COVERED	220	31	15	20	22	7	16	13	17	11	2	66	22
NOT REPORTED	49	3	-	-	2	1	5	3	5	1	-	30	...
ATTIC OR ROOF INSULATION													
YES	443	51	26	13	21	13	37	25	27	21	4	205	28
NO	278	23	16	20	23	16	23	22	29	15	4	88	28
DON'T KNOW	195	21	14	13	10	2	19	17	26	3	3	66	32
NOT REPORTED	49	3	-	-	2	1	5	3	5	1	-	30	...

[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: 1979

(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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	8 208	120	113	151	318	441	509	621	521	1 691	3 723	694
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	4 207	47	58	123	286	413	476	580	481	1 587	154	709
FUEL OIL	4 026	44	48	107	254	384	449	566	470	1 571	133	720
COAL OR COKE	79	1	2	4	17	15	16	9	4	3	7	478
KEROSENE, ETC	42	-	3	4	5	9	7	4	6	3	2	493
WOOD	60	3	5	8	10	5	4	2	1	10	12	382
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	3 998	72	55	29	32	27	32	41	40	102	3 568	501
UTILITY GAS	3 461	60	43	19	16	23	22	31	29	75	3 142	491
BOTTLED, TANK, OR LP GAS	57	2	3	1	2	2	-	1	2	7	38	...
ELECTRICITY	480	9	9	9	14	2	10	8	9	20	388	524
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	3	-	-	-	-	-	-	-	-	2	1	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 669	55	50	77	183	240	212	200	167	371	2 115	581
HEAT PUMP	35	2	-	-	2	-	2	1	2	2	25	...
STEAM OR HOT WATER	3 766	49	39	39	100	174	265	391	337	1 258	1 115	779
BUILT-IN ELECTRIC UNITS	383	6	7	5	6	2	6	5	3	13	328	502
FLOOR, WALL, OR PIPELESS FURNACE	85	-	1	3	2	5	7	5	2	5	55	...
ROOM HEATERS WITH FLUE	113	2	2	6	5	8	6	10	6	25	45	663
ROOM HEATERS WITHOUT FLUE	9	-	-	-	-	1	1	-	1	1	5	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	146	5	15	21	20	10	12	9	4	15	34	370
NONE	3	-	-	-	-	-	-	-	-	2	1	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	3	-	-	-	-	-	-	-	-	2	1	...
WITH HEATING EQUIPMENT	8 205	120	113	151	318	441	509	621	521	1 690	3 722	694
NO THERMOSTAT CONTROL	144	5	6	14	14	22	14	14	6	8	41	457
WITH THERMOSTAT CONTROL	8 041	115	104	137	304	417	493	606	514	1 677	3 674	701
NOT CLOCK OPERATED	6 990	98	85	121	288	384	435	542	454	1 420	3 164	692
CONSTANT TEMPERATURE SETTING MAINTAINED	2 457	28	30	47	112	124	159	176	141	466	1 174	680
TEMPERATURE SETTING IS CHANGED	4 505	69	53	74	176	260	275	365	312	948	1 972	697
OCCASIONALLY	1 144	18	12	22	48	56	63	75	78	238	534	713
REGULARLY	3 333	51	40	52	128	204	210	288	232	705	1 422	693
DON'T KNOW	23	-	1	-	-	-	1	1	2	5	13	...
NOT REPORTED	4	-	-	-	-	-	1	1	-	-	3	...
NOT REPORTED	29	-	1	-	-	-	1	2	-	7	18	...
CLOCK OPERATED	1 040	17	19	16	15	33	57	62	60	257	503	780
NOT REPORTED	10	-	1	-	-	-	1	2	-	-	7	...
NOT REPORTED	20	-	3	1	-	2	2	1	2	4	7	...
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	7	17	27	25	19	18	19	11	42	85	485
WITH SELECTED HEATING EQUIPMENT[2]	7 937	113	97	124	293	421	490	602	511	1 649	3 638	702
LESS THAN 4 YEARS	1 036	18	13	22	46	60	90	87	63	206	429	661
4 TO 9 YEARS	1 497	20	21	28	65	81	92	104	77	233	776	651
10 TO 19 YEARS	2 503	36	25	37	76	110	149	173	129	433	1 535	686
20 TO 39 YEARS	2 259	31	28	22	87	139	115	198	196	597	844	744
40 YEARS OR MORE	217	1	3	8	4	12	18	9	19	86	59	800+
DON'T KNOW	372	4	6	5	11	16	21	27	21	85	176	735
NOT REPORTED	54	3	-	1	3	3	6	3	5	10	19	...
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	7	17	27	25	19	18	19	11	42	85	485
WITH SELECTED HEATING EQUIPMENT[2]	7 937	113	97	124	293	421	490	602	511	1 649	3 638	702
NO MAINTENANCE OR MODIFICATION	5 117	70	65	76	172	224	279	317	266	812	2 837	680
WITH MAINTENANCE OR MODIFICATION	2 773	41	31	47	119	194	209	282	239	829	781	730
NOT REPORTED	47	2	-	1	2	3	3	3	5	8	20	...
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	270	7	17	27	25	19	18	19	11	42	85	485
WITH SELECTED HEATING EQUIPMENT[2]	7 937	113	97	124	293	421	490	602	511	1 649	3 638	702
NO MAINTENANCE CONTRACT	5 400	81	76	87	198	260	295	304	226	691	3 182	636
WITH MAINTENANCE CONTRACT	2 479	30	18	36	93	158	193	295	279	945	431	771
NOT REPORTED	59	2	2	1	2	3	3	3	5	13	25	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	19	1	-	4	2	1	2	4	-	-	5	...
WITH HOT PIPED WATER	8 188	119	113	147	316	440	506	617	521	1 691	3 718	695
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 945	115	108	140	313	421	490	601	508	1 631	3 617	695
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	37	2	2	-	-	2	2	2	2	15	12	...
NOT REPORTED	204	2	3	7	3	17	15	14	11	45	89	684
NOT REPORTED	1	-	-	1	-	-	-	-	-	-	-	...
AIR CONDITIONING												
WITH AIR CONDITIONING	3 915	63	43	55	100	188	204	261	240	849	1 912	736
ROOM UNITS	3 137	51	36	49	86	156	171	242	206	766	1 374	743
1	1 602	27	15	31	59	104	103	121	123	332	687	697
2	1 017	10	16	15	18	35	51	80	54	280	456	799
3	338	10	1	2	6	15	9	25	23	97	149	800+
4	121	2	4	-	1	1	7	10	3	34	60	800+
5 OR MORE	60	2	-	2	2	1	1	6	2	23	22	800+
CENTRAL SYSTEM	778	12	7	6	14	33	33	18	34	83	538	685
WITH NO AIR CONDITIONING	4 292	57	70	96	218	252	305	360	281	842	1 811	667

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
PERSONS												
1 PERSON	980	7	14	19	50	83	64	89	69	172	413	652
2 PERSONS	2 361	25	27	42	109	147	165	189	175	434	1 048	674
3 PERSONS	1 556	26	24	29	63	88	91	111	84	335	705	693
4 PERSONS	1 679	31	30	31	50	68	101	125	95	360	789	710
5 PERSONS	993	19	11	21	32	33	56	71	63	225	462	735
6 PERSONS	394	9	3	3	9	12	20	24	22	100	193	796
7 PERSONS OR MORE	244	3	5	6	4	9	12	12	14	65	114	800+
MEDIAN	3.0	3.6	3.1	3.0	2.5	2.4	2.8	2.8	2.7	3.2	3.1	...
SPECIFIED OWNER OCCUPIED[1]	8 208	120	113	151	318	441	509	621	521	1 691	3 723	694
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 208	120	113	151	318	441	509	621	521	1 691	3 723	694
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	6 892	99	93	126	255	372	437	529	443	1 416	3 123	694
SOME WINDOWS COVERED	953	12	15	22	44	47	56	79	52	211	414	692
NO WINDOWS COVERED	329	8	5	4	18	18	16	14	24	53	168	674
NOT REPORTED	34	-	-	-	-	3	-	-	2	11	17	...
STORM DOORS												
ALL DOORS COVERED	6 801	89	87	110	262	360	417	541	450	1 389	3 096	697
SOME DOORS COVERED	939	19	17	24	35	51	63	58	51	190	431	676
NO DOORS COVERED	434	11	8	17	21	27	29	22	19	101	178	664
NOT REPORTED	34	-	-	-	-	3	-	-	2	11	17	...
ATTIC OR ROOF INSULATION												
YES	6 889	106	94	128	272	372	418	536	446	1 436	3 080	695
NO	1 000	9	13	17	37	52	70	68	53	199	483	690
DON'T KNOW	279	4	6	6	8	13	21	18	20	44	139	668
NOT REPORTED	39	2	-	-	1	3	-	-	2	11	20	...
SPECIFIED RENTER OCCUPIED[1]	6 821	37	28	48	84	91	99	95	64	221	6 054	596
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	3 869	25	20	42	73	81	88	91	56	210	3 182	615
FUEL OIL	3 784	20	18	29	58	71	84	87	53	205	3 159	637
COAL OR COKE	32	2	-	7	3	6	-	2	2	-	11	...
KEROSENE, ETC	34	1	1	6	9	3	2	2	2	4	5	...
WOOD	20	2	1	2	3	2	2	-	-	1	8	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	2 947	12	8	6	11	10	11	2	8	11	2 869	428
UTILITY GAS	2 389	12	3	4	9	7	10	2	8	8	2 325	447
BOTTLED, TANK, OR LP GAS	38	-	-	1	-	3	-	-	-	2	33	...
ELECTRICITY	506	-	5	1	2	-	1	1	-	-	498	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	13	-	-	-	-	-	-	-	-	-	13	-
NONE	4	-	-	-	-	-	-	1	-	-	3	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 515	8	14	20	36	49	43	35	23	58	1 229	536
HEAT PUMP	9	-	-	-	-	-	-	1	-	-	8	...
STEAM OR HOT WATER	4 329	19	4	12	29	30	48	58	38	149	3 943	688
BUILT-IN ELECTRIC UNITS	440	-	5	1	2	-	1	-	-	-	432	...
FLOOR, WALL, OR PIPELESS FURNACE	45	1	-	-	2	2	1	-	-	3	36	...
ROOM HEATERS WITH FLUE	384	2	3	8	12	6	3	-	1	7	342	369
ROOM HEATERS WITHOUT FLUE	42	2	-	1	-	2	1	-	4	1	32	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	53	5	2	6	4	2	2	-	-	3	29	...
NONE	4	-	-	-	-	-	-	1	-	-	3	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	4	-	-	-	-	-	-	1	-	-	3	...
WITH HEATING EQUIPMENT	6 816	37	28	48	84	91	99	94	64	221	6 051	595
NO THERMOSTAT CONTROL	3 519	16	4	21	15	12	6	2	8	15	3 420	354
WITH THERMOSTAT CONTROL	3 286	21	23	27	69	79	93	92	57	205	2 619	623
NOT CLOCK OPERATED	2 920	20	20	25	63	72	87	90	50	180	2 312	618
CONSTANT TEMPERATURE SETTING MAINTAINED	1 055	6	4	10	28	24	30	20	15	50	868	575
TEMPERATURE SETTING IS CHANGED	1 807	11	14	14	36	48	53	66	33	128	1 403	639
OCCASIONALLY	597	3	10	8	6	11	6	15	6	37	494	644
REGULARLY	1 185	7	5	6	30	36	47	52	25	90	887	634
DON'T KNOW	25	-	-	-	-	-	-	-	2	1	22	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	58	3	2	1	-	-	4	3	2	2	41	...
CLOCK OPERATED	358	1	3	2	6	7	6	2	7	25	299	734
NOT REPORTED	8	-	-	-	-	-	-	-	-	-	8	-
NOT REPORTED	11	-	1	-	-	-	-	-	-	-	11	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	47	2	2	2	3	2	2	-	-	-	36	...
WITH HOT PIPED WATER	6 773	35	27	46	81	90	97	95	64	221	6 018	602
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 574	33	24	45	81	87	95	94	64	218	5 833	606
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	19	-	-	-	-	-	1	-	-	1	17	...
NOT REPORTED	176	2	3	1	-	2	2	1	-	2	165	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-

[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.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	2 459	10	5	9	20	20	23	29	17	76	2 249	658
ROOM UNITS	2 098	10	5	8	19	20	22	29	15	71	1 900	654
1	1 454	6	3	5	13	15	18	23	11	51	1 309	651
2	532	4	2	3	4	3	2	4	5	18	487	711
3	96	-	-	-	2	2	-	2	-	1	91	...
4	9	-	-	-	-	-	2	-	-	1	7	...
5 OR MORE	7	-	-	-	-	-	-	-	-	-	7	-
CENTRAL SYSTEM	361	-	-	1	1	1	1	1	2	5	349	...
WITH NO AIR CONDITIONING	4 362	26	23	39	64	71	75	65	47	145	3 805	572
PERSONS												
1 PERSON	2 494	16	8	17	22	25	22	14	13	22	2 337	466
2 PERSONS	2 026	8	9	8	27	21	28	25	21	68	1 810	625
3 PERSONS	1 104	5	3	13	14	20	17	21	9	42	959	601
4 PERSONS	678	4	7	7	16	12	14	20	8	47	542	638
5 PERSONS	294	2	1	2	2	8	10	4	5	28	234	755
6 PERSONS	126	2	-	2	4	5	8	7	7	8	85	612
7 PERSONS OR MORE	99	-	1	-	-	-	1	3	2	6	87	...
MEDIAN	1.9	1.7	...	2.4	2.3	2.5	2.5	2.9	2.4	3.0	1.9	...
SPECIFIED RENTER OCCUPIED[1]	6 821	37	28	48	84	91	99	95	64	221	6 054	596
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	965	11	12	26	47	50	59	54	26	107	571	584
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	564	8	8	20	31	38	43	25	13	73	307	557
SOME WINDOWS COVERED	174	3	-	5	10	8	8	11	8	25	96	645
NO WINDOWS COVERED	176	-	5	1	6	4	3	19	5	6	126	628
NOT REPORTED	49	-	-	-	-	-	5	-	-	2	42	...
STORM DOORS												
ALL DOORS COVERED	550	7	7	17	23	36	33	28	14	72	313	585
SOME DOORS COVERED	145	3	1	4	6	4	13	6	5	15	88	578
NO DOORS COVERED	220	1	5	5	18	10	8	21	7	18	129	591
NOT REPORTED	49	-	-	-	-	-	5	-	-	2	42	...
ATTIC OR ROOF INSULATION												
YES	443	7	5	15	29	25	32	30	7	57	235	570
NO	278	2	7	7	15	15	12	19	11	25	165	590
DON'T KNOW	195	2	-	4	3	10	10	5	8	22	130	648
NOT REPORTED	49	-	-	-	-	-	5	-	-	2	42	...

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

TABLE B-11. HOUSEHOLD HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1979

(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	HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE OR MOTOR-CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME OR NOT REPORTED
HOUSING UNITS WITH EMPLOYED HEADS[1]	11 424	7 050	1 740	1 569	83	26	648	62	245
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	7 321	5 034	1 224	560	47	2	250	40	165
LESS THAN 1 MILE	487	244	40	3	3	-	198	1	-
1 TO 4 MILES	1 429	1 118	164	69	18	2	43	14	2
5 TO 9 MILES	1 326	1 025	215	71	11	-	2	2	-
10 TO 19 MILES	1 582	1 104	333	130	7	-	-	7	1
20 TO 29 MILES	646	361	174	107	3	-	-	-	-
30 TO 49 MILES	460	256	133	66	2	-	-	3	-
50 MILES OR MORE	141	56	38	46	-	-	-	1	-
WORKS AT HOME	141	-	-	-	-	-	-	-	141
NO FIXED PLACE OF WORK	914	752	113	27	3	-	6	12	2
NOT REPORTED	196	117	13	40	-	-	4	1	20
MEDIAN	9.2	8.5	13.9	17.9	5.5	...	1.0-	...	...
RENTER OCCUPIED	4 103	2 017	516	1 009	36	25	398	23	80
LESS THAN 1 MILE	525	188	20	30	4	5	312	6	1
1 TO 4 MILES	1 056	570	121	249	20	13	73	6	5
5 TO 9 MILES	788	432	107	242	3	2	-	-	2
10 TO 19 MILES	794	437	111	234	4	3	-	3	2
20 TO 29 MILES	274	128	48	94	1	-	-	3	-
30 TO 49 MILES	97	44	25	28	-	-	-	-	-
50 MILES OR MORE	32	14	8	10	-	-	-	-	-
WORKS AT HOME	59	-	-	-	-	-	-	-	59
NO FIXED PLACE OF WORK	341	207	53	57	3	2	14	4	2
NOT REPORTED	136	35	24	65	-	-	-	1	10
MEDIAN	6.3	6.9	8.7	8.4	...	...	1.0-	...	...
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	7 321	5 034	1 224	560	47	2	250	40	165
LESS THAN 15 MINUTES	1 983	1 533	232	9	14	2	180	10	2
15 TO 29 MINUTES	2 113	1 604	372	70	17	-	43	7	-
30 TO 44 MINUTES	1 101	694	280	104	9	-	13	2	1
45 TO 59 MINUTES	422	211	113	94	4	-	-	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	396	144	94	150	-	-	3	4	-
1 HOUR AND 30 MINUTES OR MORE	154	35	14	103	-	-	-	3	-
WORKS AT HOME	141	-	-	-	-	-	-	-	141
NO FIXED PLACE OF WORK	914	752	113	27	3	-	6	12	2
NOT REPORTED	96	60	6	3	-	-	4	2	20
MEDIAN	22.8	20.3	27.9	58.0	21.8	...	15.0-	...	...
RENTER OCCUPIED	4 103	2 017	516	1 009	36	25	398	23	80
LESS THAN 15 MINUTES	1 192	714	137	38	21	6	267	8	1
15 TO 29 MINUTES	1 201	745	158	174	7	14	94	3	7
30 TO 44 MINUTES	665	247	106	290	2	3	16	2	-
45 TO 59 MINUTES	299	51	41	199	-	-	7	2	-
1 HOUR TO 1 HOUR AND 29 MINUTES	249	36	16	192	2	-	-	3	-
1 HOUR AND 30 MINUTES OR MORE	69	4	5	57	-	-	-	2	2
WORKS AT HOME	59	-	-	-	-	-	-	-	59
NO FIXED PLACE OF WORK	341	207	53	57	3	2	14	4	2
NOT REPORTED	27	13	2	2	-	-	1	-	10
MEDIAN	23.0	18.7	23.9	43.6	...	...	15.0-	...	...

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

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979

(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	20 565	13 542	5 815	7 728	7 023
HOUSE HEATING FUEL					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
UTILITY GAS	10 051	7 290	2 794	4 496	2 761
BOTTLED, TANK, OR LP GAS	1 039	218	9	209	821
FUEL OIL	2 030	1 032	252	779	999
KEROSENE, ETC	5	4	-	4	1
ELECTRICITY	1 184	595	165	431	588
COAL OR COKE	42	12	2	11	30
WOOD	97	10	-	10	88
SOLAR HEAT	2	1	-	1	1
OTHER FUEL	7	3	3	-	3
NONE	2	-	-	-	2
RENTER OCCUPIED	6 106	4 377	2 590	1 787	1 730
UTILITY GAS	4 377	3 385	2 075	1 310	992
BOTTLED, TANK, OR LP GAS	257	51	8	43	206
FUEL OIL	688	436	227	209	252
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	681	450	240	210	231
COAL OR COKE	22	7	3	4	15
WOOD	37	7	2	5	30
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	35	35	34	2	-
NONE	9	5	-	5	5
WATER HEATING FUEL					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
NO HOT PIPED WATER	79	18	4	15	61
WITH HOT PIPED WATER	14 379	9 147	3 221	5 926	5 232
FUEL USED:					
UTILITY GAS	9 365	7 075	2 841	4 234	2 290
BOTTLED, TANK, OR LP GAS	848	185	8	177	663
FUEL OIL	138	73	11	62	65
KEROSENE, ETC	1	-	-	-	1
ELECTRICITY	4 010	1 808	361	1 447	2 202
COAL OR COKE	2	1	-	1	1
WOOD	7	2	-	2	6
SOLAR HEAT	2	1	-	1	1
OTHER FUEL	4	-	-	-	4
NONE	2	2	-	2	-
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	6 106	4 377	2 590	1 787	1 730
NO HOT PIPED WATER	46	10	3	7	36
WITH HOT PIPED WATER	6 060	4 367	2 587	1 780	1 693
FUEL USED:					
UTILITY GAS	4 346	3 486	2 185	1 302	860
BOTTLED, TANK, OR LP GAS	198	43	7	36	155
FUEL OIL	73	58	40	18	15
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	1 396	744	326	418	652
COAL OR COKE	13	8	8	-	4
WOOD	1	-	-	-	1
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	27	24	20	4	3
NONE	7	5	2	3	2
NOT REPORTED	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
UTILITY GAS	5 734	4 384	1 928	2 456	1 350
BOTTLED, TANK, OR LP GAS	1 046	254	10	243	792
FUEL OIL	7	5	-	5	2
KEROSENE, ETC	4	1	-	1	3
ELECTRICITY	7 632	4 516	1 285	3 231	3 116
COAL OR COKE	4	2	1	1	2
WOOD	25	2	-	2	22
OTHER FUEL	3	-	-	-	3
NONE	4	2	-	2	2
RENTER OCCUPIED	6 106	4 377	2 590	1 787	1 730
UTILITY GAS	3 224	2 674	1 854	820	550
BOTTLED, TANK, OR LP GAS	286	60	2	58	226
FUEL OIL	4	2	-	2	2
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	2 548	1 606	710	896	942
COAL OR COKE	1	1	-	1	-
WOOD	4	-	-	-	4
OTHER FUEL	1	1	-	1	-
NONE	39	32	23	9	7

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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]	11 580	7 830	2 637	5 193	3 750
LESS THAN $10	115	58	37	21	57
$10 TO $19	1 310	825	376	449	485
$20 TO $29	2 778	1 846	707	1 139	932
$30 TO $39	2 710	1 856	604	1 252	855
$40 TO $49	1 779	1 286	394	892	494
$50 TO $59	1 231	844	232	612	387
$60 TO $79	992	679	178	501	313
$80 TO $99	297	202	55	147	95
$100 TO $149	290	186	37	149	104
$150 OR MORE	74	47	16	31	27
NO ELECTRICITY USED	3	-	-	-	3
MEDIAN	35	36	33	37	34
SPECIFIED RENTER OCCUPIED[2]	5 907	4 325	2 590	1 735	1 583
LESS THAN $10	547	440	301	139	107
$10 TO $19	1 668	1 275	752	523	392
$20 TO $29	1 215	907	497	410	308
$30 TO $39	762	540	276	264	222
$40 TO $49	343	223	116	106	120
$50 TO $59	171	114	57	57	58
$60 TO $79	121	68	29	39	53
$80 TO $99	31	26	17	9	5
$100 TO $149	23	17	5	13	5
$150 OR MORE	3	2	-	2	1
INCLUDED IN RENT	1 012	700	527	173	312
NO ELECTRICITY USED	12	12	10	2	-
MEDIAN	22	21	19	23	24
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	11 580	7 830	2 637	5 193	3 750
LESS THAN $10	329	165	63	102	163
$10 TO $14	256	162	64	99	94
$15 TO $19	365	212	87	125	153
$20 TO $24	634	407	175	232	227
$25 TO $29	815	551	238	314	264
$30 TO $39	2 531	1 765	598	1 167	766
$40 TO $49	2 145	1 568	546	1 022	577
$50 TO $69	2 144	1 554	511	1 043	591
$70 TO $99	538	393	152	241	145
$100 OR MORE	179	134	48	86	44
NO GAS USED	1 642	917	155	762	725
MEDIAN	40	41	40	42	37
SPECIFIED RENTER OCCUPIED[2]	5 907	4 325	2 590	1 735	1 583
LESS THAN $10	528	420	294	126	108
$10 TO $14	293	221	146	75	72
$15 TO $19	263	166	97	70	97
$20 TO $24	272	193	110	83	80
$25 TO $29	266	186	104	81	81
$30 TO $39	499	337	210	127	162
$40 TO $49	354	259	162	97	95
$50 TO $69	323	223	158	65	100
$70 TO $99	108	74	57	17	34
$100 OR MORE	55	43	26	18	11
INCLUDED IN RENT	2 208	1 729	990	739	479
NO GAS USED	739	474	236	238	265
MEDIAN	27	26	26	26	28
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	11 580	7 830	2 637	5 193	3 750
LESS THAN $100	345	229	66	163	117
$100 TO $199	167	93	19	75	73
$200 TO $299	107	61	10	51	46
$300 TO $399	223	132	25	108	90
$400 TO $499	282	164	44	121	118
$500 TO $599	233	134	38	95	99
$600 TO $699	216	129	27	102	87
$700 TO $799	122	68	16	52	54
$800 OR MORE	237	167	33	134	70
FUELS NOT USED OR FREE	9 647	6 653	2 360	4 293	2 994
MEDIAN	443	444	443	444	443

[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: 1979--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.--CONTINUED					
SPECIFIED RENTER OCCUPIED[1]	5 907	4 325	2 590	1 735	1 583
LESS THAN $100	68	43	31	12	25
$100 TO $199	15	5	2	4	9
$200 TO $299	27	14	6	7	13
$300 TO $399	43	19	5	14	24
$400 TO $499	45	20	5	15	25
$500 TO $599	28	9	3	5	19
$600 TO $699	46	24	14	10	22
$700 TO $799	18	8	3	5	11
$800 OR MORE	80	37	10	27	43
INCLUDED IN RENT	621	443	304	139	177
FUELS NOT USED OR FREE	4 917	3 704	2 206	1 498	1 214
MEDIAN	471	441	322	482	495
ALL OCCUPIED HOUSING UNITS	20 565	13 542	5 815	7 728	7 023
HEATING EQUIPMENT					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
WARM-AIR FURNACE	11 260	7 634	2 608	5 027	3 625
HEAT PUMP	176	111	18	93	64
STEAM OR HOT WATER	1 249	844	405	439	405
BUILT-IN ELECTRIC UNITS	648	285	86	199	363
FLOOR, WALL, OR PIPELESS FURNACE	323	86	42	44	237
ROOM HEATERS WITH FLUE	572	168	62	105	405
ROOM HEATERS WITHOUT FLUE	22	10	4	6	11
FIREPLACES, STOVES, OR PORTABLE HEATERS	208	27	-	27	181
NONE	2	-	-	-	2
RENTER OCCUPIED	6 106	4 377	2 590	1 787	1 730
WARM-AIR FURNACE	3 227	2 284	1 258	1 025	943
HEAT PUMP	16	16	8	8	1
STEAM OR HOT WATER	1 633	1 427	946	482	206
BUILT-IN ELECTRIC UNITS	454	276	135	140	179
FLOOR, WALL, OR PIPELESS FURNACE	194	80	54	25	114
ROOM HEATERS WITH FLUE	463	246	166	80	217
ROOM HEATERS WITHOUT FLUE	36	20	12	8	16
FIREPLACES, STOVES, OR PORTABLE HEATERS	74	24	10	14	50
NONE	9	5	-	5	5
THERMOSTAT CONTROLLED HEATING EQUIPMENT					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
NO HEATING EQUIPMENT	2	-	-	-	2
WITH HEATING EQUIPMENT	14 457	9 166	3 225	5 941	5 291
NO THERMOSTAT CONTROL	589	202	113	89	387
WITH THERMOSTAT CONTROL	13 830	8 940	3 101	5 839	4 890
NOT CLOCK OPERATED	12 664	8 063	2 736	5 327	4 601
CONSTANT TEMPERATURE SETTING MAINTAINED	4 881	3 119	1 116	2 003	1 762
TEMPERATURE SETTING IS CHANGED	7 736	4 907	1 604	3 302	2 829
OCCASIONALLY	2 090	1 467	515	952	623
REGULARLY	5 574	3 386	1 072	2 314	2 188
DON'T KNOW	60	44	14	30	16
NOT REPORTED	12	9	4	6	2
NOT REPORTED	47	37	16	22	10
CLOCK OPERATED	1 161	875	365	510	285
NOT REPORTED	5	2	-	2	3
NOT REPORTED	39	24	10	13	15
RENTER OCCUPIED	6 106	4 377	2 590	1 787	1 730
NO HEATING EQUIPMENT	9	5	-	5	5
WITH HEATING EQUIPMENT	6 097	4 372	2 590	1 782	1 725
NO THERMOSTAT CONTROL	1 646	1 260	981	279	386
WITH THERMOSTAT CONTROL	4 436	3 104	1 606	1 498	1 332
NOT CLOCK OPERATED	4 134	2 850	1 431	1 419	1 284
CONSTANT TEMPERATURE SETTING MAINTAINED	1 654	1 139	599	540	515
TEMPERATURE SETTING IS CHANGED	2 432	1 671	806	865	761
OCCASIONALLY	793	584	296	288	209
REGULARLY	1 586	1 042	486	556	544
DON'T KNOW	50	43	24	19	8
NOT REPORTED	2	2	-	2	-
NOT REPORTED	47	40	26	13	8
CLOCK OPERATED	297	249	172	77	48
NOT REPORTED	5	5	3	2	-
NOT REPORTED	15	8	3	5	7

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

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	20 565	13 542	5 815	7 728	7 023
UNITS OCCUPIED LAST WINTER	17 604	11 516	4 846	6 670	6 089
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	13 432	8 500	3 016	5 484	4 932
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	8 464	3 012	5 452	4 750
NO ADDITIONAL HEAT SOURCE USED	12 081	7 777	2 739	5 038	4 304
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	909	564	221	343	345
NOT REPORTED	224	123	52	71	101
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	36	4	32	182
RENTER OCCUPIED	4 172	3 015	1 830	1 186	1 157
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	2 977	1 813	1 164	1 110
NO ADDITIONAL HEAT SOURCE USED	3 463	2 494	1 482	1 012	969
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	424	293	131	112
NOT REPORTED	88	59	38	21	29
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	39	17	22	47
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	13 432	8 500	3 016	5 484	4 932
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	8 464	3 012	5 452	4 750
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 098	7 575	2 659	4 916	3 523
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 902	779	311	468	1 123
1 ROOM	721	397	159	238	324
2 ROOMS	525	203	91	112	322
3 ROOMS OR MORE	657	179	61	118	477
NOT REPORTED	213	110	43	67	103
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	36	4	32	182
RENTER OCCUPIED	4 172	3 015	1 830	1 186	1 157
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	2 977	1 813	1 164	1 110
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 286	2 525	1 514	1 011	761
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	713	394	260	135	319
1 ROOM	302	203	144	59	100
2 ROOMS	206	101	65	36	105
3 ROOMS OR MORE	205	90	51	40	114
NOT REPORTED	88	58	39	18	30
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	39	17	22	47
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	13 432	8 500	3 016	5 484	4 932
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	8 464	3 012	5 452	4 750
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	36	4	32	182
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	176	29	4	25	146
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	4	-	4	21
NOT REPORTED	18	3	-	3	15
RENTER OCCUPIED	4 172	3 015	1 830	1 186	1 157
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	2 977	1 813	1 164	1 110
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	39	17	22	47
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	59	23	12	12	36
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	13	7	2	5	6
NOT REPORTED	13	8	3	5	5

[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: 1979--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	20 565	13 542	5 815	7 728	7 023
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	210	27	-	27	182
WITH SELECTED HEATING EQUIPMENT[1]	14 249	9 138	3 225	5 913	5 111
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 455	8 720	3 101	5 618	4 735
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	733	372	103	269	361
SOLAR HEATING EQUIPMENT	3	3	-	3	-
STOVE, BURNING WOOD OR COAL	329	125	21	105	204
FIREPLACE, BURNING WOOD OR COAL	97	59	12	47	38
PORTABLE ELECTRIC HEATER	135	86	38	48	49
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	33	19	14	6	14
OTHER	133	74	16	58	59
NOT REPORTED	14	11	3	7	4
NOT REPORTED	61	46	21	26	14
RENTER OCCUPIED	6 106	4 377	2 590	1 787	1 730
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	83	29	10	18	54
WITH SELECTED HEATING EQUIPMENT[1]	6 023	4 348	2 580	1 768	1 675
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 782	4 182	2 473	1 709	1 600
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	143	90	53	65
SOLAR HEATING EQUIPMENT	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	42	19	9	11	22
FIREPLACE, BURNING WOOD OR COAL	2	1	-	1	2
PORTABLE ELECTRIC HEATER	127	92	61	31	35
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	4	2	2	3
OTHER	29	24	19	6	5
NOT REPORTED	4	4	2	2	-
NOT REPORTED	34	24	17	6	10
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	205	66	139	598
WITH SELECTED HEATING EQUIPMENT[2]	13 655	8 960	3 159	5 802	4 694
LESS THAN 4 YEARS	2 160	1 384	411	974	776
4 TO 9 YEARS	3 512	2 145	642	1 503	1 367
10 TO 19 YEARS	4 284	2 787	938	1 850	1 497
20 TO 39 YEARS	2 682	1 915	753	1 162	766
40 YEARS OR MORE	223	154	93	61	68
DON'T KNOW	682	499	286	213	183
NOT REPORTED	113	75	36	40	37
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	205	66	139	598
WITH SELECTED HEATING EQUIPMENT[2]	13 655	8 960	3 159	5 802	4 694
NO MAINTENANCE OR MODIFICATION	10 199	6 520	2 336	4 184	3 679
WITH MAINTENANCE OR MODIFICATION	3 340	2 362	788	1 574	979
NOT REPORTED	115	78	35	43	37
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	205	66	139	598
WITH SELECTED HEATING EQUIPMENT[2]	13 655	8 960	3 159	5 802	4 694
NO MAINTENANCE CONTRACT	12 721	8 255	2 892	5 363	4 467
WITH MAINTENANCE CONTRACT	816	625	224	400	192
NOT REPORTED	117	80	42	39	36

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

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
NO HOT PIPED WATER	79	18	4	15	61
WITH HOT PIPED WATER	14 379	9 147	3 221	5 926	5 232
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	14 087	8 967	3 159	5 808	5 120
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	53	39	17	21	14
NOT REPORTED	235	138	45	93	97
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	6 106	4 377	2 590	1 787	1 730
NO HOT PIPED WATER	46	10	3	7	36
WITH HOT PIPED WATER	6 060	4 367	2 587	1 780	1 693
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 876	4 229	2 496	1 732	1 647
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	21	11	8	2	10
NOT REPORTED	156	123	81	42	33
NOT REPORTED	-	-	-	-	-
AIR CONDITIONING					
OWNER OCCUPIED	14 458	9 166	3 225	5 941	5 293
WITH AIR CONDITIONING	8 577	5 791	2 006	3 785	2 787
ROOM UNITS	4 255	2 611	1 080	1 531	1 644
1	2 924	1 671	649	1 022	1 254
2	1 034	709	320	390	325
3	229	175	84	91	54
4	50	39	21	19	11
5 OR MORE	18	17	7	10	1
CENTRAL SYSTEM	4 322	3 180	926	2 254	1 142
WITH NO AIR CONDITIONING	5 881	3 375	1 219	2 156	2 506
RENTER OCCUPIED	6 106	4 377	2 590	1 787	1 730
WITH AIR CONDITIONING	3 016	2 252	1 101	1 151	765
ROOM UNITS	2 056	1 495	748	747	561
1	1 715	1 224	610	614	490
2	295	234	120	115	61
3	38	28	12	17	9
4	6	5	3	2	1
5 OR MORE	3	3	3	-	-
CENTRAL SYSTEM	960	756	353	403	203
WITH NO AIR CONDITIONING	3 090	2 125	1 489	636	965
ALL OCCUPIED HOUSING UNITS	20 565	13 542	5 815	7 728	7 023
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	15 679	9 546	3 264	6 282	6 133
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	13 667	8 465	2 744	5 721	5 203
ALL WINDOWS COVERED	11 827	7 434	2 345	5 089	4 393
SOME WINDOWS COVERED	1 262	675	250	425	586
NO WINDOWS COVERED	527	321	128	193	206
NOT REPORTED	51	35	20	14	17
RENTER OCCUPIED	2 011	1 081	520	561	930
ALL WINDOWS COVERED	1 219	613	266	347	606
SOME WINDOWS COVERED	404	208	108	99	196
NO WINDOWS COVERED	282	170	82	88	112
NOT REPORTED	106	90	64	26	16
STORM DOORS					
OWNER OCCUPIED	13 667	8 465	2 744	5 721	5 203
ALL DOORS COVERED	11 438	7 155	2 329	4 827	4 283
SOME DOORS COVERED	1 318	772	256	516	546
NO DOORS COVERED	860	503	140	362	357
NOT REPORTED	51	35	19	16	17
RENTER OCCUPIED	2 011	1 081	520	561	930
ALL DOORS COVERED	1 217	630	292	338	587
SOME DOORS COVERED	285	144	67	77	142
NO DOORS COVERED	401	216	97	119	185
NOT REPORTED	107	91	64	26	17

[1]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: 1979--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	13 667	8 465	2 744	5 721	5 203
YES	12 289	7 659	2 345	5 314	4 631
NO	938	506	284	222	433
DON'T KNOW	380	260	96	165	120
NOT REPORTED	59	40	19	21	20
RENTER OCCUPIED	2 011	1 081	520	561	930
YES	1 132	571	230	342	560
NO	342	172	91	81	170
DON'T KNOW	428	245	135	110	182
NOT REPORTED	110	92	64	28	17
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	13 667	8 465	2 744	5 721	5 203
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	527	321	128	193	206
SOME OR ALL WINDOWS COVERED	13 089	8 109	2 595	5 514	4 980
NONE ADDED OR INSTALLED	11 722	7 276	2 332	4 945	4 446
SOME OR ALL ADDED OR INSTALLED	1 291	781	251	530	510
NOT REPORTED	76	52	12	39	24
NOT REPORTED	51	35	20	14	17
STORM DOORS:					
NO DOORS COVERED	860	503	140	362	357
SOME OR ALL DOORS COVERED	12 756	7 927	2 584	5 343	4 829
NONE ADDED OR INSTALLED	11 572	7 151	2 344	4 807	4 421
SOME OR ALL ADDED OR INSTALLED	1 017	668	203	465	348
NOT REPORTED	168	108	37	71	60
NOT REPORTED	51	35	19	16	17
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	938	506	284	222	433
WITH ATTIC OR ROOF INSULATION	12 289	7 659	2 345	5 314	4 631
NONE ADDED OR INSTALLED	10 893	6 787	2 069	4 718	4 106
SOME OR ALL ADDED OR INSTALLED	1 265	782	242	540	483
LESS THAN 3 INCHES ADDED	103	69	23	46	33
3 TO 6 INCHES ADDED	477	298	96	203	179
6 INCHES OR MORE ADDED	517	301	97	204	216
DON'T KNOW	93	69	17	52	24
NOT REPORTED	75	44	9	35	31
NOT REPORTED	132	90	34	56	42
DON'T KNOW	380	260	96	165	120
NOT REPORTED	59	40	19	21	20
WALL INSULATION:					
NONE ADDED OR INSTALLED	12 640	7 873	2 568	5 306	4 767
SOME OR ALL ADDED OR INSTALLED	948	535	147	387	413
NOT REPORTED	80	57	29	28	23
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	9 314	5 502	1 844	3 658	3 812
SOME OR ALL ADDED OR INSTALLED	4 172	2 832	849	1 983	1 340
DON'T KNOW	116	85	28	57	31
NOT REPORTED	66	46	22	23	20
OTHER INSULATION:					
NONE ADDED OR INSTALLED	12 764	7 935	2 596	5 340	4 829
SOME OR ALL ADDED OR INSTALLED	795	459	121	338	336
NOT REPORTED	108	71	27	44	37

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	2 011	1 081	520	561	930
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	282	170	82	88	112
SOME OR ALL WINDOWS COVERED	1 623	821	374	447	802
NONE ADDED OR INSTALLED	1 373	712	311	401	661
SOME OR ALL ADDED OR INSTALLED	218	87	51	36	132
NOT REPORTED	32	22	12	10	10
NOT REPORTED	106	90	64	26	16
STORM DOORS:					
NO DOORS COVERED	401	216	97	119	185
SOME OR ALL DOORS COVERED	1 502	774	359	415	729
NONE ADDED OR INSTALLED	1 357	686	302	384	670
SOME OR ALL ADDED OR INSTALLED	94	48	32	16	46
NOT REPORTED	51	39	24	15	12
NOT REPORTED	107	91	64	26	17
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	342	172	91	81	170
WITH ATTIC OR ROOF INSULATION	1 132	571	230	342	560
NONE ADDED OR INSTALLED	1 019	508	194	314	511
SOME OR ALL ADDED OR INSTALLED	90	47	28	19	43
LESS THAN 3 INCHES ADDED	8	6	5	1	2
3 TO 6 INCHES ADDED	29	16	5	11	13
6 INCHES OR MORE ADDED	15	4	2	2	11
DON'T KNOW	33	20	17	3	14
NOT REPORTED	5	2	-	2	3
NOT REPORTED	23	16	7	9	7
DON'T KNOW	428	245	135	110	182
NOT REPORTED	110	92	64	28	17
WALL INSULATION:					
NONE ADDED OR INSTALLED	1 788	937	434	503	851
SOME OR ALL ADDED OR INSTALLED	74	28	8	20	46
NOT REPORTED	149	116	79	38	33
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	1 347	707	329	377	641
SOME OR ALL ADDED OR INSTALLED	376	167	53	115	208
DON'T KNOW	175	115	74	41	61
NOT REPORTED	113	92	64	28	20
OTHER INSULATION:					
NONE ADDED OR INSTALLED	1 782	931	427	504	851
SOME OR ALL ADDED OR INSTALLED	76	32	13	18	44
NOT REPORTED	153	118	80	38	35
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	13 667	8 465	2 744	5 721	5 203
NO INSULATION ADDED OR INSTALLED	7 623	4 512	1 514	2 998	3 111
WITH INSULATION ADDED OR INSTALLED	5 709	3 729	1 134	2 595	1 980
LESS THAN $50	2 820	1 844	539	1 306	976
$50 TO $99	549	361	102	259	188
$100 TO $199	592	396	126	270	196
$200 TO $399	543	336	123	213	207
$400 OR MORE	840	526	173	354	314
DON'T KNOW	169	124	25	99	45
NOT REPORTED	196	142	46	95	54
MEDIAN	50-	50-	50-	50-	50-
NOT REPORTED OR DON'T KNOW	335	224	96	128	111
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	335	187	59	128	148
LESS THAN $50	145	60	14	46	85
$50 TO $99	41	25	11	14	16
$100 TO $199	27	20	7	14	7
$200 TO $399	37	21	7	14	16
$400 OR MORE	60	45	17	28	15
DON'T KNOW	7	5	-	5	2
NOT REPORTED	19	12	3	8	7
MEDIAN	62	103	143	91	50-

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
ONLY ADDED OR INSTALLED STORM DOORS	322	213	68	145	109
LESS THAN $50	39	19	9	11	20
$50 TO $99	109	63	17	46	45
$100 TO $199	86	56	16	40	29
$200 TO $399	35	28	7	21	7
$400 OR MORE	19	16	10	6	2
DON'T KNOW	2	1	-	1	2
NOT REPORTED	33	29	9	20	4
MEDIAN	97	116	122	114	85
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	608	352	114	238	255
LESS THAN $50	72	39	4	36	33
$50 TO $99	79	50	11	39	30
$100 TO $199	129	79	28	51	50
$200 TO $399	121	65	25	40	55
$400 OR MORE	144	79	37	43	64
DON'T KNOW	34	24	7	17	10
NOT REPORTED	29	16	3	13	13
MEDIAN	193	185	277	159	213
ALL OCCUPIED HOUSING UNITS	20 565	13 542	5 815	7 728	7 023
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	10 367	6 791	2 193	4 598	3 576
DRIVES SELF	7 562	5 116	1 591	3 525	2 446
CARPOOL	1 669	1 103	357	747	566
MASS TRANSPORTATION	296	289	134	155	8
BICYCLE OR MOTORCYCLE	103	54	21	33	49
TAXICAB	3	3	2	2	-
WALKS ONLY	236	97	47	50	139
OTHER MEANS	36	16	7	9	20
WORKS AT HOME	422	91	22	69	331
NOT REPORTED	40	22	12	10	18
RENTER OCCUPIED	4 068	2 885	1 575	1 310	1 183
DRIVES SELF	2 588	1 832	864	968	756
CARPOOL	631	451	239	213	179
MASS TRANSPORTATION	337	328	291	37	9
BICYCLE OR MOTORCYCLE	58	32	19	14	26
TAXICAB	9	7	6	2	2
WALKS ONLY	312	182	137	45	130
OTHER MEANS	8	5	2	3	3
WORKS AT HOME	104	33	9	24	71
NOT REPORTED	21	14	9	5	7
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	10 367	6 791	2 193	4 598	3 576
LESS THAN 1 MILE	736	271	97	174	466
1 TO 4 MILES	2 302	1 361	630	732	941
5 TO 9 MILES	1 941	1 477	578	899	464
10 TO 19 MILES	2 140	1 679	465	1 214	461
20 TO 29 MILES	853	606	92	515	247
30 TO 49 MILES	457	275	29	246	182
50 MILES OR MORE	107	40	12	28	67
WORKS AT HOME	422	91	22	69	331
NO FIXED PLACE OF WORK	1 268	883	232	652	385
NOT REPORTED	140	107	36	71	33
MEDIAN	8.2	9.1	6.9	10.8	5.1
RENTER OCCUPIED	4 068	2 885	1 575	1 310	1 183
LESS THAN 1 MILE	540	290	186	103	250
1 TO 4 MILES	1 130	786	519	267	344
5 TO 9 MILES	814	688	374	314	126
10 TO 19 MILES	686	546	240	306	140
20 TO 29 MILES	227	170	66	103	57
30 TO 49 MILES	104	65	21	44	39
50 MILES OR MORE	29	5	3	2	24
WORKS AT HOME	104	33	9	24	71
NO FIXED PLACE OF WORK	369	258	128	130	111
NOT REPORTED	66	45	28	17	21
MEDIAN	5.6	6.4	5.0	8.2	3.8

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

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	10 367	6 791	2 193	4 598	3 576
LESS THAN 15 MINUTES	3 263	1 778	677	1 101	1 485
15 TO 29 MINUTES	3 119	2 345	830	1 515	775
30 TO 44 MINUTES	1 377	1 077	273	804	300
45 TO 59 MINUTES	494	352	88	264	143
1 HOUR TO 1 HOUR AND 29 MINUTES	267	184	44	140	83
1 HOUR AND 30 MINUTES OR MORE	85	41	17	24	45
WORKS AT HOME	422	91	22	69	331
NO FIXED PLACE OF WORK	1 268	883	232	652	385
NOT REPORTED	70	39	10	29	31
MEDIAN	20.0	22.1	20.1	23.1	15.0-
RENTER OCCUPIED	4 068	2 885	1 575	1 310	1 183
LESS THAN 15 MINUTES	1 568	959	527	432	608
15 TO 29 MINUTES	1 251	1 016	567	449	236
30 TO 44 MINUTES	454	380	196	184	73
45 TO 59 MINUTES	149	117	68	49	32
1 HOUR TO 1 HOUR AND 29 MINUTES	106	84	54	30	22
1 HOUR AND 30 MINUTES OR MORE	31	21	18	2	10
WORKS AT HOME	104	33	9	24	71
NO FIXED PLACE OF WORK	369	258	128	130	111
NOT REPORTED	36	18	8	9	19
MEDIAN	17.5	19.8	19.9	19.7	15.0-

[1]LIMITED TO HEADS 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: 1979

(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	20 565	1 207	2 897	2 104	3 749	2 868	2 755	2 854	1 406	512	213	15600
HOUSE HEATING FUEL												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
UTILITY GAS	10 051	316	1 022	793	1 631	1 397	1 567	1 787	1 028	362	147	19500
BOTTLED, TANK, OR LP GAS	1 039	60	140	102	223	167	136	137	46	21	8	14900
FUEL OIL	2 030	69	251	182	338	353	283	339	139	54	23	17500
KEROSENE, ETC	5	-	-	-	2	1	2	1	-	-	-	...
ELECTRICITY	1 184	33	65	73	161	181	229	248	116	54	23	21700
COAL OR COKE	42	2	4	6	12	8	4	5	2	1	-	14100
WOOD	97	12	13	8	17	19	18	3	6	1	-	14400
SOLAR HEAT	2	-	-	-	-	-	1	1	-	-	-	...
OTHER FUEL	7	-	1	-	2	2	-	2	-	-	-	...
NONE	2	-	1	-	1	-	-	-	-	-	-	...
RENTER OCCUPIED	6 106	716	1 400	940	1 363	741	516	332	69	17	13	10000
UTILITY GAS	4 377	514	1 015	691	968	505	391	227	44	13	9	9900
BOTTLED, TANK, OR LP GAS	257	24	53	42	60	39	19	15	5	1	-	10900
FUEL OIL	688	84	163	91	159	96	53	34	4	2	3	10200
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	681	70	138	99	160	94	50	51	15	2	1	11000
COAL OR COKE	22	2	7	5	5	1	2	1	-	-	-	...
WOOD	37	9	11	4	8	3	-	1	1	-	-	6400
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	35	13	8	4	3	2	2	3	-	-	-	5100
NONE	9	-	5	5	-	-	-	-	-	-	-	...
WATER HEATING FUEL												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
NO HOT PIPED WATER	79	21	29	8	13	4	2	-	2	1	-	5600
WITH HOT PIPED WATER	14 379	470	1 468	1 156	2 373	2 124	2 237	2 522	1 335	494	200	19100
FUEL USED:												
UTILITY GAS	9 365	270	913	714	1 506	1 296	1 480	1 704	987	359	134	19900
BOTTLED, TANK, OR LP GAS	848	44	114	91	164	141	112	116	42	18	6	15400
FUEL OIL	138	5	6	17	20	19	14	31	20	5	2	20700
KEROSENE, ETC	1	-	-	1	-	-	-	-	-	-	-	...
ELECTRICITY	4 010	151	432	332	678	663	629	670	286	111	59	18100
COAL OR COKE	2	-	-	-	-	1	-	-	-	1	-	...
WOOD	7	-	2	-	2	3	-	-	-	-	-	...
SOLAR HEAT	2	-	-	-	-	-	1	1	-	-	-	...
OTHER FUEL	4	-	1	1	1	1	1	-	-	-	-	...
NONE	2	-	1	-	2	-	-	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 106	716	1 400	940	1 363	741	516	332	69	17	13	10000
NO HOT PIPED WATER	46	19	16	5	6	1	-	-	-	-	-	4100
WITH HOT PIPED WATER	6 060	697	1 383	935	1 357	740	516	332	69	17	13	10100
FUEL USED:												
UTILITY GAS	4 346	510	1 032	682	955	514	371	221	40	12	8	9800
BOTTLED, TANK, OR LP GAS	198	20	46	31	47	27	14	8	3	2	1	10200
FUEL OIL	73	8	19	9	18	8	10	1	1	-	-	10100
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 396	144	275	208	333	186	117	101	25	4	4	11100
COAL OR COKE	13	2	5	2	3	-	2	-	-	-	-	...
WOOD	1	-	1	-	-	-	-	-	-	-	-	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	13	3	2	2	5	1	2	-	-	-	...
NONE	7	1	3	2	-	-	1	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
UTILITY GAS	5 734	200	707	520	1 024	830	863	917	480	143	49	17500
BOTTLED, TANK, OR LP GAS	1 046	72	166	122	208	163	124	119	51	15	6	13900
FUEL OIL	7	3	1	1	1	-	1	1	-	-	-	...
KEROSENE, ETC	4	1	1	1	-	2	-	-	-	-	-	...
ELECTRICITY	7 632	213	608	517	1 146	1 128	1 251	1 484	804	336	145	20800
COAL OR COKE	4	-	-	1	-	-	-	2	2	-	-	...
WOOD	25	2	12	2	6	3	-	-	-	-	-	...
OTHER FUEL	3	-	-	1	1	1	1	-	-	-	-	...
NONE	4	1	2	1	-	1	-	-	-	-	-	...
RENTER OCCUPIED	6 106	716	1 400	940	1 363	741	516	332	69	17	13	10000
UTILITY GAS	3 224	445	801	521	676	346	259	142	24	3	8	9100
BOTTLED, TANK, OR LP GAS	286	44	81	39	56	34	15	11	5	1	1	8400
FUEL OIL	4	2	-	-	2	-	-	-	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 548	208	509	376	622	357	240	179	39	13	4	11500
COAL OR COKE	1	-	1	-	-	-	-	-	-	-	-	...
WOOD	4	3	-	1	-	-	-	-	-	-	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	-	-	-	...
NONE	39	14	9	3	6	5	2	-	-	-	-	5400
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[1]	11 580	348	1 081	848	1 851	1 708	1 859	2 139	1 167	407	172	19900
LESS THAN $10	115	19	48	13	19	10	2	2	-	2	-	6200
$10 TO $19	1 310	93	302	179	283	187	136	81	34	10	3	11400
$20 TO $29	2 778	109	345	284	513	443	407	438	181	43	15	16600
$30 TO $39	2 710	57	206	176	472	404	505	532	261	79	17	20400
$40 TO $49	1 779	26	65	88	252	288	294	408	243	79	36	22900
$50 TO $59	1 231	21	51	47	136	183	220	299	185	60	29	24000
$60 TO $79	992	12	35	46	103	123	186	229	146	76	36	24800
$80 TO $99	297	4	13	6	32	33	60	66	53	18	12	25100
$100 TO $149	290	8	13	5	25	34	39	68	51	31	17	28200
$150 OR MORE	74	-	2	2	14	1	11	17	13	8	7	29200
NO ELECTRICITY USED	3	1	-	1	1	1	-	-	-	-	-	...
MEDIAN	35	25	25	27	32	35	37	40	44	48	55	...

[1]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: 1979--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]	5 907	699	1 372	912	1 310	709	506	312	60	14	12	9900
LESS THAN $10	547	82	150	95	114	60	29	12	4	2	-	8300
$10 TO $19	1 668	185	422	261	373	192	142	74	8	9	2	9600
$20 TO $29	1 215	115	253	184	290	171	117	72	9	-	5	11000
$30 TO $39	762	62	117	101	188	113	76	81	22	2	1	12700
$40 TO $49	343	28	44	59	87	46	50	25	3	1	-	12300
$50 TO $59	171	6	37	20	36	33	18	17	4	-	1	13200
$60 TO $79	121	6	15	16	31	23	11	15	4	1	-	13900
$80 TO $99	31	-	4	5	7	6	7	2	-	-	-	...
$100 TO $149	23	-	1	3	8	2	2	3	1	-	1	...
$150 OR MORE	3	-	-	-	1	-	1	-	2	-	-	...
INCLUDED IN RENT	1 012	213	326	165	174	63	52	13	4	-	2	6600
NO ELECTRICITY USED	12	4	3	5	-	-	-	-	-	-	-	...
MEDIAN	22	18	18	21	23	24	24	28	33	...	...	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	11 580	348	1 081	848	1 851	1 708	1 859	2 139	1 167	407	172	19900
LESS THAN $10	329	20	54	36	58	51	41	44	20	3	2	14600
$10 TO $14	256	6	30	18	51	46	30	47	18	8	3	17500
$15 TO $19	365	13	58	42	76	49	49	43	22	6	6	14500
$20 TO $24	634	43	86	70	109	119	74	72	47	9	5	15400
$25 TO $29	815	42	107	80	172	119	111	121	47	11	5	15300
$30 TO $39	2 531	83	232	210	422	392	440	439	238	64	12	19100
$40 TO $49	2 145	43	169	126	363	304	366	432	239	71	32	20900
$50 TO $69	2 144	47	170	106	273	294	333	439	300	138	43	22700
$70 TO $99	538	13	33	37	68	39	78	128	74	38	30	25100
$100 OR MORE	179	6	16	8	19	14	32	30	27	12	14	24100
NO GAS USED	1 642	32	125	115	239	280	304	345	136	47	20	20500
MEDIAN	40	34	36	35	37	38	41	43	45	51	55	...
SPECIFIED RENTER OCCUPIED[1]	5 907	699	1 372	912	1 310	709	506	312	60	14	12	9900
LESS THAN $10	528	67	122	95	117	61	47	14	2	2	1	9300
$10 TO $14	293	34	65	50	72	37	23	9	-	3	-	9800
$15 TO $19	263	42	47	38	68	27	23	12	2	2	2	10300
$20 TO $24	272	37	51	50	69	32	17	11	5	-	-	9900
$25 TO $29	266	30	58	26	68	41	21	19	1	-	2	11400
$30 TO $39	499	47	106	82	105	64	50	37	7	-	-	10700
$40 TO $49	354	34	78	54	71	49	35	28	4	2	-	10800
$50 TO $69	323	26	80	47	52	62	33	21	2	-	1	10800
$70 TO $99	108	10	22	6	37	8	9	9	6	-	-	12100
$100 OR MORE	55	2	18	9	9	5	3	5	2	1	-	9700
INCLUDED IN RENT	2 208	310	566	338	470	210	191	96	17	4	6	9000
NO GAS USED	739	62	158	117	172	112	53	50	12	2	1	11000
MEDIAN	27	22	28	24	25	29	29	34	...	...	...	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	11 580	348	1 081	848	1 851	1 708	1 859	2 139	1 167	407	172	19900
LESS THAN $100	345	7	24	16	42	33	55	84	55	21	9	24700
$100 TO $199	167	7	13	8	20	19	24	36	23	8	9	23500
$200 TO $299	107	6	10	9	22	15	7	20	15	3	-	17400
$300 TO $399	223	9	19	23	47	37	34	27	16	6	4	16800
$400 TO $499	282	6	30	36	50	52	43	40	11	7	6	16800
$500 TO $599	233	4	27	24	35	43	40	43	12	2	3	18000
$600 TO $699	216	6	23	11	31	41	49	43	6	2	3	19400
$700 TO $799	122	-	14	8	24	15	27	21	11	2	1	20000
$800 OR MORE	237	2	21	12	29	46	27	53	31	15	3	21600
FUELS NOT USED OR FREE	9 647	302	899	700	1 552	1 406	1 554	1 772	987	341	134	19900
MEDIAN	443	338	482	449	438	489	475	440	278	308	319	...
SPECIFIED RENTER OCCUPIED[1]	5 907	699	1 372	912	1 310	709	506	312	60	14	12	9900
LESS THAN $100	68	12	15	5	14	9	5	6	1	-	2	10700
$100 TO $199	15	5	-	3	5	2	-	-	1	-	-	...
$200 TO $299	27	2	4	7	5	2	4	2	1	-	-	...
$300 TO $399	43	8	13	5	6	5	2	3	-	-	-	7000
$400 TO $499	45	6	9	8	11	4	6	1	-	-	1	10100
$500 TO $599	28	3	6	2	6	5	3	3	-	-	-	...
$600 TO $699	46	3	10	5	12	7	6	3	-	-	-	12200
$700 TO $799	18	-	5	4	4	2	2	2	-	-	-	...
$800 OR MORE	80	4	11	13	18	14	10	6	2	-	-	12900
INCLUDED IN RENT	621	84	155	102	144	54	52	26	4	-	-	9100
FUELS NOT USED OR FREE	4 917	572	1 144	760	1 085	606	415	260	51	14	10	9900
MEDIAN	471	337	450	471	495	562	581	...	...	-	...	...
ALL OCCUPIED HOUSING UNITS	20 565	1 207	2 897	2 104	3 749	2 868	2 755	2 854	1 406	512	213	15600
HEATING EQUIPMENT												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
WARM-AIR FURNACE	11 260	306	1 041	883	1 864	1 668	1 817	2 042	1 102	379	157	19600
HEAT PUMP	176	3	7	6	19	17	35	39	32	10	8	25300
STEAM OR HOT WATER	1 249	43	122	90	200	190	156	229	123	74	24	19500
BUILT-IN ELECTRIC UNITS	648	21	35	44	90	107	124	143	55	22	8	21100
FLOOR, WALL, OR PIPELESS FURNACE	323	27	79	41	53	46	34	31	7	2	3	11300
ROOM HEATERS WITH FLUE	572	65	167	75	119	65	39	27	8	5	1	9100
ROOM HEATERS WITHOUT FLUE	22	3	9	5	2	-	1	1	1	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	208	23	36	20	37	35	34	11	9	2	-	13300
NONE	2	-	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 C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	6 106	716	1 400	940	1 363	741	516	332	69	17	13	10000
WARM-AIR FURNACE	3 227	314	675	484	756	418	297	221	43	10	9	10900
HEAT PUMP	16	1	-	1	4	3	4	2	3	-	-	...
STEAM OR HOT WATER	1 633	203	414	252	342	177	152	70	14	6	4	9400
BUILT-IN ELECTRIC UNITS	454	56	106	72	102	59	28	24	5	2	-	9700
FLOOR, WALL, OR PIPELESS FURNACE	194	32	59	23	44	25	6	3	1	-	-	7800
ROOM HEATERS WITH FLUE	463	85	117	89	85	47	25	11	3	-	-	8000
ROOM HEATERS WITHOUT FLUE	36	13	6	3	8	4	2	-	-	-	-	6300
FIREPLACES, STOVES, OR PORTABLE HEATERS	74	12	17	11	21	7	2	2	1	-	-	8900
NONE	9	-	5	5	-	-	-	-	-	-	-	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
NO HEATING EQUIPMENT	2	-	1	-	1	-	-	-	-	-	-	...
WITH HEATING EQUIPMENT	14 457	491	1 496	1 164	2 385	2 128	2 239	2 522	1 337	494	200	19000
NO THERMOSTAT CONTROL	589	67	154	83	109	68	50	28	19	9	2	9700
WITH THERMOSTAT CONTROL	13 830	420	1 342	1 080	2 269	2 057	2 179	2 491	1 309	483	199	19400
NOT CLOCK OPERATED	12 664	371	1 216	1 009	2 082	1 919	1 996	2 291	1 163	447	170	19300
CONSTANT TEMPERATURE SETTING MAINTAINED	4 881	132	516	397	842	772	762	871	412	120	57	18600
TEMPERATURE SETTING IS CHANGED	7 736	239	693	611	1 228	1 142	1 229	1 416	741	327	111	19800
OCCASIONALLY	2 090	68	202	149	322	332	357	340	197	87	35	19600
REGULARLY	5 574	161	478	447	892	804	868	1 066	542	240	76	20000
DON'T KNOW	60	9	11	12	10	5	4	8	2	-	-	9500
NOT REPORTED	12	-	2	4	3	1	-	2	-	-	-	...
NOT REPORTED	47	1	8	2	12	6	4	3	10	-	2	15900
CLOCK OPERATED	1 161	47	126	71	187	138	184	198	145	36	29	20300
NOT REPORTED	5	2	-	-	-	-	-	2	2	-	-	...
NOT REPORTED	39	4	-	2	7	2	10	2	9	2	-	22100
RENTER OCCUPIED	6 106	716	1 400	940	1 363	741	516	332	69	17	13	10000
NO HEATING EQUIPMENT	9	-	5	5	-	-	-	-	-	-	-	...
WITH HEATING EQUIPMENT	6 097	716	1 395	935	1 363	741	516	332	69	17	13	10000
NO THERMOSTAT CONTROL	1 646	273	469	289	345	135	93	31	9	-	2	7800
WITH THERMOSTAT CONTROL	4 436	437	922	644	1 017	606	422	301	60	17	10	11100
NOT CLOCK OPERATED	4 134	393	858	599	961	565	395	283	55	16	9	11100
CONSTANT TEMPERATURE SETTING MAINTAINED	1 654	181	355	276	353	205	154	100	16	9	5	10200
TEMPERATURE SETTING IS CHANGED	2 432	201	492	319	594	353	240	183	39	7	4	11700
OCCASIONALLY	793	85	184	110	178	105	71	50	7	2	2	10500
REGULARLY	1 586	111	294	205	395	245	165	132	31	5	2	12300
DON'T KNOW	50	6	13	5	19	2	4	1	-	-	-	10300
NOT REPORTED	2	-	1	-	2	-	-	-	-	-	-	...
NOT REPORTED	47	10	11	4	14	7	1	1	-	-	-	9200
CLOCK OPERATED	297	43	62	45	56	40	26	17	5	2	2	9900
NOT REPORTED	5	2	2	-	-	-	2	-	-	-	-	...
NOT REPORTED	15	6	4	2	2	-	2	-	-	-	-	...
ALL OCCUPIED HOUSING UNITS	20 565	1 207	2 897	2 104	3 749	2 868	2 755	2 854	1 406	512	213	15600
UNITS OCCUPIED LAST WINTER	17 604	940	2 428	1 749	3 045	2 482	2 425	2 581	1 283	478	193	16300
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	13 432	470	1 443	1 118	2 169	1 967	2 069	2 319	1 228	467	182	18900
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	445	1 398	1 093	2 132	1 935	2 036	2 308	1 220	465	182	19000
NO ADDITIONAL HEAT SOURCE USED	12 081	398	1 268	983	1 923	1 792	1 866	2 130	1 137	421	163	19100
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	909	39	97	86	164	119	133	150	65	39	15	17900
NOT REPORTED	224	8	33	24	45	24	37	28	17	5	3	15300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	25	45	25	38	31	33	11	9	2	-	11900
RENTER OCCUPIED	4 172	469	986	631	876	515	356	262	55	11	11	10000
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	450	965	615	859	510	351	261	54	11	11	10100
NO ADDITIONAL HEAT SOURCE USED	3 463	364	783	522	724	445	320	230	54	10	11	10400
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	69	165	86	110	56	24	26	-	1	-	8200
NOT REPORTED	88	17	17	6	25	9	8	5	-	1	-	10800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	19	21	16	17	6	4	2	1	-	-	7500
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	13 432	470	1 443	1 118	2 169	1 967	2 069	2 319	1 228	467	182	18900
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	445	1 398	1 093	2 132	1 935	2 036	2 308	1 220	465	182	19000
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 098	312	1 043	871	1 739	1 630	1 746	2 048	1 115	424	170	19900
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 902	122	321	202	360	279	251	233	90	34	9	14200
1 ROOM	721	31	75	66	128	113	122	119	47	16	3	17700
2 ROOMS	525	35	99	61	106	80	67	56	14	5	3	13200
3 ROOMS OR MORE	657	57	148	74	126	86	61	59	29	13	3	12000
NOT REPORTED	213	11	34	20	33	25	39	26	15	6	3	16700
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	25	45	25	38	31	33	11	9	2	-	11900
RENTER OCCUPIED	4 172	469	986	631	876	515	356	262	55	11	11	10000
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	450	965	615	859	510	351	261	54	11	11	10100
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 286	343	765	494	679	428	290	221	47	8	10	10300
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	713	91	181	113	156	71	55	34	8	2	2	9300
1 ROOM	302	42	84	52	61	26	18	11	4	2	2	8400
2 ROOMS	206	22	54	27	49	24	20	8	2	-	-	10000
3 ROOMS OR MORE	205	26	43	34	46	21	18	14	2	1	-	9900
NOT REPORTED	88	16	18	7	23	10	6	6	-	1	-	10500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	19	21	16	17	6	4	2	1	-	-	7500

[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: 1979--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	13 432	470	1 443	1 118	2 169	1 967	2 069	2 319	1 228	467	182	18900
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	445	1 398	1 093	2 132	1 935	2 036	2 308	1 220	465	182	19000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	25	45	25	38	31	33	11	9	2	-	11900
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	176	17	33	20	36	27	28	9	5	1	-	12500
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	4	8	4	2	2	4	1	1	-	-	...
NOT REPORTED	18	4	4	1	-	3	2	1	3	1	-	...
RENTER OCCUPIED	4 172	469	986	631	876	515	356	262	55	11	11	10000
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	450	965	615	859	510	351	261	54	11	11	10100
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	19	21	16	17	6	4	2	1	-	-	7500
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	59	12	16	10	12	6	2	2	1	-	-	7400
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	13	4	2	4	2	-	2	-	-	-	-	...
NOT REPORTED	13	3	2	2	4	-	1	-	-	-	-	...
ALL OCCUPIED HOUSING UNITS	20 565	1 207	2 897	2 104	3 749	2 868	2 755	2 854	1 406	512	213	15600
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	210	23	37	20	38	35	34	11	9	2	-	13300
WITH SELECTED HEATING EQUIPMENT[2]	14 249	468	1 460	1 145	2 348	2 093	2 205	2 511	1 327	492	200	19100
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 455	451	1 415	1 101	2 205	1 965	2 050	2 350	1 257	465	195	19000
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	733	14	43	40	127	123	143	153	59	25	6	20700
SOLAR HEATING EQUIPMENT	3	-	1	-	-	-	-	1	-	-	2	...
STOVE, BURNING WOOD OR COAL	329	5	12	19	59	60	64	72	27	7	2	20700
FIREPLACE, BURNING WOOD OR COAL	97	2	2	3	11	19	23	19	10	6	1	22400
PORTABLE ELECTRIC HEATER	135	6	15	7	21	17	28	26	7	7	1	20200
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	33	1	6	4	12	2	2	1	5	1	-	...
OTHER	133	2	5	6	23	25	27	31	9	5	-	21000
NOT REPORTED	14	-	2	-	2	2	2	4	2	-	-	...
NOT REPORTED	61	3	2	3	16	5	11	8	11	2	-	20600
RENTER OCCUPIED	6 106	716	1 400	940	1 363	741	516	332	69	17	13	10000
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	83	12	22	16	21	7	2	2	1	-	-	8300
WITH SELECTED HEATING EQUIPMENT[2]	6 023	704	1 378	924	1 342	734	514	330	68	17	13	10000
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 782	668	1 324	889	1 285	704	500	320	66	17	11	10000
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	526	46	26	56	30	12	8	2	1	2	10500
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	1	-	-	-	...
STOVE, BURNING WOOD OR COAL	42	10	2	8	10	8	1	2	2	-	-	11000
FIREPLACE, BURNING WOOD OR COAL	2	-	-	-	-	1	-	1	1	-	-	...
PORTABLE ELECTRIC HEATER	127	13	38	16	34	14	9	2	-	1	-	9300
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	2	-	-	1	3	1	1	-	-	-	...
OTHER	29	-	8	2	9	6	2	1	-	-	2	...
NOT REPORTED	4	2	-	1	2	-	-	-	-	-	-	...
NOT REPORTED	34	10	8	9	2	1	2	3	-	-	-	...
AGE OF HEATING EQUIPMENT												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	92	213	100	159	100	74	39	18	7	1	9900
WITH SELECTED HEATING EQUIPMENT[3]	13 655	400	1 284	1 064	2 226	2 028	2 165	2 483	1 318	487	199	19600
LESS THAN 4 YEARS	2 160	46	135	116	341	321	390	457	230	79	46	21600
4 TO 9 YEARS	3 512	83	290	259	577	552	587	653	341	125	44	20000
10 TO 19 YEARS	4 284	130	383	363	663	634	640	789	441	178	64	19800
20 TO 39 YEARS	2 682	92	335	244	453	363	398	441	234	81	41	18000
40 YEARS OR MORE	223	7	24	23	50	41	30	29	12	6	1	15800
DON'T KNOW	682	34	93	55	123	106	103	106	47	11	3	16700
NOT REPORTED	113	8	25	4	20	11	16	9	12	6	1	14700
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	92	213	100	159	100	74	39	18	7	1	9900
WITH SELECTED HEATING EQUIPMENT[3]	13 655	400	1 284	1 064	2 226	2 028	2 165	2 483	1 318	487	199	19600
NO MAINTENANCE OR MODIFICATION	10 199	313	981	794	1 685	1 564	1 605	1 840	947	343	127	19200
WITH MAINTENANCE OR MODIFICATION	3 340	75	290	265	520	453	542	632	353	138	73	20600
NOT REPORTED	115	12	14	5	21	10	18	10	19	6	-	17900
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	92	213	100	159	100	74	39	18	7	1	9900
WITH SELECTED HEATING EQUIPMENT[3]	13 655	400	1 284	1 064	2 226	2 028	2 165	2 483	1 318	487	199	19600
NO MAINTENANCE CONTRACT	12 721	370	1 195	987	2 096	1 899	2 023	2 314	1 225	440	173	19500
WITH MAINTENANCE CONTRACT	816	20	69	72	110	117	128	156	77	41	26	20800
NOT REPORTED	117	10	20	5	20	12	15	13	16	6	-	16300

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
NO HOT PIPED WATER	79	21	29	8	13	4	2	-	2	1	-	5600
WITH HOT PIPED WATER	14 379	470	1 468	1 156	2 373	2 124	2 237	2 522	1 335	494	200	19100
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	14 087	459	1 427	1 139	2 319	2 091	2 192	2 473	1 309	481	199	19100
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	53	3	6	2	12	4	11	7	7	-	-	18000
NOT REPORTED	235	8	34	16	40	29	33	40	20	13	2	18300
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 106	716	1 400	940	1 363	741	516	332	69	17	13	10000
NO HOT PIPED WATER	46	19	16	5	6	1	-	-	-	-	-	4100
WITH HOT PIPED WATER	6 060	697	1 383	935	1 357	740	516	332	69	17	13	10100
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 876	667	1 336	901	1 329	717	502	327	69	17	12	10100
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	21	-	11	-	4	3	2	-	-	-	-	...
NOT REPORTED	156	29	34	33	25	19	10	5	-	-	1	8400
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
OWNER OCCUPIED	14 458	491	1 497	1 164	2 386	2 128	2 239	2 522	1 337	494	200	19000
WITH AIR CONDITIONING	8 577	210	628	607	1 317	1 242	1 412	1 671	937	388	165	21000
ROOM UNITS	4 255	131	428	400	752	723	679	690	309	113	31	17900
1	2 924	100	350	314	560	490	464	401	162	65	19	16400
2	1 034	27	64	70	163	193	164	210	96	38	9	20000
3	229	2	11	14	24	30	46	61	34	5	4	23800
4	50	3	3	2	3	8	3	14	12	2	-	26600
5 OR MORE	18	-	-	-	2	2	2	4	5	3	-	...
CENTRAL SYSTEM	4 322	78	201	207	565	519	733	982	628	276	133	24000
WITH NO AIR CONDITIONING	5 881	282	869	557	1 069	885	827	850	400	106	36	15900
RENTER OCCUPIED	6 106	716	1 400	940	1 363	741	516	332	69	17	13	10000
WITH AIR CONDITIONING	3 016	225	566	419	742	450	319	222	52	14	7	12000
ROOM UNITS	2 056	173	433	301	483	301	200	123	30	7	6	11300
1	1 715	159	394	268	395	242	149	76	22	5	6	10500
2	295	14	31	30	82	51	42	37	7	1	1	14500
3	38	-	7	4	4	4	10	8	1	1	-	20200
4	6	-	2	-	2	2	-	-	-	-	-	...
5 OR MORE	3	-	-	-	-	2	-	2	-	-	-	...
CENTRAL SYSTEM	960	52	133	118	259	149	119	100	22	7	1	13400
WITH NO AIR CONDITIONING	3 090	491	834	521	621	291	197	110	17	3	5	8300
ALL OCCUPIED HOUSING UNITS	20 565	1 207	2 897	2 104	3 749	2 868	2 755	2 854	1 406	512	213	15600
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	15 679	651	1 751	1 358	2 733	2 306	2 304	2 558	1 342	475	201	17900
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	13 667	457	1 352	1 069	2 251	2 019	2 133	2 418	1 306	466	195	19200
ALL WINDOWS COVERED	11 827	334	1 073	896	1 889	1 759	1 866	2 210	1 194	425	182	19900
SOME WINDOWS COVERED	1 262	74	183	125	253	183	179	146	77	34	8	14900
NO WINDOWS COVERED	527	43	89	45	99	77	79	58	27	7	3	14400
NOT REPORTED	51	6	8	3	11	-	10	4	7	1	2	14000
RENTER OCCUPIED	2 011	194	398	289	482	287	171	139	36	8	6	11300
ALL WINDOWS COVERED	1 219	98	231	164	296	187	123	84	26	6	4	12000
SOME WINDOWS COVERED	404	45	84	67	103	50	25	27	2	1	-	10300
NO WINDOWS COVERED	282	40	56	42	64	42	11	20	5	1	2	10300
NOT REPORTED	106	12	27	16	20	8	13	8	3	-	-	9800
STORM DOORS												
OWNER OCCUPIED	13 667	457	1 352	1 069	2 251	2 019	2 133	2 418	1 306	466	195	19200
ALL DOORS COVERED	11 438	331	1 110	888	1 873	1 723	1 798	2 074	1 114	375	151	19400
SOME DOORS COVERED	1 318	58	147	107	240	193	195	202	107	43	27	17800
NO DOORS COVERED	860	63	89	70	127	103	130	139	78	45	16	18900
NOT REPORTED	51	6	6	3	11	-	10	4	7	2	2	14800
RENTER OCCUPIED	2 011	194	398	289	482	287	171	139	36	8	6	11300
ALL DOORS COVERED	1 217	107	226	153	297	193	116	100	16	6	3	12100
SOME DOORS COVERED	285	31	64	42	76	35	14	12	9	1	1	10400
NO DOORS COVERED	401	44	82	78	89	51	28	19	7	2	2	9900
NOT REPORTED	107	13	27	16	20	8	13	8	3	-	-	9700
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	13 667	457	1 352	1 069	2 251	2 019	2 133	2 418	1 306	466	195	19200
YES	12 289	368	1 091	896	1 990	1 861	1 958	2 271	1 229	440	185	19800
NO	938	53	191	135	166	117	110	105	40	17	5	12700
DON'T KNOW	380	28	64	34	82	41	53	39	28	7	4	13900
NOT REPORTED	59	8	6	3	13	-	12	4	9	2	2	14800
RENTER OCCUPIED	2 011	194	398	289	482	287	171	139	36	8	6	11300
YES	1 132	90	214	154	265	182	108	89	22	5	3	12000
NO	342	47	59	54	78	53	22	23	5	1	1	10700
DON'T KNOW	428	44	98	64	119	44	29	19	6	2	2	10300
NOT REPORTED	110	13	27	16	21	8	13	8	3	-	-	9600

[1]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: 1979--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												
OWNER OCCUPIED	13 667	457	1 352	1 069	2 251	2 019	2 133	2 418	1 306	466	195	19200
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	527	43	89	45	99	77	79	58	27	7	3	14400
SOME OR ALL WINDOWS COVERED	13 089	408	1 256	1 020	2 141	1 942	2 044	2 356	1 272	459	191	19400
NONE ADDED OR INSTALLED	11 722	369	1 151	934	1 902	1 737	1 804	2 135	1 133	402	155	19300
SOME OR ALL ADDED OR INSTALLED	1 291	37	94	85	221	203	229	209	128	53	31	20100
NOT REPORTED	76	2	11	2	18	2	11	11	10	4	4	21300
NOT REPORTED	51	6	8	3	11	-	10	4	7	1	2	14000
STORM DOORS:												
NO DOORS COVERED	860	63	89	70	127	103	130	139	78	45	16	18900
SOME OR ALL DOORS COVERED	12 756	389	1 257	995	2 113	1 916	1 993	2 276	1 221	419	178	19200
NONE ADDED OR INSTALLED	11 572	357	1 171	934	1 939	1 749	1 804	2 027	1 069	375	146	19000
SOME OR ALL ADDED OR INSTALLED	1 017	19	57	48	145	149	171	225	138	39	24	22600
NOT REPORTED	168	12	30	13	29	18	18	23	14	4	7	15200
NOT REPORTED	51	6	6	3	11	-	10	4	7	2	2	14800
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	938	53	191	135	166	117	110	105	40	17	5	12700
WITH ATTIC OR ROOF INSULATION	12 289	368	1 091	896	1 990	1 861	1 958	2 271	1 229	440	185	19800
NONE ADDED OR INSTALLED	10 893	335	993	829	1 759	1 663	1 699	2 003	1 064	375	174	19600
SOME OR ALL ADDED OR INSTALLED	1 265	26	76	58	219	184	236	252	142	62	9	21500
LESS THAN 3 INCHES ADDED	103	-	11	2	19	20	10	21	16	4	-	19900
3 TO 6 INCHES ADDED	477	13	25	21	90	74	86	93	54	18	2	20800
6 INCHES OR MORE ADDED	517	4	24	28	88	68	114	110	52	24	5	22000
DON'T KNOW	93	7	12	3	10	15	15	14	13	4	-	19800
NOT REPORTED	75	2	3	4	12	8	12	15	8	11	2	24100
NOT REPORTED	132	7	22	9	12	14	23	16	23	3	2	20000
DON'T KNOW	380	28	64	34	82	41	53	39	28	7	4	13900
NOT REPORTED	59	8	6	3	13	-	12	4	9	2	2	14800
WALL INSULATION:												
NONE ADDED OR INSTALLED	12 640	434	1 290	1 030	2 073	1 876	1 910	2 236	1 179	420	192	19000
SOME OR ALL ADDED OR INSTALLED	948	17	52	35	162	142	208	175	111	44	2	21600
NOT REPORTED	80	7	10	4	16	1	15	8	15	2	2	20800
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	9 314	361	1 075	812	1 574	1 325	1 325	1 573	816	317	135	18100
SOME OR ALL ADDED OR INSTALLED	4 172	87	263	244	658	674	772	817	456	144	57	21000
DON'T KNOW	116	4	7	9	6	18	23	21	23	3	2	23100
NOT REPORTED	66	6	8	4	13	2	12	7	11	2	2	20400
OTHER INSULATION:												
NONE ADDED OR INSTALLED	12 764	425	1 290	1 010	2 078	1 894	1 983	2 252	1 216	432	184	19200
SOME OR ALL ADDED OR INSTALLED	795	23	49	51	154	119	130	155	73	32	10	20100
NOT REPORTED	108	9	13	7	20	6	20	12	17	2	2	18700
RENTER OCCUPIED	2 011	194	398	289	482	287	171	139	36	8	6	11300
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	282	40	56	42	64	42	11	20	5	1	2	10300
SOME OR ALL WINDOWS COVERED	1 623	143	316	232	398	237	148	111	28	7	4	11500
NONE ADDED OR INSTALLED	1 373	127	258	190	332	203	133	98	22	6	3	11700
SOME OR ALL ADDED OR INSTALLED	218	13	47	36	62	28	12	12	6	1	1	11000
NOT REPORTED	32	2	10	5	5	5	3	1	-	-	-	...
NOT REPORTED	106	12	27	16	20	8	13	8	3	-	-	9800
STORM DOORS:												
NO DOORS COVERED	401	44	82	78	89	51	28	19	7	2	2	9900
SOME OR ALL DOORS COVERED	1 502	138	290	195	373	228	131	112	26	7	4	11700
NONE ADDED OR INSTALLED	1 357	123	258	183	328	212	118	100	26	5	4	11700
SOME OR ALL ADDED OR INSTALLED	94	6	19	7	34	10	10	7	-	1	-	12200
NOT REPORTED	51	8	13	5	11	6	3	5	-	-	-	9700
NOT REPORTED	107	13	27	16	20	8	13	8	3	-	-	9700
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	342	47	59	54	78	53	22	23	5	1	1	10700
WITH ATTIC OR ROOF INSULATION	1 132	90	214	154	265	182	108	89	22	5	3	12000
NONE ADDED OR INSTALLED	1 019	79	190	138	243	161	101	82	17	5	3	12100
SOME OR ALL ADDED OR INSTALLED	90	11	17	14	18	18	4	7	3	-	-	11200
LESS THAN 3 INCHES ADDED	8	-	2	1	-	4	-	-	2	-	-	...
3 TO 6 INCHES ADDED	29	3	6	5	4	6	1	4	-	-	-	...
6 INCHES OR MORE ADDED	15	2	1	1	5	2	1	2	1	-	-	...
DON'T KNOW	33	5	7	7	6	5	2	-	1	-	-	...
NOT REPORTED	5	-	1	-	2	1	-	1	-	-	-	...
NOT REPORTED	23	-	7	2	5	4	3	-	1	-	1	...
DON'T KNOW	428	44	98	64	119	44	29	19	6	2	2	10300
NOT REPORTED	110	13	27	16	21	8	13	8	3	-	-	9600
WALL INSULATION:												
NONE ADDED OR INSTALLED	1 788	174	344	261	436	258	148	123	30	8	6	11300
SOME OR ALL ADDED OR INSTALLED	74	8	13	6	16	14	5	8	3	-	-	13200
NOT REPORTED	149	12	41	22	30	15	18	8	3	-	-	9900
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	1 347	130	263	203	333	188	102	94	23	5	5	11200
SOME OR ALL ADDED OR INSTALLED	376	32	56	46	87	70	42	32	7	3	1	13100
DON'T KNOW	175	19	53	23	40	20	15	3	2	-	-	9000
NOT REPORTED	113	13	27	16	21	8	13	10	4	-	-	10000
OTHER INSULATION:												
NONE ADDED OR INSTALLED	1 782	169	344	257	434	262	149	125	32	6	6	11400
SOME OR ALL ADDED OR INSTALLED	76	9	13	10	18	12	8	5	-	2	-	11800
NOT REPORTED	153	16	42	23	31	14	14	10	4	-	-	9500

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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												
OWNER OCCUPIED	13 667	457	1 352	1 069	2 251	2 019	2 133	2 418	1 306	466	195	19200
NO INSULATION ADDED OR INSTALLED	7 623	300	908	693	1 291	1 098	1 045	1 290	648	247	104	17800
WITH INSULATION ADDED OR INSTALLED	5 709	134	391	348	912	888	1 045	1 090	610	209	82	20900
LESS THAN $50	2 820	84	219	203	462	453	504	533	262	70	30	19900
$50 TO $99	549	10	35	26	88	80	114	114	61	15	5	21500
$100 TO $199	592	11	31	34	91	99	126	111	56	23	8	21100
$200 TO $399	543	7	28	27	78	82	109	109	71	27	7	22300
$400 OR MORE	840	8	41	41	134	126	146	163	106	55	20	22400
DON'T KNOW	169	7	14	3	25	22	19	38	33	6	2	23500
NOT REPORTED	196	7	23	13	33	26	26	23	21	13	11	19200
MEDIAN	50-	50-	50-	50-	50-	50-	50-	50-	63	145	98	...
NOT REPORTED OR DON'T KNOW	335	24	53	28	48	34	43	38	49	10	9	17200
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	335	13	39	41	60	46	46	42	24	13	11	16600
LESS THAN $50	145	9	20	16	36	19	16	18	6	3	2	13800
$50 TO $99	41	-	7	6	6	3	8	6	5	-	-	17500
$100 TO $199	27	-	4	2	5	6	4	3	3	-	-	...
$200 TO $399	37	2	1	5	3	6	7	5	4	2	2	21100
$400 OR MORE	60	-	3	7	9	7	10	7	5	8	3	21700
DON'T KNOW	7	-	1	-	-	2	1	3	-	-	-	...
NOT REPORTED	19	3	3	5	1	2	1	-	1	-	4	...
MEDIAN	62	...	50-	64	50-	82	92	59	...	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS	322	7	25	18	43	39	59	69	45	12	6	22500
LESS THAN $50	39	4	7	5	5	9	4	5	-	-	-	13600
$50 TO $99	109	2	3	4	20	9	23	27	19	3	-	23700
$100 TO $199	86	1	3	7	6	11	21	18	12	5	3	23800
$200 TO $399	35	1	5	2	5	2	5	8	6	2	-	23800
$400 OR MORE	19	-	-	-	2	2	5	6	3	-	1	...
DON'T KNOW	2	-	-	-	-	-	-	1	1	1	-	...
NOT REPORTED	33	-	7	1	7	6	1	5	4	2	2	...
MEDIAN	97	...	...	...	84	...	110	101	106	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	608	19	49	34	91	102	113	110	61	28	1	20400
LESS THAN $50	72	4	14	6	7	8	13	14	4	2	-	18000
$50 TO $99	79	4	10	1	9	14	17	18	7	-	-	20700
$100 TO $199	129	6	5	7	16	28	23	24	12	7	-	20500
$200 TO $399	121	-	6	11	18	15	24	25	17	5	-	22300
$400 OR MORE	144	-	8	7	26	27	26	20	19	9	1	20600
DON'T KNOW	34	3	3	2	7	6	4	7	2	1	-	...
NOT REPORTED	29	2	3	1	7	6	5	2	-	2	-	...
MEDIAN	193	...	86	...	268	186	189	177	275	...	...	...
ALL OCCUPIED HOUSING UNITS	20 565	1 207	2 897	2 104	3 749	2 868	2 755	2 854	1 406	512	213	15600
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	10 367	129	302	446	1 551	1 711	2 010	2 332	1 239	461	185	22600
DRIVES SELF	7 562	77	164	314	1 131	1 233	1 503	1 720	941	334	144	22900
CARPOOL	1 669	10	41	50	226	285	348	425	198	69	17	23200
MASS TRANSPORTATION	296	3	10	21	46	28	46	63	44	21	14	24300
BICYCLE OR MOTORCYCLE	103	3	4	3	17	27	16	30	2	2	2	19900
TAXICAB	3	-	-	-	2	-	-	-	-	-	2	...
WALKS ONLY	236	8	26	17	33	62	30	33	15	11	2	17800
OTHER MEANS	36	1	1	1	5	7	6	6	4	4	-	22200
WORKS AT HOME	422	28	52	37	86	56	55	49	34	19	6	15700
NOT REPORTED	40	-	5	4	5	12	5	5	1	2	-	17200
RENTER OCCUPIED	4 068	169	525	687	1 169	657	473	303	57	16	12	12800
DRIVES SELF	2 588	70	279	391	767	471	338	215	38	11	9	13600
CARPOOL	631	27	64	118	195	98	77	44	4	3	2	12700
MASS TRANSPORTATION	337	23	78	77	85	38	21	10	3	-	2	9600
BICYCLE OR MOTORCYCLE	58	2	11	12	12	15	5	1	2	-	-	12000
TAXICAB	9	2	-	5	2	-	-	-	-	-	-	...
WALKS ONLY	312	33	77	66	81	19	23	11	2	-	-	9100
OTHER MEANS	8	2	2	1	2	1	-	-	1	-	-	...
WORKS AT HOME	104	7	14	15	20	14	8	19	5	2	-	13900
NOT REPORTED	21	5	-	1	5	2	2	3	2	-	-	...
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	10 367	129	302	446	1 551	1 711	2 010	2 332	1 239	461	185	22600
LESS THAN 1 MILE	736	11	46	50	136	156	126	111	57	34	7	19000
1 TO 4 MILES	2 302	18	65	113	373	400	491	498	231	78	35	21900
5 TO 9 MILES	1 941	20	38	91	287	338	393	448	224	70	30	22500
10 TO 19 MILES	2 140	16	38	72	281	341	449	517	276	112	38	23600
20 TO 29 MILES	853	10	10	21	120	132	149	240	123	38	12	24500
30 TO 49 MILES	457	2	8	13	55	65	99	110	67	23	15	24300
50 MILES OR MORE	107	1	2	2	18	14	29	26	13	2	2	22900
WORKS AT HOME	422	28	52	37	86	56	55	49	34	19	6	15700
NO FIXED PLACE OF WORK	1 268	21	33	36	166	186	202	299	202	83	39	24700
NOT REPORTED	140	2	10	9	29	23	17	32	12	4	2	19400
MEDIAN	8.2	7.5	4.5	6.0	7.2	7.5	8.2	9.1	9.6	9.7	9.5	...
RENTER OCCUPIED	4 068	169	525	687	1 169	657	473	303	57	16	12	12800
LESS THAN 1 MILE	540	34	105	123	148	63	42	19	5	-	2	10300
1 TO 4 MILES	1 130	60	161	205	353	177	96	58	12	5	2	12000
5 TO 9 MILES	814	27	103	114	240	132	122	60	11	6	-	13400
10 TO 19 MILES	686	22	60	114	190	128	94	65	10	-	3	13900
20 TO 29 MILES	227	1	14	32	69	46	41	17	1	3	2	14800
30 TO 49 MILES	104	2	9	13	31	24	15	10	-	-	-	14500
50 MILES OR MORE	29	1	5	1	8	4	8	2	1	-	-	...
WORKS AT HOME	104	7	14	15	20	14	8	19	5	2	-	13900
NO FIXED PLACE OF WORK	369	12	47	52	97	59	41	49	8	1	3	13800
NOT REPORTED	66	3	7	18	14	9	6	5	4	-	-	11700
MEDIAN	5.6	3.6	4.1	4.5	5.4	6.8	7.9	8.2	6.4	...	...	...

[1]LIMITED TO HEADS 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: 1979--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												
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	10 367	129	302	446	1 551	1 711	2 010	2 332	1 239	461	185	22600
LESS THAN 15 MINUTES	3 263	38	103	168	528	595	652	665	326	125	63	21500
15 TO 29 MINUTES	3 119	20	62	132	443	520	671	761	351	120	40	22900
30 TO 44 MINUTES	1 377	11	24	43	206	220	247	351	200	62	13	23700
45 TO 59 MINUTES	494	8	10	16	50	78	111	111	71	31	9	23900
1 HOUR TO 1 HOUR AND 29 MINUTES	267	1	5	6	38	35	48	66	38	18	14	25300
1 HOUR AND 30 MINUTES OR MORE	85	1	2	3	20	11	17	20	11	-	-	21500
WORKS AT HOME	422	28	52	37	86	56	55	49	34	19	6	15700
NO FIXED PLACE OF WORK	1 268	21	33	36	166	186	202	299	202	83	39	24700
NOT REPORTED	70	2	10	5	14	10	8	9	6	4	2	17500
MEDIAN	20.0	16.2	15.0	16.8	18.8	18.8	19.9	21.3	22.3	21.6	17.3	...
RENTER OCCUPIED	4 068	169	525	687	1 169	657	473	303	57	16	12	12800
LESS THAN 15 MINUTES	1 568	77	234	290	471	230	161	75	18	8	4	11900
15 TO 29 MINUTES	1 251	38	151	205	353	220	162	96	19	4	3	13300
30 TO 44 MINUTES	454	20	32	71	140	76	69	43	1	2	-	13700
45 TO 59 MINUTES	149	5	21	20	42	34	14	11	2	-	2	13400
1 HOUR TO 1 HOUR AND 29 MINUTES	106	6	14	20	32	19	7	7	2	-	-	12100
1 HOUR AND 30 MINUTES OR MORE	31	-	10	6	7	2	5	-	1	-	-	...
WORKS AT HOME	104	7	14	15	20	14	8	19	5	2	-	13900
NO FIXED PLACE OF WORK	369	12	47	52	97	59	41	49	8	1	3	13800
NOT REPORTED	36	3	2	8	6	4	7	4	2	-	-	13700
MEDIAN	17.5	15.0-	15.0-	16.1	17.2	19.0	19.4	21.4	17.4	...	...	...

[1]LIMITED TO HEADS 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: 1979

(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]	11 580	255	877	1 608	2 077	1 954	1 418	1 552	1 170	594	75	45000
HOUSE HEATING FUEL												
UTILITY GAS	8 817	165	634	1 279	1 579	1 478	1 104	1 121	916	479	61	45100
BOTTLED, TANK, OR LP GAS	467	34	67	76	97	71	42	46	21	12	-	35700
FUEL OIL	1 380	40	133	196	282	255	139	192	98	43	3	41600
KEROSENE, ETC	5	-	1	-	3	1	-	-	-	-	-	...
ELECTRICITY	840	6	30	45	105	140	130	185	134	56	9	57200
COAL OR COKE	22	1	8	3	2	4	-	2	1	2	-	...
WOOD	43	8	3	7	7	5	3	8	-	1	1	34700
SOLAR HEAT	1	-	-	-	-	-	-	-	-	1	-	...
OTHER FUEL	3	2	-	2	-	-	-	-	-	-	-	...
NONE	2	-	1	-	1	-	-	-	-	-	-	...
WATER HEATING FUEL												
NO HOT PIPED WATER	44	19	13	7	3	-	-	1	1	-	-	12500
WITH HOT PIPED WATER	11 536	236	864	1 601	2 073	1 954	1 418	1 550	1 170	594	75	45100
FUEL USED:												
UTILITY GAS	8 274	149	572	1 174	1 484	1 409	1 044	1 067	871	442	62	45400
BOTTLED, TANK, OR LP GAS	403	24	70	52	82	62	36	47	18	12	-	36800
FUEL OIL	103	2	2	10	12	26	15	16	16	5	-	50000
KEROSENE, ETC	1	-	-	-	-	-	-	-	1	-	-	...
ELECTRICITY	2 750	63	219	366	494	457	322	420	263	134	13	45100
COAL OR COKE	1	-	-	-	-	-	1	-	-	-	-	...
WOOD	1	-	-	-	-	-	-	-	1	-	-	...
SOLAR HEAT	1	-	-	-	-	-	-	-	-	1	-	...
OTHER FUEL	1	-	-	-	-	-	-	1	-	-	-	...
NONE	2	-	-	-	2	-	-	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	4 866	133	499	906	931	772	518	508	391	188	21	39600
BOTTLED, TANK, OR LP GAS	460	40	91	77	97	60	32	37	17	8	-	32200
FUEL OIL	3	-	-	1	2	-	-	-	-	1	-	...
KEROSENE, ETC	2	-	-	-	-	-	-	-	2	-	-	...
ELECTRICITY	6 234	77	285	623	1 047	1 119	868	1 005	760	397	54	49700
COAL OR COKE	3	-	-	-	-	3	-	-	-	-	-	...
WOOD	7	5	1	-	1	-	1	-	-	-	-	...
OTHER FUEL	1	-	-	-	-	-	-	1	-	-	-	...
NONE	4	1	1	2	-	-	-	1	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	115	30	23	20	21	11	3	1	6	-	-	22300
$10 TO $19	1 310	64	187	320	301	190	118	80	37	12	2	32800
$20 TO $29	2 778	70	287	518	560	495	324	294	146	75	8	39200
$30 TO $39	2 710	40	188	372	527	507	372	356	265	80	3	44500
$40 TO $49	1 779	20	85	174	294	327	243	276	256	100	4	49700
$50 TO $59	1 231	18	48	101	186	203	149	226	180	106	14	54000
$60 TO $79	992	7	38	67	130	159	123	193	143	118	12	57600
$80 TO $99	297	2	9	20	36	39	32	51	62	39	6	62900
$100 TO $149	290	1	6	12	22	20	40	65	60	46	17	70000
$150 OR MORE	74	2	4	3	1	2	12	10	15	18	7	79900
NO ELECTRICITY USED	3	2	-	-	-	-	-	-	2	-	-	...
MEDIAN	35	24	27	28	33	35	36	41	45	53	69	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	329	18	44	62	65	44	33	33	21	8	-	36100
$10 TO $14	256	9	24	46	50	47	26	27	20	6	1	39700
$15 TO $19	365	17	43	69	95	50	38	34	16	4	-	35600
$20 TO $24	634	20	54	132	159	93	64	68	29	14	-	37000
$25 TO $29	815	27	77	150	180	156	85	86	39	10	3	38500
$30 TO $39	2 531	48	204	394	493	495	359	277	193	62	7	42600
$40 TO $49	2 145	37	130	292	370	348	297	327	246	91	7	47000
$50 TO $69	2 144	30	146	231	308	327	243	326	313	203	17	51200
$70 TO $99	538	11	33	61	80	78	51	50	78	80	15	51000
$100 OR MORE	179	5	22	15	13	17	13	15	23	37	17	63300
NO GAS USED	1 642	32	100	155	263	298	208	308	192	79	8	49100
MEDIAN	40	34	36	36	37	38	40	43	46	56	67	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	345	8	19	22	23	41	46	71	79	31	5	62600
$100 TO $199	167	6	7	18	21	24	6	29	35	16	5	60800
$200 TO $299	107	6	10	13	16	24	10	16	10	4	-	44100
$300 TO $399	223	6	27	39	48	44	20	31	6	2	-	38300
$400 TO $499	282	10	31	36	52	61	33	36	16	6	2	42100
$500 TO $599	233	8	22	35	56	40	26	32	13	2	-	39200
$600 TO $699	216	6	23	23	45	51	22	22	17	6	1	42300
$700 TO $799	122	3	9	15	26	17	12	28	7	4	-	44600
$800 OR MORE	237	3	14	30	44	25	27	45	26	24	-	51300
FUELS NOT USED OR FREE	9 647	200	716	1 377	1 747	1 628	1 215	1 243	962	497	63	44800
MEDIAN	443	418	458	464	510	449	456	423	173	221	...	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	9 369	120	585	1 304	1 786	1 671	1 190	1 233	933	490	56	45300
HEAT PUMP	146	-	2	-	5	10	24	38	43	23	2	73000
STEAM OR HOT WATER	877	4	45	89	122	142	114	148	135	65	13	53200
BUILT-IN ELECTRIC UNITS	447	3	18	34	62	92	73	100	49	12	3	51900
FLOOR, WALL, OR PIPELESS FURNACE	238	22	63	73	46	19	6	2	5	2	-	24600
ROOM HEATERS WITH FLUE	388	88	142	86	34	10	6	15	4	2	-	17500
ROOM HEATERS WITHOUT FLUE	15	1	7	2	2	2	1	2	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	99	17	15	21	18	8	4	14	1	1	1	28400
NONE	2	-	1	-	1	-	-	-	-	-	-	...

[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: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	2	-	1	-	1	-	-	-	-	-	-	...
WITH HEATING EQUIPMENT	11 578	255	876	1 608	2 076	1 954	1 418	1 552	1 170	594	75	45000
NO THERMOSTAT CONTROL	315	72	109	56	35	11	7	11	10	2	1	17800
WITH THERMOSTAT CONTROL	11 232	183	766	1 549	2 034	1 937	1 408	1 536	1 157	588	74	45600
NOT CLOCK OPERATED	10 270	167	691	1 413	1 857	1 805	1 308	1 405	1 062	505	56	45600
CONSTANT TEMPERATURE SETTING MAINTAINED	3 971	67	296	601	745	687	515	481	398	162	18	44000
TEMPERATURE SETTING IS CHANGED	6 260	99	391	802	1 108	1 115	786	923	661	340	35	46500
OCCASIONALLY	1 698	34	95	218	304	280	238	253	171	94	11	47100
REGULARLY	4 501	65	289	567	796	824	543	662	486	246	23	46500
DON'T KNOW	49	-	7	15	7	7	3	6	3	-	-	33200
NOT REPORTED	12	-	-	2	1	5	2	2	-	-	-	...
NOT REPORTED	39	1	4	10	4	2	7	2	3	2	3	40200
CLOCK OPERATED	961	16	72	136	177	133	101	131	95	83	18	46000
NOT REPORTED	2	-	2	-	-	-	-	-	-	-	-	...
NOT REPORTED	31	-	2	2	7	6	2	4	3	3	-	...
SPECIFIED OWNER OCCUPIED[1]	11 580	255	877	1 608	2 077	1 954	1 418	1 552	1 170	594	75	45000
UNITS OCCUPIED LAST WINTER	10 779	230	834	1 525	1 948	1 832	1 321	1 426	1 057	543	64	44700
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	10 670	214	813	1 504	1 927	1 824	1 317	1 411	1 056	542	63	44800
NO ADDITIONAL HEAT SOURCE USED	9 790	182	716	1 389	1 786	1 665	1 223	1 306	979	489	55	44900
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	699	27	84	84	121	126	69	80	60	41	7	42600
NOT REPORTED	182	4	13	31	20	33	24	25	17	12	2	46800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	109	16	21	21	21	8	5	15	1	1	1	28400
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	10 670	214	813	1 504	1 927	1 824	1 317	1 411	1 056	542	63	44800
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	9 110	105	525	1 145	1 624	1 630	1 208	1 322	979	509	63	47100
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 384	104	272	329	282	161	88	64	60	23	-	29600
1 ROOM	574	22	69	122	124	91	59	39	35	13	-	35900
2 ROOMS	377	37	78	93	80	40	19	12	13	5	-	27900
3 ROOMS OR MORE	433	45	126	114	79	30	10	13	12	5	-	24000
NOT REPORTED	176	4	15	29	21	34	20	25	17	11	-	45400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	109	16	21	21	21	8	5	15	1	1	1	28400
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	10 670	214	813	1 504	1 927	1 824	1 317	1 411	1 056	542	63	44800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	109	16	21	21	21	8	5	15	1	1	1	28400
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	84	13	14	18	16	5	3	13	-	1	1	28500
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	13	2	5	1	2	1	1	2	-	-	-	...
NOT REPORTED	12	2	2	2	3	2	1	-	1	-	-	...
SPECIFIED OWNER OCCUPIED[1]	11 580	255	877	1 608	2 077	1 954	1 418	1 552	1 170	594	75	45000
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	101	17	16	21	19	8	4	14	1	1	1	28400
WITH SELECTED HEATING EQUIPMENT[3]	11 479	238	861	1 587	2 058	1 946	1 414	1 538	1 170	593	74	45100
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 887	228	821	1 519	1 940	1 829	1 350	1 453	1 108	567	72	45100
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	592	10	32	63	106	104	60	83	61	22	1	45800
SOLAR HEATING EQUIPMENT	2	-	-	1	-	-	-	-	-	2	-	...
STOVE, BURNING WOOD OR COAL	235	1	12	28	47	51	27	36	28	5	-	45700
FIREPLACE, BURNING WOOD OR COAL	71	-	-	7	13	11	11	12	11	5	1	54000
PORTABLE ELECTRIC HEATER	102	5	12	13	18	20	12	14	6	4	-	41900
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	26	2	3	7	8	2	3	2	-	-	-	...
OTHER	100	2	5	7	20	19	9	18	14	7	-	49000
NOT REPORTED	13	-	-	1	3	1	-	3	4	-	-	...
NOT REPORTED	50	-	8	5	12	14	4	2	1	3	2	40700
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	105	165	108	55	19	11	31	5	2	1	18900
WITH SELECTED HEATING EQUIPMENT[4]	11 077	150	712	1 499	2 022	1 935	1 407	1 521	1 166	591	74	46000
LESS THAN 4 YEARS	1 731	26	65	174	269	259	226	271	282	142	16	53200
4 TO 9 YEARS	2 645	40	190	331	454	431	309	394	307	174	14	47100
10 TO 19 YEARS	3 563	47	235	487	648	619	458	494	353	195	27	45900
20 TO 39 YEARS	2 341	22	138	316	488	504	314	300	183	66	10	44100
40 YEARS OR MORE	183	-	18	33	42	30	24	17	13	3	3	39500
DON'T KNOW	533	11	56	144	109	80	64	40	22	8	-	35100
NOT REPORTED	80	3	10	14	11	12	12	6	5	3	3	40900
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	105	165	108	55	19	11	31	5	2	1	18900
WITH SELECTED HEATING EQUIPMENT[4]	11 077	150	712	1 499	2 022	1 935	1 407	1 521	1 166	591	74	46000
NO MAINTENANCE OR MODIFICATION	8 268	116	559	1 189	1 559	1 457	1 012	1 091	843	392	49	44900
WITH MAINTENANCE OR MODIFICATION	2 736	33	147	306	449	463	382	420	317	195	24	49300
NOT REPORTED	72	1	6	4	14	15	12	9	6	4	2	48000

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

TABLE C-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	105	165	108	55	19	11	31	5	2	1	18900
WITH SELECTED HEATING EQUIPMENT[2]	11 077	150	712	1 499	2 022	1 935	1 407	1 521	1 166	591	74	46000
NO MAINTENANCE CONTRACT	10 355	135	670	1 423	1 922	1 797	1 311	1 415	1 091	534	56	45700
WITH MAINTENANCE CONTRACT	652	15	37	66	87	124	86	99	71	52	14	49800
NOT REPORTED	70	-	5	11	12	14	9	7	3	6	3	45100
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	44	19	13	7	3	-	-	1	1	-	-	12500
WITH HOT PIPED WATER	11 536	236	864	1 601	2 073	1 954	1 418	1 550	1 170	594	75	45100
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 302	226	844	1 568	2 028	1 925	1 381	1 521	1 151	582	75	45100
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	42	-	2	4	9	7	10	4	3	2	-	48200
NOT REPORTED	189	11	17	29	35	22	26	25	15	9	-	41200
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
WITH AIR CONDITIONING	7 067	78	381	784	1 218	1 186	929	1 090	856	481	64	49000
ROOM UNITS	3 381	63	317	595	764	601	407	382	185	66	3	39400
1	2 285	53	234	422	533	389	265	247	97	45	-	38100
2	850	9	67	149	178	173	104	93	61	15	2	41300
3	189	1	14	18	37	35	32	25	23	2	2	47000
4	42	-	2	7	14	3	2	13	1	2	-	39200
5 OR MORE	16	-	-	-	3	-	4	4	3	2	-	...
CENTRAL SYSTEM	3 686	15	64	189	453	586	522	709	671	416	61	60300
WITH NO AIR CONDITIONING	4 512	177	496	824	859	768	489	461	315	112	11	38800
SPECIFIED OWNER OCCUPIED[1]	11 580	255	877	1 608	2 077	1 954	1 418	1 552	1 170	594	75	45000
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 580	255	877	1 608	2 077	1 954	1 418	1 552	1 170	594	75	45000
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	10 049	154	630	1 261	1 778	1 769	1 306	1 433	1 100	548	69	46800
SOME WINDOWS COVERED	1 042	54	168	254	206	126	73	75	48	33	6	32200
NO WINDOWS COVERED	443	46	73	85	87	49	35	40	19	9	-	32000
NOT REPORTED	44	1	6	8	6	9	4	3	3	4	-	42300
STORM DOORS												
ALL DOORS COVERED	9 862	163	690	1 389	1 833	1 753	1 254	1 357	954	420	49	44900
SOME DOORS COVERED	1 025	45	110	155	160	142	101	101	111	82	16	42900
NO DOORS COVERED	648	46	71	58	76	50	59	90	101	87	10	54000
NOT REPORTED	44	1	6	6	7	9	4	3	3	4	-	42400
ATTIC OR ROOF INSULATION												
YES	10 495	172	671	1 336	1 882	1 825	1 341	1 495	1 127	574	72	46500
NO	737	70	162	202	124	75	46	29	19	9	2	26800
DON'T KNOW	295	12	38	64	62	45	25	24	21	3	2	35500
NOT REPORTED	52	2	6	6	9	9	6	3	3	7	-	44000
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	443	46	73	85	87	49	35	40	19	9	-	32000
SOME OR ALL WINDOWS COVERED	11 092	208	798	1 516	1 984	1 896	1 379	1 508	1 148	581	75	45500
NONE ADDED OR INSTALLED	9 940	188	701	1 379	1 750	1 695	1 250	1 380	1 025	509	64	45600
SOME OR ALL ADDED OR INSTALLED	1 080	19	92	130	219	195	118	118	118	62	9	44100
NOT REPORTED	72	1	5	7	15	5	11	11	5	10	2	53200
NOT REPORTED	44	1	6	8	6	9	4	3	3	4	-	42300
STORM DOORS:												
NO DOORS COVERED	648	46	71	58	76	50	59	90	101	87	10	54000
SOME OR ALL DOORS COVERED	10 887	208	800	1 544	1 993	1 895	1 355	1 458	1 066	502	65	44700
NONE ADDED OR INSTALLED	9 859	190	753	1 405	1 828	1 725	1 210	1 317	950	430	52	44400
SOME OR ALL ADDED OR INSTALLED	885	15	33	118	138	156	125	122	106	61	11	48900
NOT REPORTED	143	3	15	21	28	14	20	19	10	12	2	43300
NOT REPORTED	44	1	6	6	7	9	4	3	3	4	-	42400
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	737	70	162	202	124	75	46	29	19	9	2	26800
WITH ATTIC OR ROOF INSULATION	10 495	172	671	1 336	1 882	1 825	1 341	1 495	1 127	574	72	46500
NONE ADDED OR INSTALLED	9 281	154	586	1 195	1 688	1 605	1 157	1 328	1 002	505	62	46300
SOME OR ALL ADDED OR INSTALLED	1 102	13	70	126	170	211	171	153	121	61	7	48200
LESS THAN 3 INCHES ADDED	89	1	7	8	12	24	13	13	7	5	-	47300
3 TO 6 INCHES ADDED	424	5	24	62	75	83	67	62	28	16	2	45500
6 INCHES OR MORE ADDED	447	3	28	44	62	82	69	62	61	32	4	50600
DON'T KNOW	78	2	8	5	9	16	13	4	17	5	-	49900
NOT REPORTED	64	2	2	7	13	7	8	11	8	4	2	51300
NOT REPORTED	113	6	16	16	23	10	13	14	5	8	2	38300
DON'T KNOW	295	12	38	64	62	45	25	24	21	3	2	35500
NOT REPORTED	52	2	6	6	9	9	6	3	3	7	-	44000
WALL INSULATION:												
NONE ADDED OR INSTALLED	10 710	241	813	1 509	1 928	1 807	1 292	1 444	1 061	546	70	44800
SOME OR ALL ADDED OR INSTALLED	797	13	57	92	136	131	118	100	105	42	3	47700
NOT REPORTED	73	2	7	7	13	16	7	8	5	6	2	44700
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	7 824	200	663	1 167	1 401	1 263	907	1 015	780	375	52	43800
SOME OR ALL ADDED OR INSTALLED	3 595	52	200	421	647	671	494	516	366	211	18	47100
DON'T KNOW	103	2	8	12	20	11	13	15	16	2	3	48300
NOT REPORTED	57	1	6	8	8	9	4	5	8	6	2	46100
OTHER INSULATION:												
NONE ADDED OR INSTALLED	10 889	246	831	1 524	1 960	1 854	1 332	1 443	1 081	545	72	44800
SOME OR ALL ADDED OR INSTALLED	595	7	37	70	101	84	76	95	82	41	1	49700
NOT REPORTED	96	2	8	13	17	16	10	14	7	8	2	45200

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]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: 1979--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												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	6 397	169	531	985	1 138	1 037	715	813	660	308	39	43600
WITH INSULATION ADDED OR INSTALLED	4 895	77	312	577	885	890	666	703	490	268	27	46700
LESS THAN $50	2 389	48	168	283	456	448	328	339	213	101	6	45400
$50 TO $99	462	6	20	64	90	98	57	67	36	24	-	45300
$100 TO $199	503	7	34	59	70	93	79	76	62	22	2	48800
$200 TO $399	482	3	41	54	62	77	83	86	38	33	5	50500
$400 OR MORE	730	5	33	82	149	120	98	87	94	54	9	48000
DON'T KNOW	152	2	4	14	25	24	12	19	30	18	5	56500
NOT REPORTED	176	5	12	23	33	30	8	29	17	16	2	44700
MEDIAN	50-	50-	50-	50-	50-	50-	50-	50-	61	83	...	...
NOT REPORTED OR DON'T KNOW	287	10	34	45	53	27	37	36	21	17	8	40600
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	265	7	35	29	58	46	20	36	19	12	2	40500
LESS THAN $50	105	7	19	15	23	14	7	10	6	3	-	35000
$50 TO $99	30	-	3	3	11	10	2	-	2	-	-	...
$100 TO $199	21	-	2	3	2	5	2	2	2	2	-	...
$200 TO $399	31	-	4	2	6	5	3	8	3	-	2	...
$400 OR MORE	54	-	4	4	15	7	3	14	5	2	-	46400
DON'T KNOW	7	-	-	1	-	1	3	2	-	2	-	...
NOT REPORTED	16	-	3	3	2	3	1	-	1	3	-	...
MEDIAN	75	...	...	...	74	82	...	...	...	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS	284	3	15	35	49	46	41	50	31	13	2	48700
LESS THAN $50	33	-	2	9	10	3	2	3	3	-	-	...
$50 TO $99	95	-	2	13	18	18	14	20	8	3	-	48200
$100 TO $199	79	2	4	2	10	14	18	13	12	2	2	54000
$200 TO $399	29	-	2	5	3	3	3	6	6	1	-	...
$400 OR MORE	18	-	1	-	2	5	3	3	2	2	-	...
DON'T KNOW	2	-	1	1	-	-	1	-	-	-	-	...
NOT REPORTED	28	2	3	5	5	2	1	5	1	5	-	...
MEDIAN	99	...	...	...	83	103	124	98	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	512	10	43	67	85	81	84	74	47	18	3	46400
LESS THAN $50	56	5	8	4	9	8	12	5	2	2	2	43300
$50 TO $99	65	2	3	10	9	7	10	17	7	-	-	51000
$100 TO $199	109	1	6	17	19	22	15	16	11	3	-	45300
$200 TO $399	106	1	12	7	14	21	22	18	7	3	1	49100
$400 OR MORE	121	-	11	15	23	16	20	14	15	6	1	46700
DON'T KNOW	29	1	-	7	6	2	4	3	4	3	-	...
NOT REPORTED	25	2	2	6	4	5	1	2	2	2	-	...
MEDIAN	197	...	242	175	206	201	223	181	227	...	...	...

[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: 1979

(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]	5 907	484	735	1 331	1 362	892	424	192	141	48	298	209
HOUSE HEATING FUEL												
UTILITY GAS	4 342	318	576	1 023	1 023	638	330	126	110	37	162	208
BOTTLED, TANK, OR LP GAS	193	12	40	46	27	19	4	7	-	-	39	177
FUEL OIL	616	54	55	134	146	88	35	27	7	2	69	211
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	672	78	51	113	157	141	51	32	22	9	17	227
COAL OR COKE	17	2	4	4	6	-	-	-	-	-	1	...
WOOD	23	6	4	4	-	-	3	-	-	-	7	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	35	10	5	7	3	5	-	-	2	-	4	...
NONE	9	4	-	2	-	2	2	-	-	-	1	...
WATER HEATING FUEL												
NO HOT PIPED WATER	39	11	7	5	1	-	-	-	-	-	16	...
WITH HOT PIPED WATER	5 868	474	728	1 326	1 361	892	424	192	141	48	282	210
FUEL USED:												
UTILITY GAS	4 328	329	557	1 013	1 024	652	333	139	104	34	143	209
BOTTLED, TANK, OR LP GAS	153	10	33	27	31	16	4	4	-	1	27	186
FUEL OIL	68	4	6	21	15	16	3	3	-	-	-	209
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 271	116	124	253	287	202	84	45	36	13	111	215
COAL OR COKE	13	3	5	1	2	2	-	-	-	-	-	...
WOOD	-	-	-	-	-	-	-	-	-	-	-	-
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	11	4	6	3	2	-	-	-	-	-	...
NONE	7	-	-	3	-	3	-	-	-	-	1	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	3 215	263	495	847	747	413	204	78	55	18	94	196
BOTTLED, TANK, OR LP GAS	227	22	42	52	38	15	5	3	-	-	51	172
FUEL OIL	3	-	2	1	-	-	-	-	-	-	1	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 418	176	190	423	574	464	215	111	85	30	150	229
COAL OR COKE	1	-	1	-	-	-	-	-	-	-	-	...
WOOD	3	1	-	-	-	-	-	-	-	-	2	...
OTHER FUEL	1	-	-	1	-	-	-	-	-	-	-	...
NONE	39	22	5	8	3	-	-	-	-	-	1	100-
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	547	62	96	163	130	63	15	4	2	2	10	183
$10 TO $19	1 668	95	238	441	415	284	87	34	21	5	48	204
$20 TO $29	1 215	39	111	280	349	203	99	50	31	7	46	222
$30 TO $39	762	11	50	128	180	151	113	32	33	10	54	245
$40 TO $49	343	6	20	45	90	78	34	25	16	5	24	248
$50 TO $59	171	5	9	19	28	40	21	10	19	2	18	270
$60 TO $79	121	-	2	7	28	28	18	18	8	5	7	284
$80 TO $99	31	-	3	2	2	3	13	1	2	3	2	...
$100 TO $149	23	-	2	-	1	1	5	2	4	5	2	...
$150 OR MORE	3	-	-	-	-	-	-	-	-	2	1	...
INCLUDED IN RENT	1 012	267	201	244	136	39	19	13	5	3	87	148
NO ELECTRICITY USED	12	-	4	3	3	-	-	2	-	-	-	...
MEDIAN	22	14	16	18	22	24	30	29	34	39	30	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	528	24	62	160	132	68	32	14	8	6	22	203
$10 TO $14	293	18	40	84	75	41	21	2	3	1	7	201
$15 TO $19	263	13	37	90	57	21	16	5	8	1	14	190
$20 TO $24	272	19	41	67	60	33	17	9	8	2	18	200
$25 TO $29	266	2	46	66	81	27	20	5	8	-	11	208
$30 TO $39	499	11	90	106	133	57	42	15	10	6	31	210
$40 TO $49	354	4	37	84	90	55	27	19	10	9	19	223
$50 TO $69	323	1	17	65	105	57	22	11	18	6	21	232
$70 TO $99	108	-	1	14	31	24	18	5	2	3	10	258
$100 OR MORE	55	-	-	-	3	14	16	11	2	1	7	319
INCLUDED IN RENT	2 208	319	303	455	424	356	138	66	42	6	99	197
NO GAS USED	739	72	60	142	172	139	56	29	20	6	42	221
MEDIAN	27	16	25	22	28	31	32	37	33	41	32	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	68	3	6	13	13	11	8	7	1	2	5	239
$100 TO $199	15	2	3	1	1	2	1	-	-	1	5	...
$200 TO $299	27	2	1	3	10	1	-	4	2	-	5	...
$300 TO $399	43	2	5	9	7	5	1	1	1	-	12	...
$400 TO $499	45	-	5	14	14	4	1	-	1	1	7	202
$500 TO $599	28	-	2	10	10	3	-	-	-	-	3	...
$600 TO $699	46	1	3	5	6	9	8	2	2	-	10	268
$700 TO $799	18	-	1	2	5	1	3	3	-	-	3	...
$800 OR MORE	80	-	2	10	16	23	12	1	2	2	14	262
INCLUDED IN RENT	621	75	98	135	145	79	27	20	16	3	23	196
FUELS NOT USED OR FREE	4 917	399	610	1 129	1 136	756	364	155	117	40	211	209
MEDIAN	471	...	...	452	472	645	...	...	...	...	478	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 104	152	317	652	740	522	269	123	100	36	193	222
HEAT PUMP	16	1	-	1	4	3	3	3	1	1	-	...
STEAM OR HOT WATER	1 619	178	187	405	376	265	99	44	28	6	30	203
BUILT-IN ELECTRIC UNITS	447	66	37	84	125	68	27	15	10	3	11	212
FLOOR, WALL, OR PIPELESS FURNACE	187	23	32	50	46	13	7	3	-	2	9	182
ROOM HEATERS WITH FLUE	436	50	134	121	58	20	11	3	1	-	37	156
ROOM HEATERS WITHOUT FLUE	35	2	12	10	7	-	2	-	-	-	3	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	54	8	15	7	6	-	4	-	-	-	14	140
NONE	9	4	-	2	-	2	2	-	-	-	1	...

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

TABLE C-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	9	4	-	2	-	2	2	-	-	-	1	...
WITH HEATING EQUIPMENT	5 898	480	735	1 330	1 362	890	422	192	141	48	297	209
NO THERMOSTAT CONTROL	1 609	232	338	479	309	114	49	23	16	3	44	172
WITH THERMOSTAT CONTROL	4 275	246	394	851	1 053	775	371	167	121	45	252	224
NOT CLOCK OPERATED	3 984	232	368	792	966	736	351	159	108	40	233	225
CONSTANT TEMPERATURE SETTING MAINTAINED	1 594	120	173	332	352	296	144	46	33	10	89	218
TEMPERATURE SETTING IS CHANGED	2 343	108	195	450	598	433	201	112	73	31	143	228
OCCASIONALLY	774	41	65	138	210	138	70	33	24	7	47	228
REGULARLY	1 519	64	123	304	371	287	128	77	46	23	96	229
DON'T KNOW	49	2	7	6	16	9	3	2	3	-	-	228
NOT REPORTED	2	-	1	2	-	-	-	-	-	-	-	...
NOT REPORTED	47	5	-	9	16	7	6	-	2	-	2	227
CLOCK OPERATED	286	14	25	59	84	37	21	9	13	5	19	221
NOT REPORTED	5	-	-	-	3	2	-	-	-	-	-	...
NOT REPORTED	14	2	3	-	-	2	2	1	3	-	2	...
SPECIFIED RENTER OCCUPIED[1]	5 907	484	735	1 331	1 362	892	424	192	141	48	298	209
UNITS OCCUPIED LAST WINTER	4 007	393	561	917	887	542	245	111	70	28	253	200
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 935	382	540	901	883	542	240	111	70	28	239	201
NO ADDITIONAL HEAT SOURCE USED	3 336	328	433	741	754	467	221	108	55	26	203	204
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	518	51	88	140	116	66	16	3	8	1	27	187
NOT REPORTED	82	3	18	19	13	9	3	-	7	-	9	188
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	72	10	21	17	5	-	5	-	-	-	14	144
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 935	382	540	901	883	542	240	111	70	28	239	201
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 201	334	352	696	755	485	214	106	61	26	172	209
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	653	45	171	183	114	51	22	5	2	2	59	172
1 ROOM	289	14	79	83	50	32	10	2	2	-	19	175
2 ROOMS	188	18	58	51	27	8	7	-	-	2	18	159
3 ROOMS OR MORE	176	14	34	49	37	11	5	3	-	-	23	179
NOT REPORTED	82	3	17	22	14	7	4	-	7	-	8	187
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	72	10	21	17	5	-	5	-	-	-	14	144
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 935	382	540	901	883	542	240	111	70	28	239	201
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	72	10	21	17	5	-	5	-	-	-	14	144
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	49	7	18	10	4	-	-	-	-	-	11	134
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	10	2	1	3	1	-	2	-	-	-	2	...
NOT REPORTED	12	2	2	4	-	-	3	-	-	-	1	...
SPECIFIED RENTER OCCUPIED[1]	5 907	484	735	1 331	1 362	892	424	192	141	48	298	209
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	64	12	15	9	6	2	6	-	-	-	15	141
WITH SELECTED HEATING EQUIPMENT[3]	5 844	472	720	1 323	1 356	890	418	192	141	48	284	210
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 619	459	685	1 259	1 307	863	412	184	136	46	268	210
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	193	11	30	58	39	26	3	6	2	2	15	190
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	1	-
STOVE, BURNING WOOD OR COAL	33	1	7	10	5	4	-	2	-	-	5	...
FIREPLACE, BURNING WOOD OR COAL	1	-	-	-	-	1	-	-	-	-	-	...
PORTABLE ELECTRIC HEATER	124	9	21	38	27	14	-	5	2	2	6	187
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	6	2	-	-	2	2	-	-	-	-	-	...
OTHER	28	-	2	9	6	6	2	-	-	-	3	...
NOT REPORTED	4	-	-	2	1	-	2	-	-	-	-	...
NOT REPORTED	32	2	6	5	10	2	3	1	3	-	-	...
AIR CONDITIONING												
WITH AIR CONDITIONING	2 945	141	239	522	738	596	293	144	106	40	125	234
ROOM UNITS	1 996	113	212	442	530	358	147	67	34	10	83	218
1	1 673	108	189	377	451	314	107	44	16	8	60	214
2	281	5	17	62	75	39	30	18	17	2	15	232
3	35	-	5	3	5	5	8	2	-	-	7	...
4	5	-	-	-	-	-	2	2	2	-	-	...
5 OR MORE	3	-	-	-	-	-	2	2	-	-	-	...
CENTRAL SYSTEM	948	28	28	80	208	237	145	77	72	30	43	272
WITH NO AIR CONDITIONING	2 963	343	495	810	624	296	131	47	34	8	173	184

[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: 1979--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]	5 907	484	735	1 331	1 362	892	424	192	141	48	298	209
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 812	67	230	361	386	230	131	80	69	26	232	217
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 083	31	126	189	224	149	81	56	47	17	165	225
SOME WINDOWS COVERED	358	10	50	73	96	47	22	12	4	2	42	213
NO WINDOWS COVERED	267	15	40	79	45	25	19	7	12	5	19	192
NOT REPORTED	104	11	14	20	21	10	10	6	7	2	6	212
STORM DOORS												
ALL DOORS COVERED	1 072	31	126	188	222	157	86	47	38	10	167	224
SOME DOORS COVERED	261	5	36	65	62	27	16	13	6	6	25	209
NO DOORS COVERED	374	20	54	88	81	37	20	15	18	7	34	205
NOT REPORTED	106	11	14	20	21	10	10	6	7	2	7	211
ATTIC OR ROOF INSULATION												
YES	999	26	118	178	205	120	79	55	37	17	165	223
NO	298	11	58	74	59	32	11	10	3	2	38	191
DON'T KNOW	407	19	40	89	100	68	31	10	23	5	22	222
NOT REPORTED	108	11	14	20	21	10	10	6	7	2	8	211

[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: 1979

(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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	20 565	14 962	2 473	723	732	958	717
HOUSE HEATING FUEL							
OWNER OCCUPIED	14 458	13 065	617	54	25	96	603
UTILITY GAS	10 051	9 187	515	46	17	53	233
BOTTLED, TANK, OR LP GAS	1 039	843	9	-	2	-	185
FUEL OIL	2 030	1 842	68	-	2	5	113
KEROSENE, ETC	5	5	-	-	-	-	-
ELECTRICITY	1 184	1 041	24	8	3	38	69
COAL OR COKE	42	42	-	-	-	-	-
WOOD	97	94	1	-	-	-	2
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	7	7	-	-	-	-	-
NONE	2	2	-	-	-	-	-
RENTER OCCUPIED	6 106	1 897	1 856	669	708	862	114
UTILITY GAS	4 377	1 239	1 528	501	466	589	54
BOTTLED, TANK, OR LP GAS	257	200	16	-	1	3	38
FUEL OIL	688	306	164	48	66	90	15
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	681	106	141	109	168	151	6
COAL OR COKE	22	12	4	3	-	3	-
WOOD	37	34	-	-	2	-	1
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	35	-	-	7	3	25	-
NONE	9	1	3	2	2	2	1
WATER HEATING FUEL							
OWNER OCCUPIED	14 458	13 065	617	54	25	96	603
NO HOT PIPED WATER	79	73	-	-	-	-	6
WITH HOT PIPED WATER	14 379	12 992	617	54	25	96	596
FUEL USED:							
UTILITY GAS	9 365	8 516	554	46	19	60	171
BOTTLED, TANK, OR LP GAS	848	699	5	-	2	-	142
FUEL OIL	138	136	1	-	-	-	2
KEROSENE, ETC	1	1	-	-	-	-	-
ELECTRICITY	4 010	3 624	58	8	3	36	281
COAL OR COKE	2	2	-	-	-	-	-
WOOD	7	7	-	-	-	-	-
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	4	3	-	-	-	-	1
NONE	2	2	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	6 106	1 897	1 856	669	708	862	114
NO HOT PIPED WATER	46	39	2	2	1	-	1
WITH HOT PIPED WATER	6 060	1 858	1 854	667	706	862	113
FUEL USED:							
UTILITY GAS	4 346	1 113	1 548	514	499	637	35
BOTTLED, TANK, OR LP GAS	198	151	12	2	-	8	26
FUEL OIL	73	13	24	11	11	14	-
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 396	580	266	133	191	176	51
COAL OR COKE	13	-	-	1	-	11	-
WOOD	1	1	-	-	-	-	-
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	27	1	5	3	5	13	-
NONE	7	-	-	3	-	3	1
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	14 458	13 065	617	54	25	96	603
UTILITY GAS	5 734	5 013	436	33	8	31	213
BOTTLED, TANK, OR LP GAS	1 046	798	5	-	2	-	241
FUEL OIL	7	5	1	-	-	-	1
KEROSENE, ETC	4	4	-	-	-	-	-
ELECTRICITY	7 632	7 209	175	21	14	65	147
COAL OR COKE	4	4	-	-	-	-	-
WOOD	25	25	-	-	-	-	-
OTHER FUEL	3	2	-	-	-	-	1
NONE	4	4	-	-	-	-	-
RENTER OCCUPIED	6 106	1 897	1 856	669	708	862	114
UTILITY GAS	3 224	793	1 265	381	306	431	48
BOTTLED, TANK, OR LP GAS	286	212	20	2	1	1	50
FUEL OIL	4	2	2	-	-	-	-
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	2 548	882	566	278	396	410	16
COAL OR COKE	1	1	-	-	-	-	-
WOOD	4	4	-	-	-	-	-
OTHER FUEL	1	-	1	-	-	-	-
NONE	39	4	3	8	4	20	-

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1979--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	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]	11 580	11 580	NA	NA	NA	NA	NA
LESS THAN $10	115	115	NA	NA	NA	NA	NA
$10 TO $19	1 310	1 310	NA	NA	NA	NA	NA
$20 TO $29	2 778	2 778	NA	NA	NA	NA	NA
$30 TO $39	2 710	2 710	NA	NA	NA	NA	NA
$40 TO $49	1 779	1 779	NA	NA	NA	NA	NA
$50 TO $59	1 231	1 231	NA	NA	NA	NA	NA
$60 TO $79	992	992	NA	NA	NA	NA	NA
$80 TO $99	297	297	NA	NA	NA	NA	NA
$100 TO $149	290	290	NA	NA	NA	NA	NA
$150 OR MORE	74	74	NA	NA	NA	NA	NA
NO ELECTRICITY USED	3	3	NA	NA	NA	NA	NA
MEDIAN	35	35	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	5 907	1 698	1 856	669	708	862	114
LESS THAN $10	547	62	166	82	119	116	2
$10 TO $19	1 668	375	585	184	222	272	30
$20 TO $29	1 215	431	406	99	133	113	32
$30 TO $39	762	328	197	86	86	51	14
$40 TO $49	343	171	83	29	34	24	2
$50 TO $59	171	95	34	12	14	13	4
$60 TO $79	121	65	25	14	8	2	7
$80 TO $99	31	14	9	5	2	1	-
$100 TO $149	23	14	3	3	2	-	-
$150 OR MORE	3	2	2	-	-	-	-
INCLUDED IN RENT	1 012	139	342	153	87	267	23
NO ELECTRICITY USED	12	3	4	3	-	2	-
MEDIAN	22	27	20	19	18	16	24
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	11 580	11 580	NA	NA	NA	NA	NA
LESS THAN $10	329	329	NA	NA	NA	NA	NA
$10 TO $14	256	256	NA	NA	NA	NA	NA
$15 TO $19	365	365	NA	NA	NA	NA	NA
$20 TO $24	634	634	NA	NA	NA	NA	NA
$25 TO $29	815	815	NA	NA	NA	NA	NA
$30 TO $39	2 531	2 531	NA	NA	NA	NA	NA
$40 TO $49	2 145	2 145	NA	NA	NA	NA	NA
$50 TO $69	2 144	2 144	NA	NA	NA	NA	NA
$70 TO $99	538	538	NA	NA	NA	NA	NA
$100 OR MORE	179	179	NA	NA	NA	NA	NA
NO GAS USED	1 642	1 642	NA	NA	NA	NA	NA
MEDIAN	40	40	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	5 907	1 698	1 856	669	708	862	114
LESS THAN $10	528	102	182	97	75	60	11
$10 TO $14	293	69	126	36	25	24	12
$15 TO $19	263	93	104	24	13	15	15
$20 TO $24	272	118	108	19	6	11	11
$25 TO $29	266	118	117	9	9	2	9
$30 TO $39	499	240	211	21	12	7	8
$40 TO $49	354	208	125	10	6	3	3
$50 TO $69	323	201	102	10	2	-	8
$70 TO $99	108	79	22	2	-	-	6
$100 OR MORE	55	35	16	3	-	-	1
INCLUDED IN RENT	2 208	218	600	354	412	603	22
NO GAS USED	739	219	143	85	147	136	9
MEDIAN	27	35	26	12	10-	10	21
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	11 580	11 580	NA	NA	NA	NA	NA
LESS THAN $100	345	345	NA	NA	NA	NA	NA
$100 TO $199	167	167	NA	NA	NA	NA	NA
$200 TO $299	107	107	NA	NA	NA	NA	NA
$300 TO $399	223	223	NA	NA	NA	NA	NA
$400 TO $499	282	282	NA	NA	NA	NA	NA
$500 TO $599	233	233	NA	NA	NA	NA	NA
$600 TO $699	216	216	NA	NA	NA	NA	NA
$700 TO $799	122	122	NA	NA	NA	NA	NA
$800 OR MORE	237	237	NA	NA	NA	NA	NA
FUELS NOT USED OR FREE	9 647	9 647	NA	NA	NA	NA	NA
MEDIAN	443	443	NA	NA	NA	NA	NA

[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: 1979--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	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.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	5 907	1 698	1 856	669	708	862	114
LESS THAN $100	68	34	14	12	5	2	1
$100 TO $199	15	11	-	-	-	-	4
$200 TO $299	27	15	9	1	-	-	1
$300 TO $399	43	32	6	-	-	-	5
$400 TO $499	45	40	1	-	-	-	4
$500 TO $599	28	26	2	-	-	-	-
$600 TO $699	46	39	6	-	-	-	-
$700 TO $799	18	17	-	2	-	-	-
$800 OR MORE	80	67	12	2	-	-	-
INCLUDED IN RENT	621	94	209	78	101	131	7
FUELS NOT USED OR FREE	4 917	1 324	1 597	574	602	729	91
MEDIAN	471	532	335	...	...	...	...
ALL OCCUPIED HOUSING UNITS	20 565	14 962	2 473	723	732	958	717
HEATING EQUIPMENT							
OWNER OCCUPIED	14 458	13 065	617	54	25	96	603
WARM-AIR FURNACE	11 260	10 264	374	43	8	29	541
HEAT PUMP	176	173	2	-	-	-	1
STEAM OR HOT WATER	1 249	1 014	184	5	11	34	1
BUILT-IN ELECTRIC UNITS	648	576	12	3	3	33	20
FLOOR, WALL, OR PIPELESS FURNACE	323	294	6	-	2	-	20
ROOM HEATERS WITH FLUE	572	525	37	2	-	-	9
ROOM HEATERS WITHOUT FLUE	22	19	1	-	-	-	2
FIREPLACES, STOVES, OR PORTABLE HEATERS	208	199	1	-	-	-	9
NONE	2	2	-	-	-	-	-
RENTER OCCUPIED	6 106	1 897	1 856	669	708	862	114
WARM-AIR FURNACE	3 227	1 262	1 064	284	266	250	100
HEAT PUMP	16	5	2	2	6	2	-
STEAM OR HOT WATER	1 633	127	441	254	324	487	1
BUILT-IN ELECTRIC UNITS	454	73	87	77	102	114	1
FLOOR, WALL, OR PIPELESS FURNACE	194	99	67	12	3	7	6
ROOM HEATERS WITH FLUE	463	251	172	35	2	-	4
ROOM HEATERS WITHOUT FLUE	36	16	18	2	-	-	-
FIREPLACES, STOVES, OR PORTABLE HEATERS	74	65	2	3	2	-	1
NONE	9	1	3	2	2	2	1
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	14 458	13 065	617	54	25	96	603
NO HEATING EQUIPMENT	2	2	-	-	-	-	-
WITH HEATING EQUIPMENT	14 457	13 063	617	54	25	96	603
NO THERMOSTAT CONTROL	589	501	46	-	-	33	9
WITH THERMOSTAT CONTROL	13 830	12 526	569	54	25	63	593
NOT CLOCK OPERATED	12 664	11 483	504	50	21	58	548
CONSTANT TEMPERATURE SETTING MAINTAINED	4 881	4 411	219	14	11	17	209
TEMPERATURE SETTING IS CHANGED	7 736	7 033	284	36	9	39	334
OCCASIONALLY	2 090	1 904	80	17	-	10	78
REGULARLY	5 574	5 065	203	18	9	26	253
DON'T KNOW	60	52	-	2	-	4	3
NOT REPORTED	12	12	-	-	-	-	-
NOT REPORTED	47	40	2	-	-	2	4
CLOCK OPERATED	1 161	1 041	64	3	3	3	46
NOT REPORTED	5	2	-	-	2	2	-
NOT REPORTED	39	36	2	-	-	-	1
RENTER OCCUPIED	6 106	1 897	1 856	669	708	862	114
NO HEATING EQUIPMENT	9	1	3	2	2	2	1
WITH HEATING EQUIPMENT	6 097	1 896	1 853	668	706	860	114
NO THERMOSTAT CONTROL	1 646	263	580	223	194	383	3
WITH THERMOSTAT CONTROL	4 436	1 630	1 270	443	507	476	111
NOT CLOCK OPERATED	4 134	1 506	1 175	409	483	456	105
CONSTANT TEMPERATURE SETTING MAINTAINED	1 654	611	474	157	178	195	39
TEMPERATURE SETTING IS CHANGED	2 432	880	689	245	299	254	65
OCCASIONALLY	793	248	235	79	106	105	20
REGULARLY	1 586	611	433	163	190	144	45
DON'T KNOW	50	21	19	3	3	5	-
NOT REPORTED	2	1	2	-	-	-	-
NOT REPORTED	47	15	12	7	6	6	1
CLOCK OPERATED	297	123	93	32	22	20	6
NOT REPORTED	5	-	2	2	2	-	-
NOT REPORTED	15	4	3	1	5	1	-

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	20 565	14 962	2 473	723	732	958	717
UNITS OCCUPIED LAST WINTER	17 604	13 550	1 897	481	476	644	557
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	13 432	12 206	575	50	20	82	499
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	12 000	573	50	20	82	489
NO ADDITIONAL HEAT SOURCE USED	12 081	10 968	525	49	19	77	443
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	909	823	43	2	-	3	38
NOT REPORTED	224	209	5	-	1	2	8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	207	2	-	-	-	10
RENTER OCCUPIED	4 172	1 344	1 322	431	456	562	58
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	1 285	1 303	426	454	562	58
NO ADDITIONAL HEAT SOURCE USED	3 463	1 076	1 108	374	393	463	49
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	180	167	48	50	85	7
NOT REPORTED	88	28	28	4	11	14	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	59	19	5	2	-	1
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	13 432	12 206	575	50	20	82	499
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	12 000	573	50	20	82	489
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 098	10 019	472	45	19	74	470
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 902	1 778	100	5	-	9	10
1 ROOM	721	662	43	5	-	3	7
2 ROOMS	525	488	31	-	-	4	3
3 ROOMS OR MORE	657	628	26	-	-	2	1
NOT REPORTED	213	202	2	-	1	-	9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	207	2	-	-	-	10
RENTER OCCUPIED	4 172	1 344	1 322	431	456	562	58
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	1 285	1 303	426	454	562	58
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 286	884	1 035	382	422	508	54
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	713	369	240	41	21	41	1
1 ROOM	302	106	116	26	16	38	1
2 ROOMS	206	118	72	10	4	2	-
3 ROOMS OR MORE	205	145	52	5	-	2	-
NOT REPORTED	88	31	28	2	11	13	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	59	19	5	2	-	1
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	13 432	12 206	575	50	20	82	499
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	12 000	573	50	20	82	489
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	207	2	-	-	-	10
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	176	166	2	-	-	-	8
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	24	-	-	-	-	1
NOT REPORTED	18	17	-	-	-	-	1
RENTER OCCUPIED	4 172	1 344	1 322	431	456	562	58
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	1 285	1 303	426	454	562	58
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	59	19	5	2	-	1
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	59	46	10	2	2	-	1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	13	11	-	2	-	-	-
NOT REPORTED	13	2	9	2	-	-	-

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	20 565	14 962	2 473	723	732	958	717
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	14 458	13 065	617	54	25	96	603
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	210	200	1	-	-	-	9
WITH SELECTED HEATING EQUIPMENT[1]	14 249	12 864	616	54	25	96	594
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 455	12 128	591	52	25	94	566
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	733	680	24	2	-	-	28
SOLAR HEATING EQUIPMENT	3	3	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	329	319	3	-	-	-	6
FIREPLACE, BURNING WOOD OR COAL	97	86	6	-	-	-	5
PORTABLE ELECTRIC HEATER	135	113	7	2	-	-	13
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	33	31	-	-	-	-	3
OTHER	133	126	6	-	-	-	1
NOT REPORTED	14	13	2	-	-	-	-
NOT REPORTED	61	57	2	-	-	2	1
RENTER OCCUPIED	6 106	1 897	1 856	669	708	862	114
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	83	65	6	5	4	2	2
WITH SELECTED HEATING EQUIPMENT[1]	6 023	1 832	1 851	665	704	860	112
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 782	1 734	1 779	647	684	829	109
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	89	60	16	13	28	2
SOLAR HEATING EQUIPMENT	1	1	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	42	24	11	2	1	3	-
FIREPLACE, BURNING WOOD OR COAL	2	2	-	-	-	-	-
PORTABLE ELECTRIC HEATER	127	43	37	11	12	21	2
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	2	3	-	2	-	-
OTHER	29	14	7	5	-	3	-
NOT REPORTED	4	2	2	-	-	-	-
NOT REPORTED	34	9	12	1	7	3	1
AIR CONDITIONING							
OWNER OCCUPIED	14 458	13 065	617	54	25	96	603
WITH AIR CONDITIONING	8 577	7 734	349	47	21	87	340
ROOM UNITS	4 255	3 742	257	15	15	26	200
1	2 924	2 557	178	10	12	5	162
2	1 034	922	65	5	-	9	33
3	229	201	12	-	3	7	6
4	50	45	-	-	-	5	-
5 OR MORE	18	16	2	-	-	-	-
CENTRAL SYSTEM	4 322	3 992	92	32	5	61	139
WITH NO AIR CONDITIONING	5 881	5 331	268	7	4	9	263
RENTER OCCUPIED	6 106	1 897	1 856	669	708	862	114
WITH AIR CONDITIONING	3 016	753	744	379	512	569	60
ROOM UNITS	2 056	537	562	234	307	372	43
1	1 715	421	460	211	264	319	38
2	295	96	88	19	37	51	5
3	38	16	12	3	6	-	-
4	6	2	-	2	-	2	-
5 OR MORE	3	2	2	-	-	-	-
CENTRAL SYSTEM	960	216	181	145	204	196	16
WITH NO AIR CONDITIONING	3 090	1 144	1 112	290	196	293	55

[1]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: 1979

(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	20 565	178	440	1 564	3 577	5 146	4 574	5 087	5.4
HOUSE HEATING FUEL									
OWNER OCCUPIED	14 458	25	69	217	1 659	3 947	3 924	4 619	5.8
UTILITY GAS	10 051	15	39	115	1 063	2 824	2 845	3 150	5.8
BOTTLED, TANK, OR LP GAS	1 039	3	9	32	190	308	221	277	5.4
FUEL OIL	2 030	2	15	42	244	510	524	693	5.9
KEROSENE, ETC	5	-	-	-	2	2	1	-	...
ELECTRICITY	1 184	2	3	21	132	270	296	460	6.0
COAL OR COKE	42	-	-	-	7	9	11	15	6.0
WOOD	97	2	2	6	22	24	24	17	5.2
SOLAR HEAT	2	-	-	-	-	-	1	1	...
OTHER FUEL	7	-	-	-	-	-	2	5	...
NONE	2	-	-	-	-	1	1	-	...
RENTER OCCUPIED	6 106	153	371	1 347	1 918	1 199	650	468	4.1
UTILITY GAS	4 377	108	260	952	1 383	921	480	273	4.1
BOTTLED, TANK, OR LP GAS	257	1	6	26	65	63	42	55	5.0
FUEL OIL	688	16	42	128	176	133	85	110	4.4
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	681	18	53	218	272	67	30	23	3.7
COAL OR COKE	22	3	-	4	2	7	2	3	...
WOOD	37	1	2	6	8	8	8	5	4.8
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	35	8	6	12	10	-	-	-	2.8
NONE	9	-	4	2	2	-	2	-	...
WATER HEATING FUEL									
OWNER OCCUPIED	14 458	25	69	217	1 659	3 947	3 924	4 619	5.8
NO HOT PIPED WATER	79	4	5	15	18	16	10	11	4.4
WITH HOT PIPED WATER	14 379	21	64	202	1 640	3 931	3 914	4 607	5.8
FUEL USED:									
UTILITY GAS	9 365	12	40	104	931	2 652	2 683	2 942	5.8
BOTTLED, TANK, OR LP GAS	848	3	8	24	162	258	183	210	5.4
FUEL OIL	138	-	-	1	5	31	36	65	6.4
KEROSENE, ETC	1	-	-	-	-	-	1	-	...
ELECTRICITY	4 010	5	16	73	540	987	1 006	1 382	5.9
COAL OR COKE	2	-	-	-	-	-	-	2	...
WOOD	7	-	-	-	1	2	2	2	...
SOLAR HEAT	2	-	-	-	-	-	1	1	...
OTHER FUEL	4	-	-	-	1	-	-	3	...
NONE	2	-	-	-	-	1	2	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 106	153	371	1 347	1 918	1 199	650	468	4.1
NO HOT PIPED WATER	46	7	5	6	12	8	5	3	3.9
WITH HOT PIPED WATER	6 060	147	366	1 340	1 906	1 191	645	465	4.1
FUEL USED:									
UTILITY GAS	4 346	102	281	988	1 356	916	454	250	4.1
BOTTLED, TANK, OR LP GAS	198	6	6	18	44	50	35	40	5.0
FUEL OIL	73	8	8	15	19	11	4	7	3.8
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 396	19	68	302	476	212	152	167	4.1
COAL OR COKE	13	3	-	7	2	1	-	-	...
WOOD	1	-	-	-	-	-	-	1	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	27	8	2	9	7	1	-	-	...
NONE	7	-	2	3	2	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED	14 458	25	69	217	1 659	3 947	3 924	4 619	5.8
UTILITY GAS	5 734	4	27	87	754	1 778	1 640	1 444	5.6
BOTTLED, TANK, OR LP GAS	1 046	5	13	45	230	297	209	247	5.3
FUEL OIL	7	-	-	1	-	1	3	2	...
KEROSENE, ETC	4	-	-	-	1	-	1	2	...
ELECTRICITY	7 632	14	28	82	666	1 863	2 067	2 912	6.1
COAL OR COKE	4	-	-	-	-	1	2	2	...
WOOD	25	1	1	2	7	6	2	7	...
OTHER FUEL	3	-	-	-	1	-	-	2	...
NONE	4	1	-	1	-	2	1	-	...
RENTER OCCUPIED	6 106	153	371	1 347	1 918	1 199	650	468	4.1
UTILITY GAS	3 224	67	236	724	967	709	343	178	4.1
BOTTLED, TANK, OR LP GAS	286	2	10	30	82	68	41	52	4.8
FUEL OIL	4	-	-	2	-	-	-	2	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 548	57	120	587	866	419	265	235	4.1
COAL OR COKE	1	-	-	-	-	-	-	1	...
WOOD	4	-	-	2	1	1	-	1	...
OTHER FUEL	1	-	-	-	-	1	-	-	...
NONE	39	28	5	2	2	1	2	-	1.5-

TABLE C-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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]	11 580	21	48	98	1 055	3 177	3 337	3 844	5.9
LESS THAN $10	115	1	2	15	23	27	32	15	5.1
$10 TO $19	1 310	-	9	32	214	464	346	245	5.4
$20 TO $29	2 778	5	9	29	363	920	789	662	5.6
$30 TO $39	2 710	2	12	9	228	794	841	824	5.9
$40 TO $49	1 779	5	5	6	97	413	545	709	6.2
$50 TO $59	1 231	4	5	2	49	267	375	529	6.3
$60 TO $79	992	1	3	1	62	201	253	471	6.4
$80 TO $99	297	-	2	2	11	63	76	144	6.4
$100 TO $149	290	-	-	1	6	29	68	186	6.5+
$150 OR MORE	74	-	-	1	1	-	12	60	6.5+
NO ELECTRICITY USED	3	2	-	-	-	-	1	1	...
MEDIAN	35	...	33	21	27	32	35	42	...
SPECIFIED RENTER OCCUPIED[2]	5 907	153	368	1 344	1 893	1 169	595	384	4.1
LESS THAN $10	547	8	59	207	167	80	18	8	3.5
$10 TO $19	1 668	15	75	457	611	334	121	54	4.0
$20 TO $29	1 215	-	25	229	427	309	157	69	4.3
$30 TO $39	762	2	22	84	237	186	128	103	4.7
$40 TO $49	343	3	3	32	116	87	61	40	4.7
$50 TO $59	171	-	3	23	53	34	26	32	4.7
$60 TO $79	121	-	-	4	43	38	17	19	4.8
$80 TO $99	31	-	-	1	4	10	9	6	...
$100 TO $149	23	-	-	2	10	1	6	3	...
$150 OR MORE	3	-	-	-	-	-	3	-	...
INCLUDED IN RENT	1 012	125	178	299	224	89	47	50	3.2
NO ELECTRICITY USED	12	-	2	5	2	2	2	-	...
MEDIAN	22	...	14	16	21	24	28	33	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	11 580	21	48	98	1 055	3 177	3 337	3 844	5.9
LESS THAN $10	329	2	2	8	36	98	87	96	5.7
$10 TO $14	256	2	-	12	28	73	82	59	5.6
$15 TO $19	365	-	5	8	62	120	93	78	5.4
$20 TO $24	634	3	7	18	110	188	165	144	5.4
$25 TO $29	815	1	3	5	131	295	224	157	5.4
$30 TO $39	2 531	2	7	15	251	840	762	654	5.7
$40 TO $49	2 145	6	8	6	151	583	695	697	5.9
$50 TO $69	2 144	3	9	8	105	458	588	974	6.3
$70 TO $99	538	-	-	1	20	85	147	285	6.5+
$100 OR MORE	179	-	-	-	8	22	40	109	6.5+
NO GAS USED	1 642	2	7	19	154	415	454	591	6.0
MEDIAN	40	...	35	23	33	36	40	46	...
SPECIFIED RENTER OCCUPIED[2]	5 907	153	368	1 344	1 893	1 169	595	384	4.1
LESS THAN $10	528	5	35	117	199	98	45	27	4.0
$10 TO $14	293	2	8	59	117	67	25	15	4.2
$15 TO $19	263	-	17	50	85	58	35	17	4.3
$20 TO $24	272	-	11	48	109	70	24	11	4.2
$25 TO $29	266	2	-	56	91	67	36	15	4.3
$30 TO $39	499	-	6	65	164	164	67	33	4.6
$40 TO $49	354	1	2	20	91	123	78	40	5.0
$50 TO $69	323	2	-	25	68	84	88	56	5.3
$70 TO $99	108	-	-	1	26	24	24	33	5.6
$100 OR MORE	55	1	-	-	9	12	20	13	5.8
INCLUDED IN RENT	2 208	115	253	702	669	305	96	67	3.5
NO GAS USED	739	26	36	201	265	98	57	56	3.9
MEDIAN	27	...	12	18	23	31	37	43	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	11 580	21	48	98	1 055	3 177	3 337	3 844	5.9
LESS THAN $100	345	-	2	1	20	50	96	177	6.5+
$100 TO $199	167	-	-	2	14	29	43	79	6.4
$200 TO $299	107	2	2	3	25	25	24	27	5.3
$300 TO $399	223	-	-	2	31	74	75	40	5.5
$400 TO $499	282	-	2	4	37	96	85	58	5.5
$500 TO $599	233	-	-	3	24	73	61	73	5.8
$600 TO $699	216	1	2	5	15	57	58	76	5.9
$700 TO $799	122	-	2	7	9	26	34	45	6.0
$800 OR MORE	237	-	1	2	10	36	66	122	6.5+
FUELS NOT USED OR FREE	9 647	18	37	70	869	2 711	2 795	3 148	5.9
MEDIAN	443	...	...	...	408	458	438	444	...

[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: 1979--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.--CONTINUED									
SPECIFIED RENTER OCCUPIED[1]	5 907	153	368	1 344	1 893	1 169	595	384	4.1
LESS THAN $100	68	1	1	9	20	20	12	5	4.6
$100 TO $199	15	-	1	2	5	1	4	2	...
$200 TO $299	27	-	-	2	10	6	5	5	...
$300 TO $399	43	-	-	7	13	12	6	5	4.6
$400 TO $499	45	-	-	7	14	8	10	7	4.8
$500 TO $599	28	-	1	3	2	9	5	7	...
$600 TO $699	46	-	-	-	6	13	13	14	5.8
$700 TO $799	18	-	-	-	2	7	2	8	...
$800 OR MORE	80	-	1	4	11	24	10	30	5.5
INCLUDED IN RENT	621	46	73	164	169	95	40	33	3.6
FUELS NOT USED OR FREE	4 917	107	291	1 145	1 643	973	489	269	4.0
MEDIAN	471	...	...	...	348	533	469	672	...
ALL OCCUPIED HOUSING UNITS	20 565	178	440	1 564	3 577	5 146	4 574	5 087	5.4
HEATING EQUIPMENT									
OWNER OCCUPIED	14 458	25	69	217	1 659	3 947	3 924	4 619	5.8
WARM-AIR FURNACE	11 260	18	47	133	1 218	3 165	3 137	3 542	5.8
HEAT PUMP	176	-	-	1	9	17	49	100	6.5+
STEAM OR HOT WATER	1 249	-	2	9	109	261	342	526	6.2
BUILT-IN ELECTRIC UNITS	648	1	3	17	73	166	163	226	5.9
FLOOR, WALL, OR PIPELESS FURNACE	323	-	3	9	74	116	69	51	5.1
ROOM HEATERS WITH FLUE	572	2	11	34	126	161	115	124	5.2
ROOM HEATERS WITHOUT FLUE	22	-	-	3	5	7	3	3	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	208	3	4	12	44	53	46	46	5.3
NONE	2	-	-	-	-	1	1	-	...
RENTER OCCUPIED	6 106	153	371	1 347	1 918	1 199	650	468	4.1
WARM-AIR FURNACE	3 227	23	121	567	1 014	751	443	308	4.4
HEAT PUMP	16	-	-	2	10	3	-	2	...
STEAM OR HOT WATER	1 633	103	163	456	483	253	97	79	3.7
BUILT-IN ELECTRIC UNITS	454	18	39	159	174	41	15	8	3.6
FLOOR, WALL, OR PIPELESS FURNACE	194	2	17	50	69	27	13	15	3.9
ROOM HEATERS WITH FLUE	463	6	26	92	135	102	61	41	4.3
ROOM HEATERS WITHOUT FLUE	36	1	-	9	16	7	3	1	4.0
FIREPLACES, STOVES, OR PORTABLE HEATERS	74	1	2	10	15	16	15	16	5.1
NONE	9	-	4	2	2	-	2	-	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED	14 458	25	69	217	1 659	3 947	3 924	4 619	5.8
NO HEATING EQUIPMENT	2	-	-	-	-	1	1	-	...
WITH HEATING EQUIPMENT	14 457	25	69	217	1 659	3 946	3 923	4 619	5.8
NO THERMOSTAT CONTROL	589	4	15	44	132	145	121	127	5.2
WITH THERMOSTAT CONTROL	13 830	20	53	173	1 526	3 782	3 793	4 483	5.8
NOT CLOCK OPERATED	12 664	16	51	159	1 403	3 493	3 476	4 066	5.8
CONSTANT TEMPERATURE SETTING MAINTAINED	4 881	7	18	62	589	1 390	1 307	1 508	5.8
TEMPERATURE SETTING IS CHANGED	7 736	9	33	94	810	2 091	2 155	2 545	5.9
OCCASIONALLY	2 090	3	5	15	209	548	618	692	5.9
REGULARLY	5 574	6	28	73	594	1 524	1 514	1 835	5.9
DON'T KNOW	60	-	-	6	5	16	21	13	5.6
NOT REPORTED	12	-	-	-	2	3	2	4	...
NOT REPORTED	47	-	-	2	4	12	14	14	5.8
CLOCK OPERATED	1 161	4	2	14	123	287	314	416	6.0
NOT REPORTED	5	-	-	-	-	2	3	-	...
NOT REPORTED	39	1	-	-	1	19	9	9	5.4
RENTER OCCUPIED	6 106	153	371	1 347	1 918	1 199	650	468	4.1
NO HEATING EQUIPMENT	9	-	4	2	2	-	2	-	...
WITH HEATING EQUIPMENT	6 097	153	367	1 345	1 916	1 199	648	468	4.1
NO THERMOSTAT CONTROL	1 646	111	216	482	421	227	123	66	3.5
WITH THERMOSTAT CONTROL	4 436	41	151	858	1 491	971	524	400	4.3
NOT CLOCK OPERATED	4 134	41	139	815	1 400	902	469	369	4.3
CONSTANT TEMPERATURE SETTING MAINTAINED	1 654	20	60	360	515	358	182	158	4.2
TEMPERATURE SETTING IS CHANGED	2 432	20	77	442	870	533	282	208	4.3
OCCASIONALLY	793	7	22	163	297	169	83	51	4.2
REGULARLY	1 586	13	55	271	552	354	188	153	4.3
DON'T KNOW	50	-	-	8	21	9	9	3	4.3
NOT REPORTED	2	-	-	-	1	-	2	-	...
NOT REPORTED	47	-	2	12	14	11	5	4	4.2
CLOCK OPERATED	297	-	12	44	88	67	55	31	4.6
NOT REPORTED	5	-	-	-	3	2	-	-	...
NOT REPORTED	15	1	-	5	5	2	-	2	...

[1]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: 1979--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.	20 565	178	440	1 564	3 577	5 146	4 574	5 087	5.4
UNITS OCCUPIED LAST WINTER.	17 604	110	294	1 102	2 779	4 515	4 181	4 622	5.5
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED.	13 432	24	65	190	1 498	3 684	3 704	4 267	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	21	61	176	1 452	3 625	3 658	4 221	5.8
NO ADDITIONAL HEAT SOURCE USED.	12 081	18	51	160	1 346	3 363	3 321	3 822	5.8
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	909	2	10	14	87	203	261	331	6.0
NOT REPORTED.	224	1	-	2	20	59	75	68	5.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE . . .	218	3	4	14	46	59	46	46	5.2
RENTER OCCUPIED	4 172	87	229	912	1 281	831	477	356	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	85	225	899	1 260	814	461	343	4.2
NO ADDITIONAL HEAT SOURCE USED.	3 463	79	186	775	1 082	687	368	286	4.1
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	3	37	106	150	110	82	47	4.3
NOT REPORTED.	88	2	2	17	28	17	12	10	4.3
LACKING SPECIFIED HEATING EQUIPMENT OR NONE . . .	86	2	4	13	21	17	16	12	4.7
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED.	13 432	24	65	190	1 498	3 684	3 704	4 267	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	21	61	176	1 452	3 625	3 658	4 221	5.8
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	11 098	20	43	131	1 235	3 153	3 073	3 443	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 902	-	18	44	199	415	514	713	6.0
1 ROOM.	721	-	18	19	54	133	205	293	6.2
2 ROOMS	525	-	-	25	87	107	151	155	5.8
3 ROOMS OR MORE	657	-	-	-	59	175	158	265	6.1
NOT REPORTED.	213	1	-	2	18	57	70	66	5.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE . . .	218	3	4	14	46	59	46	46	5.2
RENTER OCCUPIED	4 172	87	229	912	1 281	831	477	356	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	85	225	899	1 260	814	461	343	4.2
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 286	85	199	748	1 016	660	352	226	4.1
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	713	-	24	132	214	137	97	109	4.4
1 ROOM.	302	-	24	92	78	45	31	33	3.9
2 ROOMS	206	-	-	39	74	42	22	28	4.4
3 ROOMS OR MORE	205	-	-	-	63	50	44	48	5.3
NOT REPORTED.	88	-	2	19	29	17	12	9	4.3
LACKING SPECIFIED HEATING EQUIPMENT OR NONE . . .	86	2	4	13	21	17	16	12	4.7
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED.	13 432	24	65	190	1 498	3 684	3 704	4 267	5.8
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	21	61	176	1 452	3 625	3 658	4 221	5.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE . . .	218	3	4	14	46	59	46	46	5.2
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	176	2	3	11	36	47	40	35	5.2
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	1	-	2	6	4	5	6	...
NOT REPORTED.	18	-	1	1	3	8	2	4	...
RENTER OCCUPIED	4 172	87	229	912	1 281	831	477	356	4.2
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	85	225	899	1 260	814	461	343	4.2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE . . .	86	2	4	13	21	17	16	12	4.7
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	59	1	4	9	13	11	10	12	4.8
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	13	1	-	1	3	5	2	1	...
NOT REPORTED.	13	-	-	3	6	-	4	-	...

[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: 1979--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	20 565	178	440	1 564	3 577	5 146	4 574	5 087	5.4
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	14 458	25	69	217	1 659	3 947	3 924	4 619	5.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	210	3	4	12	44	54	46	46	5.3
WITH SELECTED HEATING EQUIPMENT[1]	14 249	21	65	205	1 614	3 893	3 877	4 572	5.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 455	20	60	198	1 552	3 721	3 639	4 265	5.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	733	1	3	7	61	156	213	292	6.1
SOLAR HEATING EQUIPMENT	3	-	-	-	-	-	1	2	...
STOVE, BURNING WOOD OR COAL	329	-	-	3	24	66	104	132	6.2
FIREPLACE, BURNING WOOD OR COAL	97	1	1	-	7	18	19	52	6.5+
PORTABLE ELECTRIC HEATER	135	-	2	4	15	34	31	48	5.9
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	33	-	-	-	7	7	9	10	...
OTHER	133	-	-	-	8	28	46	50	6.1
NOT REPORTED	14	-	-	-	-	5	5	5	...
NOT REPORTED	61	1	2	-	2	17	25	15	5.9
RENTER OCCUPIED	6 106	153	371	1 347	1 918	1 199	650	468	4.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	83	1	5	11	17	16	17	16	5.0
WITH SELECTED HEATING EQUIPMENT[1]	6 023	153	366	1 336	1 901	1 183	633	453	4.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 782	148	351	1 299	1 846	1 126	594	417	4.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	3	13	26	48	45	38	34	4.8
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	1	...
STOVE, BURNING WOOD OR COAL	42	2	2	9	5	7	8	9	5.0
FIREPLACE, BURNING WOOD OR COAL	2	-	-	-	-	1	-	2	...
PORTABLE ELECTRIC HEATER	127	2	8	16	40	28	24	9	4.4
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	-	-	-	2	3	1	2	...
OTHER	29	-	3	2	1	9	4	10	...
NOT REPORTED	4	-	-	-	2	-	-	2	...
NOT REPORTED	34	1	2	10	7	11	1	2	...
AIR CONDITIONING									
OWNER OCCUPIED	14 458	25	69	217	1 659	3 947	3 924	4 619	5.8
WITH AIR CONDITIONING	8 577	14	34	104	931	2 310	2 332	2 853	5.9
ROOM UNITS	4 255	7	20	70	617	1 312	1 115	1 114	5.6
1	2 924	4	15	62	472	961	717	693	5.4
2	1 034	1	3	8	116	288	319	301	5.8
3	229	-	1	1	20	56	61	90	6.1
4	50	2	2	-	9	7	12	19	5.9
5 OR MORE	18	-	-	-	-	-	7	11	...
CENTRAL SYSTEM	4 322	7	14	34	314	998	1 217	1 738	6.1
WITH NO AIR CONDITIONING	5 881	11	35	113	728	1 637	1 591	1 766	5.8
RENTER OCCUPIED	6 106	153	371	1 347	1 918	1 199	650	468	4.1
WITH AIR CONDITIONING	3 016	58	148	771	1 055	536	264	185	4.0
ROOM UNITS	2 056	48	113	554	689	360	172	120	3.9
1	1 715	46	111	503	578	262	128	87	3.8
2	295	1	3	47	102	87	35	21	4.4
3	38	-	-	4	9	10	6	9	5.1
4	6	-	-	-	-	2	2	2	...
5 OR MORE	3	-	-	-	-	-	2	2	...
CENTRAL SYSTEM	960	10	35	216	366	176	91	65	4.1
WITH NO AIR CONDITIONING	3 090	96	223	576	863	663	386	283	4.3
ALL OCCUPIED HOUSING UNITS	20 565	178	440	1 564	3 577	5 146	4 574	5 087	5.4
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	15 679	28	97	321	1 940	4 205	4 151	4 937	5.8
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	13 667	25	65	161	1 454	3 683	3 736	4 544	5.9
ALL WINDOWS COVERED	11 827	20	51	116	1 242	3 218	3 264	3 917	5.9
SOME WINDOWS COVERED	1 262	-	7	18	131	295	310	501	6.1
NO WINDOWS COVERED	527	4	8	26	76	152	148	113	5.5
NOT REPORTED	51	1	-	2	6	17	14	12	5.5
RENTER OCCUPIED	2 011	3	32	160	486	522	416	393	5.1
ALL WINDOWS COVERED	1 219	1	10	79	296	341	256	237	5.1
SOME WINDOWS COVERED	404	-	5	21	83	99	82	113	5.4
NO WINDOWS COVERED	282	1	11	31	81	62	59	38	4.8
NOT REPORTED	106	2	6	28	27	20	19	5	4.1

[1]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: 1979--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									
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED									
STORM DOORS									
OWNER OCCUPIED	13 667	25	65	161	1 454	3 683	3 736	4 544	5.9
ALL DOORS COVERED	11 438	18	48	101	1 171	3 187	3 215	3 698	5.9
SOME DOORS COVERED	1 318	-	7	14	153	311	329	503	6.0
NO DOORS COVERED	860	6	10	45	124	166	179	331	5.9
NOT REPORTED	51	1	-	2	6	19	12	12	5.4
RENTER OCCUPIED	2 011	3	32	160	486	522	416	393	5.1
ALL DOORS COVERED	1 217	-	9	76	275	340	263	254	5.2
SOME DOORS COVERED	285	-	2	16	58	77	68	64	5.3
NO DOORS COVERED	401	2	14	40	128	82	66	70	4.7
NOT REPORTED	107	2	6	28	26	22	19	5	4.2
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	13 667	25	65	161	1 454	3 683	3 736	4 544	5.9
YES	12 289	23	55	123	1 276	3 303	3 380	4 128	5.9
NO	938	1	6	26	106	242	258	300	5.8
DON'T KNOW	380	-	5	10	65	118	83	100	5.4
NOT REPORTED	59	1	-	3	6	20	14	15	5.5
RENTER OCCUPIED	2 011	3	32	160	486	522	416	393	5.1
YES	1 132	-	9	67	261	326	239	229	5.2
NO	342	2	6	25	74	64	81	91	5.5
DON'T KNOW	428	-	10	39	124	110	77	68	4.9
NOT REPORTED	110	2	7	29	27	21	19	5	4.1

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979

(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	20 565	3 655	16 909	3 962	3 283	1 668	7 998
HOUSE HEATING FUEL							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
UTILITY GAS	10 051	1 343	8 708	1 998	2 217	1 012	3 481
BOTTLED, TANK, OR LP GAS	1 039	281	758	204	91	59	404
FUEL OIL	2 030	228	1 802	305	416	191	889
KEROSENE, ETC	5	1	4	2	2	-	1
ELECTRICITY	1 184	706	478	238	70	34	136
COAL OR COKE	42	2	41	3	2	6	29
WOOD	97	19	79	22	6	8	43
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	7	-	7	-	-	-	7
NONE	2	-	2	1	-	-	1
RENTER OCCUPIED	6 106	1 074	5 032	1 189	479	356	3 008
UTILITY GAS	4 377	580	3 797	876	360	274	2 286
BOTTLED, TANK, OR LP GAS	257	23	234	36	25	20	154
FUEL OIL	688	57	631	93	65	47	426
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	681	405	276	178	24	9	66
COAL OR COKE	22	-	22	-	1	1	19
WOOD	37	3	34	2	2	2	28
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	35	2	34	3	2	3	25
NONE	9	4	6	2	-	-	4
WATER HEATING FUEL							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
NO HOT PIPED WATER	79	4	75	9	7	11	48
WITH HOT PIPED WATER	14 379	2 577	11 802	2 764	2 796	1 301	4 941
FUEL USED:							
UTILITY GAS	9 365	1 251	8 114	1 873	2 081	938	3 222
BOTTLED, TANK, OR LP GAS	848	233	615	175	90	52	298
FUEL OIL	138	20	118	32	33	8	46
KEROSENE, ETC	1	-	1	-	-	-	1
ELECTRICITY	4 010	1 068	2 942	684	593	303	1 362
COAL OR COKE	2	-	2	-	-	-	2
WOOD	7	2	5	-	-	-	5
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	4	-	4	1	-	-	3
NONE	2	-	2	-	-	-	2
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	6 106	1 074	5 032	1 189	479	356	3 008
NO HOT PIPED WATER	46	1	45	2	3	3	36
WITH HOT PIPED WATER	6 060	1 073	4 987	1 187	476	353	2 972
FUEL USED:							
UTILITY GAS	4 346	583	3 763	868	359	273	2 263
BOTTLED, TANK, OR LP GAS	198	15	182	31	15	14	122
FUEL OIL	73	11	62	3	1	2	55
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 396	459	937	277	96	61	504
COAL OR COKE	13	-	13	3	5	1	3
WOOD	1	-	1	-	-	-	1
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	27	2	25	2	-	2	22
NONE	7	3	4	2	-	-	2
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
UTILITY GAS	5 734	614	5 121	952	1 165	612	2 391
BOTTLED, TANK, OR LP GAS	1 046	252	794	211	106	71	406
FUEL OIL	7	1	6	1	1	-	4
KEROSENE, ETC	4	2	2	-	-	-	2
ELECTRICITY	7 632	1 712	5 919	1 603	1 531	626	2 158
COAL OR COKE	4	-	4	-	-	-	4
WOOD	25	1	24	4	1	1	19
OTHER FUEL	3	-	3	1	-	-	2
NONE	4	-	4	1	-	1	2
RENTER OCCUPIED	6 106	1 074	5 032	1 189	479	356	3 008
UTILITY GAS	3 224	284	2 940	480	241	208	2 011
BOTTLED, TANK, OR LP GAS	286	23	263	49	23	17	174
FUEL OIL	4	-	4	-	-	-	4
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	2 548	767	1 781	656	215	129	781
COAL OR COKE	1	-	1	-	-	-	1
WOOD	4	-	4	1	-	-	3
OTHER FUEL	1	-	1	-	-	-	1
NONE	39	-	39	3	-	2	34

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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 ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	11 580	1 821	9 759	2 260	2 601	1 182	3 716
LESS THAN $10	115	-	115	8	8	15	84
$10 TO $19	1 310	72	1 238	128	295	162	653
$20 TO $29	2 778	276	2 502	445	671	360	1 025
$30 TO $39	2 710	348	2 363	550	663	315	836
$40 TO $49	1 779	285	1 495	428	438	151	478
$50 TO $59	1 231	237	994	310	278	99	307
$60 TO $79	992	277	715	264	163	63	225
$80 TO $99	297	125	171	59	49	11	53
$100 TO $149	290	159	131	57	29	5	40
$150 OR MORE	74	41	33	11	7	1	14
NO ELECTRICITY USED	3	1	2	1	-	-	2
MEDIAN	35	47	34	39	34	32	31
SPECIFIED RENTER OCCUPIED[2]	5 907	1 069	4 839	1 178	469	345	2 846
LESS THAN $10	547	62	485	126	48	25	286
$10 TO $19	1 668	259	1 409	404	126	97	782
$20 TO $29	1 215	207	1 008	253	112	87	556
$30 TO $39	762	163	599	146	68	43	341
$40 TO $49	343	98	245	64	28	28	126
$50 TO $59	171	58	114	20	9	5	79
$60 TO $79	121	42	79	18	8	5	47
$80 TO $99	31	16	14	3	1	-	10
$100 TO $149	23	10	12	2	2	1	7
$150 OR MORE	3	2	2	-	-	1	1
INCLUDED IN RENT	1 012	151	861	141	65	54	601
NO ELECTRICITY USED	12	2	10	-	-	-	10
MEDIAN	22	26	21	19	22	22	21
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	11 580	1 821	9 759	2 260	2 601	1 182	3 716
LESS THAN $10	329	33	296	36	55	49	156
$10 TO $14	256	29	227	38	58	37	94
$15 TO $19	365	38	327	59	79	53	136
$20 TO $24	634	91	544	111	146	67	220
$25 TO $29	815	84	731	158	217	95	261
$30 TO $39	2 531	308	2 224	495	678	308	743
$40 TO $49	2 145	250	1 895	474	524	219	678
$50 TO $69	2 144	290	1 854	481	425	183	766
$70 TO $99	538	72	466	98	99	44	225
$100 OR MORE	179	21	158	39	31	9	79
NO GAS USED	1 642	605	1 037	273	288	119	358
MEDIAN	40	41	40	42	38	37	41
SPECIFIED RENTER OCCUPIED[2]	5 907	1 069	4 839	1 178	469	345	2 846
LESS THAN $10	528	35	492	90	32	26	344
$10 TO $14	293	40	253	60	34	17	143
$15 TO $19	263	40	223	59	18	23	123
$20 TO $24	272	26	247	54	36	22	135
$25 TO $29	266	29	237	51	37	24	126
$30 TO $39	499	38	461	59	59	59	284
$40 TO $49	354	26	328	40	34	22	231
$50 TO $69	323	16	307	23	26	26	232
$70 TO $99	108	3	105	10	4	12	79
$100 OR MORE	55	1	54	1	2	4	47
INCLUDED IN RENT	2 208	472	1 736	577	152	90	917
NO GAS USED	739	345	394	154	35	21	184
MEDIAN	27	22	27	21	27	31	30
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	11 580	1 821	9 759	2 260	2 601	1 182	3 716
LESS THAN $100	345	122	224	82	49	23	69
$100 TO $199	167	46	121	39	23	13	46
$200 TO $299	107	20	87	16	22	15	35
$300 TO $399	223	26	197	34	66	26	71
$400 TO $499	282	26	257	41	80	40	96
$500 TO $599	233	19	214	33	49	41	91
$600 TO $699	216	20	196	35	50	13	98
$700 TO $799	122	13	109	16	34	13	46
$800 OR MORE	237	30	207	40	48	23	97
FUELS NOT USED OR FREE	9 647	1 500	8 148	1 924	2 179	976	3 069
MEDIAN	443	184	468	390	462	464	509

[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: 1979--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							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	5 907	1 069	4 839	1 178	469	345	2 846
LESS THAN $100	68	13	55	9	4	4	38
$100 TO $199	15	3	12	2	2	1	6
$200 TO $299	27	3	24	3	3	3	14
$300 TO $399	43	-	43	8	5	2	27
$400 TO $499	45	1	44	6	3	4	31
$500 TO $599	28	-	28	-	3	2	23
$600 TO $699	46	1	45	1	7	6	31
$700 TO $799	18	-	18	2	2	2	13
$800 OR MORE	80	-	80	5	9	4	62
INCLUDED IN RENT	621	92	529	107	52	22	348
FUELS NOT USED OR FREE	4 917	955	3 962	1 034	378	296	2 254
MEDIAN	471	...	493	346	571	...	527
ALL OCCUPIED HOUSING UNITS	20 565	3 655	16 909	3 962	3 283	1 668	7 998
HEATING EQUIPMENT							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
WARM-AIR FURNACE	11 260	1 961	9 298	2 272	2 474	1 077	3 475
HEAT PUMP	176	159	16	7	3	2	4
STEAM OR HOT WATER	1 249	92	1 157	220	168	67	702
BUILT-IN ELECTRIC UNITS	648	306	342	188	44	17	93
FLOOR, WALL, OR PIPELESS FURNACE	323	13	310	22	52	59	176
ROOM HEATERS WITH FLUE	572	11	562	22	44	65	431
ROOM HEATERS WITHOUT FLUE	22	3	19	1	2	4	13
FIREPLACES, STOVES, OR PORTABLE HEATERS	208	35	173	40	16	21	96
NONE	2	-	2	1	-	-	1
RENTER OCCUPIED	6 106	1 074	5 032	1 189	479	356	3 008
WARM-AIR FURNACE	3 227	569	2 657	686	322	214	1 435
HEAT PUMP	16	11	5	-	-	-	5
STEAM OR HOT WATER	1 633	224	1 408	321	79	82	928
BUILT-IN ELECTRIC UNITS	454	257	197	129	15	7	45
FLOOR, WALL, OR PIPELESS FURNACE	194	2	192	37	29	14	113
ROOM HEATERS WITH FLUE	463	1	462	10	28	31	392
ROOM HEATERS WITHOUT FLUE	36	2	35	3	1	4	27
FIREPLACES, STOVES, OR PORTABLE HEATERS	74	3	70	2	5	4	59
NONE	9	4	6	2	-	-	4
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
NO HEATING EQUIPMENT	2	-	2	1	-	-	1
WITH HEATING EQUIPMENT	14 457	2 581	11 876	2 772	2 804	1 311	4 989
NO THERMOSTAT CONTROL	589	22	566	53	54	70	388
WITH THERMOSTAT CONTROL	13 830	2 553	11 277	2 712	2 745	1 241	4 579
NOT CLOCK OPERATED	12 664	2 343	10 321	2 494	2 528	1 140	4 159
CONSTANT TEMPERATURE SETTING MAINTAINED	4 881	894	3 987	947	954	450	1 636
TEMPERATURE SETTING IS CHANGED	7 736	1 439	6 297	1 537	1 566	686	2 507
OCCASIONALLY	2 090	364	1 726	423	409	187	707
REGULARLY	5 574	1 068	4 506	1 103	1 148	490	1 765
DON'T KNOW	60	6	54	9	6	8	31
NOT REPORTED	12	2	10	2	3	1	4
NOT REPORTED	47	10	37	10	8	3	16
CLOCK OPERATED	1 161	208	952	218	217	101	416
NOT REPORTED	5	2	3	-	-	-	3
NOT REPORTED	39	6	32	6	4	-	22
RENTER OCCUPIED	6 106	1 074	5 032	1 189	479	356	3 008
NO HEATING EQUIPMENT	9	4	6	2	-	-	4
WITH HEATING EQUIPMENT	6 097	1 070	5 027	1 187	479	356	3 004
NO THERMOSTAT CONTROL	1 646	68	1 578	118	109	103	1 249
WITH THERMOSTAT CONTROL	4 436	1 001	3 435	1 064	370	254	1 748
NOT CLOCK OPERATED	4 134	943	3 190	1 000	341	245	1 603
CONSTANT TEMPERATURE SETTING MAINTAINED	1 654	360	1 295	361	119	97	717
TEMPERATURE SETTING IS CHANGED	2 432	571	1 861	628	217	147	870
OCCASIONALLY	793	183	611	205	72	40	294
REGULARLY	1 586	380	1 207	415	141	101	549
DON'T KNOW	50	9	41	7	3	6	25
NOT REPORTED	2	-	2	-	-	-	2
NOT REPORTED	47	12	35	11	6	2	16
CLOCK OPERATED	297	57	240	62	28	8	142
NOT REPORTED	5	-	5	2	-	-	3
NOT REPORTED	15	2	13	6	-	-	7

[1]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: 1979--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		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	20 565	3 655	16 909	3 962	3 283	1 668	7 998
UNITS OCCUPIED LAST WINTER	17 604	2 805	14 799	3 397	3 026	1 510	6 866
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	13 432	2 166	11 266	2 617	2 679	1 247	4 723
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	2 132	11 082	2 579	2 663	1 223	4 617
NO ADDITIONAL HEAT SOURCE USED	12 081	1 988	10 093	2 399	2 460	1 109	4 125
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	909	110	798	135	148	105	411
NOT REPORTED	224	33	191	45	55	9	82
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	34	184	39	17	24	105
RENTER OCCUPIED	4 172	639	3 533	780	347	263	2 144
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	633	3 454	776	342	258	2 079
NO ADDITIONAL HEAT SOURCE USED	3 463	586	2 877	685	294	222	1 676
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	33	503	72	46	32	353
NOT REPORTED	88	14	74	18	1	5	50
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	6	79	4	5	5	65
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	13 432	2 166	11 266	2 617	2 679	1 247	4 723
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	2 132	11 082	2 579	2 663	1 223	4 617
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 098	2 045	9 053	2 422	2 434	1 006	3 191
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 902	58	1 844	109	177	205	1 353
1 ROOM	721	41	680	70	82	81	447
2 ROOMS	525	4	521	13	45	71	391
3 ROOMS OR MORE	657	13	644	26	50	53	515
NOT REPORTED	213	28	185	47	52	12	74
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	34	184	39	17	24	105
RENTER OCCUPIED	4 172	639	3 533	780	347	263	2 144
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	633	3 454	776	342	258	2 079
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 286	606	2 679	728	299	211	1 440
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	713	14	699	30	41	42	586
1 ROOM	302	11	291	14	16	16	246
2 ROOMS	206	2	205	9	11	11	173
3 ROOMS OR MORE	205	1	203	7	14	15	167
NOT REPORTED	88	12	76	18	1	5	53
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	6	79	4	5	5	65
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	13 432	2 166	11 266	2 617	2 679	1 247	4 723
WITH SPECIFIED HEATING EQUIPMENT[1]	13 214	2 132	11 082	2 579	2 663	1 223	4 617
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	218	34	184	39	17	24	105
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	176	30	145	30	14	22	79
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	25	2	22	4	2	2	14
NOT REPORTED	18	1	17	5	-	-	12
RENTER OCCUPIED	4 172	639	3 533	780	347	263	2 144
WITH SPECIFIED HEATING EQUIPMENT[1]	4 087	633	3 454	776	342	258	2 079
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	86	6	79	4	5	5	65
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	59	6	53	2	3	4	44
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	13	-	13	1	2	-	11
NOT REPORTED	13	-	13	2	1	1	10

[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: 1979--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	20 565	3 655	16 909	3 962	3 283	1 668	7 998
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	210	35	174	41	16	21	97
WITH SELECTED HEATING EQUIPMENT[1]	14 249	2 546	11 703	2 731	2 788	1 291	4 893
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	13 455	2 363	11 092	2 593	2 673	1 224	4 602
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	733	172	561	129	107	64	261
SOLAR HEATING EQUIPMENT	3	2	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	329	88	241	64	34	23	120
FIREPLACE, BURNING WOOD OR COAL	97	29	69	19	14	8	28
PORTABLE ELECTRIC HEATER	135	20	115	27	14	17	57
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	33	6	27	2	12	4	9
OTHER	133	26	107	16	33	12	46
NOT REPORTED	14	4	10	2	3	-	4
NOT REPORTED	61	11	50	9	8	3	30
RENTER OCCUPIED	6 106	1 074	5 032	1 189	479	356	3 008
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	83	7	76	4	5	4	63
WITH SELECTED HEATING EQUIPMENT[1]	6 023	1 067	4 957	1 185	474	352	2 945
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 782	1 051	4 731	1 155	459	331	2 786
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	208	14	194	20	9	18	147
SOLAR HEATING EQUIPMENT	1	-	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	42	4	37	5	1	4	27
FIREPLACE, BURNING WOOD OR COAL	2	-	2	-	-	-	2
PORTABLE ELECTRIC HEATER	127	9	118	11	6	11	89
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	2	5	-	-	-	5
OTHER	29	-	29	3	-	3	23
NOT REPORTED	4	2	2	-	2	-	1
NOT REPORTED	34	2	32	10	5	3	13
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	49	755	64	61	90	540
WITH SELECTED HEATING EQUIPMENT[2]	13 655	2 532	11 122	2 708	2 742	1 222	4 450
LESS THAN 4 YEARS	2 160	1 026	1 134	188	307	143	496
4 TO 9 YEARS	3 512	1 433	2 079	378	499	224	978
10 TO 19 YEARS	4 284	48	4 236	1 917	562	363	1 395
20 TO 39 YEARS	2 682	2	2 679	142	1 216	382	940
40 YEARS OR MORE	223	-	223	4	1	12	206
DON'T KNOW	682	9	672	73	134	85	381
NOT REPORTED	113	13	99	7	24	13	55
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	49	755	64	61	90	540
WITH SELECTED HEATING EQUIPMENT[2]	13 655	2 532	11 122	2 708	2 742	1 222	4 450
NO MAINTENANCE OR MODIFICATION	10 199	2 044	8 155	1 987	1 974	908	3 285
WITH MAINTENANCE OR MODIFICATION	3 340	473	2 867	696	750	303	1 118
NOT REPORTED	115	16	100	25	18	10	46
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	804	49	755	64	61	90	540
WITH SELECTED HEATING EQUIPMENT[2]	13 655	2 532	11 122	2 708	2 742	1 222	4 450
NO MAINTENANCE CONTRACT	12 721	2 348	10 373	2 549	2 556	1 131	4 137
WITH MAINTENANCE CONTRACT	816	164	652	145	168	78	261
NOT REPORTED	117	20	97	14	18	12	52

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
NO HOT PIPED WATER	79	4	75	9	7	11	48
WITH HOT PIPED WATER	14 379	2 577	11 802	2 764	2 796	1 301	4 941
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	14 087	2 520	11 567	2 708	2 749	1 269	4 841
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	53	7	46	13	11	5	17
NOT REPORTED	235	49	186	43	37	26	81
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	6 106	1 074	5 032	1 189	479	356	3 008
NO HOT PIPED WATER	46	1	45	2	3	3	36
WITH HOT PIPED WATER	6 060	1 073	4 987	1 187	476	353	2 972
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 876	1 034	4 842	1 145	463	344	2 890
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	21	9	12	3	2	3	4
NOT REPORTED	156	27	129	36	11	6	76
NOT REPORTED	-	-	-	-	-	-	-
AIR CONDITIONING							
OWNER OCCUPIED	14 458	2 581	11 877	2 773	2 804	1 311	4 990
WITH AIR CONDITIONING	8 577	1 729	6 848	1 871	1 828	719	2 430
ROOM UNITS	4 255	316	3 940	670	924	459	1 886
1	2 924	244	2 681	482	603	314	1 281
2	1 034	65	969	147	251	113	459
3	229	5	224	35	57	26	105
4	50	-	50	4	10	6	31
5 OR MORE	18	1	16	2	3	-	11
CENTRAL SYSTEM	4 322	1 414	2 908	1 201	903	260	544
WITH NO AIR CONDITIONING	5 881	852	5 029	901	976	593	2 559
RENTER OCCUPIED	6 106	1 074	5 032	1 189	479	356	3 008
WITH AIR CONDITIONING	3 016	872	2 144	878	235	146	886
ROOM UNITS	2 056	390	1 666	563	176	122	806
1	1 715	328	1 386	497	138	96	655
2	295	59	237	54	36	22	125
3	38	3	35	8	1	4	22
4	6	-	6	4	-	-	2
5 OR MORE	3	-	3	-	2	-	2
CENTRAL SYSTEM	960	482	478	315	59	24	80
WITH NO AIR CONDITIONING	3 090	202	2 888	311	244	211	2 122
ALL OCCUPIED HOUSING UNITS	20 565	3 655	16 909	3 962	3 283	1 668	7 998
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	15 679	2 642	13 037	2 934	2 997	1 434	5 671
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	13 667	2 457	11 210	2 671	2 759	1 273	4 507
ALL WINDOWS COVERED	11 827	2 331	9 496	2 412	2 449	1 092	3 542
SOME WINDOWS COVERED	1 262	55	1 207	146	191	128	742
NO WINDOWS COVERED	527	60	467	105	113	51	197
NOT REPORTED	51	11	41	7	6	2	26
RENTER OCCUPIED	2 011	185	1 826	263	238	161	1 164
ALL WINDOWS COVERED	1 219	130	1 089	159	148	113	670
SOME WINDOWS COVERED	404	7	397	45	38	20	294
NO WINDOWS COVERED	282	29	254	34	43	20	158
NOT REPORTED	106	19	87	26	9	8	43
STORM DOORS							
OWNER OCCUPIED	13 667	2 457	11 210	2 671	2 759	1 273	4 507
ALL DOORS COVERED	11 438	1 764	9 674	2 242	2 548	1 172	3 713
SOME DOORS COVERED	1 318	342	976	244	135	74	522
NO DOORS COVERED	860	340	520	175	71	26	248
NOT REPORTED	51	11	41	9	6	2	24
RENTER OCCUPIED	2 011	185	1 826	263	238	161	1 164
ALL DOORS COVERED	1 217	89	1 128	142	156	112	719
SOME DOORS COVERED	285	34	251	29	25	19	177
NO DOORS COVERED	401	43	358	66	46	22	224
NOT REPORTED	107	18	89	26	10	8	44

[1]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: 1979--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							
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	13 667	2 457	11 210	2 671	2 759	1 273	4 507
YES	12 289	2 370	9 919	2 535	2 594	1 158	3 632
NO	938	35	903	60	80	78	686
DON'T KNOW	380	36	344	66	79	34	165
NOT REPORTED	59	15	45	10	7	3	25
RENTER OCCUPIED	2 011	185	1 826	263	238	161	1 164
YES	1 132	115	1 017	153	157	93	613
NO	342	8	335	19	26	22	268
DON'T KNOW	428	44	384	63	43	38	239
NOT REPORTED	110	18	91	28	11	8	44
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	13 667	2 457	11 210	2 671	2 759	1 273	4 507
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	527	60	467	105	113	51	197
SOME OR ALL WINDOWS COVERED	13 089	2 386	10 703	2 559	2 640	1 220	4 284
NONE ADDED OR INSTALLED	11 722	2 151	9 571	2 348	2 411	1 101	3 711
SOME OR ALL ADDED OR INSTALLED	1 291	224	1 067	195	217	113	542
NOT REPORTED	76	11	65	15	12	7	31
NOT REPORTED	51	11	41	7	6	2	26
STORM DOORS:							
NO DOORS COVERED	860	340	520	175	71	26	248
SOME OR ALL DOORS COVERED	12 756	2 107	10 650	2 486	2 682	1 246	4 235
NONE ADDED OR INSTALLED	11 572	1 799	9 773	2 296	2 490	1 140	3 848
SOME OR ALL ADDED OR INSTALLED	1 017	284	733	169	162	90	312
NOT REPORTED	168	24	144	22	31	16	76
NOT REPORTED	51	11	41	9	6	2	24
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	938	35	903	60	80	78	686
WITH ATTIC OR ROOF INSULATION	12 289	2 370	9 919	2 535	2 594	1 158	3 632
NONE ADDED OR INSTALLED	10 893	2 110	8 783	2 285	2 298	1 025	3 175
SOME OR ALL ADDED OR INSTALLED	1 265	231	1 034	233	274	112	414
LESS THAN 3 INCHES ADDED	103	12	90	16	32	8	35
3 TO 6 INCHES ADDED	477	57	420	92	113	50	165
6 INCHES OR MORE ADDED	517	117	400	95	106	36	163
DON'T KNOW	93	29	65	14	14	8	27
NOT REPORTED	75	16	60	17	9	10	24
NOT REPORTED	132	30	102	17	22	21	42
DON'T KNOW	380	36	344	66	79	34	165
NOT REPORTED	59	15	45	10	7	3	25
WALL INSULATION:							
NONE ADDED OR INSTALLED	12 640	2 214	10 426	2 536	2 605	1 191	4 094
SOME OR ALL ADDED OR INSTALLED	948	231	716	123	142	79	372
NOT REPORTED	80	12	68	12	12	3	40
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	9 314	1 693	7 621	1 812	1 833	883	3 092
SOME OR ALL ADDED OR INSTALLED	4 172	730	3 442	838	892	375	1 337
DON'T KNOW	116	18	98	11	27	13	46
NOT REPORTED	66	16	50	9	7	2	32
OTHER INSULATION:							
NONE ADDED OR INSTALLED	12 764	2 178	10 586	2 496	2 650	1 205	4 235
SOME OR ALL ADDED OR INSTALLED	795	262	533	161	92	60	220
NOT REPORTED	108	18	91	14	18	7	52

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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	2 011	185	1 826	263	238	161	1 164
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	282	29	254	34	43	20	158
SOME OR ALL WINDOWS COVERED	1 623	137	1 486	203	186	133	964
NONE ADDED OR INSTALLED	1 373	132	1 241	175	166	111	789
SOME OR ALL ADDED OR INSTALLED	218	4	215	23	17	21	154
NOT REPORTED	32	1	30	4	3	1	21
NOT REPORTED	106	19	87	26	9	8	43
STORM DOORS:							
NO DOORS COVERED	401	43	358	66	46	22	224
SOME OR ALL DOORS COVERED	1 502	123	1 379	171	181	131	896
NONE ADDED OR INSTALLED	1 357	105	1 252	158	167	115	813
SOME OR ALL ADDED OR INSTALLED	94	15	79	7	10	10	52
NOT REPORTED	51	3	49	7	5	7	30
NOT REPORTED	107	18	89	26	10	8	44
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	342	8	335	19	26	22	268
WITH ATTIC OR ROOF INSULATION	1 132	115	1 017	153	157	93	613
NONE ADDED OR INSTALLED	1 019	107	912	139	141	84	547
SOME OR ALL ADDED OR INSTALLED	90	2	88	10	10	7	60
LESS THAN 3 INCHES ADDED	8	-	8	2	-	-	6
3 TO 6 INCHES ADDED	29	-	29	2	4	3	20
6 INCHES OR MORE ADDED	15	1	14	2	3	1	9
DON'T KNOW	33	2	32	5	1	3	23
NOT REPORTED	5	-	5	-	2	-	2
NOT REPORTED	23	6	17	4	5	2	5
DON'T KNOW	428	44	384	63	43	38	239
NOT REPORTED	110	18	91	28	11	8	44
WALL INSULATION:							
NONE ADDED OR INSTALLED	1 788	161	1 627	221	218	146	1 042
SOME OR ALL ADDED OR INSTALLED	74	1	73	9	7	7	50
NOT REPORTED	149	23	126	33	12	8	73
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	1 347	114	1 233	180	170	106	778
SOME OR ALL ADDED OR INSTALLED	376	22	353	32	34	31	256
DON'T KNOW	175	30	146	25	22	14	85
NOT REPORTED	113	18	94	27	12	10	46
OTHER INSULATION:							
NONE ADDED OR INSTALLED	1 782	158	1 624	216	212	147	1 049
SOME OR ALL ADDED OR INSTALLED	76	5	71	13	11	3	44
NOT REPORTED	153	21	132	35	15	12	71
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	13 667	2 457	11 210	2 671	2 759	1 273	4 507
NO INSULATION ADDED OR INSTALLED	7 623	1 371	6 252	1 531	1 519	725	2 477
WITH INSULATION ADDED OR INSTALLED	5 709	1 029	4 680	1 096	1 188	512	1 884
LESS THAN $50	2 820	453	2 367	580	631	249	907
$50 TO $99	549	123	426	97	110	46	173
$100 TO $199	592	139	453	110	102	60	182
$200 TO $399	543	96	447	103	118	44	182
$400 OR MORE	840	141	700	136	161	84	319
DON'T KNOW	169	50	119	28	21	15	55
NOT REPORTED	196	28	168	41	46	14	66
MEDIAN	50-	59	50-	50-	50-	50-	50-
NOT REPORTED OR DON'T KNOW	335	58	278	45	52	35	146
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	335	47	288	61	60	32	135
LESS THAN $50	145	22	123	21	30	8	64
$50 TO $99	41	6	35	5	7	6	17
$100 TO $199	27	6	21	3	5	1	12
$200 TO $399	37	3	33	9	5	5	15
$400 OR MORE	60	6	53	17	10	10	16
DON'T KNOW	7	1	6	2	1	2	2
NOT REPORTED	19	3	16	3	2	-	10
MEDIAN	62	50-	64	150	50-	...	50-

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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							
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
ONLY ADDED OR INSTALLED STORM DOORS	322	86	236	62	55	29	91
LESS THAN $50	39	7	32	7	4	3	18
$50 TO $99	109	25	84	22	26	10	26
$100 TO $199	86	31	54	19	16	2	17
$200 TO $399	35	10	25	10	4	3	8
$400 OR MORE	19	5	13	1	2	3	6
DON'T KNOW	2	-	2	-	1	1	1
NOT REPORTED	33	8	25	3	2	6	14
MEDIAN	97	123	92	102	92	...	88
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	608	95	513	115	135	52	211
LESS THAN $50	72	11	61	11	17	7	26
$50 TO $99	79	16	63	19	17	7	20
$100 TO $199	129	23	106	24	24	16	42
$200 TO $399	121	20	101	26	30	11	34
$400 OR MORE	144	10	134	25	37	8	64
DON'T KNOW	34	6	28	5	6	2	15
NOT REPORTED	29	8	21	5	5	2	10
MEDIAN	193	156	204	192	233	162	229

TABLE C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979

(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]	11 580	115	1 310	2 778	2 710	1 779	1 231	992	297	290	74	3	35
HOUSE HEATING FUEL													
ELECTRICITY	840	-	16	25	44	59	95	244	141	173	42	-	74
OTHER THAN ELECTRICITY	10 738	115	1 293	2 753	2 666	1 720	1 136	748	155	117	32	3	34
UTILITY GAS	8 817	89	1 124	2 330	2 190	1 393	878	568	123	95	27	1	34
BOTTLED, TANK, OR LP GAS	467	6	42	129	120	78	47	39	4	2	-	1	34
FUEL OIL	1 380	19	121	280	332	237	201	138	25	21	5	1	37
KEROSENE, ETC	5	-	-	-	2	2	1	-	-	-	-	-	...
COAL OR COKE	22	-	1	3	5	6	3	2	1	-	-	1	...
WOOD	43	2	5	9	14	5	6	1	2	-	-	-	34
SOLAR HEAT	1	-	-	-	-	-	-	-	1	-	-	-	...
OTHER FUEL	3	-	-	-	3	-	-	-	-	-	-	-	...
NONE	2	-	1	-	-	-	-	-	1	-	-	-	...
WATER HEATING FUEL[3]													
ELECTRICITY	2 750	11	128	394	553	412	379	453	175	200	46	-	46
OTHER FUEL	8 784	95	1 167	2 373	2 155	1 363	851	539	121	90	28	2	33
NONE	2	-	-	-	-	2	-	-	-	-	-	-	...
COOKING FUEL													
ELECTRICITY	6 234	27	426	1 273	1 457	1 017	795	688	245	248	57	-	39
OTHER FUEL	5 341	88	882	1 505	1 252	763	436	303	51	42	17	2	31
NONE	4	-	2	-	2	-	-	-	-	-	-	1	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	740	-	8	12	29	50	83	219	136	164	38	-	76
ALL OTHER FUEL COMBINATIONS OR NONE	10 839	115	1 302	2 766	2 681	1 729	1 149	772	161	126	35	3	34
HEATING EQUIPMENT													
WARM-AIR FURNACE	9 369	64	1 042	2 344	2 327	1 510	1 015	706	177	143	39	-	35
HEAT PUMP	146	-	2	2	3	13	14	35	30	39	9	-	83
STEAM OR HOT WATER	877	10	88	198	211	161	93	76	14	16	8	2	36
BUILT-IN ELECTRIC UNITS	447	-	9	11	18	30	51	156	69	89	15	-	73
FLOOR, WALL, OR PIPELESS FURNACE	238	10	58	78	53	16	16	2	2	2	2	-	26
ROOM HEATERS WITH FLUE	388	25	96	117	70	38	26	13	2	1	1	1	26
ROOM HEATERS WITHOUT FLUE	15	2	4	4	-	2	2	2	-	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	99	4	11	25	29	10	16	1	2	1	-	1	33
NONE	2	-	1	-	-	-	-	-	1	-	-	-	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	2	-	1	-	-	-	-	-	1	-	-	-	...
WITH HEATING EQUIPMENT	11 578	115	1 309	2 778	2 710	1 779	1 231	992	296	290	74	3	35
NO THERMOSTAT CONTROL	315	18	76	94	52	26	23	16	6	-	2	3	26
WITH THERMOSTAT CONTROL	11 232	96	1 230	2 677	2 654	1 752	1 200	974	288	290	71	-	35
NOT CLOCK OPERATED	10 270	89	1 130	2 469	2 423	1 594	1 088	889	266	258	64	-	35
CONSTANT TEMPERATURE SETTING MAINTAINED	3 971	41	443	871	949	618	452	350	109	118	20	-	36
TEMPERATURE SETTING IS CHANGED	6 260	49	683	1 583	1 468	971	633	533	157	140	44	-	35
OCCASIONALLY	1 698	13	176	402	375	283	172	180	50	35	11	-	36
REGULARLY	4 501	35	502	1 158	1 086	679	451	350	103	105	33	-	35
DON'T KNOW	49	-	5	18	6	6	8	3	3	-	-	-	33
NOT REPORTED	12	-	-	5	2	2	2	-	-	1	-	-	...
NOT REPORTED	39	-	4	14	6	6	3	6	-	-	-	-	31
CLOCK OPERATED	961	7	100	207	232	158	112	85	22	32	7	-	37
NOT REPORTED	2	-	-	2	-	-	-	-	-	-	-	-	...
NOT REPORTED	31	2	2	7	4	2	8	2	3	-	2	-	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	101	4	12	25	29	10	16	1	3	1	-	1	33
WITH SELECTED HEATING EQUIPMENT[4]	11 479	111	1 298	2 753	2 681	1 770	1 216	991	294	289	74	2	35
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 887	104	1 248	2 634	2 560	1 681	1 133	923	267	262	71	2	35
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	542	5	41	105	113	84	76	63	26	27	1	-	41
SOLAR HEATING EQUIPMENT	2	-	-	-	-	1	2	-	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	235	-	18	34	56	38	38	28	13	9	1	-	42
FIREPLACE, BURNING WOOD OR COAL	71	-	3	16	10	8	10	12	5	7	-	-	46
PORTABLE ELECTRIC HEATER	102	3	11	29	25	14	10	7	1	2	-	-	33
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	26	-	2	5	4	2	7	3	1	2	-	-	...
OTHER	100	2	4	22	15	17	11	15	7	6	-	-	44
NOT REPORTED	13	-	2	2	2	4	1	1	-	1	-	-	...
NOT REPORTED	50	2	9	15	8	5	6	4	1	-	2	-	30
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	31	111	145	99	49	43	16	5	2	1	2	27
WITH SELECTED HEATING EQUIPMENT[5]	11 077	85	1 198	2 633	2 612	1 730	1 188	976	291	288	73	2	36
LESS THAN 4 YEARS	1 731	7	160	349	370	241	216	185	87	96	21	-	39
4 TO 9 YEARS	2 645	12	198	572	570	434	322	315	80	111	32	1	39
10 TO 19 YEARS	3 563	26	346	844	930	598	373	306	72	56	11	1	35
20 TO 39 YEARS	2 341	31	364	644	554	347	200	133	42	19	7	-	32
40 YEARS OR MORE	183	5	48	43	29	32	18	5	-	2	-	-	28
DON'T KNOW	533	3	75	155	139	71	47	28	10	5	1	-	32
NOT REPORTED	80	2	8	26	21	7	12	3	-	1	2	-	32

[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 HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	31	111	145	99	49	43	16	5	2	1	2	27
WITH SELECTED HEATING EQUIPMENT[3]	11 077	85	1 198	2 633	2 612	1 730	1 188	976	291	288	73	2	36
NO MAINTENANCE OR MODIFICATION	8 268	60	908	2 002	1 946	1 262	846	743	226	226	48	2	35
WITH MAINTENANCE OR MODIFICATION	2 736	23	287	607	651	461	330	230	62	63	24	-	36
NOT REPORTED	72	2	3	24	15	8	12	3	3	-	2	-	34
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	31	111	145	99	49	43	16	5	2	1	2	27
WITH SELECTED HEATING EQUIPMENT[3]	11 077	85	1 198	2 633	2 612	1 730	1 188	976	291	288	73	2	36
NO MAINTENANCE CONTRACT	10 355	81	1 132	2 464	2 464	1 615	1 079	923	268	261	66	2	35
WITH MAINTENANCE CONTRACT	652	3	65	143	135	107	98	48	20	27	6	-	38
NOT REPORTED	70	2	1	26	13	8	11	5	4	-	2	-	35
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	44	9	14	12	2	3	1	-	1	-	-	2	18
WITH HOT PIPED WATER	11 536	106	1 296	2 767	2 708	1 776	1 230	992	296	290	74	2	35
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 302	102	1 272	2 716	2 650	1 749	1 196	967	290	287	72	2	35
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	42	-	4	7	7	9	10	4	2	-	-	-	43
NOT REPORTED	189	4	20	44	51	17	24	21	4	3	2	-	35
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	7 067	29	510	1 451	1 665	1 216	945	750	219	225	57	-	38
ROOM UNITS	3 381	28	375	919	899	506	308	236	50	51	9	-	34
1	2 285	28	288	665	582	311	182	165	29	30	6	-	33
2	850	-	73	208	245	140	96	52	18	16	3	-	35
3	189	-	10	38	60	37	20	17	2	4	-	-	37
4	42	-	3	7	8	14	8	2	1	-	-	-	42
5 OR MORE	16	-	2	2	4	4	2	1	-	2	-	-	...
CENTRAL SYSTEM	3 686	1	134	532	766	711	637	514	169	174	48	-	45
WITH NO AIR CONDITIONING	4 512	87	800	1 327	1 046	563	287	242	78	65	17	3	30
PERSONS													
1 PERSON	1 576	90	503	528	239	85	62	45	11	9	2	2	23
2 PERSONS	3 587	20	504	1 053	910	481	299	196	62	50	12	-	32
3 PERSONS	2 023	2	149	454	538	349	227	186	49	58	11	-	37
4 PERSONS	2 406	1	87	490	582	474	309	287	79	81	15	1	41
5 PERSONS	1 195	2	52	167	279	224	182	161	63	46	21	-	44
6 PERSONS	470	-	7	55	100	94	92	70	12	33	7	1	47
7 PERSONS OR MORE	322	2	6	31	63	72	60	46	21	14	6	-	47
MEDIAN	2.8	1.5-	1.8	2.3	2.9	3.4	3.6	3.7	3.8	3.8	4.3	...	...
SPECIFIED OWNER OCCUPIED[2]	11 580	115	1 310	2 778	2 710	1 779	1 231	992	297	290	74	3	35
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 580	115	1 310	2 778	2 710	1 779	1 231	992	297	290	74	3	35
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	10 049	92	1 091	2 356	2 337	1 575	1 088	896	272	273	68	2	36
SOME WINDOWS COVERED	1 042	15	143	297	255	138	95	65	18	13	2	-	32
NO WINDOWS COVERED	443	8	68	109	112	61	41	32	6	2	2	2	33
NOT REPORTED	44	-	7	16	7	5	7	-	-	2	2	-	29
STORM DOORS													
ALL DOORS COVERED	9 862	97	1 185	2 433	2 329	1 532	1 026	809	230	210	50	1	35
SOME DOORS COVERED	1 025	7	99	215	249	155	123	100	24	41	12	1	37
NO DOORS COVERED	648	12	58	114	125	88	75	83	43	38	10	2	41
NOT REPORTED	44	-	7	16	7	5	7	-	-	2	2	-	29
ATTIC OR ROOF INSULATION													
YES	10 495	83	1 105	2 465	2 458	1 661	1 154	945	280	276	65	3	36
NO	737	29	138	216	169	84	48	29	13	6	3	-	28
DON'T KNOW	295	2	59	81	76	28	22	18	3	5	1	-	31
NOT REPORTED	52	1	7	16	7	7	7	-	1	2	5	-	34
SPECIFIED RENTER OCCUPIED[5]	5 907	547	1 668	1 215	762	343	171	121	31	23	3	1 024	22
HOUSE HEATING FUEL													
ELECTRICITY	672	35	97	101	132	84	54	37	18	12	2	101	34
OTHER THAN ELECTRICITY	5 226	510	1 569	1 113	628	259	118	84	13	11	2	921	21
UTILITY GAS	4 342	442	1 346	931	513	201	76	65	11	7	-	751	20
BOTTLED, TANK, OR LP GAS	193	5	43	52	32	16	15	6	-	1	-	23	26
FUEL OIL	616	58	163	121	78	38	23	13	2	3	2	116	22
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-
COAL OR COKE	17	1	6	2	2	1	1	-	-	-	-	4	...
WOOD	23	2	4	5	3	3	3	-	-	-	-	3	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	35	2	7	2	2	-	-	-	-	-	-	24	...
NONE	9	2	2	2	2	-	-	-	-	-	-	2	...

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
WATER HEATING FUEL[3]													
ELECTRICITY	1 271	52	214	251	233	146	88	66	19	16	2	185	31
OTHER FUEL	4 590	485	1 442	954	526	196	83	55	12	6	2	828	19
NONE	7	2	2	1	2	-	-	-	-	-	-	-	...
COOKING FUEL													
ELECTRICITY	2 418	156	600	517	392	198	103	78	24	17	2	329	25
OTHER FUEL	3 450	387	1 067	698	370	143	68	43	6	5	1	662	18
NONE	39	5	-	-	-	2	-	-	-	-	-	33	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	536	21	58	80	111	78	46	37	18	12	2	73	36
ALL OTHER FUEL COMBINATIONS OR NONE	5 371	526	1 609	1 135	651	265	125	84	13	11	2	951	21
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 104	175	852	728	474	225	114	85	14	14	3	421	24
HEAT PUMP	16	3	4	1	5	1	-	2	-	-	-	2	...
STEAM OR HOT WATER	1 619	278	521	250	100	29	7	6	3	2	-	423	16
BUILT-IN ELECTRIC UNITS	447	25	65	77	80	54	36	16	13	4	-	75	32
FLOOR, WALL, OR PIPELESS FURNACE	187	20	58	50	28	7	1	4	-	-	-	18	21
ROOM HEATERS WITH FLUE	436	37	141	85	65	20	8	8	-	3	-	69	21
ROOM HEATERS WITHOUT FLUE	35	2	13	8	2	1	-	-	-	-	-	11	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	54	5	12	15	8	6	5	1	-	-	-	3	25
NONE	9	2	2	2	2	-	-	-	-	-	-	2	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	9	2	2	2	2	-	-	-	-	-	-	2	...
WITH HEATING EQUIPMENT	5 898	545	1 665	1 214	761	343	171	121	31	23	3	1 022	22
NO THERMOSTAT CONTROL	1 609	266	418	217	109	37	17	11	3	5	-	523	16
WITH THERMOSTAT CONTROL	4 275	276	1 245	996	646	305	152	110	28	17	3	496	23
NOT CLOCK OPERATED	3 984	260	1 172	909	598	292	149	100	24	16	3	460	23
CONSTANT TEMPERATURE SETTING MAINTAINED	1 594	121	439	353	241	106	56	45	10	7	1	214	23
TEMPERATURE SETTING IS CHANGED	2 343	137	719	545	349	181	91	54	14	9	2	241	23
OCCASIONALLY	774	62	241	177	96	63	23	25	2	1	1	83	22
REGULARLY	1 519	76	459	352	247	118	62	28	12	8	2	155	24
DON'T KNOW	49	-	16	16	6	-	6	1	-	-	-	2	24
NOT REPORTED	2	-	2	-	-	-	-	-	-	-	-	-	...
NOT REPORTED	47	2	14	11	8	5	2	1	-	-	-	5	25
CLOCK OPERATED	286	15	72	84	49	14	3	10	3	1	-	36	24
NOT REPORTED	5	-	2	3	-	-	-	-	-	-	-	-	...
NOT REPORTED	14	3	2	-	5	-	2	-	-	-	-	3	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	64	7	15	16	9	6	5	1	-	-	-	5	24
WITH SELECTED HEATING EQUIPMENT[4]	5 844	540	1 653	1 199	753	337	166	120	31	23	3	1 019	22
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 619	521	1 601	1 147	725	325	161	109	31	23	3	973	22
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	193	16	47	44	22	12	4	11	-	-	-	37	23
SOLAR HEATING EQUIPMENT	1	-	-	-	-	1	-	-	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	33	5	8	5	3	4	1	-	-	-	-	7	...
FIREPLACE, BURNING WOOD OR COAL	1	-	-	-	-	1	-	-	-	-	-	-	...
PORTABLE ELECTRIC HEATER	124	8	32	33	14	4	2	7	-	-	-	23	23
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	6	2	3	-	-	-	1	1	-	-	-	-	...
OTHER	28	2	4	6	5	2	-	2	-	-	-	7	...
NOT REPORTED	4	-	2	-	2	-	-	1	-	-	-	-	...
NOT REPORTED	32	3	5	8	6	-	2	-	-	-	-	9	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	39	9	9	9	2	1	-	-	-	-	-	11	...
WITH HOT PIPED WATER	5 868	539	1 658	1 207	761	342	171	121	31	23	3	1 013	22
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 685	515	1 613	1 165	740	340	168	119	29	23	3	970	22
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	21	5	2	4	2	1	-	-	-	-	-	8	...
NOT REPORTED	155	17	41	36	17	1	3	1	1	-	-	36	20
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	2 945	230	847	648	437	210	107	82	20	16	2	345	23
ROOM UNITS	1 996	194	632	457	257	109	52	27	9	3	1	256	21
1	1 673	182	547	359	186	87	47	22	5	3	-	235	19
2	281	12	75	80	66	18	5	5	5	-	1	15	25
3	39	-	7	12	5	4	-	-	-	-	-	6	...
4	5	-	3	2	-	-	-	-	-	-	-	-	...
5 OR MORE	3	-	-	3	-	-	-	-	-	-	-	-	...
CENTRAL SYSTEM	948	36	215	191	180	101	55	55	11	13	2	90	28
WITH NO AIR CONDITIONING	2 963	317	821	568	325	133	64	39	11	6	1	678	20
PERSONS													
1 PERSON	2 402	368	781	383	172	73	42	25	3	3	-	552	16
2 PERSONS	1 686	116	524	376	232	93	54	33	8	3	-	247	22
3 PERSONS	899	35	218	229	157	81	30	19	7	8	-	115	25
4 PERSONS	520	16	97	127	116	59	22	20	3	6	-	54	28
5 PERSONS	213	5	24	57	42	23	11	15	5	1	3	27	32
6 PERSONS	107	2	14	24	27	7	9	5	2	2	-	16	32
7 PERSONS OR MORE	80	5	10	20	16	7	3	3	3	1	-	12	28
MEDIAN	1.8	1.5-	1.6	2.1	2.4	2.6	2.3	2.6	...	...	...	1.5-	...

[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]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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]	5 907	547	1 668	1 215	762	343	171	121	31	23	3	1 024	22
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 812	64	405	464	341	174	98	72	14	14	2	165	27
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 083	29	236	272	197	112	70	36	5	9	2	115	27
SOME WINDOWS COVERED	358	14	74	108	74	36	14	19	4	1	-	13	27
NO WINDOWS COVERED	267	17	63	67	58	20	11	13	4	4	-	10	27
NOT REPORTED	104	4	31	17	12	5	3	4	1	-	-	26	22
STORM DOORS													
ALL DOORS COVERED	1 072	23	240	281	204	109	65	38	5	8	2	97	27
SOME DOORS COVERED	261	10	52	79	58	22	13	13	2	3	-	10	27
NO DOORS COVERED	374	27	79	87	68	37	17	17	6	3	-	31	27
NOT REPORTED	106	4	34	16	12	5	3	4	1	-	-	26	21
ATTIC OR ROOF INSULATION													
YES	999	30	193	251	197	108	66	41	8	6	1	97	28
NO	298	14	60	72	63	31	15	13	3	7	1	20	28
DON'T KNOW	407	15	119	123	69	30	14	14	2	1	-	20	24
NOT REPORTED	108	4	33	17	12	5	3	4	1	-	-	28	22

[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: 1979

(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]	11 580	329	256	365	634	815	2 531	2 145	2 144	538	179	1 642	40
HOUSE HEATING FUEL													
GAS	9 284	112	156	303	593	775	2 462	2 110	2 090	516	169	-	41
UTILITY GAS	8 817	103	146	291	571	749	2 367	2 034	1 945	465	147	-	41
BOTTLED, TANK, OR LP GAS	467	9	9	12	22	26	95	76	145	50	21	-	47
OTHER THAN GAS	2 294	216	100	62	42	40	70	35	54	22	10	1 642	16
FUEL OIL	1 380	177	86	53	29	26	51	18	29	8	8	894	13
KEROSENE, ETC	5	-	-	-	-	-	-	2	2	-	-	2	...
ELECTRICITY	840	28	8	7	10	11	16	13	20	11	1	717	28
COAL OR COKE	22	2	5	1	-	1	-	2	2	-	-	10	...
WOOD	43	9	2	2	3	2	2	1	2	-	2	20	...
SOLAR HEAT	1	-	-	-	-	-	-	-	-	-	-	1	-
OTHER FUEL	3	-	-	-	-	-	-	-	-	3	-	-	...
NONE	2	1	-	-	-	-	-	-	1	-	-	-	...
WATER HEATING FUEL[3]													
GAS	8 677	162	221	309	554	723	2 255	1 926	1 893	480	154	-	41
UTILITY GAS	8 274	144	200	287	526	699	2 174	1 869	1 793	446	137	-	41
BOTTLED, TANK, OR LP GAS	403	18	22	22	28	24	81	57	100	35	17	-	41
OTHER FUEL	2 857	157	33	51	77	92	272	214	247	58	24	1 633	37
NONE	2	-	-	-	-	-	-	2	-	-	-	-	...
COOKING FUEL													
GAS	5 325	203	142	206	344	434	1 322	1 150	1 114	314	97	-	40
UTILITY GAS	4 866	104	115	168	318	407	1 253	1 106	1 022	288	84	-	41
BOTTLED, TANK, OR LP GAS	460	99	28	38	26	26	68	43	92	25	13	-	32
OTHER FUEL	6 250	126	113	159	290	381	1 210	995	1 029	224	82	1 640	40
NONE	4	-	1	-	-	-	-	-	1	-	-	2	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	4 634	38	73	143	307	381	1 209	1 076	1 024	294	88	-	41
ALL OTHER FUEL COMBINATIONS OR NONE	6 946	291	183	222	328	434	1 322	1 069	1 120	244	91	1 642	38
HEATING EQUIPMENT													
WARM-AIR FURNACE	9 369	222	207	274	543	710	2 223	1 906	1 828	422	135	898	40
HEAT PUMP	146	1	-	-	2	-	2	2	-	-	-	140	...
STEAM OR HOT WATER	877	28	14	17	14	30	150	163	220	90	36	116	47
BUILT-IN ELECTRIC UNITS	447	23	6	4	3	3	6	1	4	3	-	395	12
FLOOR, WALL, OR PIPELESS FURNACE	238	11	9	26	33	27	64	20	24	10	2	13	31
ROOM HEATERS WITH FLUE	388	29	15	34	33	36	74	45	60	13	4	45	33
ROOM HEATERS WITHOUT FLUE	15	-	-	2	2	2	2	2	2	1	1	2	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	99	15	6	9	5	6	10	6	6	-	2	33	22
NONE	2	1	-	-	-	-	-	-	1	-	-	-	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	2	1	-	-	-	-	-	-	1	-	-	-	...
WITH HEATING EQUIPMENT	11 578	328	256	365	634	815	2 531	2 145	2 144	538	179	1 642	40
NO THERMOSTAT CONTROL	315	39	17	26	19	25	55	35	36	7	1	55	31
WITH THERMOSTAT CONTROL	11 232	285	239	339	613	788	2 470	2 105	2 100	531	174	1 587	40
NOT CLOCK OPERATED	10 270	268	222	305	544	715	2 258	1 916	1 928	462	145	1 507	40
CONSTANT TEMPERATURE SETTING MAINTAINED	3 971	102	76	127	206	290	848	734	740	195	73	580	41
TEMPERATURE SETTING IS CHANGED	6 260	164	145	178	331	421	1 409	1 173	1 176	267	73	924	40
OCCASIONALLY	1 698	41	29	52	77	110	362	324	348	107	32	216	42
REGULARLY	4 501	123	114	126	248	303	1 033	840	821	157	38	699	39
DON'T KNOW	49	1	2	-	2	8	13	6	7	1	2	7	36
NOT REPORTED	12	-	-	-	4	-	1	3	-	2	-	2	...
NOT REPORTED	39	2	1	1	7	3	2	9	13	-	-	2	43
CLOCK OPERATED	961	17	17	34	67	73	213	189	172	69	29	80	41
NOT REPORTED	2	-	-	-	2	-	-	-	-	-	-	-	...
NOT REPORTED	31	4	-	1	2	2	6	5	7	-	4	1	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	101	16	6	9	5	6	10	6	7	-	2	33	22
WITH SELECTED HEATING EQUIPMENT[4]	11 479	313	250	356	629	808	2 521	2 139	2 137	538	177	1 609	40
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 887	289	233	337	603	783	2 427	2 033	2 049	513	163	1 455	40
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	542	22	17	18	22	23	80	90	86	25	10	150	41
SOLAR HEATING EQUIPMENT	2	-	-	-	-	-	-	2	-	-	-	1	...
STOVE, BURNING WOOD OR COAL	235	13	10	7	13	7	25	30	22	5	6	95	37
FIREPLACE, BURNING WOOD OR COAL	71	1	1	-	2	5	8	14	17	5	2	16	47
PORTABLE ELECTRIC HEATER	102	3	1	6	1	4	21	25	22	8	-	11	43
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	26	1	2	1	-	2	4	-	9	3	-	5	...
OTHER	100	3	1	3	6	4	21	18	13	5	2	24	40
NOT REPORTED	13	-	1	-	-	2	2	3	3	-	-	2	...
NOT REPORTED	50	2	1	2	4	2	14	16	2	-	4	4	39
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	45	21	45	40	44	86	53	68	14	6	80	32
WITH SELECTED HEATING EQUIPMENT[5]	11 077	284	235	321	594	770	2 445	2 092	2 076	524	172	1 562	40
LESS THAN 4 YEARS	1 731	47	49	54	119	101	342	234	275	69	27	414	38
4 TO 9 YEARS	2 645	56	32	60	143	190	548	462	529	152	41	434	42
10 TO 19 YEARS	3 563	87	67	98	184	243	819	741	727	173	56	367	41
20 TO 39 YEARS	2 341	77	59	71	122	182	535	498	380	91	32	293	39
40 YEARS OR MORE	183	3	7	8	4	12	51	38	36	9	5	12	40
DON'T KNOW	533	13	20	27	20	36	130	104	110	29	7	37	40
NOT REPORTED	80	2	1	2	2	7	21	15	20	2	4	5	42

[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 HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE C-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	45	21	45	40	44	86	53	68	14	6	80	32
WITH SELECTED HEATING EQUIPMENT[3]	11 077	284	235	321	594	770	2 445	2 092	2 076	524	172	1 562	40
NO MAINTENANCE OR MODIFICATION	8 268	193	168	253	469	593	1 886	1 554	1 518	387	118	1 130	40
WITH MAINTENANCE OR MODIFICATION	2 736	89	66	67	121	174	543	526	538	135	51	428	42
NOT REPORTED	72	2	1	1	4	4	16	13	20	2	4	5	44
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	45	21	45	40	44	86	53	68	14	6	80	32
WITH SELECTED HEATING EQUIPMENT[3]	11 077	284	235	321	594	770	2 445	2 092	2 076	524	172	1 562	40
NO MAINTENANCE CONTRACT	10 355	256	206	292	568	724	2 312	1 979	1 949	489	161	1 420	41
WITH MAINTENANCE CONTRACT	652	26	28	28	23	44	118	100	108	32	7	138	38
NOT REPORTED	70	2	1	1	3	2	15	14	19	4	4	5	45
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	44	10	2	5	4	-	4	3	5	-	1	10	...
WITH HOT PIPED WATER	11 536	319	255	360	630	815	2 527	2 142	2 139	538	178	1 633	40
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 302	314	251	351	616	797	2 481	2 101	2 095	533	170	1 593	40
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	42	-	-	2	2	3	9	7	14	-	-	6	43
NOT REPORTED	189	5	4	7	13	14	37	31	31	5	8	33	38
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	7 067	150	139	212	399	536	1 596	1 314	1 399	345	116	862	40
ROOM UNITS	3 381	85	84	115	196	280	826	616	610	159	54	355	38
1	2 285	55	59	75	149	195	565	404	386	96	39	263	38
2	850	17	24	28	40	73	207	173	156	45	11	75	39
3	189	9	2	9	3	11	44	30	54	13	3	12	43
4	42	3	-	2	2	2	10	7	10	4	2	2	43
5 OR MORE	16	-	-	2	2	-	-	3	3	2	-	4	...
CENTRAL SYSTEM	3 686	65	55	96	203	257	769	698	789	186	61	506	42
WITH NO AIR CONDITIONING	4 512	179	117	153	235	279	936	831	746	193	63	781	39
PERSONS													
1 PERSON	1 576	77	34	86	150	173	390	222	195	48	11	191	34
2 PERSONS	3 587	95	95	133	229	336	875	636	549	105	35	498	37
3 PERSONS	2 023	53	44	57	88	118	476	398	358	93	27	311	40
4 PERSONS	2 406	52	50	48	112	118	484	500	525	117	46	354	43
5 PERSONS	1 195	29	19	20	39	46	199	255	294	87	34	174	46
6 PERSONS	470	10	8	7	4	15	67	82	146	45	14	72	51
7 PERSONS OR MORE	322	14	6	14	12	9	39	53	77	45	11	42	48
MEDIAN	2.8	2.4	2.5	2.2	2.2	2.2	2.5	3.0	3.4	3.7	3.9	2.9	...
SPECIFIED OWNER OCCUPIED[2]	11 580	329	256	365	634	815	2 531	2 145	2 144	538	179	1 642	40
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 580	329	256	365	634	815	2 531	2 145	2 144	538	179	1 642	40
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	10 049	262	209	298	520	717	2 211	1 883	1 839	467	145	1 497	40
SOME WINDOWS COVERED	1 042	40	33	31	77	64	225	182	219	53	24	95	40
NO WINDOWS COVERED	443	25	14	35	34	32	84	74	75	16	6	48	36
NOT REPORTED	44	2	-	2	3	2	12	6	11	2	4	2	42
STORM DOORS													
ALL DOORS COVERED	9 862	257	215	307	528	720	2 229	1 894	1 811	440	125	1 336	40
SOME DOORS COVERED	1 025	49	25	27	71	69	181	177	202	59	31	135	41
NO DOORS COVERED	648	21	17	30	32	24	110	69	121	37	19	168	41
NOT REPORTED	44	2	-	2	3	2	11	6	11	2	4	2	42
ATTIC OR ROOF INSULATION													
YES	10 495	289	239	324	574	743	2 279	1 960	1 901	484	148	1 555	40
NO	737	30	11	28	33	47	152	135	171	44	24	61	42
DON'T KNOW	295	7	6	10	24	24	89	44	60	8	2	19	37
NOT REPORTED	52	3	-	3	3	2	11	6	13	2	4	7	42
SPECIFIED RENTER OCCUPIED[5]	5 907	528	293	263	272	266	499	354	323	108	55	2 947	27
HOUSE HEATING FUEL													
GAS	4 535	401	252	237	252	257	480	344	313	101	54	1 844	28
UTILITY GAS	4 342	392	250	232	236	246	444	329	279	85	43	1 807	28
BOTTLED, TANK, OR LP GAS	193	9	2	5	17	11	36	16	34	17	11	37	39
OTHER THAN GAS	1 363	126	41	26	19	10	17	10	10	6	1	1 097	11
FUEL OIL	616	93	27	16	17	5	12	7	8	4	1	426	10
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	672	17	11	8	2	2	5	2	2	1	-	621	13
COAL OR COKE	17	7	1	-	1	-	-	-	-	-	-	8	...
WOOD	23	7	-	2	-	3	-	-	-	1	-	11	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	35	2	3	-	-	-	-	-	-	-	-	30	...
NONE	9	1	-	-	1	-	2	-	-	-	-	6	...

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]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: 1979--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													
WATER HEATING FUEL[3]													
GAS	4 482	439	253	232	235	237	449	316	281	94	47	1 899	27
UTILITY GAS	4 328	431	246	223	218	227	429	304	261	85	41	1 863	27
BOTTLED, TANK, OR LP GAS	153	8	7	8	17	10	20	12	20	9	6	36	34
OTHER FUEL	1 379	79	40	29	35	30	47	38	40	12	7	1 023	23
NONE	7	-	-	-	-	-	1	-	-	-	-	6	...
COOKING FUEL													
GAS	3 442	435	200	175	179	189	345	253	233	88	38	1 309	27
UTILITY GAS	3 215	385	188	162	162	176	319	235	207	74	32	1 275	27
BOTTLED, TANK, OR LP GAS	227	50	12	13	17	13	26	17	25	14	6	34	27
OTHER FUEL	2 426	93	94	88	93	77	154	100	90	20	16	1 601	27
NONE	39	-	-	-	-	-	-	1	-	-	1	37	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 878	301	154	150	157	171	314	236	210	79	36	1 071	28
ALL OTHER FUEL COMBINATIONS OR NONE	3 029	226	140	114	115	95	185	118	113	29	19	1 876	23
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 104	195	190	175	187	194	363	255	230	81	37	1 197	30
HEAT PUMP	16	3	2	-	-	-	-	-	-	-	-	11	...
STEAM OR HOT WATER	1 619	264	45	34	19	17	28	33	39	10	9	1 120	10-
BUILT-IN ELECTRIC UNITS	447	9	5	2	2	-	2	2	-	-	-	425	...
FLOOR, WALL, OR PIPELESS FURNACE	187	13	12	16	20	25	18	12	14	4	-	52	26
ROOM HEATERS WITH FLUE	436	29	37	30	41	23	73	45	39	12	6	101	31
ROOM HEATERS WITHOUT FLUE	35	2	-	2	2	-	7	8	-	1	2	13	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	54	12	2	3	2	8	6	-	-	1	-	21	...
NONE	9	1	-	-	1	-	2	-	-	-	-	6	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	9	1	-	-	1	-	2	-	-	-	-	6	...
WITH HEATING EQUIPMENT	5 898	527	293	263	272	266	497	354	323	108	55	2 941	27
NO THERMOSTAT CONTROL	1 609	294	79	50	33	28	56	50	32	9	13	964	11
WITH THERMOSTAT CONTROL	4 275	233	215	213	237	238	441	304	291	99	42	1 964	30
NOT CLOCK OPERATED	3 984	208	192	196	216	214	413	286	275	85	39	1 862	31
CONSTANT TEMPERATURE SETTING MAINTAINED	1 594	83	82	78	88	64	176	94	118	37	15	758	31
TEMPERATURE SETTING IS CHANGED	2 343	122	109	117	123	150	228	191	154	45	24	1 082	30
OCCASIONALLY	774	39	39	28	40	44	62	65	53	13	9	381	31
REGULARLY	1 519	78	68	83	77	100	163	123	95	30	13	689	31
DON'T KNOW	49	4	1	6	6	4	3	3	6	2	2	12	26
NOT REPORTED	2	1	-	-	-	2	-	-	-	-	-	-	...
NOT REPORTED	47	2	2	2	5	-	8	1	2	4	-	22	...
CLOCK OPERATED	286	22	22	16	21	24	27	18	16	14	3	102	27
NOT REPORTED	5	3	-	-	-	-	2	-	-	-	-	-	...
NOT REPORTED	14	-	-	-	2	-	-	-	-	-	-	13	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	64	12	2	3	2	8	7	-	-	1	-	28	21
WITH SELECTED HEATING EQUIPMENT[4]	5 844	515	291	260	270	258	491	354	323	107	55	2 919	27
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 619	497	272	245	263	251	479	341	293	102	52	2 823	27
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	193	17	17	15	4	7	11	11	28	5	2	75	29
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	1	-
STOVE, BURNING WOOD OR COAL	33	2	5	2	2	-	4	4	2	-	1	12	...
FIREPLACE, BURNING WOOD OR COAL	1	-	1	-	-	-	-	-	-	-	-	-	...
PORTABLE ELECTRIC HEATER	124	10	11	13	1	6	6	7	19	2	-	49	27
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	6	2	-	-	-	-	2	-	-	-	-	3	...
OTHER	28	6	-	-	1	2	-	-	4	4	2	10	...
NOT REPORTED	4	-	-	-	-	-	-	-	2	-	-	2	...
NOT REPORTED	32	2	2	-	3	-	2	2	2	-	-	21	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	39	9	1	2	2	-	2	-	2	2	1	18	...
WITH HOT PIPED WATER	5 868	518	292	261	270	266	497	354	321	106	54	2 928	27
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 685	505	279	257	259	260	487	346	316	104	49	2 823	27
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	21	3	2	-	2	-	-	2	-	2	-	10	...
NOT REPORTED	155	10	12	4	9	6	9	6	6	-	5	90	23
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	2 945	247	142	130	120	125	231	132	104	28	12	1 674	24
ROOM UNITS	1 996	193	82	73	79	92	168	95	72	22	9	1 111	26
1	1 673	167	74	62	63	68	130	72	54	18	7	956	23
2	281	20	6	11	15	22	32	21	16	4	-	133	29
3	35	6	2	-	1	2	5	2	2	-	-	16	...
4	5	-	-	-	-	-	-	-	-	-	-	5	-
5 OR MORE	3	-	-	-	-	-	-	-	-	-	2	2	...
CENTRAL SYSTEM	948	54	60	57	41	33	64	37	32	6	3	563	22
WITH NO AIR CONDITIONING	2 963	280	151	133	153	142	267	222	219	80	43	1 273	29

[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]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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	2 402	231	103	94	93	89	162	87	62	19	10	1 452	22
2 PERSONS	1 686	169	99	75	90	86	138	90	77	15	10	837	24
3 PERSONS	899	75	43	53	42	43	97	72	81	29	7	357	31
4 PERSONS	520	28	29	28	26	31	76	65	46	12	14	166	34
5 PERSONS	213	13	12	9	8	14	14	25	31	13	2	71	40
6 PERSONS	107	8	6	1	10	3	5	10	17	9	2	34	42
7 PERSONS OR MORE	80	5	2	3	2	-	5	5	8	11	9	30	57
MEDIAN	1.8	1.7	1.9	2.0	2.0	2.0	2.1	2.5	2.8	3.2	3.5	1.5	...
SPECIFIED RENTER OCCUPIED[2]	5 907	528	293	263	272	266	499	354	323	108	55	2 947	27
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 812	113	81	107	129	128	248	211	209	84	35	468	34
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 083	58	53	50	87	83	145	133	119	44	19	291	34
SOME WINDOWS COVERED	358	26	8	25	22	21	58	33	59	28	11	67	37
NO WINDOWS COVERED	267	18	17	25	12	17	38	34	27	12	4	63	33
NOT REPORTED	104	11	3	8	7	6	7	11	3	-	2	46	24
STORM DOORS													
ALL DOORS COVERED	1 072	60	48	52	66	76	165	131	124	48	20	282	35
SOME DOORS COVERED	261	12	12	16	23	19	42	31	39	17	7	41	36
NO DOORS COVERED	374	30	18	31	30	27	34	37	43	19	7	99	30
NOT REPORTED	106	11	3	8	8	6	7	11	3	-	2	46	24
ATTIC OR ROOF INSULATION													
YES	999	54	42	51	73	82	143	113	113	43	18	268	34
NO	298	17	11	19	12	19	39	39	36	21	10	74	38
DON'T KNOW	407	31	25	30	35	21	58	49	56	20	5	77	34
NOT REPORTED	108	11	3	8	8	6	7	11	4	-	2	48	24

[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: 1979

(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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	11 580	345	167	107	223	282	233	216	122	237	9 647	443
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	1 450	45	40	73	181	247	201	182	103	214	164	528
FUEL OIL	1 380	38	33	67	174	241	198	180	102	214	133	535
COAL OR COKE	22	1	4	4	4	3	1	1	-	-	4	...
KEROSENE, ETC	5	-	-	-	1	-	-	1	-	-	3	...
WOOD	43	6	3	2	2	3	2	-	1	-	23	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	10 128	300	126	35	41	35	32	34	20	23	9 482	118
UTILITY GAS	8 817	239	97	21	34	25	24	24	12	17	8 326	107
BOTTLED, TANK, OR LP GAS	467	13	15	3	5	4	4	2	4	2	415	189
ELECTRICITY	840	49	15	11	3	6	5	7	4	4	737	118
SOLAR HEAT	1	-	-	-	-	-	-	-	-	-	1	-
OTHER FUEL	3	-	-	-	-	-	-	-	-	-	3	-
NONE	2	-	-	-	-	-	-	-	-	-	2	-
HEATING EQUIPMENT												
WARM-AIR FURNACE	9 369	277	117	77	181	235	188	177	92	160	7 866	442
HEAT PUMP	146	14	2	1	2	-	-	-	1	-	127	...
STEAM OR HOT WATER	877	17	14	6	13	17	16	20	16	61	695	635
BUILT-IN ELECTRIC UNITS	447	16	10	6	-	5	3	3	1	4	399	181
FLOOR, WALL, OR PIPELESS FURNACE	238	2	2	3	3	2	5	2	1	1	217	...
ROOM HEATERS WITH FLUE	388	10	8	8	16	19	17	11	10	9	279	466
ROOM HEATERS WITHOUT FLUE	15	1	-	1	2	1	-	-	-	-	10	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	99	10	14	6	5	5	3	3	1	2	52	202
NONE	2	-	-	-	-	-	-	-	-	-	2	-
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	2	-	-	-	-	-	-	-	-	-	2	-
WITH HEATING EQUIPMENT	11 578	345	167	107	223	282	233	216	122	237	9 646	443
NO THERMOSTAT CONTROL	315	9	11	13	19	19	16	9	9	10	200	428
WITH THERMOSTAT CONTROL	11 232	335	154	95	203	263	217	207	113	227	9 419	445
NOT CLOCK OPERATED	10 270	303	141	86	191	246	209	195	111	212	8 576	451
CONSTANT TEMPERATURE SETTING MAINTAINED	3 971	101	63	28	71	82	77	79	30	80	3 358	452
TEMPERATURE SETTING IS CHANGED	6 260	202	78	57	120	164	131	116	80	132	5 180	450
OCCASIONALLY	1 698	63	22	11	30	35	21	14	18	27	1 458	379
REGULARLY	4 501	139	56	46	89	129	109	102	62	102	3 666	467
DON'T KNOW	49	-	-	-	1	-	1	-	-	2	45	...
NOT REPORTED	12	-	-	-	1	-	-	-	-	-	11	...
NOT REPORTED	39	-	-	1	-	-	-	-	1	-	37	...
CLOCK OPERATED	961	32	13	8	12	17	8	12	2	15	841	352
NOT REPORTED	2	-	-	-	-	-	-	-	-	-	2	-
NOT REPORTED	31	2	2	-	-	1	-	-	-	-	27	...
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	20	22	14	23	25	20	14	11	11	343	404
WITH SELECTED HEATING EQUIPMENT[2]	11 077	325	145	93	200	258	213	202	111	226	9 304	447
LESS THAN 4 YEARS	1 731	71	40	20	25	33	27	28	9	40	1 438	361
4 TO 9 YEARS	2 645	92	30	23	36	46	49	40	21	39	2 268	416
10 TO 19 YEARS	3 563	97	44	22	55	81	65	59	32	66	3 041	453
20 TO 39 YEARS	2 341	47	21	26	70	88	58	57	43	70	1 862	486
40 YEARS OR MORE	183	3	2	2	3	-	5	6	3	3	157	...
DON'T KNOW	533	12	6	1	9	9	7	10	3	8	469	452
NOT REPORTED	80	3	3	-	1	-	2	2	-	-	69	...
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	20	22	14	23	25	20	14	11	11	343	404
WITH SELECTED HEATING EQUIPMENT[2]	11 077	325	145	93	200	258	213	202	111	226	9 304	447
NO MAINTENANCE OR MODIFICATION	8 268	218	95	69	140	145	126	129	63	121	7 161	421
WITH MAINTENANCE OR MODIFICATION	2 736	104	48	24	60	111	86	72	48	105	2 078	483
NOT REPORTED	72	3	2	-	-	1	1	1	-	-	65	...
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	503	20	22	14	23	25	20	14	11	11	343	404
WITH SELECTED HEATING EQUIPMENT[2]	11 077	325	145	93	200	258	213	202	111	226	9 304	447
NO MAINTENANCE CONTRACT	10 355	299	126	92	182	230	183	182	98	192	8 772	440
WITH MAINTENANCE CONTRACT	652	23	16	1	18	27	28	18	13	34	473	516
NOT REPORTED	70	4	3	-	-	-	2	2	-	-	59	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	44	3	5	3	2	2	5	1	2	3	19	...
WITH HOT PIPED WATER	11 536	342	162	105	220	281	228	215	120	235	9 628	444
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 302	339	157	105	217	274	225	211	117	229	9 428	443
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	42	-	-	-	-	-	-	2	1	2	38	...
NOT REPORTED	189	3	5	-	3	6	3	2	1	3	161	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
WITH AIR CONDITIONING	7 067	238	101	59	101	121	100	82	52	103	6 110	379
ROOM UNITS	3 381	76	35	35	49	75	65	42	35	66	2 904	458
1	2 285	45	23	26	34	64	42	34	28	39	1 951	461
2	850	25	7	9	14	9	17	6	5	22	736	421
3	189	3	4	-	2	2	7	2	2	4	163	...
4	42	2	-	-	-	-	-	-	-	-	40	...
5 OR MORE	16	2	-	-	-	-	-	-	-	1	13	...
CENTRAL SYSTEM	3 686	162	66	24	52	46	35	40	18	37	3 206	248
WITH NO AIR CONDITIONING	4 512	107	66	49	121	161	133	134	70	134	3 537	489

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
PERSONS												
1 PERSON	1 576	32	18	19	35	45	39	34	20	21	1 312	460
2 PERSONS	3 587	94	52	41	80	100	63	54	37	74	2 992	430
3 PERSONS	2 023	59	32	18	32	44	51	40	27	38	1 682	464
4 PERSONS	2 406	94	36	17	36	55	39	37	22	53	2 015	420
5 PERSONS	1 195	47	17	6	19	25	27	27	9	29	989	457
6 PERSONS	470	10	8	3	13	5	9	10	5	11	397	465
7 PERSONS OR MORE	322	9	3	2	8	8	6	14	3	10	259	522
MEDIAN	2.8	3.3	2.9	2.3	2.5	2.5	2.8	3.0	2.6	3.1	2.8	...
SPECIFIED OWNER OCCUPIED[1]	11 580	345	167	107	223	282	233	216	122	237	9 647	443
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 580	345	167	107	223	282	233	216	122	237	9 647	443
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	10 049	304	146	93	187	243	203	173	96	200	8 403	438
SOME WINDOWS COVERED	1 042	25	10	10	25	30	21	21	14	32	855	480
NO WINDOWS COVERED	443	16	9	5	10	10	9	21	9	5	350	468
NOT REPORTED	44	-	2	-	-	-	-	-	4	-	39	...
STORM DOORS												
ALL DOORS COVERED	9 862	271	134	88	185	250	201	175	101	195	8 263	449
SOME DOORS COVERED	1 025	39	21	13	23	23	19	26	7	24	829	408
NO DOORS COVERED	648	36	9	7	15	9	13	14	10	18	517	388
NOT REPORTED	44	-	2	-	-	-	-	-	4	-	39	...
ATTIC OR ROOF INSULATION												
YES	10 495	324	152	96	209	260	210	191	108	224	8 721	440
NO	737	16	8	10	12	19	13	20	11	7	620	464
DON'T KNOW	295	5	4	1	2	3	10	5	-	4	261	...
NOT REPORTED	52	1	3	-	-	-	-	-	4	2	44	...
SPECIFIED RENTER OCCUPIED[2]	5 907	68	15	27	43	45	28	46	18	80	5 538	471
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	656	20	8	20	35	40	25	36	17	62	394	533
FUEL OIL	616	14	7	15	35	38	24	34	16	61	372	554
COAL OR COKE	17	1	-	4	-	2	-	-	-	1	9	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	23	5	1	1	1	-	1	2	1	-	13	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	5 242	48	7	7	7	5	3	10	2	18	5 134	179
UTILITY GAS	4 342	38	2	4	5	4	3	7	2	6	4 271	100-
BOTTLED, TANK, OR LP GAS	193	2	2	2	2	1	-	2	-	10	172	...
ELECTRICITY	672	8	3	1	-	-	-	2	-	2	656	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	35	-	-	-	-	-	-	-	-	-	35	-
NONE	9	-	-	-	-	-	-	-	-	-	9	-
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 104	39	8	19	30	38	20	31	11	50	2 859	470
HEAT PUMP	16	-	1	-	-	-	-	-	-	-	16	...
STEAM OR HOT WATER	1 619	7	-	1	-	1	1	3	1	10	1 595	...
BUILT-IN ELECTRIC UNITS	447	3	2	-	-	-	-	1	-	1	441	...
FLOOR, WALL, OR PIPELESS FURNACE	187	-	1	2	2	3	-	-	2	4	174	...
ROOM HEATERS WITH FLUE	436	7	2	2	11	4	6	10	4	14	376	559
ROOM HEATERS WITHOUT FLUE	35	-	1	-	-	-	-	-	-	1	34	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	54	12	1	3	1	-	2	2	1	1	33	...
NONE	9	-	-	-	-	-	-	-	-	-	9	-
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	9	-	-	-	-	-	-	-	-	-	9	-
WITH HEATING EQUIPMENT	5 898	68	15	27	43	45	28	46	18	80	5 529	471
NO THERMOSTAT CONTROL	1 609	19	2	8	13	3	7	8	4	8	1 537	353
WITH THERMOSTAT CONTROL	4 275	49	12	19	30	42	21	38	15	71	3 977	490
NOT CLOCK OPERATED	3 984	43	12	19	29	38	20	36	11	70	3 706	493
CONSTANT TEMPERATURE SETTING MAINTAINED	1 594	19	5	6	12	13	9	15	2	30	1 483	504
TEMPERATURE SETTING IS CHANGED	2 343	24	7	13	18	25	12	21	8	40	2 177	487
OCCASIONALLY	774	5	2	3	3	6	3	8	3	8	733	545
REGULARLY	1 519	19	5	10	15	20	8	11	5	30	1 396	467
DON'T KNOW	49	-	-	-	-	-	-	2	-	1	46	...
NOT REPORTED	2	-	-	-	-	-	-	-	-	1	2	...
NOT REPORTED	47	-	-	-	-	-	-	1	-	-	47	...
CLOCK OPERATED	286	6	-	-	1	4	1	2	4	2	267	...
NOT REPORTED	5	-	-	-	-	-	-	-	-	-	5	-
NOT REPORTED	14	-	-	-	-	-	-	-	-	-	14	-
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	39	4	1	3	3	1	1	1	1	2	23	...
WITH HOT PIPED WATER	5 868	64	14	24	40	45	27	45	18	77	5 515	478
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 685	62	14	24	38	44	27	45	18	77	5 337	483
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	21	-	-	-	-	-	-	-	-	-	21	-
NOT REPORTED	155	2	-	-	2	1	-	-	-	-	150	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-

[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.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	2 945	29	5	9	9	16	9	13	3	19	2 833	425
ROOM UNITS	1 996	13	3	7	8	14	8	12	3	19	1 909	487
1	1 673	12	3	5	7	12	8	9	3	15	1 599	480
2	281	-	-	-	-	2	1	3	-	1	275	...
3	35	1	-	-	2	-	-	-	-	3	29	...
4	5	-	-	-	-	-	-	-	-	-	5	-
5 OR MORE	3	-	-	2	-	-	-	-	-	-	2	...
CENTRAL SYSTEM	948	16	2	2	1	2	1	1	-	1	924	...
WITH NO AIR CONDITIONING	2 963	40	10	17	34	30	19	33	15	60	2 705	496
PERSONS												
1 PERSON	2 402	21	5	6	15	8	6	8	1	14	2 319	366
2 PERSONS	1 686	24	4	6	12	21	6	13	4	27	1 569	459
3 PERSONS	899	11	3	8	5	9	9	11	5	17	822	532
4 PERSONS	520	6	2	6	5	3	4	5	3	10	476	502
5 PERSONS	213	3	1	-	3	2	1	5	2	5	192	...
6 PERSONS	107	2	-	-	3	2	1	-	1	5	94	...
7 PERSONS OR MORE	80	2	1	1	-	-	2	4	3	2	66	...
MEDIAN	1.8	2.0	...	...	2.0	2.2	...	2.7	...	2.5	1.8	...
SPECIFIED RENTER OCCUPIED[1]	5 907	68	15	27	43	45	28	46	18	80	5 538	471
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 812	35	15	16	37	45	26	39	17	67	1 517	501
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 083	21	9	9	23	26	15	24	8	45	903	517
SOME WINDOWS COVERED	358	8	2	3	6	14	9	10	8	13	285	545
NO WINDOWS COVERED	267	7	4	5	5	3	2	4	-	8	230	350
NOT REPORTED	104	-	-	-	2	2	-	2	-	-	98	...
STORM DOORS												
ALL DOORS COVERED	1 072	18	8	8	20	29	18	30	13	46	882	564
SOME DOORS COVERED	261	7	-	2	4	8	4	3	-	6	227	...
NO DOORS COVERED	374	10	6	6	11	6	3	5	4	14	308	392
NOT REPORTED	106	-	-	-	2	2	1	2	-	-	100	...
ATTIC OR ROOF INSULATION												
YES	999	21	11	12	13	25	22	24	9	40	822	530
NO	298	8	2	2	15	5	2	9	5	20	230	546
DON'T KNOW	407	6	2	2	6	13	2	5	3	7	361	449
NOT REPORTED	108	-	-	-	2	2	-	2	-	-	103	...

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

TABLE C-11. HOUSEHOLD HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1979

(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	HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE OR MOTOR-CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME OR NOT REPORTED
HOUSING UNITS WITH EMPLOYED HEADS[1]	14 435	10 150	2 300	633	161	12	548	44	587
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	10 367	7 562	1 669	296	103	3	236	36	462
LESS THAN 1 MILE	736	441	59	-	20	-	210	5	2
1 TO 4 MILES	2 302	1 893	265	61	41	2	21	12	7
5 TO 9 MILES	1 941	1 574	279	62	18	2	-	2	3
10 TO 19 MILES	2 140	1 591	455	73	15	-	-	2	3
20 TO 29 MILES	853	550	258	39	6	-	-	-	-
30 TO 49 MILES	457	254	160	41	1	-	-	1	-
50 MILES OR MORE	107	62	43	2	-	-	-	-	-
WORKS AT HOME	422	-	-	-	-	-	-	-	422
NO FIXED PLACE OF WORK	1 268	1 099	135	11	2	-	4	14	3
NOT REPORTED	140	97	15	6	-	-	-	1	21
MEDIAN	8.2	7.7	13.4	12.2	4.0	...	1.0-	...	...
RENTER OCCUPIED	4 068	2 588	631	337	58	9	312	8	126
LESS THAN 1 MILE	540	217	44	9	8	-	258	1	4
1 TO 4 MILES	1 130	784	135	137	20	5	40	4	5
5 TO 9 MILES	814	570	133	95	10	2	2	1	1
10 TO 19 MILES	686	499	132	49	8	-	-	-	-
20 TO 29 MILES	227	157	57	13	-	-	-	-	-
30 TO 49 MILES	104	51	45	6	2	-	-	-	-
50 MILES OR MORE	29	14	15	-	1	-	-	-	-
WORKS AT HOME	104	-	-	-	-	-	-	-	104
NO FIXED PLACE OF WORK	369	262	63	18	10	2	11	3	1
NOT REPORTED	66	35	7	12	-	-	2	-	10
MEDIAN	5.6	6.3	8.8	5.4	4.3	...	1.0-	...	...
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	10 367	7 562	1 669	296	103	3	236	36	462
LESS THAN 15 MINUTES	3 263	2 635	343	14	49	2	197	16	7
15 TO 29 MINUTES	3 119	2 442	561	51	35	-	24	3	5
30 TO 44 MINUTES	1 377	910	354	85	15	2	8	-	3
45 TO 59 MINUTES	494	278	162	52	1	-	-	2	-
1 HOUR TO 1 HOUR AND 29 MINUTES	267	115	83	68	1	-	-	1	-
1 HOUR AND 30 MINUTES OR MORE	85	42	27	15	1	-	-	-	-
WORKS AT HOME	422	-	-	-	-	-	-	-	422
NO FIXED PLACE OF WORK	1 268	1 099	135	11	2	-	4	14	3
NOT REPORTED	70	40	6	-	-	-	2	1	21
MEDIAN	20.0	18.5	26.2	43.7	15.6	...	15.0-	...	...
RENTER OCCUPIED	4 068	2 588	631	337	58	9	312	8	126
LESS THAN 15 MINUTES	1 568	1 082	172	33	30	5	238	4	4
15 TO 29 MINUTES	1 251	869	221	95	12	2	48	-	5
30 TO 44 MINUTES	454	254	99	83	5	-	11	1	-
45 TO 59 MINUTES	149	63	39	44	1	-	2	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	106	30	29	44	-	-	2	-	2
1 HOUR AND 30 MINUTES OR MORE	31	8	5	17	1	-	-	-	-
WORKS AT HOME	104	-	-	-	-	-	-	-	104
NO FIXED PLACE OF WORK	369	262	63	18	10	2	11	3	1
NOT REPORTED	36	21	2	3	-	-	1	-	10
MEDIAN	17.5	16.2	22.5	35.5	15.0-	...	15.0-	...	...

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

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979

(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	25 585	14 469	6 874	7 595	11 116
HOUSE HEATING FUEL					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
UTILITY GAS	8 206	5 068	2 508	2 560	3 138
BOTTLED, TANK, OR LP GAS	1 750	412	48	365	1 337
FUEL OIL	2 082	1 124	418	706	958
KEROSENE, ETC	182	56	26	30	127
ELECTRICITY	4 657	2 320	628	1 692	2 337
COAL OR COKE	83	15	3	11	69
WOOD	412	62	14	48	351
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	6	2	-	2	4
NONE	67	53	19	34	14
RENTER OCCUPIED	8 141	5 358	3 210	2 148	2 783
UTILITY GAS	3 849	2 566	1 694	872	1 282
BOTTLED, TANK, OR LP GAS	519	128	28	99	392
FUEL OIL	831	580	316	264	251
KEROSENE, ETC	96	29	10	19	67
ELECTRICITY	2 418	1 890	1 087	803	528
COAL OR COKE	58	16	10	6	42
WOOD	223	38	6	32	185
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	3	2	2	1	1
NONE	143	108	56	52	35
WATER HEATING FUEL					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
NO HOT PIPED WATER	277	49	7	43	227
WITH HOT PIPED WATER	17 168	9 061	3 657	5 404	8 107
FUEL USED:					
UTILITY GAS	7 111	4 768	2 478	2 290	2 343
BOTTLED, TANK, OR LP GAS	1 040	262	23	239	778
FUEL OIL	264	201	50	151	63
KEROSENE, ETC	5	1	-	1	4
ELECTRICITY	8 713	3 807	1 098	2 708	4 906
COAL OR COKE	1	-	-	-	1
WOOD	6	3	2	2	3
SOLAR HEAT	15	11	3	7	5
OTHER FUEL	9	6	2	4	3
NONE	4	3	-	3	2
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	8 141	5 358	3 210	2 148	2 783
NO HOT PIPED WATER	333	59	10	49	273
WITH HOT PIPED WATER	7 808	5 299	3 200	2 099	2 509
FUEL USED:					
UTILITY GAS	3 672	2 715	1 846	869	957
BOTTLED, TANK, OR LP GAS	317	96	34	63	221
FUEL OIL	259	232	92	140	27
KEROSENE, ETC	3	1	-	1	2
ELECTRICITY	3 516	2 226	1 211	1 016	1 290
COAL OR COKE	1	1	-	1	-
WOOD	3	1	-	1	2
SOLAR HEAT	2	2	-	2	-
OTHER FUEL	15	11	7	5	3
NONE	20	14	11	3	6
NOT REPORTED	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
UTILITY GAS	4 773	3 007	1 672	1 335	1 766
BOTTLED, TANK, OR LP GAS	1 739	463	83	380	1 276
FUEL OIL	9	7	2	5	2
KEROSENE, ETC	3	-	-	-	3
ELECTRICITY	10 840	5 611	1 903	3 708	5 229
COAL OR COKE	6	2	2	1	3
WOOD	61	13	2	11	49
OTHER FUEL	6	2	-	2	3
NONE	7	5	-	5	3
RENTER OCCUPIED	8 141	5 358	3 210	2 148	2 783
UTILITY GAS	3 398	2 522	1 679	844	875
BOTTLED, TANK, OR LP GAS	618	194	49	144	424
FUEL OIL	4	3	-	3	1
KEROSENE, ETC	6	2	2	-	4
ELECTRICITY	4 033	2 608	1 467	1 141	1 425
COAL OR COKE	2	-	-	-	2
WOOD	47	11	2	10	36
OTHER FUEL	6	6	3	3	-
NONE	27	11	8	3	16

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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]	13 990	7 911	3 382	4 529	6 079
LESS THAN $10	83	36	26	10	47
$10 TO $19	1 081	530	316	214	551
$20 TO $29	1 962	1 031	547	483	931
$30 TO $39	2 250	1 258	587	671	992
$40 TO $49	1 932	1 089	450	639	843
$50 TO $59	1 853	1 064	401	663	789
$60 TO $79	2 448	1 401	512	888	1 047
$80 TO $99	1 118	683	240	443	435
$100 TO $149	1 024	661	245	416	363
$150 OR MORE	228	153	56	98	75
NO ELECTRICITY USED	12	7	3	3	5
MEDIAN	48	50	44	53	46
SPECIFIED RENTER OCCUPIED[2]	7 854	5 309	3 208	2 101	2 545
LESS THAN $10	318	203	149	55	114
$10 TO $19	1 188	719	478	241	469
$20 TO $29	1 335	818	527	291	517
$30 TO $39	1 162	734	426	308	428
$40 TO $49	738	492	273	219	246
$50 TO $59	597	381	187	195	215
$60 TO $79	586	430	207	222	157
$80 TO $99	183	143	78	64	40
$100 TO $149	132	93	38	55	39
$150 OR MORE	18	12	5	7	7
INCLUDED IN RENT	1 571	1 265	823	442	305
NO ELECTRICITY USED	27	19	18	2	8
MEDIAN	32	33	31	37	30
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	13 990	7 911	3 382	4 529	6 079
LESS THAN $10	695	406	249	157	289
$10 TO $14	940	569	288	281	371
$15 TO $19	1 028	605	339	266	423
$20 TO $24	1 330	733	358	375	597
$25 TO $29	1 145	661	353	309	483
$30 TO $39	1 767	1 054	473	581	713
$40 TO $49	1 032	694	286	408	339
$50 TO $69	1 005	628	287	341	377
$70 TO $99	250	160	66	94	90
$100 OR MORE	82	58	29	28	24
NO GAS USED	4 717	2 344	655	1 689	2 373
MEDIAN	27	28	26	30	26
SPECIFIED RENTER OCCUPIED[2]	7 854	5 309	3 208	2 101	2 545
LESS THAN $10	646	447	301	145	199
$10 TO $14	573	343	201	142	230
$15 TO $19	494	314	211	103	180
$20 TO $24	448	239	152	87	209
$25 TO $29	278	159	109	50	119
$30 TO $39	458	258	176	82	200
$40 TO $49	222	119	76	43	103
$50 TO $69	228	137	80	58	90
$70 TO $99	45	30	17	13	15
$100 OR MORE	28	10	5	6	18
INCLUDED IN RENT	2 085	1 596	983	613	489
NO GAS USED	2 350	1 657	897	759	693
MEDIAN	19	18	18	18	21
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	13 990	7 911	3 382	4 529	6 079
LESS THAN $100	559	340	155	185	219
$100 TO $199	413	199	66	133	214
$200 TO $299	334	134	60	73	201
$300 TO $399	378	178	76	102	200
$400 TO $499	282	165	75	90	117
$500 TO $599	229	139	61	78	90
$600 TO $699	178	110	38	72	67
$700 TO $799	95	61	19	43	34
$800 OR MORE	156	120	45	75	36
FUELS NOT USED OR FREE	11 366	6 465	2 788	3 677	4 901
MEDIAN	301	328	321	333	277

[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: 1979--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.--CONTINUED					
SPECIFIED RENTER OCCUPIED[1]	7 854	5 309	3 208	2 101	2 545
LESS THAN $100	132	58	31	27	74
$100 TO $199	126	53	27	26	73
$200 TO $299	129	43	22	21	86
$300 TO $399	135	66	28	38	69
$400 TO $499	57	32	18	13	25
$500 TO $599	60	31	17	14	28
$600 TO $699	59	24	11	12	35
$700 TO $799	19	15	5	10	4
$800 OR MORE	41	23	5	18	18
INCLUDED IN RENT	649	496	292	204	153
FUELS NOT USED OR FREE	6 448	4 468	2 753	1 716	1 980
MEDIAN	293	327	309	341	269
ALL OCCUPIED HOUSING UNITS	25 585	14 469	6 874	7 595	11 116
HEATING EQUIPMENT					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
WARM-AIR FURNACE	9 386	5 570	2 057	3 514	3 816
HEAT PUMP	711	390	67	323	321
STEAM OR HOT WATER	531	409	208	201	122
BUILT-IN ELECTRIC UNITS	1 391	602	219	384	788
FLOOR, WALL, OR PIPELESS FURNACE	1 472	755	483	272	717
ROOM HEATERS WITH FLUE	1 226	443	217	226	783
ROOM HEATERS WITHOUT FLUE	1 613	611	309	302	1 002
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 048	278	85	193	770
NONE	67	53	19	34	14
RENTER OCCUPIED	8 141	5 358	3 210	2 148	2 783
WARM-AIR FURNACE	3 362	2 594	1 401	1 193	768
HEAT PUMP	138	92	32	59	47
STEAM OR HOT WATER	558	512	364	148	46
BUILT-IN ELECTRIC UNITS	697	491	303	188	206
FLOOR, WALL, OR PIPELESS FURNACE	767	439	319	120	328
ROOM HEATERS WITH FLUE	776	340	212	128	437
ROOM HEATERS WITHOUT FLUE	1 192	606	442	164	586
FIREPLACES, STOVES, OR PORTABLE HEATERS	508	177	81	97	330
NONE	143	108	56	52	35
THERMOSTAT CONTROLLED HEATING EQUIPMENT					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
NO HEATING EQUIPMENT	67	53	19	34	14
WITH HEATING EQUIPMENT	17 378	9 058	3 645	5 413	8 320
NO THERMOSTAT CONTROL	3 612	1 315	626	689	2 297
WITH THERMOSTAT CONTROL	13 719	7 707	2 997	4 711	6 012
NOT CLOCK OPERATED	11 311	6 368	2 368	4 000	4 943
CONSTANT TEMPERATURE SETTING MAINTAINED	4 161	2 263	849	1 414	1 898
TEMPERATURE SETTING IS CHANGED	7 082	4 068	1 510	2 559	3 014
OCCASIONALLY	2 234	1 265	478	787	969
REGULARLY	4 736	2 726	1 004	1 722	2 009
DON'T KNOW	96	66	21	46	30
NOT REPORTED	16	11	7	4	5
NOT REPORTED	68	37	9	27	31
CLOCK OPERATED	2 399	1 333	624	709	1 067
NOT REPORTED	9	7	5	2	2
NOT REPORTED	47	36	22	13	11
RENTER OCCUPIED	8 141	5 358	3 210	2 148	2 783
NO HEATING EQUIPMENT	143	108	56	52	35
WITH HEATING EQUIPMENT	7 998	5 250	3 154	2 096	2 747
NO THERMOSTAT CONTROL	2 993	1 643	1 097	546	1 350
WITH THERMOSTAT CONTROL	4 971	3 584	2 050	1 534	1 387
NOT CLOCK OPERATED	4 121	2 953	1 654	1 298	1 169
CONSTANT TEMPERATURE SETTING MAINTAINED	1 628	1 179	643	536	448
TEMPERATURE SETTING IS CHANGED	2 391	1 693	958	735	698
OCCASIONALLY	848	646	386	260	202
REGULARLY	1 465	993	542	451	473
DON'T KNOW	70	49	29	21	21
NOT REPORTED	7	5	2	3	2
NOT REPORTED	103	81	54	27	22
CLOCK OPERATED	845	628	392	236	217
NOT REPORTED	5	3	3	-	2
NOT REPORTED	33	23	6	17	10

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

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	25 585	14 469	6 874	7 595	11 116
UNITS OCCUPIED LAST WINTER	21 347	11 787	5 534	6 253	9 560
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	15 974	8 319	3 411	4 908	7 655
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	7 427	3 020	4 408	5 949
NO ADDITIONAL HEAT SOURCE USED	11 862	6 582	2 633	3 948	5 281
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	1 150	664	294	370	486
NOT REPORTED	364	182	93	89	182
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	892	391	501	1 706
RENTER OCCUPIED	5 373	3 468	2 123	1 344	1 905
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	2 819	1 689	1 130	1 201
NO ADDITIONAL HEAT SOURCE USED	3 377	2 369	1 410	959	1 008
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	494	345	212	133	149
NOT REPORTED	149	105	67	38	43
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	649	434	214	705
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	15 974	8 319	3 411	4 908	7 655
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	7 427	3 020	4 408	5 949
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 102	5 828	2 196	3 632	4 273
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 938	1 428	736	692	1 510
1 ROOM	645	346	148	198	299
2 ROOMS	688	287	171	116	402
3 ROOMS OR MORE	1 604	795	417	379	809
NOT REPORTED	337	171	88	83	166
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	892	391	501	1 706
RENTER OCCUPIED	5 373	3 468	2 123	1 344	1 905
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	2 819	1 689	1 130	1 201
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 733	2 113	1 247	866	621
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 121	587	363	224	535
1 ROOM	276	174	96	77	102
2 ROOMS	391	203	134	69	189
3 ROOMS OR MORE	454	211	133	78	244
NOT REPORTED	165	119	79	40	45
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	649	434	214	705
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	15 974	8 319	3 411	4 908	7 655
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	7 427	3 020	4 408	5 949
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	892	391	501	1 706
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 205	742	330	412	1 463
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	322	124	48	77	198
NOT REPORTED	71	26	14	12	45
RENTER OCCUPIED	5 373	3 468	2 123	1 344	1 905
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	2 819	1 689	1 130	1 201
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	649	434	214	705
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 006	477	326	151	529
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	273	124	69	55	149
NOT REPORTED	75	48	39	9	27

[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: 1979--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	25 585	14 469	6 874	7 595	11 116
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 115	330	104	226	784
WITH SELECTED HEATING EQUIPMENT[1]	16 330	8 780	3 560	5 221	7 549
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 406	8 357	3 420	4 937	7 049
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	849	383	127	256	465
SOLAR HEATING EQUIPMENT	2	2	-	2	1
STOVE, BURNING WOOD OR COAL	316	111	25	86	206
FIREPLACE, BURNING WOOD OR COAL	114	49	10	39	65
PORTABLE ELECTRIC HEATER	238	140	58	83	97
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	61	25	5	19	36
OTHER	121	56	26	31	65
NOT REPORTED	9	6	4	2	3
NOT REPORTED	75	40	12	28	35
RENTER OCCUPIED	8 141	5 358	3 210	2 148	2 783
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	651	285	137	148	366
WITH SELECTED HEATING EQUIPMENT[1]	7 490	5 073	3 073	2 000	2 417
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 183	4 878	2 951	1 927	2 305
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	238	135	81	53	104
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	36	18	10	8	18
FIREPLACE, BURNING WOOD OR COAL	4	2	-	2	2
PORTABLE ELECTRIC HEATER	143	89	53	36	54
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	42	18	13	5	24
OTHER	13	8	5	3	5
NOT REPORTED	2	2	-	2	1
NOT REPORTED	69	60	40	20	9
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	1 384	630	754	2 569
WITH SELECTED HEATING EQUIPMENT[2]	13 491	7 726	3 033	4 693	5 764
LESS THAN 4 YEARS	3 156	1 708	545	1 162	1 448
4 TO 9 YEARS	4 426	2 326	788	1 538	2 100
10 TO 19 YEARS	3 848	2 259	919	1 340	1 589
20 TO 39 YEARS	1 396	934	466	468	461
40 YEARS OR MORE	74	65	43	23	8
DON'T KNOW	508	373	234	139	135
NOT REPORTED	84	62	39	23	22
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	1 384	630	754	2 569
WITH SELECTED HEATING EQUIPMENT[2]	13 491	7 726	3 033	4 693	5 764
NO MAINTENANCE OR MODIFICATION	11 029	6 139	2 364	3 775	4 889
WITH MAINTENANCE OR MODIFICATION	2 365	1 521	634	887	844
NOT REPORTED	97	66	35	31	31
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	1 384	630	754	2 569
WITH SELECTED HEATING EQUIPMENT[2]	13 491	7 726	3 033	4 693	5 764
NO MAINTENANCE CONTRACT	11 901	6 608	2 637	3 970	5 294
WITH MAINTENANCE CONTRACT	1 481	1 042	354	689	438
NOT REPORTED	108	76	42	34	32

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

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
NO HOT PIPED WATER	277	49	7	43	227
WITH HOT PIPED WATER	17 168	9 061	3 657	5 404	8 107
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	16 609	8 812	3 553	5 259	7 798
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	90	59	29	30	31
NOT REPORTED	449	177	72	106	271
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	8 141	5 358	3 210	2 148	2 783
NO HOT PIPED WATER	333	59	10	49	273
WITH HOT PIPED WATER	7 808	5 299	3 200	2 099	2 509
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 504	5 106	3 071	2 035	2 398
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	36	31	23	8	6
NOT REPORTED	246	146	95	51	100
NOT REPORTED	-	-	-	-	-
AIR CONDITIONING					
OWNER OCCUPIED	17 444	9 111	3 663	5 447	8 334
WITH AIR CONDITIONING	13 444	7 591	2 985	4 606	5 852
ROOM UNITS	6 032	3 050	1 482	1 568	2 982
1	3 402	1 469	634	835	1 932
2	1 860	1 055	565	491	805
3	574	392	212	180	182
4	143	92	50	41	52
5 OR MORE	53	42	21	21	12
CENTRAL SYSTEM	7 411	4 541	1 504	3 038	2 870
WITH NO AIR CONDITIONING	4 001	1 519	678	841	2 481
RENTER OCCUPIED	8 141	5 358	3 210	2 148	2 783
WITH AIR CONDITIONING	5 296	3 888	2 189	1 699	1 408
ROOM UNITS	2 497	1 562	990	572	935
1	1 831	1 126	747	378	706
2	537	349	199	151	188
3	99	65	31	34	34
4	20	16	9	7	4
5 OR MORE	9	6	5	2	3
CENTRAL SYSTEM	2 800	2 326	1 199	1 127	474
WITH NO AIR CONDITIONING	2 844	1 470	1 021	449	1 374
ALL OCCUPIED HOUSING UNITS	25 585	14 469	6 874	7 595	11 116
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	20 723	10 489	4 417	6 071	10 234
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	16 892	8 650	3 477	5 173	8 242
ALL WINDOWS COVERED	5 733	2 752	958	1 794	2 981
SOME WINDOWS COVERED	1 681	940	358	583	741
NO WINDOWS COVERED	9 425	4 916	2 147	2 768	4 510
NOT REPORTED	52	41	13	28	11
RENTER OCCUPIED	3 831	1 839	941	898	1 992
ALL WINDOWS COVERED	699	337	151	186	362
SOME WINDOWS COVERED	293	160	62	98	134
NO WINDOWS COVERED	2 699	1 256	669	587	1 443
NOT REPORTED	140	87	59	28	53
STORM DOORS					
OWNER OCCUPIED	16 892	8 650	3 477	5 173	8 242
ALL DOORS COVERED	5 484	2 554	1 005	1 549	2 930
SOME DOORS COVERED	3 185	1 683	637	1 046	1 503
NO DOORS COVERED	8 167	4 372	1 821	2 551	3 795
NOT REPORTED	55	41	13	28	14
RENTER OCCUPIED	3 831	1 839	941	898	1 992
ALL DOORS COVERED	648	316	147	169	332
SOME DOORS COVERED	383	181	89	92	202
NO DOORS COVERED	2 662	1 256	647	609	1 406
NOT REPORTED	138	86	59	27	52

[1]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: 1979--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	16 892	8 650	3 477	5 173	8 242
YES	13 505	7 056	2 686	4 370	6 449
NO	2 753	1 239	627	613	1 514
DON'T KNOW	571	309	147	162	262
NOT REPORTED	63	45	17	29	18
RENTER OCCUPIED	3 831	1 839	941	898	1 992
YES	1 464	719	289	430	745
NO	1 384	607	334	273	777
DON'T KNOW	831	425	257	168	406
NOT REPORTED	152	89	61	28	64
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	16 892	8 650	3 477	5 173	8 242
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	9 425	4 916	2 147	2 768	4 510
SOME OR ALL WINDOWS COVERED	7 414	3 693	1 316	2 377	3 722
NONE ADDED OR INSTALLED	6 137	3 022	1 077	1 945	3 115
SOME OR ALL ADDED OR INSTALLED	1 186	632	234	398	554
NOT REPORTED	91	39	5	34	52
NOT REPORTED	52	41	13	28	11
STORM DOORS:					
NO DOORS COVERED	8 167	4 372	1 821	2 551	3 795
SOME OR ALL DOORS COVERED	8 669	4 236	1 642	2 595	4 433
NONE ADDED OR INSTALLED	7 353	3 526	1 370	2 156	3 826
SOME OR ALL ADDED OR INSTALLED	1 045	561	221	341	483
NOT REPORTED	272	149	51	98	123
NOT REPORTED	55	41	13	28	14
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	2 753	1 239	627	613	1 514
WITH ATTIC OR ROOF INSULATION	13 505	7 056	2 686	4 370	6 449
NONE ADDED OR INSTALLED	11 991	6 280	2 409	3 871	5 710
SOME OR ALL ADDED OR INSTALLED	1 229	653	236	417	576
LESS THAN 3 INCHES ADDED	94	52	21	30	43
3 TO 6 INCHES ADDED	517	286	101	184	232
6 INCHES OR MORE ADDED	412	204	62	142	208
DON'T KNOW	137	83	37	46	54
NOT REPORTED	69	29	14	15	39
NOT REPORTED	285	122	41	81	163
DON'T KNOW	571	309	147	162	262
NOT REPORTED	63	45	17	29	18
WALL INSULATION:					
NONE ADDED OR INSTALLED	15 976	8 176	3 320	4 857	7 800
SOME OR ALL ADDED OR INSTALLED	822	401	135	266	421
NOT REPORTED	94	72	22	50	21
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	13 711	6 762	2 789	3 973	6 948
SOME OR ALL ADDED OR INSTALLED	2 991	1 766	638	1 127	1 226
DON'T KNOW	136	81	36	45	55
NOT REPORTED	54	41	13	28	13
OTHER INSULATION:					
NONE ADDED OR INSTALLED	16 004	8 204	3 343	4 861	7 800
SOME OR ALL ADDED OR INSTALLED	783	366	108	258	417
NOT REPORTED	105	80	25	54	25

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	3 831	1 839	941	898	1 992
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	2 699	1 256	669	587	1 443
SOME OR ALL WINDOWS COVERED	992	497	213	284	496
NONE ADDED OR INSTALLED	793	412	179	233	382
SOME OR ALL ADDED OR INSTALLED	182	74	30	44	108
NOT REPORTED	17	10	3	7	6
NOT REPORTED	140	87	59	28	53
STORM DOORS:					
NO DOORS COVERED	2 662	1 256	647	609	1 406
SOME OR ALL DOORS COVERED	1 031	497	235	262	534
NONE ADDED OR INSTALLED	883	423	198	225	460
SOME OR ALL ADDED OR INSTALLED	118	59	28	32	58
NOT REPORTED	30	15	10	5	15
NOT REPORTED	138	86	59	27	52
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	1 384	607	334	273	777
WITH ATTIC OR ROOF INSULATION	1 464	719	289	430	745
NONE ADDED OR INSTALLED	1 309	645	258	387	664
SOME OR ALL ADDED OR INSTALLED	93	42	16	27	51
LESS THAN 3 INCHES ADDED	4	2	2	1	2
3 TO 6 INCHES ADDED	29	10	6	4	19
6 INCHES OR MORE ADDED	30	21	7	14	9
DON'T KNOW	27	8	1	7	19
NOT REPORTED	3	1	-	1	1
NOT REPORTED	62	31	15	16	31
DON'T KNOW	831	425	257	168	406
NOT REPORTED	152	89	61	28	64
WALL INSULATION:					
NONE ADDED OR INSTALLED	3 562	1 696	856	840	1 866
SOME OR ALL ADDED OR INSTALLED	76	26	5	21	50
NOT REPORTED	194	117	79	38	77
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	3 071	1 445	743	702	1 626
SOME OR ALL ADDED OR INSTALLED	349	172	68	104	177
DON'T KNOW	267	135	73	62	132
NOT REPORTED	144	87	57	29	58
OTHER INSULATION:					
NONE ADDED OR INSTALLED	3 523	1 681	855	826	1 842
SOME OR ALL ADDED OR INSTALLED	118	42	11	31	76
NOT REPORTED	190	116	74	41	75
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	16 892	8 650	3 477	5 173	8 242
NO INSULATION ADDED OR INSTALLED	11 591	5 726	2 398	3 328	5 865
WITH INSULATION ADDED OR INSTALLED	4 725	2 627	979	1 648	2 098
LESS THAN $50	1 873	1 034	358	676	839
$50 TO $99	516	283	102	181	233
$100 TO $199	500	263	105	158	238
$200 TO $399	513	273	104	169	240
$400 OR MORE	765	423	168	255	342
DON'T KNOW	284	180	78	101	104
NOT REPORTED	274	173	64	108	102
MEDIAN	70	68	79	62	72
NOT REPORTED OR DON'T KNOW	576	296	100	196	280
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	415	197	75	121	218
LESS THAN $50	174	83	21	62	91
$50 TO $99	32	10	3	6	22
$100 TO $199	55	22	14	8	32
$200 TO $399	46	18	5	13	28
$400 OR MORE	57	38	19	19	20
DON'T KNOW	20	10	5	5	10
NOT REPORTED	30	16	8	8	14
MEDIAN	62	62	149	50-	62

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
ONLY ADDED OR INSTALLED STORM DOORS	412	207	78	130	205
LESS THAN $50	71	30	15	15	41
$50 TO $99	161	77	23	54	83
$100 TO $199	103	59	24	35	44
$200 TO $399	28	15	5	10	14
$400 OR MORE	20	10	2	8	10
DON'T KNOW	7	6	3	3	1
NOT REPORTED	23	10	5	5	12
MEDIAN	87	92	91	92	82
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	618	303	128	176	315
LESS THAN $50	63	25	12	13	37
$50 TO $99	77	50	26	24	27
$100 TO $199	113	55	17	38	58
$200 TO $399	126	56	24	32	70
$400 OR MORE	104	45	16	29	59
DON'T KNOW	72	38	21	18	34
NOT REPORTED	65	34	12	22	31
MEDIAN	189	172	156	180	210
ALL OCCUPIED HOUSING UNITS	25 585	14 469	6 874	7 595	11 116
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	11 801	6 538	2 502	4 036	5 263
DRIVES SELF	8 742	4 975	1 945	3 030	3 767
CARPOOL	2 242	1 122	369	754	1 120
MASS TRANSPORTATION	193	183	99	85	9
BICYCLE OR MOTORCYCLE	74	39	15	24	35
TAXICAB	5	2	2	-	4
WALKS ONLY	182	80	32	48	102
OTHER MEANS	62	30	7	23	32
WORKS AT HOME	265	81	26	56	183
NOT REPORTED	36	25	9	17	11
RENTER OCCUPIED	5 663	3 863	2 220	1 643	1 800
DRIVES SELF	3 609	2 492	1 385	1 108	1 117
CARPOOL	1 194	731	405	326	464
MASS TRANSPORTATION	315	305	240	66	10
BICYCLE OR MOTORCYCLE	68	56	28	28	12
TAXICAB	18	13	10	3	5
WALKS ONLY	344	216	134	83	128
OTHER MEANS	20	14	3	11	7
WORKS AT HOME	77	24	13	11	53
NOT REPORTED	17	13	4	10	4
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	11 801	6 538	2 502	4 036	5 263
LESS THAN 1 MILE	724	232	91	141	492
1 TO 4 MILES	2 426	1 262	659	603	1 164
5 TO 9 MILES	2 276	1 469	646	823	807
10 TO 19 MILES	2 585	1 717	563	1 153	868
20 TO 29 MILES	965	527	99	427	439
30 TO 49 MILES	681	266	49	217	415
50 MILES OR MORE	199	53	20	33	146
WORKS AT HOME	265	81	26	56	183
NO FIXED PLACE OF WORK	1 506	813	287	526	693
NOT REPORTED	173	118	61	57	56
MEDIAN	8.9	9.3	7.4	11.1	8.1
RENTER OCCUPIED	5 663	3 863	2 220	1 643	1 800
LESS THAN 1 MILE	599	307	188	120	291
1 TO 4 MILES	1 492	956	643	313	535
5 TO 9 MILES	1 204	949	544	405	255
10 TO 19 MILES	1 040	782	414	368	258
20 TO 29 MILES	295	210	89	121	86
30 TO 49 MILES	170	89	35	55	80
50 MILES OR MORE	58	22	9	13	36
WORKS AT HOME	77	24	13	11	53
NO FIXED PLACE OF WORK	579	390	196	194	188
NOT REPORTED	150	133	89	43	17
MEDIAN	6.4	7.1	6.2	8.3	4.6

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

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	11 801	6 538	2 502	4 036	5 263
LESS THAN 15 MINUTES	3 385	1 580	706	873	1 805
15 TO 29 MINUTES	3 736	2 417	1 017	1 399	1 319
30 TO 44 MINUTES	1 646	1 012	287	725	634
45 TO 59 MINUTES	610	338	85	253	273
1 HOUR TO 1 HOUR AND 29 MINUTES	443	200	57	142	244
1 HOUR AND 30 MINUTES OR MORE	105	35	7	29	69
WORKS AT HOME	265	81	26	56	183
NO FIXED PLACE OF WORK	1 506	813	287	526	693
NOT REPORTED	106	63	31	32	43
MEDIAN	21.3	22.5	20.5	23.9	19.1
RENTER OCCUPIED	5 663	3 863	2 220	1 643	1 800
LESS THAN 15 MINUTES	1 954	1 148	693	455	806
15 TO 29 MINUTES	1 844	1 392	821	572	452
30 TO 44 MINUTES	751	586	314	271	165
45 TO 59 MINUTES	206	148	75	73	58
1 HOUR TO 1 HOUR AND 29 MINUTES	142	102	64	38	40
1 HOUR AND 30 MINUTES OR MORE	65	40	23	17	24
WORKS AT HOME	77	24	13	11	53
NO FIXED PLACE OF WORK	579	390	196	194	188
NOT REPORTED	46	33	21	12	13
MEDIAN	19.2	21.0	20.5	21.7	15.0-

[1]LIMITED TO HEADS 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: 1979

(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	25 585	2 073	4 247	3 024	4 723	3 518	2 900	2 985	1 387	493	234	13600
HOUSE HEATING FUEL												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
UTILITY GAS	8 206	467	1 162	747	1 299	1 136	1 110	1 273	654	244	113	16900
BOTTLED, TANK, OR LP GAS	1 750	187	399	215	338	249	169	138	36	14	6	11100
FUEL OIL	2 082	100	330	233	373	295	262	275	130	58	25	15100
KEROSENE, ETC	182	20	44	29	40	22	14	7	6	1	-	9900
ELECTRICITY	4 657	131	400	391	762	767	743	826	419	137	81	19200
COAL OR COKE	83	13	17	23	13	5	5	4	2	-	-	8500
WOOD	412	51	97	55	82	62	33	25	6	2	-	10200
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	6	1	2	1	-	2	-	-	1	-	-	...
NONE	67	5	6	10	19	14	7	3	2	-	-	13300
RENTER OCCUPIED	8 141	1 098	1 791	1 321	1 797	965	556	434	131	38	9	9700
UTILITY GAS	3 849	602	941	601	817	431	237	147	50	16	6	8900
BOTTLED, TANK, OR LP GAS	519	85	139	93	98	54	26	20	4	-	-	8100
FUEL OIL	831	84	181	150	175	91	73	57	16	5	-	10000
KEROSENE, ETC	96	11	25	16	23	10	2	8	-	-	-	9200
ELECTRICITY	2 418	209	377	384	620	351	204	195	58	17	3	11900
COAL OR COKE	58	14	18	10	10	4	1	1	-	-	-	6200
WOOD	223	61	66	35	32	15	9	4	-	-	-	6000
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	3	2	1	-	-	1	-	-	-	-	-	...
NONE	143	29	44	33	22	8	3	3	2	-	-	6900
WATER HEATING FUEL												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
NO HOT PIPED WATER	277	84	104	38	31	15	3	1	2	-	-	5100
WITH HOT PIPED WATER	17 168	891	2 352	1 665	2 895	2 539	2 340	2 550	1 255	456	225	16500
FUEL USED:												
UTILITY GAS	7 111	361	953	622	1 095	999	993	1 161	597	225	104	17600
BOTTLED, TANK, OR LP GAS	1 040	101	218	123	202	139	118	91	30	16	2	11900
FUEL OIL	264	9	32	17	35	33	27	44	37	16	13	20900
KEROSENE, ETC	5	1	2	1	1	-	1	-	-	-	-	...
ELECTRICITY	8 713	414	1 141	899	1 556	1 362	1 198	1 250	590	198	106	16300
COAL OR COKE	1	-	-	-	-	-	1	-	-	-	-	...
WOOD	6	2	2	-	1	-	1	-	-	1	-	...
SOLAR HEAT	15	-	2	-	3	2	2	4	2	1	-	...
OTHER FUEL	9	1	2	2	2	2	-	-	-	-	-	...
NONE	4	2	1	-	-	1	-	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	8 141	1 098	1 791	1 321	1 797	965	556	434	131	38	9	9700
NO HOT PIPED WATER	333	119	120	39	37	8	7	3	-	-	-	4600
WITH HOT PIPED WATER	7 808	979	1 672	1 283	1 760	957	549	431	131	38	9	9900
FUEL USED:												
UTILITY GAS	3 672	529	902	582	780	429	230	146	54	16	4	9100
BOTTLED, TANK, OR LP GAS	317	42	74	65	64	31	23	13	3	-	2	9000
FUEL OIL	259	12	53	44	59	33	18	27	12	2	-	11900
KEROSENE, ETC	3	1	-	-	2	-	1	-	-	-	-	...
ELECTRICITY	3 516	381	632	589	851	462	275	245	58	20	3	10900
COAL OR COKE	1	-	-	-	1	-	-	-	-	-	-	...
WOOD	3	1	2	-	-	-	-	-	-	-	-	...
SOLAR HEAT	2	-	-	-	-	-	-	-	2	-	-	...
OTHER FUEL	15	8	3	-	2	2	-	-	-	-	-	...
NONE	20	6	5	3	1	-	3	-	1	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
UTILITY GAS	4 773	342	834	523	822	720	584	568	240	91	47	14200
BOTTLED, TANK, OR LP GAS	1 739	188	420	235	370	226	148	108	29	13	2	10400
FUEL OIL	9	-	1	1	1	2	3	2	-	-	-	...
KEROSENE, ETC	3	-	2	-	1	-	-	-	1	-	-	...
ELECTRICITY	10 840	417	1 178	935	1 724	1 600	1 604	1 870	985	350	176	18600
COAL OR COKE	6	1	3	1	-	1	-	-	-	-	-	...
WOOD	61	25	17	7	3	2	4	2	2	-	-	4400
OTHER FUEL	6	-	-	1	3	1	1	-	-	-	-	...
NONE	7	2	2	-	2	1	-	-	-	1	-	...
RENTER OCCUPIED	8 141	1 098	1 791	1 321	1 797	965	556	434	131	38	9	9700
UTILITY GAS	3 398	526	883	553	706	347	200	125	42	13	2	8600
BOTTLED, TANK, OR LP GAS	618	111	171	127	100	54	32	17	3	2	2	7600
FUEL OIL	4	1	-	-	2	-	1	-	-	-	-	...
KEROSENE, ETC	6	2	3	-	-	-	-	-	-	-	-	...
ELECTRICITY	4 033	426	708	629	985	560	322	291	85	22	5	11300
COAL OR COKE	2	2	-	-	-	-	-	-	-	-	-	...
WOOD	47	24	13	6	2	1	1	1	-	-	-	3000-
OTHER FUEL	6	-	3	1	-	2	-	-	-	-	-	...
NONE	27	6	10	6	2	2	1	-	1	-	-	...
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[1]	13 990	695	1 826	1 262	2 236	2 068	1 987	2 207	1 117	394	199	17400
LESS THAN $10	83	30	29	7	8	2	2	2	2	-	-	4500
$10 TO $19	1 081	172	398	139	156	77	72	41	18	7	3	6700
$20 TO $29	1 962	177	467	252	354	271	214	137	69	14	6	11200
$30 TO $39	2 250	89	340	260	439	366	302	307	104	28	14	15000
$40 TO $49	1 932	68	195	196	343	326	286	316	145	37	20	17500
$50 TO $59	1 853	45	154	155	314	305	291	348	173	46	21	19200
$60 TO $79	2 448	52	130	137	365	407	431	534	251	99	42	21500
$80 TO $99	1 118	21	54	59	138	164	211	241	155	50	27	22900
$100 TO $149	1 024	31	43	49	94	131	152	247	159	81	37	25500
$150 OR MORE	228	4	13	6	24	19	27	34	41	32	29	31400
NO ELECTRICITY USED	12	5	4	2	1	-	-	-	1	-	-	...
MEDIAN	48	27	30	38	44	49	54	58	64	72	76	...

[1]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: 1979--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]	7 854	1 053	1 708	1 282	1 745	935	539	422	124	37	8	9700
LESS THAN $10	318	101	109	32	46	17	6	2	2	2	-	5100
$10 TO $19	1 188	250	385	180	207	86	42	24	14	-	-	6600
$20 TO $29	1 335	184	336	252	295	132	74	47	10	3	2	8800
$30 TO $39	1 162	132	232	207	294	132	94	46	18	6	-	10200
$40 TO $49	738	52	111	128	201	126	54	46	13	5	2	11900
$50 TO $59	597	40	93	97	128	105	55	53	20	6	-	12700
$60 TO $79	586	34	65	92	153	97	70	56	13	6	-	13300
$80 TO $99	183	16	23	26	38	26	24	26	3	-	1	13500
$100 TO $149	132	7	10	13	32	22	13	21	8	3	3	16100
$150 OR MORE	18	-	2	-	7	4	2	3	-	-	-	...
INCLUDED IN RENT	1 571	228	337	251	344	183	103	97	23	5	-	9600
NO ELECTRICITY USED	27	10	6	5	-	5	2	-	-	-	-	...
MEDIAN	32	23	25	32	35	40	40	48	45	...	...	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	13 990	695	1 826	1 262	2 236	2 068	1 987	2 207	1 117	394	199	17400
LESS THAN $10	695	59	111	78	134	93	81	78	36	13	11	13700
$10 TO $14	940	72	184	102	161	131	110	104	43	25	8	13500
$15 TO $19	1 028	79	197	105	172	144	110	134	67	10	11	13900
$20 TO $24	1 330	86	216	122	207	188	194	178	104	21	13	15900
$25 TO $29	1 145	64	177	120	181	180	155	163	67	29	8	15800
$30 TO $39	1 767	88	207	157	278	259	231	331	151	49	15	18000
$40 TO $49	1 032	39	123	76	143	147	163	171	103	50	18	19600
$50 TO $69	1 005	44	122	79	145	129	143	165	104	40	34	19400
$70 TO $99	250	6	25	16	38	36	30	44	25	21	8	20600
$100 OR MORE	82	2	10	11	17	14	8	8	7	2	2	15300
NO GAS USED	4 717	154	456	397	760	747	762	831	407	132	70	19000
MEDIAN	27	23	24	26	26	27	28	31	32	36	38	...
SPECIFIED RENTER OCCUPIED[1]	7 854	1 053	1 708	1 282	1 745	935	539	422	124	37	8	9700
LESS THAN $10	646	122	164	120	111	74	30	16	4	5	-	7900
$10 TO $14	573	91	152	91	120	66	29	15	8	-	2	8500
$15 TO $19	498	74	129	88	126	35	24	9	6	2	-	8500
$20 TO $24	448	51	112	78	103	44	36	15	5	2	1	9300
$25 TO $29	278	39	62	40	63	41	15	10	4	2	1	9800
$30 TO $39	458	65	109	62	114	47	29	27	5	-	-	9700
$40 TO $49	222	16	72	26	41	33	18	6	4	3	2	9600
$50 TO $69	228	27	57	35	32	29	24	16	8	-	-	9500
$70 TO $99	45	6	6	7	5	7	5	9	2	-	-	14500
$100 OR MORE	28	9	3	4	8	-	2	1	2	-	-	...
INCLUDED IN RENT	2 085	321	442	332	459	247	129	116	31	8	-	9500
NO GAS USED	2 350	232	401	399	563	310	198	182	46	16	3	11300
MEDIAN	19	17	19	18	20	21	23	28	25	...	...	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	13 990	695	1 826	1 262	2 236	2 068	1 987	2 207	1 117	394	199	17400
LESS THAN $100	559	31	56	42	57	71	80	134	61	16	13	21500
$100 TO $199	413	24	71	44	77	59	47	51	28	4	7	14400
$200 TO $299	334	19	50	39	63	42	56	39	22	4	-	14700
$300 TO $399	378	23	78	42	57	53	47	51	14	11	3	14000
$400 TO $499	282	16	52	26	50	28	39	46	18	5	3	14800
$500 TO $599	229	11	33	23	46	21	31	33	17	13	2	15500
$600 TO $699	178	15	13	10	31	30	26	25	21	6	2	18500
$700 TO $799	95	3	15	8	8	14	10	23	6	2	5	19500
$800 OR MORE	156	6	26	11	18	17	17	29	15	14	3	20000
FUELS NOT USED OR FREE	11 366	548	1 433	1 019	1 829	1 732	1 635	1 776	914	320	160	17500
MEDIAN	301	297	325	292	312	287	287	278	256	447	184	...
SPECIFIED RENTER OCCUPIED[1]	7 854	1 053	1 708	1 282	1 745	935	539	422	124	37	8	9700
LESS THAN $100	132	33	42	17	22	8	5	5	-	-	-	6200
$100 TO $199	126	32	33	16	24	8	6	3	2	1	2	6700
$200 TO $299	129	26	39	21	30	6	3	4	-	-	-	7000
$300 TO $399	135	16	37	28	24	16	10	3	-	2	-	8600
$400 TO $499	57	11	5	7	14	14	4	2	1	-	-	12100
$500 TO $599	60	2	14	12	14	7	6	4	1	-	-	10700
$600 TO $699	59	1	5	11	9	9	8	13	3	-	-	17100
$700 TO $799	19	1	3	5	3	5	1	2	-	-	-	...
$800 OR MORE	41	3	8	6	9	6	6	3	-	1	-	12400
INCLUDED IN RENT	649	72	152	108	149	87	37	36	5	3	-	9800
FUELS NOT USED OR FREE	6 448	859	1 371	1 052	1 447	770	451	348	113	31	7	9800
MEDIAN	293	189	244	324	294	412	419	559	...	...	...	...
ALL OCCUPIED HOUSING UNITS	25 585	2 073	4 247	3 024	4 723	3 518	2 900	2 985	1 387	493	234	13600
HEATING EQUIPMENT												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
WARM-AIR FURNACE	9 386	283	868	742	1 467	1 403	1 453	1 741	927	338	165	19800
HEAT PUMP	711	14	24	31	73	98	130	180	107	38	17	24500
STEAM OR HOT WATER	531	22	71	36	73	68	76	96	49	23	17	19600
BUILT-IN ELECTRIC UNITS	1 391	46	151	145	275	262	217	184	74	21	16	16500
FLOOR, WALL, OR PIPELESS FURNACE	1 472	101	298	181	334	220	150	129	43	12	3	12300
ROOM HEATERS WITH FLUE	1 226	158	324	188	223	133	110	63	15	9	3	9100
ROOM HEATERS WITHOUT FLUE	1 613	231	469	216	268	200	109	91	21	6	1	8500
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 048	114	246	154	196	155	90	63	18	9	3	10200
NONE	67	5	6	10	19	14	7	3	2	-	-	13300

[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: 1979--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	8 141	1 098	1 791	1 321	1 797	965	556	434	131	38	9	9700
WARM-AIR FURNACE	3 362	257	521	547	848	477	315	265	99	27	8	12100
HEAT PUMP	138	13	21	12	33	25	18	13	3	-	-	13500
STEAM OR HOT WATER	558	73	137	94	112	63	44	29	6	2	-	9200
BUILT-IN ELECTRIC UNITS	697	104	133	121	157	93	40	38	6	5	-	9800
FLOOR, WALL, OR PIPELESS FURNACE	767	109	198	107	180	85	41	35	9	2	-	9100
ROOM HEATERS WITH FLUE	776	146	222	119	149	75	41	22	2	-	-	7500
ROOM HEATERS WITHOUT FLUE	1 192	250	372	200	212	97	31	21	5	3	-	6700
FIREPLACES, STOVES, OR PORTABLE HEATERS	508	117	144	88	84	42	23	8	-	-	2	6800
NONE	143	29	44	33	22	8	3	3	2	-	-	6900
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
NO HEATING EQUIPMENT	67	5	6	10	19	14	7	3	2	-	-	13300
WITH HEATING EQUIPMENT	17 378	969	2 450	1 693	2 908	2 539	2 336	2 547	1 254	456	225	16300
NO THERMOSTAT CONTROL	3 612	469	947	494	658	479	284	204	50	18	9	9400
WITH THERMOSTAT CONTROL	13 719	498	1 495	1 191	2 243	2 057	2 047	2 339	1 201	436	213	18500
NOT CLOCK OPERATED	11 311	394	1 154	939	1 845	1 714	1 715	2 007	1 010	359	174	18900
CONSTANT TEMPERATURE SETTING MAINTAINED	4 161	184	441	361	714	653	635	698	334	104	36	17900
TEMPERATURE SETTING IS CHANGED	7 082	209	712	574	1 119	1 049	1 068	1 296	667	251	136	19400
OCCASIONALLY	2 234	83	263	202	356	342	319	403	169	52	46	18100
REGULARLY	4 736	126	436	354	735	695	739	876	488	197	90	20100
DON'T KNOW	96	-	13	18	26	10	7	13	8	1	-	13200
NOT REPORTED	16	-	-	-	2	3	3	5	1	2	-	...
NOT REPORTED	68	2	1	5	12	11	11	13	9	4	1	21800
CLOCK OPERATED	2 399	103	340	251	398	341	331	329	189	77	39	16600
NOT REPORTED	9	-	1	1	-	2	2	2	2	-	-	...
NOT REPORTED	47	3	9	8	7	4	4	4	3	2	3	12600
RENTER OCCUPIED	8 141	1 098	1 791	1 321	1 797	965	556	434	131	38	9	9700
NO HEATING EQUIPMENT	143	29	44	33	22	8	3	3	2	-	-	6900
WITH HEATING EQUIPMENT	7 998	1 069	1 748	1 289	1 775	957	553	431	129	38	9	9800
NO THERMOSTAT CONTROL	2 993	585	862	517	554	265	114	76	13	6	2	7300
WITH THERMOSTAT CONTROL	4 971	479	875	765	1 215	690	437	355	117	31	8	11500
NOT CLOCK OPERATED	4 121	390	727	609	1 008	582	368	305	98	25	8	11700
CONSTANT TEMPERATURE SETTING MAINTAINED	1 628	167	304	247	405	232	128	108	31	4	2	11200
TEMPERATURE SETTING IS CHANGED	2 391	216	408	348	578	332	230	191	64	19	4	11900
OCCASIONALLY	848	83	169	137	180	107	82	61	22	8	-	11000
REGULARLY	1 465	122	219	200	386	221	140	121	41	11	4	12500
DON'T KNOW	70	10	20	10	10	4	7	8	2	-	-	8500
NOT REPORTED	7	1	1	1	2	-	-	2	-	-	-	...
NOT REPORTED	103	7	15	14	25	18	11	6	3	2	1	13000
CLOCK OPERATED	845	87	145	156	206	108	69	50	18	6	-	10900
NOT REPORTED	5	2	2	-	1	-	-	-	-	-	-	...
NOT REPORTED	33	5	11	7	6	2	2	-	-	-	-	...
ALL OCCUPIED HOUSING UNITS	25 585	2 073	4 247	3 024	4 723	3 518	2 900	2 985	1 387	493	234	13600
UNITS OCCUPIED LAST WINTER	21 347	1 715	3 584	2 420	3 803	2 947	2 463	2 582	1 197	427	208	13900
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	15 974	929	2 328	1 591	2 664	2 316	2 107	2 307	1 121	408	204	16000
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	591	1 630	1 221	2 213	1 971	1 917	2 157	1 081	394	201	17600
NO ADDITIONAL HEAT SOURCE USED	11 862	494	1 393	1 035	1 963	1 777	1 748	1 949	963	360	179	17900
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	1 150	69	189	147	184	141	136	154	89	23	16	14600
NOT REPORTED	364	28	47	38	65	53	33	53	28	11	6	15300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	338	698	370	451	345	190	151	40	14	3	9100
RENTER OCCUPIED	5 373	786	1 256	829	1 139	631	356	275	77	19	4	9300
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	473	832	605	921	530	311	255	73	16	4	10500
NO ADDITIONAL HEAT SOURCE USED	3 377	397	661	503	768	456	279	229	64	13	4	10800
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	494	52	138	82	112	54	27	19	7	2	-	9100
NOT REPORTED	149	24	33	19	41	19	5	6	2	-	-	9800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	313	424	225	218	101	45	20	4	3	-	6400
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	15 974	929	2 328	1 591	2 664	2 316	2 107	2 307	1 121	408	204	16000
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	591	1 630	1 221	2 213	1 971	1 917	2 157	1 081	394	201	17600
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 102	330	1 004	811	1 574	1 504	1 568	1 836	932	361	182	19400
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 938	233	585	371	584	416	317	270	124	24	13	12400
1 ROOM	645	44	91	65	110	103	82	79	54	11	8	15600
2 ROOMS	688	67	161	102	137	89	50	60	19	3	-	10500
3 ROOMS OR MORE	1 604	123	334	204	337	225	185	131	51	10	5	12100
NOT REPORTED	337	28	41	38	56	51	32	51	24	10	6	15600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	338	698	370	451	345	190	151	40	14	3	9100
RENTER OCCUPIED	5 373	786	1 256	829	1 139	631	356	275	77	19	4	9300
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	473	832	605	921	530	311	255	73	16	4	10500
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 733	267	508	409	633	388	236	210	63	13	4	11400
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 121	182	289	166	245	120	69	40	8	2	-	8600
1 ROOM	276	47	62	33	75	28	19	5	4	2	-	9500
2 ROOMS	391	73	122	56	74	41	18	6	2	-	-	7100
3 ROOMS OR MORE	454	62	105	77	97	51	32	29	2	-	-	9400
NOT REPORTED	165	25	35	29	43	22	6	5	2	-	-	9400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	313	424	225	218	101	45	20	4	3	-	6400

[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: 1979--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	15 974	929	2 328	1 591	2 664	2 316	2 107	2 307	1 121	408	204	16000
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	591	1 630	1 221	2 213	1 971	1 917	2 157	1 081	394	201	17600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	338	698	370	451	345	190	151	40	14	3	9100
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 205	267	585	306	396	308	161	134	34	11	3	9400
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	322	64	99	49	41	26	20	16	5	2	-	6900
NOT REPORTED	71	6	13	16	13	11	9	2	2	-	-	10200
RENTER OCCUPIED	5 373	786	1 256	829	1 139	631	356	275	77	19	4	9300
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	473	832	605	921	530	311	255	73	16	4	10500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	313	424	225	218	101	45	20	4	3	-	6400
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 006	228	309	174	171	66	36	16	2	3	-	6600
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	273	70	96	36	36	22	7	4	2	-	-	5800
NOT REPORTED	75	15	19	15	11	13	2	-	-	-	-	7700
ALL OCCUPIED HOUSING UNITS	25 585	2 073	4 247	3 024	4 723	3 518	2 900	2 985	1 387	493	234	13600
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 115	120	251	164	214	168	98	67	21	9	3	10500
WITH SELECTED HEATING EQUIPMENT[2]	16 330	855	2 205	1 538	2 712	2 385	2 246	2 484	1 236	447	223	16800
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 406	794	2 110	1 451	2 565	2 256	2 112	2 323	1 167	424	205	16700
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	849	54	84	79	136	120	126	149	62	21	17	18000
SOLAR HEATING EQUIPMENT	2	-	-	-	2	-	-	1	-	-	-	....
STOVE, BURNING WOOD OR COAL	316	18	29	32	48	51	56	51	21	7	2	18000
FIREPLACE, BURNING WOOD OR COAL	114	5	4	5	12	19	22	33	9	5	1	22800
PORTABLE ELECTRIC HEATER	238	25	35	30	52	25	23	30	10	4	4	12800
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	61	2	10	3	11	13	6	11	1	4	-	16500
OTHER	121	5	6	7	12	15	21	22	22	2	10	23800
NOT REPORTED	9	-	-	2	1	1	2	3	-	1	-	...
NOT REPORTED	75	7	11	8	10	9	7	13	7	2	1	15600
RENTER OCCUPIED	8 141	1 098	1 791	1 321	1 797	965	556	434	131	38	9	9700
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	651	146	188	121	106	50	26	11	2	-	2	6800
WITH SELECTED HEATING EQUIPMENT[2]	7 490	952	1 603	1 201	1 691	915	530	423	129	38	8	10000
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 183	913	1 535	1 154	1 629	878	498	405	126	37	8	10000
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	238	25	52	35	51	34	24	14	3	1	-	10600
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	36	4	6	8	7	4	3	3	-	-	-	9800
FIREPLACE, BURNING WOOD OR COAL	4	-	-	-	2	1	2	-	-	-	-	...
PORTABLE ELECTRIC HEATER	143	14	36	16	28	21	15	8	3	1	-	10900
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	42	7	11	10	4	8	2	2	-	-	-	8200
OTHER	13	-	1	1	9	-	2	1	-	-	-	...
NOT REPORTED	2	-	-	1	1	-	1	-	-	-	-	...
NOT REPORTED	69	14	17	11	12	3	9	3	-	-	-	8000
AGE OF HEATING EQUIPMENT												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	508	1 045	568	705	502	318	220	57	24	7	9200
WITH SELECTED HEATING EQUIPMENT[3]	13 491	466	1 411	1 135	2 221	2 051	2 026	2 330	1 200	432	219	18700
LESS THAN 4 YEARS	3 156	79	204	240	501	501	538	603	311	126	53	20500
4 TO 9 YEARS	4 426	133	456	407	755	698	625	743	397	145	67	18300
10 TO 19 YEARS	3 848	148	430	330	608	568	548	681	343	115	76	18600
20 TO 39 YEARS	1 396	60	225	112	233	187	219	219	93	28	19	16800
40 YEARS OR MORE	74	8	12	4	11	8	8	11	8	2	1	16100
DON'T KNOW	508	30	75	34	100	76	81	60	35	13	2	15900
NOT REPORTED	84	8	10	8	12	13	5	12	12	4	1	16700
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	508	1 045	568	705	502	318	220	57	24	7	9200
WITH SELECTED HEATING EQUIPMENT[3]	13 491	466	1 411	1 135	2 221	2 051	2 026	2 330	1 200	432	219	18700
NO MAINTENANCE OR MODIFICATION	11 029	386	1 174	961	1 859	1 710	1 657	1 895	902	328	156	18300
WITH MAINTENANCE OR MODIFICATION	2 365	73	221	166	350	330	355	422	285	100	61	20600
NOT REPORTED	97	7	17	8	12	11	14	13	12	3	1	17600
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	508	1 045	568	705	502	318	220	57	24	7	9200
WITH SELECTED HEATING EQUIPMENT[3]	13 491	466	1 411	1 135	2 221	2 051	2 026	2 330	1 200	432	219	18700
NO MAINTENANCE CONTRACT	11 901	416	1 238	1 012	2 003	1 829	1 806	2 039	1 020	359	179	18500
WITH MAINTENANCE CONTRACT	1 481	42	161	110	199	207	214	273	168	68	38	20500
NOT REPORTED	108	8	12	13	18	15	6	18	12	5	1	15800

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
NO HOT PIPED WATER	277	84	104	38	31	15	3	1	2	-	-	5100
WITH HOT PIPED WATER	17 168	891	2 352	1 665	2 895	2 539	2 340	2 550	1 255	456	225	16500
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	16 609	846	2 241	1 601	2 811	2 468	2 267	2 482	1 225	448	218	16600
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	90	2	12	7	16	12	14	14	3	7	3	18400
NOT REPORTED	449	41	97	56	64	54	58	49	24	1	3	12300
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	8 141	1 098	1 791	1 321	1 797	965	556	434	131	38	9	9700
NO HOT PIPED WATER	333	119	120	39	37	8	7	3	-	-	-	4600
WITH HOT PIPED WATER	7 808	979	1 672	1 283	1 760	957	549	431	131	38	9	9900
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 504	920	1 599	1 227	1 704	934	535	415	127	34	9	10000
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	36	6	5	7	2	5	5	5	-	2	-	10100
NOT REPORTED	246	48	62	45	52	18	7	12	1	2	-	7900
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
OWNER OCCUPIED	17 444	975	2 456	1 703	2 926	2 553	2 343	2 551	1 256	456	225	16300
WITH AIR CONDITIONING	13 444	479	1 458	1 178	2 184	2 044	2 018	2 276	1 180	419	208	18500
ROOM UNITS	6 032	339	980	707	1 220	972	837	657	231	62	29	14100
1	3 402	246	660	459	728	539	405	271	71	17	6	12300
2	1 860	74	250	185	374	300	320	245	83	20	9	15800
3	574	9	52	52	86	106	76	102	64	17	10	19100
4	143	8	13	11	23	19	26	30	6	6	1	19400
5 OR MORE	53	1	5	-	10	8	9	8	7	2	3	21900
CENTRAL SYSTEM	7 411	140	478	472	965	1 072	1 181	1 619	949	357	179	22500
WITH NO AIR CONDITIONING	4 001	495	998	525	742	509	326	275	76	37	17	9900
RENTER OCCUPIED	8 141	1 098	1 791	1 321	1 797	965	556	434	131	38	9	9700
WITH AIR CONDITIONING	5 296	446	898	830	1 325	771	477	392	117	33	8	11800
ROOM UNITS	2 497	282	551	397	591	332	187	124	23	9	-	10100
1	1 831	239	455	303	430	205	113	73	10	4	-	9200
2	537	37	76	76	134	104	60	39	9	2	-	13000
3	99	6	8	19	23	18	10	11	1	3	-	13600
4	20	-	8	-	4	5	-	-	3	-	-	...
5 OR MORE	9	-	5	-	1	-	3	-	-	-	-	...
CENTRAL SYSTEM	2 800	163	347	433	733	439	290	268	95	24	8	13100
WITH NO AIR CONDITIONING	2 844	653	893	491	472	194	80	42	13	5	2	6400
ALL OCCUPIED HOUSING UNITS	25 585	2 073	4 247	3 024	4 723	3 518	2 900	2 985	1 387	493	234	13600
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	20 723	1 482	3 232	2 247	3 646	2 940	2 541	2 679	1 275	459	224	14700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	16 892	955	2 352	1 630	2 835	2 478	2 289	2 476	1 217	443	218	16400
ALL WINDOWS COVERED	5 733	224	632	490	925	896	857	956	481	187	86	18300
SOME WINDOWS COVERED	1 681	93	264	154	254	241	200	258	131	61	25	16600
NO WINDOWS COVERED	9 425	634	1 444	984	1 648	1 334	1 227	1 258	603	193	102	15000
NOT REPORTED	52	5	12	3	7	7	5	4	2	2	4	14300
RENTER OCCUPIED	3 831	527	880	617	811	462	253	202	58	16	6	9500
ALL WINDOWS COVERED	699	74	126	101	157	107	56	51	21	5	1	11500
SOME WINDOWS COVERED	293	36	47	48	62	42	22	24	8	3	-	11200
NO WINDOWS COVERED	2 699	388	666	443	575	298	171	120	27	7	5	9000
NOT REPORTED	140	29	41	25	18	14	4	7	2	2	-	7100
STORM DOORS												
OWNER OCCUPIED	16 892	955	2 352	1 630	2 835	2 478	2 289	2 476	1 217	443	218	16400
ALL DOORS COVERED	5 484	223	704	514	921	847	818	859	389	139	70	17200
SOME DOORS COVERED	3 185	167	360	283	553	525	437	498	243	96	24	17200
NO DOORS COVERED	8 167	562	1 275	830	1 354	1 099	1 028	1 114	582	205	118	15300
NOT REPORTED	55	4	13	2	7	7	6	5	3	2	6	16400
RENTER OCCUPIED	3 831	527	880	617	811	462	253	202	58	16	6	9500
ALL DOORS COVERED	648	61	115	94	143	93	71	55	9	6	1	11900
SOME DOORS COVERED	383	50	73	75	66	51	31	21	15	-	1	9800
NO DOORS COVERED	2 662	389	652	424	584	302	146	119	33	8	5	9100
NOT REPORTED	138	28	41	24	18	14	4	7	2	2	-	7100
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	16 892	955	2 352	1 630	2 835	2 478	2 289	2 476	1 217	443	218	16400
YES	13 505	518	1 446	1 171	2 242	2 124	2 004	2 249	1 129	413	208	18200
NO	2 753	377	768	378	480	276	228	165	58	19	3	8800
DON'T KNOW	571	56	125	76	102	70	52	55	27	6	2	11400
NOT REPORTED	63	4	13	5	10	9	5	7	2	4	4	15000
RENTER OCCUPIED	3 831	527	880	617	811	462	253	202	58	16	6	9500
YES	1 464	131	232	208	356	212	157	115	38	9	4	12300
NO	1 384	251	399	232	259	148	55	37	4	-	-	7500
DON'T KNOW	831	115	207	149	177	86	36	42	13	5	2	8900
NOT REPORTED	152	31	42	28	19	14	6	9	2	2	-	7400

[1]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: 1979--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												
OWNER OCCUPIED	16 892	955	2 352	1 630	2 835	2 478	2 289	2 476	1 217	443	218	16400
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	9 425	634	1 444	984	1 648	1 334	1 227	1 258	603	193	102	15000
SOME OR ALL WINDOWS COVERED	7 414	317	896	643	1 179	1 136	1 057	1 215	612	248	111	18000
NONE ADDED OR INSTALLED	6 137	262	732	529	972	954	891	1 001	497	207	91	18000
SOME OR ALL ADDED OR INSTALLED	1 186	50	149	106	189	173	156	199	106	40	18	17900
NOT REPORTED	91	5	15	7	18	9	10	14	10	1	2	15100
NOT REPORTED	52	5	12	3	7	7	5	4	2	2	4	14300
STORM DOORS:												
NO DOORS COVERED	8 167	562	1 275	830	1 354	1 099	1 028	1 114	582	205	118	15300
SOME OR ALL DOORS COVERED	8 669	389	1 064	798	1 475	1 372	1 255	1 357	632	235	93	17200
NONE ADDED OR INSTALLED	7 353	346	926	697	1 252	1 140	1 064	1 126	520	203	79	17000
SOME OR ALL ADDED OR INSTALLED	1 045	33	95	75	184	188	159	180	92	28	11	18600
NOT REPORTED	272	11	42	26	39	44	32	51	19	5	3	17100
NOT REPORTED	55	4	13	2	7	7	6	5	3	2	6	16400
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	2 753	377	768	378	480	276	228	165	58	19	3	8800
WITH ATTIC OR ROOF INSULATION	13 505	518	1 446	1 171	2 242	2 124	2 004	2 249	1 129	413	208	18200
NONE ADDED OR INSTALLED	11 991	466	1 317	1 056	2 001	1 885	1 785	1 967	966	360	188	18100
SOME OR ALL ADDED OR INSTALLED	1 229	44	99	96	179	197	182	228	139	45	19	20000
LESS THAN 3 INCHES ADDED	94	1	10	6	13	13	10	21	14	5	2	22300
3 TO 6 INCHES ADDED	517	21	29	48	78	92	75	92	61	13	9	19500
6 INCHES OR MORE ADDED	412	10	31	29	66	63	72	78	35	19	9	20500
DON'T KNOW	137	9	22	9	12	19	15	21	23	7	-	19400
NOT REPORTED	69	2	7	5	11	10	10	17	5	1	-	19100
NOT REPORTED	285	8	30	20	62	42	37	54	24	8	1	17700
DON'T KNOW	571	56	125	76	102	70	52	55	27	6	2	11400
NOT REPORTED	63	4	13	5	10	9	5	7	2	4	4	15000
WALL INSULATION:												
NONE ADDED OR INSTALLED	15 976	918	2 281	1 566	2 693	2 345	2 138	2 307	1 116	411	201	16100
SOME OR ALL ADDED OR INSTALLED	822	33	58	59	128	117	141	152	94	30	10	20600
NOT REPORTED	94	3	13	5	14	16	10	17	7	2	6	18700
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	13 711	862	2 124	1 416	2 346	1 981	1 763	1 862	869	335	154	15300
SOME OR ALL ADDED OR INSTALLED	2 991	85	212	199	463	469	501	580	323	103	57	20700
DON'T KNOW	136	5	8	11	20	21	17	28	21	2	2	20700
NOT REPORTED	54	3	8	4	7	7	7	6	4	3	4	18500
OTHER INSULATION:												
NONE ADDED OR INSTALLED	16 004	919	2 288	1 550	2 711	2 340	2 140	2 312	1 128	414	202	16100
SOME OR ALL ADDED OR INSTALLED	783	32	49	74	108	124	134	148	82	24	7	20200
NOT REPORTED	105	4	15	6	16	14	14	16	7	4	8	19000
RENTER OCCUPIED	3 831	527	880	617	811	462	253	202	58	16	6	9500
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	2 699	388	666	443	575	298	171	120	27	7	5	9000
SOME OR ALL WINDOWS COVERED	992	111	174	149	219	149	78	75	29	8	1	11400
NONE ADDED OR INSTALLED	793	86	144	114	174	117	63	65	24	5	1	11500
SOME OR ALL ADDED OR INSTALLED	182	22	28	34	41	29	11	10	5	2	-	11000
NOT REPORTED	17	3	2	2	4	4	3	-	-	-	-	...
NOT REPORTED	140	29	41	25	18	14	4	7	2	2	-	7100
STORM DOORS:												
NO DOORS COVERED	2 662	389	652	424	584	302	146	119	33	8	5	9100
SOME OR ALL DOORS COVERED	1 031	110	188	169	210	145	102	76	23	6	1	11200
NONE ADDED OR INSTALLED	883	93	169	138	185	123	85	66	19	5	1	11100
SOME OR ALL ADDED OR INSTALLED	118	11	19	23	20	17	15	8	4	2	-	11600
NOT REPORTED	30	7	-	8	5	5	2	2	1	-	-	...
NOT REPORTED	138	28	41	24	18	14	4	7	2	2	-	7100
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 384	251	399	232	259	148	55	37	4	-	-	7500
WITH ATTIC OR ROOF INSULATION	1 464	131	232	208	356	212	157	115	38	9	4	12300
NONE ADDED OR INSTALLED	1 309	117	214	185	324	191	137	99	33	6	3	12100
SOME OR ALL ADDED OR INSTALLED	93	5	12	14	20	12	12	12	2	2	1	13800
LESS THAN 3 INCHES ADDED	4	-	1	-	1	1	1	2	-	-	-	...
3 TO 6 INCHES ADDED	29	-	5	4	8	4	4	4	-	2	-	...
6 INCHES OR MORE ADDED	30	2	1	8	4	2	5	6	2	1	-	...
DON'T KNOW	27	3	6	2	6	6	2	1	-	-	1	...
NOT REPORTED	3	-	-	-	2	-	1	-	-	-	-	...
NOT REPORTED	62	10	6	9	12	9	8	4	4	1	-	12700
DON'T KNOW	831	115	207	149	177	86	36	42	13	5	2	8900
NOT REPORTED	152	31	42	28	19	14	6	9	2	2	-	7400
WALL INSULATION:												
NONE ADDED OR INSTALLED	3 562	480	820	576	771	427	234	182	55	12	5	9500
SOME OR ALL ADDED OR INSTALLED	76	5	11	15	15	13	5	8	-	3	-	12300
NOT REPORTED	194	42	49	26	25	21	13	11	2	2	1	7600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	3 071	440	733	486	646	358	202	153	43	6	4	9200
SOME OR ALL ADDED OR INSTALLED	349	23	50	54	89	60	35	26	7	4	1	12700
DON'T KNOW	267	32	57	55	56	29	12	15	6	5	1	9400
NOT REPORTED	144	32	41	22	20	15	4	8	2	2	-	7000
OTHER INSULATION:												
NONE ADDED OR INSTALLED	3 523	480	816	558	757	424	233	180	56	13	5	9500
SOME OR ALL ADDED OR INSTALLED	118	8	18	25	30	18	9	10	-	-	-	11300
NOT REPORTED	190	39	46	33	24	20	10	12	2	3	1	7900

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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												
OWNER OCCUPIED	16 892	955	2 352	1 630	2 835	2 478	2 289	2 476	1 217	443	218	16400
NO INSULATION ADDED OR INSTALLED	11 591	770	1 864	1 226	1 981	1 639	1 481	1 510	716	274	131	14900
WITH INSULATION ADDED OR INSTALLED	4 725	163	406	362	747	749	741	869	451	157	78	19600
LESS THAN $50	1 873	67	174	144	303	300	286	355	157	58	27	19100
$50 TO $99	516	16	46	35	92	96	95	79	40	7	9	18600
$100 TO $199	500	13	49	41	76	86	93	78	42	13	9	19200
$200 TO $399	513	11	42	35	77	86	84	95	55	20	7	20300
$400 OR MORE	765	28	48	58	102	95	118	158	99	40	19	22200
DON'T KNOW	284	20	24	25	46	40	30	53	32	10	4	18400
NOT REPORTED	274	9	22	25	49	46	35	51	25	9	3	18400
MEDIAN	70	51	56	67	62	66	77	67	98	127	97	...
NOT REPORTED OR DON'T KNOW	576	22	82	42	107	89	66	97	50	12	8	17000
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	415	26	70	49	74	56	48	60	10	16	7	14200
LESS THAN $50	174	16	41	22	38	20	14	20	2	1	-	11100
$50 TO $99	32	4	4	2	5	2	9	5	-	-	2	...
$100 TO $199	55	-	8	4	14	12	7	3	-	3	3	15500
$200 TO $399	46	-	7	9	5	8	4	10	-	2	-	16000
$400 OR MORE	57	1	3	8	2	4	10	14	5	7	2	24800
DON'T KNOW	20	3	3	2	3	3	1	2	1	-	-	...
NOT REPORTED	30	2	3	2	5	6	4	6	1	2	-	...
MEDIAN	62	...	50-	74	50-	111	93	144	...	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS	412	16	37	38	68	87	59	75	22	8	1	17700
LESS THAN $50	71	3	10	11	11	15	5	9	5	2	-	15000
$50 TO $99	161	5	15	12	27	36	33	28	3	2	1	18000
$100 TO $199	103	7	8	9	13	20	12	19	9	5	-	18400
$200 TO $399	28	-	3	-	8	6	3	6	2	-	-	...
$400 OR MORE	20	-	-	4	2	2	3	8	2	-	-	...
DON'T KNOW	7	-	-	-	3	-	2	2	-	-	-	...
NOT REPORTED	23	1	2	2	3	9	2	4	-	-	-	...
MEDIAN	87	...	77	80	85	83	84	95	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	618	27	50	50	99	94	99	96	68	24	11	19400
LESS THAN $50	63	2	6	6	12	19	4	10	2	2	-	16300
$50 TO $99	77	1	6	7	19	9	10	11	13	2	-	18400
$100 TO $199	113	4	8	13	12	20	24	14	13	2	3	19900
$200 TO $399	126	3	13	6	24	18	22	15	15	6	6	19800
$400 OR MORE	104	6	2	9	14	11	19	22	12	8	2	22700
DON'T KNOW	72	8	7	6	8	8	9	15	6	3	1	18900
NOT REPORTED	65	3	7	3	10	10	11	9	8	2	-	19200
MEDIAN	189	...	167	159	180	152	213	208	195	...	...	...
ALL OCCUPIED HOUSING UNITS	25 585	2 073	4 247	3 024	4 723	3 518	2 900	2 985	1 387	493	234	13600
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	11 801	184	627	835	2 067	2 055	2 008	2 259	1 156	403	207	20300
DRIVES SELF	8 742	119	416	601	1 543	1 547	1 465	1 713	864	309	165	20500
CARPOOL	2 242	21	114	158	401	389	435	435	209	58	23	20400
MASS TRANSPORTATION	193	8	16	7	28	22	31	33	34	8	3	22200
BICYCLE OR MOTORCYCLE	74	1	2	3	9	14	19	18	5	3	-	22300
TAXICAB	5	-	4	-	-	-	2	-	-	-	-	...
WALKS ONLY	182	7	33	19	27	43	18	15	5	9	6	15600
OTHER MEANS	62	-	3	11	13	6	13	7	7	2	1	18900
WORKS AT HOME	265	27	35	33	40	31	23	28	27	11	9	14600
NOT REPORTED	36	1	4	2	7	1	2	10	5	3	1	25400
RENTER OCCUPIED	5 663	243	885	1 059	1 541	858	518	405	117	28	9	12100
DRIVES SELF	3 609	114	415	670	1 017	622	366	297	84	16	8	13000
CARPOOL	1 194	54	224	207	338	162	109	71	23	6	1	11700
MASS TRANSPORTATION	315	30	97	63	70	23	13	9	6	5	-	8500
BICYCLE OR MOTORCYCLE	68	1	11	11	19	14	5	5	2	-	-	12800
TAXICAB	18	2	6	7	3	-	-	-	-	-	-	...
WALKS ONLY	344	31	92	78	71	37	20	15	1	-	-	8900
OTHER MEANS	20	2	5	1	5	-	3	3	-	2	-	...
WORKS AT HOME	77	8	27	19	15	1	2	5	1	-	-	7700
NOT REPORTED	17	2	9	3	2	-	1	-	-	-	-	...
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	11 801	184	627	835	2 067	2 055	2 008	2 259	1 156	403	207	20300
LESS THAN 1 MILE	724	21	83	88	143	120	95	93	41	28	12	16100
1 TO 4 MILES	2 426	42	182	225	456	391	396	416	220	65	33	18900
5 TO 9 MILES	2 276	16	104	144	400	442	368	457	203	79	64	20400
10 TO 19 MILES	2 585	23	76	162	434	466	459	556	295	79	34	21400
20 TO 29 MILES	965	6	36	46	189	149	196	209	97	23	15	21500
30 TO 49 MILES	681	6	11	32	108	129	156	142	67	29	2	21800
50 MILES OR MORE	199	3	5	12	43	40	39	38	16	4	-	19500
WORKS AT HOME	265	27	35	33	40	31	23	28	27	11	9	14600
NO FIXED PLACE OF WORK	1 506	36	81	82	227	253	256	289	170	78	34	21400
NOT REPORTED	173	5	14	11	27	33	21	30	21	7	4	19600
MEDIAN	8.9	4.6	4.6	6.4	8.6	9.0	9.9	9.9	10.2	8.8	7.7	...
RENTER OCCUPIED	5 663	243	885	1 059	1 541	858	518	405	117	28	9	12100
LESS THAN 1 MILE	599	41	131	123	152	69	48	28	4	2	-	10100
1 TO 4 MILES	1 492	64	262	287	426	215	116	89	31	2	-	11600
5 TO 9 MILES	1 204	41	170	244	341	193	104	91	12	8	1	12200
10 TO 19 MILES	1 040	34	119	190	285	181	118	78	24	6	5	13100
20 TO 29 MILES	295	15	22	39	103	52	30	19	11	4	-	13500
30 TO 49 MILES	170	3	18	26	47	29	20	17	7	2	-	13900
50 MILES OR MORE	58	1	6	9	12	14	6	10	-	-	-	15500
WORKS AT HOME	77	8	27	19	15	1	2	5	1	-	-	7700
NO FIXED PLACE OF WORK	579	27	90	94	136	89	62	55	19	2	4	12900
NOT REPORTED	150	10	40	28	24	14	10	13	8	2	-	9600
MEDIAN	6.4	4.6	4.5	6.0	6.5	7.4	7.7	7.7	8.9	...	...	...

[1]LIMITED TO HEADS 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: 1979--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												
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	11 801	184	627	835	2 067	2 055	2 008	2 259	1 156	403	207	20300
LESS THAN 15 MINUTES	3 385	62	219	293	611	576	536	626	287	117	58	19400
15 TO 29 MINUTES	3 736	29	193	262	658	689	657	718	356	101	73	20300
30 TO 44 MINUTES	1 646	17	57	91	298	283	298	353	173	55	19	21300
45 TO 59 MINUTES	610	6	13	21	111	107	127	119	78	20	10	21900
1 HOUR TO 1 HOUR AND 29 MINUTES	443	2	21	36	78	81	81	85	45	14	1	20200
1 HOUR AND 30 MINUTES OR MORE	105	2	2	7	28	20	20	20	5	2	-	18400
WORKS AT HOME	265	27	35	33	40	31	23	28	27	11	9	14600
NO FIXED PLACE OF WORK	1 506	36	81	82	227	253	256	289	170	78	34	21400
NOT REPORTED	106	2	6	10	17	14	10	23	16	6	2	22000
MEDIAN	21.3	15.0-	17.5	18.5	21.3	21.5	22.3	21.9	22.7	20.5	19.5	...
RENTER OCCUPIED	5 663	243	885	1 059	1 541	858	518	405	117	28	9	12100
LESS THAN 15 MINUTES	1 954	88	313	380	541	293	180	122	31	4	1	11800
15 TO 29 MINUTES	1 844	67	267	364	508	294	165	138	29	10	1	12200
30 TO 44 MINUTES	751	29	108	122	209	128	68	46	32	6	3	12800
45 TO 59 MINUTES	206	11	31	37	56	21	25	20	2	3	-	12100
1 HOUR TO 1 HOUR AND 29 MINUTES	142	12	26	19	57	15	8	3	-	1	-	11200
1 HOUR AND 30 MINUTES OR MORE	65	1	11	10	11	14	5	9	3	-	-	14800
WORKS AT HOME	77	8	27	19	15	1	2	5	1	-	-	7700
NO FIXED PLACE OF WORK	579	27	90	94	136	89	62	55	19	2	4	12900
NOT REPORTED	46	2	11	13	8	2	2	6	-	2	-	9400
MEDIAN	19.2	18.4	18.6	18.5	19.4	19.6	19.1	20.1	23.9	...	...	...

[1]LIMITED TO HEADS 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: 1979

(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]	13 990	648	1 453	2 300	2 671	2 198	1 444	1 483	1 002	719	73	39700
HOUSE HEATING FUEL												
UTILITY GAS	7 334	357	826	1 316	1 400	1 100	693	776	497	342	27	38300
BOTTLED, TANK, OR LP GAS	907	120	203	198	144	108	56	33	26	18	2	26600
FUEL OIL	1 649	51	195	320	332	234	152	138	116	101	10	37800
KEROSENE, ETC	119	18	35	27	21	6	5	1	1	5	-	22200
ELECTRICITY	3 625	34	107	366	714	714	525	525	356	250	34	48300
COAL OR COKE	53	16	12	11	9	2	1	2	1	-	-	19300
WOOD	239	49	61	51	33	24	8	6	5	2	-	22000
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	-	-	2	1	1	-	1	-	-	-	...
NONE	60	2	13	8	17	8	5	3	-	3	-	33900
WATER HEATING FUEL												
NO HOT PIPED WATER	181	102	45	20	9	1	1	2	-	1	-	10000-
WITH HOT PIPED WATER	13 809	545	1 408	2 280	2 661	2 197	1 443	1 482	1 002	719	73	40000
FUEL USED:												
UTILITY GAS	6 527	277	727	1 109	1 245	1 010	627	698	473	332	31	39200
BOTTLED, TANK, OR LP GAS	554	64	130	115	87	61	34	31	21	9	3	27200
FUEL OIL	204	-	7	23	24	21	25	27	37	34	4	60300
KEROSENE, ETC	5	-	-	2	-	2	1	1	-	-	-	...
ELECTRICITY	6 492	200	542	1 028	1 302	1 099	752	723	471	341	34	41600
COAL OR COKE	1	-	1	-	-	-	-	-	-	-	-	...
WOOD	3	2	-	-	-	1	-	-	-	-	-	...
SOLAR HEAT	15	-	2	-	2	2	4	2	-	2	2	...
OTHER FUEL	6	1	-	1	2	1	-	1	-	-	-	...
NONE	2	1	-	1	-	-	-	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	4 146	283	668	897	833	583	294	270	183	124	10	32700
BOTTLED, TANK, OR LP GAS	869	142	208	189	136	84	39	36	26	9	-	24500
FUEL OIL	8	1	-	1	3	2	-	-	1	1	-	...
KEROSENE, ETC	2	-	1	-	1	1	-	-	-	-	-	...
ELECTRICITY	8 918	203	569	1 205	1 695	1 523	1 107	1 176	792	586	62	45200
COAL OR COKE	5	2	-	1	-	2	-	-	-	-	-	...
WOOD	35	16	6	6	2	2	1	2	-	-	-	...
OTHER FUEL	3	1	-	1	-	1	1	-	-	-	-	...
NONE	4	-	2	1	-	-	2	-	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	83	31	12	17	7	4	2	5	-	4	-	18500
$10 TO $19	1 081	198	256	267	179	77	39	29	15	18	3	23200
$20 TO $29	1 962	182	374	438	397	256	130	99	48	30	7	29700
$30 TO $39	2 250	90	322	466	486	347	210	164	106	56	3	35100
$40 TO $49	1 932	62	185	351	422	322	195	198	134	59	3	38700
$50 TO $59	1 853	31	134	256	398	338	215	231	158	86	5	43200
$60 TO $79	2 448	35	110	302	463	457	353	360	209	155	4	46900
$80 TO $99	1 118	7	31	129	171	222	148	170	137	93	10	49900
$100 TO $149	1 024	4	23	56	135	147	135	201	147	164	13	60900
$150 OR MORE	228	3	2	15	11	27	16	27	47	56	25	82300
NO ELECTRICITY USED	12	5	3	2	1	1	-	-	-	-	-	...
MEDIAN	48	25	32	38	46	52	56	61	64	73	104	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	695	49	110	130	143	91	48	57	38	26	2	34100
$10 TO $14	940	64	159	192	185	114	76	72	38	37	2	33000
$15 TO $19	1 028	98	149	224	189	152	77	67	43	26	4	32300
$20 TO $24	1 330	76	166	272	279	181	116	121	82	32	5	35400
$25 TO $29	1 145	61	149	259	219	187	87	89	66	25	2	34700
$30 TO $39	1 767	74	219	252	371	284	197	197	106	54	13	39100
$40 TO $49	1 032	43	107	164	160	161	116	113	91	72	4	42600
$50 TO $69	1 005	46	103	140	161	129	97	129	97	95	8	44100
$70 TO $99	250	15	15	30	31	32	22	38	36	30	-	51000
$100 OR MORE	62	2	12	15	7	8	4	13	6	14	1	46700
NO GAS USED	4 717	120	265	620	925	857	604	587	399	307	32	45000
MEDIAN	27	23	25	25	26	28	31	32	33	41	34	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	559	32	41	52	61	84	76	89	63	61	1	51400
$100 TO $199	413	40	54	73	60	57	35	46	28	19	2	36500
$200 TO $299	334	30	61	74	54	42	26	27	12	7	-	30300
$300 TO $399	378	17	60	87	89	45	26	26	19	8	-	32800
$400 TO $499	282	12	41	51	62	37	16	21	25	14	2	35900
$500 TO $599	229	14	24	40	45	29	23	9	19	23	2	38100
$600 TO $699	178	12	9	19	40	24	25	20	17	11	1	43700
$700 TO $799	95	2	6	15	13	16	7	13	15	8	-	47300
$800 OR MORE	156	2	11	12	25	17	24	17	17	26	5	54400
FUELS NOT USED OR FREE	11 366	487	1 145	1 877	2 221	1 847	1 186	1 214	786	542	61	39800
MEDIAN	301	228	295	314	355	283	269	199	321	327	...	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	7 504	60	303	836	1 434	1 482	1 017	1 068	742	521	41	47600
HEAT PUMP	621	3	6	28	65	100	95	134	92	90	8	61500
STEAM OR HOT WATER	450	6	29	41	80	70	52	60	62	48	2	49900
BUILT-IN ELECTRIC UNITS	1 097	17	52	184	335	205	122	103	42	27	10	38800
FLOOR, WALL, OR PIPELESS FURNACE	1 297	39	263	478	284	117	43	31	29	11	2	27300
ROOM HEATERS WITH FLUE	963	122	259	273	162	74	25	29	7	9	2	23700
ROOM HEATERS WITHOUT FLUE	1 317	287	374	313	175	69	53	23	16	2	5	19900
FIREPLACES, STOVES, OR PORTABLE HEATERS	681	111	154	139	119	72	33	32	11	8	2	25400
NONE	60	2	13	8	17	8	5	3	-	3	-	33900

[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: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	60	2	13	8	17	8	5	3	-	3	-	33900
WITH HEATING EQUIPMENT	13 930	645	1 440	2 292	2 654	2 189	1 439	1 480	1 002	716	73	39800
NO THERMOSTAT CONTROL	2 785	468	691	672	475	237	104	70	37	19	11	23500
WITH THERMOSTAT CONTROL	11 102	172	741	1 614	2 170	1 948	1 331	1 405	964	695	62	44400
NOT CLOCK OPERATED	9 191	126	583	1 278	1 782	1 648	1 144	1 179	805	601	43	45000
CONSTANT TEMPERATURE SETTING MAINTAINED	3 410	57	222	485	701	660	421	426	259	164	14	43600
TEMPERATURE SETTING IS CHANGED	5 722	70	359	785	1 062	981	720	743	543	430	30	46000
OCCASIONALLY	1 811	22	123	270	353	325	226	190	176	116	10	44200
REGULARLY	3 826	47	228	499	689	641	487	543	363	309	20	47000
DON'T KNOW	71	2	7	13	16	14	4	8	4	4	-	38900
NOT REPORTED	14	-	1	2	4	2	2	1	-	2	-	...
NOT REPORTED	59	-	2	8	20	7	3	10	3	6	-	39800
CLOCK OPERATED	1 906	45	157	334	388	300	187	226	158	95	18	41000
NOT REPORTED	5	1	2	3	-	-	-	-	-	-	-	...
NOT REPORTED	43	5	8	5	9	4	4	5	1	2	-	34200
SPECIFIED OWNER OCCUPIED[1]	13 990	648	1 453	2 300	2 671	2 198	1 444	1 483	1 002	719	73	39700
UNITS OCCUPIED LAST WINTER	12 863	626	1 389	2 174	2 461	2 023	1 288	1 291	917	628	66	39100
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	10 901	237	871	1 738	2 166	1 883	1 204	1 237	890	617	59	42300
NO ADDITIONAL HEAT SOURCE USED	9 661	179	736	1 504	1 936	1 703	1 091	1 125	808	528	51	42800
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	949	48	113	167	174	144	89	84	59	64	8	38400
NOT REPORTED	292	10	23	67	56	36	24	28	23	24	-	38100
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 962	389	518	436	295	141	85	54	26	11	7	21700
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	10 901	237	871	1 738	2 166	1 883	1 204	1 237	890	617	59	42300
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 114	76	383	978	1 571	1 556	1 058	1 091	806	545	52	46700
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 521	150	469	700	544	295	124	120	62	50	7	29200
1 ROOM	568	25	77	82	120	100	47	57	35	23	3	38400
2 ROOMS	584	62	122	170	115	50	22	21	11	10	2	26400
3 ROOMS OR MORE	1 369	63	270	448	310	145	55	42	16	18	2	27900
NOT REPORTED	266	11	20	60	50	32	22	27	22	22	-	38100
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 962	389	518	436	295	141	85	54	26	11	7	21700
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	10 901	237	871	1 738	2 166	1 883	1 204	1 237	890	617	59	42300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 962	389	518	436	295	141	85	54	26	11	7	21700
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 656	301	436	382	263	122	73	45	22	6	7	22400
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	248	80	67	40	25	14	11	7	-	5	-	16600
NOT REPORTED	58	8	15	14	8	6	1	2	4	-	-	24000
SPECIFIED OWNER OCCUPIED[1]	13 990	648	1 453	2 300	2 671	2 198	1 444	1 483	1 002	719	73	39700
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	741	114	168	147	136	81	38	35	11	12	2	26100
WITH SELECTED HEATING EQUIPMENT[3]	13 249	534	1 285	2 153	2 535	2 117	1 406	1 448	991	708	71	40600
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	12 495	499	1 191	2 054	2 414	2 004	1 320	1 367	925	657	65	40400
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	696	31	83	92	111	105	81	78	62	47	6	43000
SOLAR HEATING EQUIPMENT	2	-	-	-	-	1	1	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	243	10	32	36	33	42	33	29	18	10	-	42600
FIREPLACE, BURNING WOOD OR COAL	100	1	8	3	18	15	18	20	10	7	-	52900
PORTABLE ELECTRIC HEATER	191	14	26	31	38	25	18	12	11	12	2	36100
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	52	3	10	9	8	11	3	1	4	4	-	35300
OTHER	109	3	10	12	12	13	9	14	19	14	4	55900
NOT REPORTED	7	-	-	-	2	1	1	3	-	-	-	...
NOT REPORTED	57	4	11	7	10	8	6	3	5	3	-	36300
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	523	800	733	473	223	116	87	34	22	9	22600
WITH SELECTED HEATING EQUIPMENT[4]	10 969	125	653	1 567	2 198	1 974	1 328	1 396	968	697	63	44800
LESS THAN 4 YEARS	2 539	18	94	256	426	432	383	435	262	210	22	51100
4 TO 9 YEARS	3 314	35	201	462	661	609	410	409	301	206	19	44900
10 TO 19 YEARS	3 263	49	214	507	650	609	380	380	280	173	20	43500
20 TO 39 YEARS	1 279	12	84	226	318	233	110	123	93	78	2	40000
40 YEARS OR MORE	64	-	12	7	10	7	4	12	6	7	-	45600
DON'T KNOW	445	7	41	96	116	76	37	31	24	18	-	36800
NOT REPORTED	65	3	7	13	17	9	4	6	2	4	-	35700
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	523	800	733	473	223	116	87	34	22	9	22600
WITH SELECTED HEATING EQUIPMENT[4]	10 969	125	653	1 567	2 198	1 974	1 328	1 396	968	697	63	44800
NO MAINTENANCE OR MODIFICATION	8 951	101	539	1 345	1 850	1 638	1 081	1 094	732	525	47	43900
WITH MAINTENANCE OR MODIFICATION	1 935	20	108	209	331	324	236	293	234	164	17	49300
NOT REPORTED	84	3	6	13	17	13	11	10	2	7	-	41100

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

TABLE D-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	523	800	733	473	223	116	87	34	22	9	22600
WITH SELECTED HEATING EQUIPMENT[2]	10 969	125	653	1 567	2 198	1 974	1 328	1 396	968	697	63	44800
NO MAINTENANCE CONTRACT	9 663	111	587	1 437	1 969	1 751	1 185	1 199	812	563	49	44100
WITH MAINTENANCE CONTRACT	1 222	11	55	116	213	213	139	184	151	126	14	50200
NOT REPORTED	84	3	10	13	16	10	5	14	5	8	-	39800
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	181	102	45	20	9	1	1	2	-	1	-	10000-
WITH HOT PIPED WATER	13 809	545	1 408	2 280	2 661	2 197	1 443	1 482	1 002	719	73	40000
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 362	505	1 347	2 198	2 589	2 126	1 399	1 447	989	694	68	40200
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	78	2	6	6	12	10	13	15	3	7	3	51800
NOT REPORTED	352	37	54	74	59	58	28	18	10	14	-	31900
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
WITH AIR CONDITIONING	10 975	226	815	1 602	2 136	1 883	1 283	1 345	941	675	68	43800
ROOM UNITS	4 812	195	704	1 204	1 226	678	312	244	146	93	9	32500
1	2 573	158	482	710	625	288	133	100	51	24	2	29100
2	1 585	28	172	408	449	247	117	89	52	22	3	34100
3	480	9	44	68	121	108	42	33	27	25	2	39800
4	126	2	5	13	23	28	18	16	9	14	-	47700
5 OR MORE	48	-	2	4	8	7	3	7	7	9	2	61500
CENTRAL SYSTEM	6 163	30	112	398	910	1 205	971	1 101	795	582	59	54400
WITH NO AIR CONDITIONING	3 015	422	638	697	535	315	161	138	61	44	4	26400
SPECIFIED OWNER OCCUPIED[1]	13 990	648	1 453	2 300	2 671	2 198	1 444	1 483	1 002	719	73	39700
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	13 990	648	1 453	2 300	2 671	2 198	1 444	1 483	1 002	719	73	39700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	4 793	124	351	654	926	800	542	632	434	304	26	44300
SOME WINDOWS COVERED	1 417	68	146	185	303	216	136	159	108	90	6	40300
NO WINDOWS COVERED	7 742	452	951	1 460	1 435	1 181	761	688	453	324	36	37000
NOT REPORTED	39	4	4	1	7	2	5	3	6	2	5	54600
STORM DOORS												
ALL DOORS COVERED	4 702	122	411	786	1 087	795	471	491	337	190	12	39500
SOME DOORS COVERED	2 592	103	275	435	466	459	268	276	188	122	1	40400
NO DOORS COVERED	6 655	419	763	1 079	1 110	941	700	713	471	403	55	39600
NOT REPORTED	41	4	4	-	7	2	5	3	6	3	5	55400
ATTIC OR ROOF INSULATION												
YES	11 306	229	794	1 705	2 261	1 966	1 307	1 377	944	666	58	43400
NO	2 219	386	582	496	316	182	95	85	40	30	8	22900
DON'T KNOW	415	29	68	95	88	48	38	16	10	22	2	31800
NOT REPORTED	50	4	9	4	6	2	5	5	8	2	5	49000
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	7 742	452	951	1 460	1 435	1 181	761	688	453	324	36	37000
SOME OR ALL WINDOWS COVERED	6 210	191	498	839	1 229	1 015	678	791	542	394	32	43400
NONE ADDED OR INSTALLED	5 121	129	403	669	1 043	862	557	659	448	331	20	43700
SOME OR ALL ADDED OR INSTALLED	1 018	60	88	161	173	144	113	124	84	58	12	41900
NOT REPORTED	71	2	6	9	13	9	8	8	10	4	-	44800
NOT REPORTED	39	4	4	1	7	2	5	3	6	2	5	54600
STORM DOORS:												
NO DOORS COVERED	6 655	419	763	1 079	1 110	941	700	713	471	403	55	39600
SOME OR ALL DOORS COVERED	7 294	224	686	1 221	1 553	1 254	739	767	525	313	12	39800
NONE ADDED OR INSTALLED	6 130	183	596	1 024	1 313	1 054	603	638	455	257	8	39600
SOME OR ALL ADDED OR INSTALLED	946	38	65	160	189	169	115	104	56	48	3	41200
NOT REPORTED	218	3	24	37	51	32	21	25	15	8	1	38700
NOT REPORTED	41	4	4	-	7	2	5	3	6	3	5	55400
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	2 219	386	582	496	316	182	95	85	40	30	8	22900
WITH ATTIC OR ROOF INSULATION	11 306	229	794	1 705	2 261	1 966	1 307	1 377	944	666	58	43400
NONE ADDED OR INSTALLED	10 020	190	702	1 523	2 025	1 768	1 141	1 193	832	598	48	43200
SOME OR ALL ADDED OR INSTALLED	1 087	37	68	156	189	168	134	164	101	60	10	45600
LESS THAN 3 INCHES ADDED	73	4	7	9	12	11	10	10	9	-	-	43400
3 TO 6 INCHES ADDED	462	18	38	72	83	80	56	51	35	24	7	42600
6 INCHES OR MORE ADDED	371	5	15	52	59	59	36	75	37	29	3	49100
DON'T KNOW	125	7	6	15	24	13	20	19	15	7	-	48200
NOT REPORTED	55	3	2	7	11	5	12	9	6	1	-	48800
NOT REPORTED	200	2	25	26	47	30	32	20	11	8	-	40200
DON'T KNOW	415	29	68	95	88	48	38	16	10	22	2	31800
NOT REPORTED	50	4	9	4	6	2	5	5	8	2	5	49000
WALL INSULATION:												
NONE ADDED OR INSTALLED	13 208	615	1 392	2 194	2 539	2 093	1 352	1 375	920	668	60	39500
SOME OR ALL ADDED OR INSTALLED	707	30	56	102	114	99	78	100	74	47	7	45200
NOT REPORTED	76	3	5	3	18	6	14	8	8	5	5	51600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	11 237	586	1 237	1 944	2 165	1 755	1 085	1 117	744	549	53	38500
SOME OR ALL ADDED OR INSTALLED	2 593	58	205	349	472	420	334	341	239	159	16	45100
DON'T KNOW	121	1	7	6	27	19	19	21	12	10	-	50900
NOT REPORTED	39	2	5	1	7	3	5	5	6	2	3	52400
OTHER INSULATION:												
NONE ADDED OR INSTALLED	13 308	633	1 391	2 215	2 550	2 095	1 374	1 382	938	667	62	39500
SOME OR ALL ADDED OR INSTALLED	595	9	56	78	102	97	59	90	53	45	7	45400
NOT REPORTED	88	5	6	7	18	7	11	12	11	8	3	51100

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]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: 1979--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												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	9 451	497	1 050	1 644	1 818	1 486	907	917	616	474	43	38400
WITH INSULATION ADDED OR INSTALLED	4 097	143	360	601	749	651	479	514	354	222	24	43000
LESS THAN $50	1 578	57	164	223	298	228	181	198	146	81	2	42100
$50 TO $99	458	27	47	81	81	84	50	37	24	27	-	39100
$100 TO $199	431	14	30	81	80	83	41	56	30	12	3	41200
$200 TO $399	462	12	41	64	92	90	50	65	29	18	2	42400
$400 OR MORE	680	17	37	74	124	97	94	98	70	60	11	49100
DON'T KNOW	252	7	15	39	45	27	32	38	28	14	6	47200
NOT REPORTED	235	9	25	40	29	42	30	23	27	10	1	43600
MEDIAN	74	62	50-	73	74	87	76	88	57	82	...	...
NOT REPORTED OR DON'T KNOW	442	8	44	54	104	61	58	52	32	24	5	41700
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	336	33	51	65	52	44	22	29	25	11	3	33600
LESS THAN $50	122	20	25	30	13	13	5	8	6	3	-	25200
$50 TO $99	30	4	6	7	6	6	1	-	-	-	-	...
$100 TO $199	47	2	4	14	6	8	2	2	3	1	3	34800
$200 TO $399	41	4	4	7	12	2	3	7	3	-	-	35300
$400 OR MORE	53	2	3	5	8	12	7	4	7	6	-	47100
DON'T KNOW	14	-	5	1	2	1	2	4	-	-	-	...
NOT REPORTED	28	2	3	2	4	2	2	4	6	2	-	...
MEDIAN	91	...	50-	56	153	120	...	...	...	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS	371	14	38	64	77	68	40	37	21	12	-	39000
LESS THAN $50	63	3	14	15	20	2	3	2	3	2	-	30000
$50 TO $99	150	9	12	27	29	30	14	19	3	7	-	39500
$100 TO $199	88	1	4	16	12	20	13	12	7	2	-	45500
$200 TO $399	28	-	3	1	7	7	5	2	2	-	-	...
$400 OR MORE	19	-	-	2	6	5	2	1	-	2	-	...
DON'T KNOW	6	-	-	-	3	2	-	-	2	-	-	...
NOT REPORTED	18	1	5	4	1	2	2	-	4	-	-	...
MEDIAN	86	...	...	78	80	101	114	91	...	...	-	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	540	19	53	81	99	85	51	75	50	26	2	42100
LESS THAN $50	51	4	9	11	10	8	-	5	1	3	-	31200
$50 TO $99	70	5	8	14	9	6	10	6	9	3	-	38500
$100 TO $199	104	4	10	16	20	21	9	12	11	1	-	40800
$200 TO $399	112	2	7	18	17	22	9	20	12	4	2	45700
$400 OR MORE	88	1	9	5	18	11	11	15	9	8	-	50400
DON'T KNOW	65	2	4	10	19	9	3	8	2	6	-	38200
NOT REPORTED	50	1	5	7	6	8	8	9	6	2	-	48100
MEDIAN	187	...	144	139	189	193	215	262	208	...	...	...

[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: 1979

(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]	7 854	980	1 187	1 450	1 399	1 074	558	271	229	125	582	201
HOUSE HEATING FUEL												
UTILITY GAS	3 792	598	774	817	551	383	196	98	88	47	240	174
BOTTLED, TANK, OR LP GAS	423	57	82	86	65	22	8	5	3	1	93	164
FUEL OIL	803	53	123	171	159	118	59	27	17	16	61	208
KEROSENE, ETC	90	15	26	15	14	3	3	-	-	2	13	145
ELECTRICITY	2 400	138	120	305	579	536	285	141	115	56	124	249
COAL OR COKE	48	17	9	9	-	2	-	-	-	-	11	109
WOOD	157	77	27	8	2	3	2	-	-	3	34	100-
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	2	2	-	-	-	-	-	-	-	-	-	...
NONE	139	23	26	38	30	6	5	-	5	-	6	173
WATER HEATING FUEL												
NO HOT PIPED WATER	258	162	39	3	-	-	-	-	-	-	54	100-
WITH HOT PIPED WATER	7 597	818	1 148	1 447	1 399	1 074	558	271	229	125	527	204
FUEL USED:												
UTILITY GAS	3 639	547	693	740	557	422	213	120	97	51	199	182
BOTTLED, TANK, OR LP GAS	257	33	47	56	40	10	7	2	2	4	55	168
FUEL OIL	257	11	28	44	60	60	26	8	7	8	6	235
KEROSENE, ETC	3	-	1	-	-	-	-	-	-	-	2	...
ELECTRICITY	3 402	219	375	603	737	574	307	141	121	61	263	225
COAL OR COKE	1	-	-	1	-	-	-	-	-	-	-	...
WOOD	2	2	-	-	-	-	-	-	-	-	1	...
SOLAR HEAT	2	-	-	-	-	2	-	-	-	-	-	...
OTHER FUEL	15	5	2	2	1	2	-	-	-	2	2	...
NONE	19	2	2	2	4	3	5	-	2	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	3 367	556	679	728	514	367	190	85	53	35	160	175
BOTTLED, TANK, OR LP GAS	518	91	109	98	77	33	5	3	2	6	95	156
FUEL OIL	4	-	1	2	-	-	-	-	-	-	1	...
KEROSENE, ETC	5	3	-	-	-	-	-	-	-	-	1	...
ELECTRICITY	3 898	298	389	619	808	672	363	183	174	83	310	230
COAL OR COKE	2	-	2	-	-	-	-	-	-	-	-	...
WOOD	32	21	2	-	-	-	-	-	-	-	9	...
OTHER FUEL	6	1	-	2	-	-	-	-	-	2	2	...
NONE	23	11	6	1	1	2	-	-	-	-	4	...
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	318	146	67	57	16	8	2	-	-	-	22	101
$10 TO $19	1 188	312	299	254	122	67	19	6	2	7	98	138
$20 TO $29	1 335	144	311	332	257	118	33	8	23	8	102	174
$30 TO $39	1 162	54	199	268	276	149	70	34	24	10	78	204
$40 TO $49	738	20	64	145	202	150	71	33	15	5	34	230
$50 TO $59	597	9	37	94	137	130	67	44	18	12	48	248
$60 TO $79	586	2	21	45	98	158	111	50	36	23	42	282
$80 TO $99	183	2	4	10	22	35	42	11	26	14	16	312
$100 TO $149	132	-	2	1	6	10	27	15	33	27	11	397
$150 OR MORE	18	-	-	-	-	-	2	6	5	5	-	...
INCLUDED IN RENT	1 571	280	182	239	258	247	115	63	46	13	128	204
NO ELECTRICITY USED	27	11	-	5	5	2	-	-	-	2	3	...
MEDIAN	32	16	24	28	36	44	54	55	65	72	30	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	646	138	123	163	98	47	16	13	7	5	38	163
$10 TO $14	573	101	147	112	86	50	18	7	9	5	39	158
$15 TO $19	494	75	131	102	68	52	13	3	6	2	42	160
$20 TO $24	448	60	116	102	48	31	21	18	10	11	33	165
$25 TO $29	278	30	60	51	35	28	22	5	8	2	37	179
$30 TO $39	458	26	101	100	93	44	27	8	14	4	41	190
$40 TO $49	222	12	50	64	36	10	14	6	3	4	22	180
$50 TO $69	228	2	21	60	30	35	10	8	9	20	32	225
$70 TO $99	45	-	5	9	9	11	4	4	2	-	1	243
$100 OR MORE	28	-	-	4	2	3	3	7	5	2	1	...
INCLUDED IN RENT	2 085	339	251	344	374	338	152	69	52	21	146	205
NO GAS USED	2 350	198	183	339	520	424	259	123	103	50	150	236
MEDIAN	19	13	18	20	20	21	26	24	27	36	23	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	132	38	25	18	8	10	7	3	4	1	19	137
$100 TO $199	126	33	25	17	14	6	2	5	1	4	18	141
$200 TO $299	129	31	35	21	14	4	3	-	-	2	19	134
$300 TO $399	135	12	29	35	21	15	6	2	-	-	16	177
$400 TO $499	57	4	10	14	9	9	3	2	1	-	6	191
$500 TO $599	60	3	8	16	9	12	2	3	-	-	6	198
$600 TO $699	59	1	8	8	13	11	6	2	4	1	7	238
$700 TO $799	19	-	-	5	5	1	2	1	-	-	4	...
$800 OR MORE	41	-	2	9	1	11	7	2	3	2	4	278
INCLUDED IN RENT	649	81	99	119	121	113	47	11	14	6	37	203
FUELS NOT USED OR FREE	6 448	779	947	1 188	1 184	882	472	241	202	109	445	204
MEDIAN	293	168	260	345	351	442	436	...	...	...	263	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 330	190	182	416	769	708	390	195	188	92	200	251
HEAT PUMP	137	8	9	7	18	35	17	16	4	6	17	275
STEAM OR HOT WATER	557	67	72	113	122	86	41	16	6	10	22	206
BUILT-IN ELECTRIC UNITS	689	60	65	179	169	96	41	25	6	8	40	206
FLOOR, WALL, OR PIPELESS FURNACE	746	81	182	222	100	58	31	11	5	2	54	168
ROOM HEATERS WITH FLUE	729	141	216	176	69	26	9	3	9	5	75	142
ROOM HEATERS WITHOUT FLUE	1 119	273	344	237	97	42	17	2	6	-	102	133
FIREPLACES, STOVES, OR PORTABLE HEATERS	408	137	90	62	24	16	6	2	-	3	67	118
NONE	139	23	26	38	30	6	5	-	5	-	6	173

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

TABLE D-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	139	23	26	38	30	6	5	-	5	-	6	173
WITH HEATING EQUIPMENT	7 715	957	1 161	1 412	1 369	1 067	553	271	224	125	576	201
NO THERMOSTAT CONTROL	2 797	611	731	605	327	159	66	17	16	13	251	144
WITH THERMOSTAT CONTROL	4 889	343	423	796	1 039	905	485	254	208	112	324	234
NOT CLOCK OPERATED	4 052	267	347	676	891	757	381	213	171	80	270	233
CONSTANT TEMPERATURE SETTING MAINTAINED	1 603	114	144	278	331	313	160	83	58	28	94	232
TEMPERATURE SETTING IS CHANGED	2 346	151	198	390	532	423	204	123	108	47	169	232
OCCASIONALLY	831	55	78	164	157	148	68	57	39	12	53	229
REGULARLY	1 440	91	114	219	359	261	129	64	61	35	107	233
DON'T KNOW	69	5	5	6	15	13	8	2	6	-	8	247
NOT REPORTED	6	1	1	1	2	-	-	-	2	-	1	...
NOT REPORTED	103	2	5	7	27	21	17	6	5	5	7	264
CLOCK OPERATED	831	74	76	119	146	149	104	41	37	32	53	240
NOT REPORTED	5	2	-	2	2	-	-	-	-	-	-	...
NOT REPORTED	30	2	7	10	3	3	2	-	-	-	2	...
SPECIFIED RENTER OCCUPIED[1]	7 854	980	1 187	1 450	1 399	1 074	558	271	229	125	582	201
UNITS OCCUPIED LAST WINTER	5 139	821	881	935	810	595	292	141	122	71	470	183
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 930	454	543	720	727	564	278	138	115	68	322	206
NO ADDITIONAL HEAT SOURCE USED	3 299	383	419	593	617	491	248	121	106	53	268	210
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	484	55	95	101	90	61	19	10	1	10	42	184
NOT REPORTED	147	16	29	26	21	13	11	7	7	5	12	192
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 210	367	338	215	83	31	14	3	7	3	148	124
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 930	454	543	720	727	564	278	138	115	68	322	206
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 694	260	242	419	566	472	247	115	97	60	216	227
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 073	176	271	271	143	73	19	16	8	4	93	158
1 ROOM	267	48	60	57	46	17	9	9	3	1	16	165
2 ROOMS	381	68	115	101	41	17	3	1	3	-	32	145
3 ROOMS OR MORE	425	59	97	113	56	39	7	5	2	2	45	165
NOT REPORTED	163	18	29	30	18	19	13	7	9	5	14	194
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 210	367	338	215	83	31	14	3	7	3	148	124
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 930	454	543	720	727	564	278	138	115	68	322	206
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 210	367	338	215	83	31	14	3	7	3	148	124
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	895	284	261	152	51	17	9	3	6	3	109	120
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	243	70	66	39	27	8	-	-	2	-	31	126
NOT REPORTED	72	12	10	24	5	7	5	-	-	-	8	168
SPECIFIED RENTER OCCUPIED[1]	7 854	980	1 187	1 450	1 399	1 074	558	271	229	125	582	201
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	548	160	116	100	55	23	11	2	5	3	73	133
WITH SELECTED HEATING EQUIPMENT[3]	7 307	820	1 071	1 350	1 345	1 051	547	269	224	122	509	206
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 010	780	1 019	1 280	1 296	1 021	525	266	224	119	481	207
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	228	29	41	49	40	25	12	3	-	4	25	182
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	33	4	4	6	5	2	3	-	-	-	8	...
FIREPLACE, BURNING WOOD OR COAL	4	-	1	-	-	1	2	-	-	-	1	...
PORTABLE ELECTRIC HEATER	140	17	25	28	31	20	7	2	-	4	6	194
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	40	8	10	10	2	2	-	-	-	-	8	...
OTHER	13	-	2	4	2	2	-	1	-	-	3	...
NOT REPORTED	1	-	-	1	1	-	-	-	-	-	-	...
NOT REPORTED	68	11	11	21	9	5	9	-	-	-	3	175
AIR CONDITIONING												
WITH AIR CONDITIONING	5 199	295	484	866	1 144	967	517	261	216	114	335	234
ROOM UNITS	2 421	202	415	633	477	258	125	51	32	18	211	188
1	1 783	179	356	501	349	147	60	21	15	10	145	178
2	516	18	48	118	108	101	49	21	9	2	42	224
3	95	5	7	12	15	10	13	6	8	3	16	251
4	19	-	2	2	5	-	3	3	-	-	4	...
5 OR MORE	9	-	2	-	-	-	-	-	-	3	3	...
CENTRAL SYSTEM	2 777	94	69	233	667	708	392	210	184	96	124	268
WITH NO AIR CONDITIONING	2 656	685	703	583	256	107	41	11	12	12	246	136

[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: 1979--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]	7 854	980	1 187	1 450	1 399	1 074	558	271	229	125	582	201
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 545	488	646	657	476	321	184	94	105	86	488	179
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	637	47	76	117	77	56	44	17	41	32	131	208
SOME WINDOWS COVERED	264	23	27	50	36	38	20	15	4	13	37	218
NO WINDOWS COVERED	2 507	378	518	461	352	213	109	59	61	40	318	171
NOT REPORTED	137	39	25	30	10	14	12	3	-	2	2	155
STORM DOORS												
ALL DOORS COVERED	591	35	63	110	69	68	47	24	24	23	126	217
SOME DOORS COVERED	357	24	60	59	51	46	22	11	17	11	56	208
NO DOORS COVERED	2 461	390	499	458	344	193	103	56	64	50	304	170
NOT REPORTED	135	39	24	30	10	14	12	3	-	2	2	156
ATTIC OR ROOF INSULATION												
YES	1 362	88	172	202	223	132	99	58	74	58	255	220
NO	1 231	280	278	232	110	92	26	12	13	8	180	143
DON'T KNOW	803	77	169	191	129	83	46	20	18	18	52	183
NOT REPORTED	149	43	26	32	13	14	13	5	-	2	2	157

[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: 1979

(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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	25 585	19 087	1 984	1 056	914	908	1 637
HOUSE HEATING FUEL							
OWNER OCCUPIED	17 444	15 600	301	57	41	154	1 292
UTILITY GAS	8 206	7 704	133	12	3	18	336
BOTTLED, TANK, OR LP GAS	1 750	1 332	2	-	-	-	415
FUEL OIL	2 082	1 853	45	3	2	4	175
KEROSENE, ETC	182	143	3	-	-	-	37
ELECTRICITY	4 657	4 017	116	41	36	132	314
COAL OR COKE	83	82	2	-	-	-	-
WOOD	412	401	-	-	-	-	11
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	6	6	-	-	-	-	-
NONE	67	62	-	-	-	-	5
RENTER OCCUPIED	8 141	3 487	1 683	1 000	872	754	344
UTILITY GAS	3 849	1 901	884	385	351	210	118
BOTTLED, TANK, OR LP GAS	519	379	39	-	1	-	99
FUEL OIL	831	350	164	81	58	111	67
KEROSENE, ETC	96	71	12	3	1	2	8
ELECTRICITY	2 418	452	542	515	449	411	48
COAL OR COKE	58	52	5	-	2	-	-
WOOD	223	211	10	-	-	-	2
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	3	1	-	-	-	2	-
NONE	143	71	26	15	10	18	2
WATER HEATING FUEL							
OWNER OCCUPIED	17 444	15 600	301	57	41	154	1 292
NO HOT PIPED WATER	277	257	3	-	-	-	16
WITH HOT PIPED WATER	17 168	15 342	297	57	41	154	1 276
FUEL USED:							
UTILITY GAS	7 111	6 782	116	13	7	17	177
BOTTLED, TANK, OR LP GAS	1 040	878	2	-	-	1	159
FUEL OIL	264	228	16	6	1	10	3
KEROSENE, ETC	5	5	-	-	-	-	-
ELECTRICITY	8 713	7 419	163	38	34	122	935
COAL OR COKE	1	1	-	-	-	-	-
WOOD	6	6	-	-	-	-	-
SOLAR HEAT	15	15	-	-	-	-	-
OTHER FUEL	9	6	-	-	-	3	-
NONE	4	2	-	-	-	-	2
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	8 141	3 487	1 683	1 000	872	754	344
NO HOT PIPED WATER	333	307	16	1	2	-	7
WITH HOT PIPED WATER	7 808	3 180	1 667	999	871	754	337
FUEL USED:							
UTILITY GAS	3 672	1 637	862	437	379	288	68
BOTTLED, TANK, OR LP GAS	317	237	23	3	4	7	44
FUEL OIL	259	40	49	53	45	69	4
KEROSENE, ETC	3	2	-	-	-	-	2
ELECTRICITY	3 516	1 247	733	498	436	382	220
COAL OR COKE	1	1	-	-	-	-	-
WOOD	3	3	-	-	-	-	-
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	15	5	-	-	2	8	-
NONE	20	7	2	6	4	1	-
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	17 444	15 600	301	57	41	154	1 292
UTILITY GAS	4 773	4 334	96	12	3	21	306
BOTTLED, TANK, OR LP GAS	1 739	1 219	8	-	-	-	512
FUEL OIL	9	9	-	-	-	-	-
KEROSENE, ETC	3	2	-	-	-	-	1
ELECTRICITY	10 840	9 959	195	45	38	132	470
COAL OR COKE	6	6	-	-	-	-	-
WOOD	61	61	-	-	-	-	-
OTHER FUEL	6	5	-	-	-	-	1
NONE	7	5	1	-	-	-	2
RENTER OCCUPIED	8 141	3 487	1 683	1 000	872	754	344
UTILITY GAS	3 398	1 446	783	409	374	273	112
BOTTLED, TANK, OR LP GAS	618	412	46	3	3	5	148
FUEL OIL	4	3	-	-	-	-	1
KEROSENE, ETC	6	4	2	-	-	-	-
ELECTRICITY	4 033	1 560	842	587	490	470	84
COAL OR COKE	2	-	2	-	-	-	-
WOOD	47	45	3	-	-	-	-
OTHER FUEL	6	3	-	-	-	3	-
NONE	27	14	6	-	5	2	-

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1979--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	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]	13 990	13 990	NA	NA	NA	NA	NA
LESS THAN $10	83	83	NA	NA	NA	NA	NA
$10 TO $19	1 081	1 081	NA	NA	NA	NA	NA
$20 TO $29	1 962	1 962	NA	NA	NA	NA	NA
$30 TO $39	2 250	2 250	NA	NA	NA	NA	NA
$40 TO $49	1 932	1 932	NA	NA	NA	NA	NA
$50 TO $59	1 853	1 853	NA	NA	NA	NA	NA
$60 TO $79	2 448	2 448	NA	NA	NA	NA	NA
$80 TO $99	1 118	1 118	NA	NA	NA	NA	NA
$100 TO $149	1 024	1 024	NA	NA	NA	NA	NA
$150 OR MORE	228	228	NA	NA	NA	NA	NA
NO ELECTRICITY USED	12	12	NA	NA	NA	NA	NA
MEDIAN	48	48	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	7 854	3 201	1 683	1 000	872	754	344
LESS THAN $10	318	112	115	36	27	19	8
$10 TO $19	1 188	594	299	104	105	51	36
$20 TO $29	1 335	664	299	124	100	89	59
$30 TO $39	1 162	567	237	127	110	69	52
$40 TO $49	738	310	149	88	97	60	33
$50 TO $59	597	275	112	81	51	32	45
$60 TO $79	586	259	123	83	47	35	39
$80 TO $99	183	85	27	26	12	13	20
$100 TO $149	132	80	19	17	8	5	3
$150 OR MORE	18	13	1	-	3	2	-
INCLUDED IN RENT	1 571	233	298	310	310	370	50
NO ELECTRICITY USED	27	8	4	3	3	9	-
MEDIAN	32	32	28	36	34	34	38
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	13 990	13 990	NA	NA	NA	NA	NA
LESS THAN $10	695	695	NA	NA	NA	NA	NA
$10 TO $14	940	940	NA	NA	NA	NA	NA
$15 TO $19	1 028	1 028	NA	NA	NA	NA	NA
$20 TO $24	1 330	1 330	NA	NA	NA	NA	NA
$25 TO $29	1 145	1 145	NA	NA	NA	NA	NA
$30 TO $39	1 767	1 767	NA	NA	NA	NA	NA
$40 TO $49	1 032	1 032	NA	NA	NA	NA	NA
$50 TO $69	1 005	1 005	NA	NA	NA	NA	NA
$70 TO $99	250	250	NA	NA	NA	NA	NA
$100 OR MORE	82	82	NA	NA	NA	NA	NA
NO GAS USED	4 717	4 717	NA	NA	NA	NA	NA
MEDIAN	27	27	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	7 854	3 201	1 683	1 000	872	754	344
LESS THAN $10	646	268	190	57	56	21	54
$10 TO $14	573	349	119	24	28	3	49
$15 TO $19	494	293	117	26	16	10	31
$20 TO $24	448	323	67	20	13	3	22
$25 TO $29	278	186	62	7	9	3	11
$30 TO $39	458	323	75	15	13	2	30
$40 TO $49	222	164	39	8	3	2	6
$50 TO $69	228	164	45	5	5	3	6
$70 TO $99	45	35	7	2	-	-	2
$100 OR MORE	28	28	-	-	-	-	-
INCLUDED IN RENT	2 085	367	436	438	377	384	82
NO GAS USED	2 350	700	527	397	352	323	52
MEDIAN	19	22	17	15	12	14	15
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	13 990	13 990	NA	NA	NA	NA	NA
LESS THAN $100	559	559	NA	NA	NA	NA	NA
$100 TO $199	413	413	NA	NA	NA	NA	NA
$200 TO $299	334	334	NA	NA	NA	NA	NA
$300 TO $399	378	378	NA	NA	NA	NA	NA
$400 TO $499	282	282	NA	NA	NA	NA	NA
$500 TO $599	229	229	NA	NA	NA	NA	NA
$600 TO $699	178	178	NA	NA	NA	NA	NA
$700 TO $799	95	95	NA	NA	NA	NA	NA
$800 OR MORE	156	156	NA	NA	NA	NA	NA
FUELS NOT USED OR FREE	11 366	11 366	NA	NA	NA	NA	NA
MEDIAN	301	301	NA	NA	NA	NA	NA

[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: 1979--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	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.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	7 854	3 201	1 683	1 000	872	754	344
LESS THAN $100	132	107	16	2	3	3	1
$100 TO $199	126	96	9	1	1	-	18
$200 TO $299	129	90	16	2	-	-	21
$300 TO $399	135	96	21	1	1	-	16
$400 TO $499	57	48	5	-	-	-	5
$500 TO $599	60	48	8	2	-	-	2
$600 TO $699	59	52	6	-	-	-	2
$700 TO $799	19	14	2	-	-	-	3
$800 OR MORE	41	39	2	-	-	-	-
INCLUDED IN RENT	649	142	178	110	85	113	21
FUELS NOT USED OR FREE	6 448	2 468	1 421	883	782	639	256
MEDIAN	293	301	305	...	...	...	268
ALL OCCUPIED HOUSING UNITS	25 585	19 087	1 984	1 056	914	908	1 637
HEATING EQUIPMENT							
OWNER OCCUPIED	17 444	15 600	301	57	41	154	1 292
WARM-AIR FURNACE	9 386	8 029	128	36	21	105	1 067
HEAT PUMP	711	675	8	-	4	17	8
STEAM OR HOT WATER	531	490	30	2	2	6	2
BUILT-IN ELECTRIC UNITS	1 391	1 237	36	13	15	26	64
FLOOR, WALL, OR PIPELESS FURNACE	1 472	1 393	32	2	-	-	46
ROOM HEATERS WITH FLUE	1 226	1 163	30	-	-	-	33
ROOM HEATERS WITHOUT FLUE	1 613	1 551	27	4	-	-	31
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 048	1 000	11	-	-	-	37
NONE	67	62	-	-	-	-	5
RENTER OCCUPIED	8 141	3 487	1 683	1 000	872	754	344
WARM-AIR FURNACE	3 362	830	570	634	579	477	272
HEAT PUMP	138	41	28	18	22	29	-
STEAM OR HOT WATER	558	105	151	107	77	118	-
BUILT-IN ELECTRIC UNITS	697	169	206	103	119	89	10
FLOOR, WALL, OR PIPELESS FURNACE	767	451	207	49	23	10	26
ROOM HEATERS WITH FLUE	776	528	176	37	19	7	9
ROOM HEATERS WITHOUT FLUE	1 192	867	266	28	17	5	10
FIREPLACES, STOVES, OR PORTABLE HEATERS	508	426	52	8	5	2	15
NONE	143	71	26	15	10	18	2
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	17 444	15 600	301	57	41	154	1 292
NO HEATING EQUIPMENT	67	62	-	-	-	-	5
WITH HEATING EQUIPMENT	17 378	15 538	301	57	41	154	1 287
NO THERMOSTAT CONTROL	3 612	3 413	77	9	7	16	91
WITH THERMOSTAT CONTROL	13 719	12 080	222	48	35	137	1 197
NOT CLOCK OPERATED	11 311	9 996	183	33	29	113	957
CONSTANT TEMPERATURE SETTING MAINTAINED	4 161	3 675	69	11	5	44	357
TEMPERATURE SETTING IS CHANGED	7 082	6 260	114	19	24	69	595
OCCASIONALLY	2 234	1 963	37	10	8	26	190
REGULARLY	4 736	4 204	76	9	12	43	392
DON'T KNOW	96	78	2	-	3	-	13
NOT REPORTED	16	15	-	-	-	-	1
NOT REPORTED	68	61	-	2	-	-	5
CLOCK OPERATED	2 399	2 078	38	13	6	24	240
NOT REPORTED	9	6	2	2	-	-	-
NOT REPORTED	47	45	2	-	-	-	-
RENTER OCCUPIED	8 141	3 487	1 683	1 000	872	754	344
NO HEATING EQUIPMENT	143	71	26	15	10	18	2
WITH HEATING EQUIPMENT	7 998	3 416	1 657	985	862	736	342
NO THERMOSTAT CONTROL	2 993	1 777	668	198	152	154	44
WITH THERMOSTAT CONTROL	4 971	1 621	980	782	708	582	298
NOT CLOCK OPERATED	4 121	1 349	839	626	599	463	246
CONSTANT TEMPERATURE SETTING MAINTAINED	1 628	521	315	233	247	192	119
TEMPERATURE SETTING IS CHANGED	2 391	799	508	371	334	257	122
OCCASIONALLY	848	262	184	134	124	108	35
REGULARLY	1 465	504	302	236	207	136	81
DON'T KNOW	70	31	19	1	3	12	5
NOT REPORTED	7	1	2	-	-	2	2
NOT REPORTED	103	30	15	22	17	14	5
CLOCK OPERATED	845	272	142	154	109	117	50
NOT REPORTED	5	-	-	2	-	2	2
NOT REPORTED	33	18	8	5	2	-	1

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	25 585	19 087	1 984	1 056	914	908	1 637
UNITS OCCUPIED LAST WINTER	21 347	16 925	1 398	606	546	627	1 245
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	15 974	14 396	272	40	35	143	1 089
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	11 902	237	36	35	143	1 023
NO ADDITIONAL HEAT SOURCE USED	11 862	10 534	209	30	29	129	932
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	1 150	1 044	23	6	6	6	65
NOT REPORTED	364	325	5	-	-	8	26
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	2 494	34	4	-	-	66
RENTER OCCUPIED	5 373	2 529	1 126	567	511	485	155
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	1 500	886	538	488	467	141
NO ADDITIONAL HEAT SOURCE USED	3 377	1 198	742	475	419	424	118
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	494	237	111	48	53	26	19
NOT REPORTED	149	65	33	15	16	16	5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	1 029	240	29	23	18	14
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	15 974	14 396	272	40	35	143	1 089
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	11 902	237	36	35	143	1 023
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 102	8 765	176	31	30	128	972
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 938	2 842	55	5	5	7	24
1 ROOM	645	617	14	2	2	-	10
2 ROOMS	688	663	10	-	3	3	8
3 ROOMS OR MORE	1 604	1 561	30	4	-	3	6
NOT REPORTED	337	295	7	-	-	8	27
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	2 494	34	4	-	-	66
RENTER OCCUPIED	5 373	2 529	1 126	567	511	485	155
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	1 500	886	538	488	467	141
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 733	742	570	437	431	422	130
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 121	692	276	79	42	25	7
1 ROOM	276	133	80	35	13	13	1
2 ROOMS	391	215	119	28	18	9	3
3 ROOMS OR MORE	454	344	77	16	11	3	3
NOT REPORTED	165	66	39	22	15	20	4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	1 029	240	29	23	18	14
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	15 974	14 396	272	40	35	143	1 089
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	11 902	237	36	35	143	1 023
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	2 494	34	4	-	-	66
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 205	2 119	28	4	-	-	55
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	322	308	5	-	-	-	9
NOT REPORTED	71	67	2	-	-	-	2
RENTER OCCUPIED	5 373	2 529	1 126	567	511	485	155
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	1 500	886	538	488	467	141
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	1 029	240	29	23	18	14
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 006	759	188	25	18	8	8
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	273	219	36	4	2	7	5
NOT REPORTED	75	50	16	-	3	3	2

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	25 585	19 087	1 984	1 056	914	908	1 637
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	17 444	15 600	301	57	41	154	1 292
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 115	1 062	11	-	-	-	41
WITH SELECTED HEATING EQUIPMENT[1]	16 330	14 537	290	57	41	154	1 251
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 406	13 685	281	56	35	152	1 199
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	849	785	4	1	6	2	51
SOLAR HEATING EQUIPMENT	2	2	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	316	297	2	-	-	-	18
FIREPLACE, BURNING WOOD OR COAL	114	113	1	-	-	-	1
PORTABLE ELECTRIC HEATER	238	206	2	1	2	2	26
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	61	55	-	-	-	-	5
OTHER	121	118	-	-	2	-	2
NOT REPORTED	9	7	-	-	2	-	1
NOT REPORTED	75	68	5	-	1	-	1
RENTER OCCUPIED	8 141	3 487	1 683	1 000	872	754	344
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	651	496	79	23	15	20	18
WITH SELECTED HEATING EQUIPMENT[1]	7 490	2 991	1 605	977	857	734	327
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 183	2 825	1 539	946	834	723	315
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	238	141	53	16	13	5	10
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	36	28	5	2	-	-	2
FIREPLACE, BURNING WOOD OR COAL	4	4	-	-	-	-	-
PORTABLE ELECTRIC HEATER	143	63	41	14	13	5	7
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	42	37	3	-	-	-	2
OTHER	13	10	3	-	-	-	-
NOT REPORTED	2	1	1	-	-	-	-
NOT REPORTED	69	25	12	14	9	7	1
AIR CONDITIONING							
OWNER OCCUPIED	17 444	15 600	301	57	41	154	1 292
WITH AIR CONDITIONING	13 444	11 960	248	55	41	154	986
ROOM UNITS	6 032	5 344	131	11	13	25	508
1	3 402	2 895	68	5	10	13	410
2	1 860	1 719	37	2	3	8	92
3	574	536	25	3	-	5	5
4	143	141	2	-	-	-	1
5 OR MORE	53	53	-	-	-	-	-
CENTRAL SYSTEM	7 411	6 615	117	44	28	128	479
WITH NO AIR CONDITIONING	4 001	3 640	53	2	-	-	306
RENTER OCCUPIED	8 141	3 487	1 683	1 000	872	754	344
WITH AIR CONDITIONING	5 296	1 738	1 042	822	757	701	237
ROOM UNITS	2 497	1 253	604	189	162	133	155
1	1 831	833	487	147	127	107	129
2	537	332	98	39	25	18	26
3	99	71	13	2	7	6	-
4	20	11	3	2	2	2	-
5 OR MORE	9	6	2	-	2	-	-
CENTRAL SYSTEM	2 800	485	438	633	595	568	81
WITH NO AIR CONDITIONING	2 844	1 749	641	178	115	54	108

[1]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: 1979

(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	25 585	175	520	2 307	5 193	6 855	5 487	5 048	5.2
HOUSE HEATING FUEL									
OWNER OCCUPIED	17 444	17	116	487	2 407	5 137	4 651	4 630	5.6
UTILITY GAS	8 206	6	34	167	1 022	2 346	2 295	2 336	5.7
BOTTLED, TANK, OR LP GAS	1 750	5	29	115	419	573	394	216	5.0
FUEL OIL	2 082	1	15	39	250	559	552	667	5.8
KEROSENE, ETC	182	1	2	6	51	61	40	23	5.0
ELECTRICITY	4 657	2	25	131	564	1 409	1 232	1 293	5.6
COAL OR COKE	83	1	1	5	16	25	22	13	5.2
WOOD	412	2	7	19	78	136	96	75	5.2
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	6	-	-	-	1	1	2	2	...
NONE	67	-	5	4	7	26	19	5	5.1
RENTER OCCUPIED	8 141	158	404	1 821	2 786	1 718	836	418	4.1
UTILITY GAS	3 849	51	176	812	1 293	906	416	195	4.2
BOTTLED, TANK, OR LP GAS	519	5	10	71	183	129	79	42	4.4
FUEL OIL	831	21	47	184	246	137	125	72	4.2
KEROSENE, ETC	96	1	3	11	28	29	16	8	4.7
ELECTRICITY	2 418	49	138	673	901	426	155	75	3.9
COAL OR COKE	58	2	2	10	18	14	5	7	4.3
WOOD	223	5	6	28	75	62	29	17	4.4
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	3	2	-	1	-	1	-	-	...
NONE	143	23	21	31	42	15	10	2	3.4
WATER HEATING FUEL									
OWNER OCCUPIED	17 444	17	116	487	2 407	5 137	4 651	4 630	5.6
NO HOT PIPED WATER	277	4	13	38	93	61	49	18	4.4
WITH HOT PIPED WATER	17 168	13	103	448	2 314	5 076	4 603	4 612	5.6
FUEL USED:									
UTILITY GAS	7 111	4	22	117	814	2 020	2 041	2 094	5.8
BOTTLED, TANK, OR LP GAS	1 040	4	14	59	208	365	249	141	5.1
FUEL OIL	264	-	1	8	17	43	72	123	6.4
KEROSENE, ETC	5	-	-	1	-	3	2	-	...
ELECTRICITY	8 713	5	65	261	1 267	2 641	2 232	2 242	5.5
COAL OR COKE	1	-	-	-	-	1	-	-	...
WOOD	6	-	-	-	1	2	2	2	...
SOLAR HEAT	15	-	2	-	-	1	4	9	...
OTHER FUEL	9	-	-	1	5	1	1	1	...
NONE	4	-	-	2	1	-	1	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	8 141	158	404	1 821	2 786	1 718	836	418	4.1
NO HOT PIPED WATER	333	13	19	81	116	61	32	11	4.0
WITH HOT PIPED WATER	7 808	145	385	1 740	2 670	1 657	804	407	4.1
FUEL USED:									
UTILITY GAS	3 672	65	175	798	1 226	836	393	180	4.1
BOTTLED, TANK, OR LP GAS	317	2	10	37	102	90	43	32	4.6
FUEL OIL	259	13	29	90	64	33	16	14	3.5
KEROSENE, ETC	3	-	-	1	-	2	-	1	...
ELECTRICITY	3 516	61	168	806	1 264	688	351	178	4.1
COAL OR COKE	1	-	-	-	-	-	-	1	...
WOOD	3	-	-	-	1	1	1	1	...
SOLAR HEAT	2	-	-	-	-	2	-	-	...
OTHER FUEL	15	3	2	2	5	3	-	-	...
NONE	20	1	2	6	8	3	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED	17 444	17	116	487	2 407	5 137	4 651	4 630	5.6
UTILITY GAS	4 773	6	18	149	791	1 525	1 303	980	5.4
BOTTLED, TANK, OR LP GAS	1 739	4	37	145	472	567	339	175	4.9
FUEL OIL	9	-	-	-	2	1	3	4	...
KEROSENE, ETC	3	-	-	-	2	1	1	-	...
ELECTRICITY	10 840	6	58	184	1 122	3 027	2 986	3 458	5.8
COAL OR COKE	6	-	-	-	-	2	2	2	...
WOOD	61	1	2	6	16	12	16	9	5.0
OTHER FUEL	6	-	-	1	2	2	-	2	...
NONE	7	-	1	2	2	2	2	-	...
RENTER OCCUPIED	8 141	158	404	1 821	2 786	1 718	836	418	4.1
UTILITY GAS	3 398	53	194	801	1 161	743	322	124	4.1
BOTTLED, TANK, OR LP GAS	618	10	17	92	241	156	71	32	4.3
FUEL OIL	4	-	-	-	2	1	1	-	...
KEROSENE, ETC	6	-	-	3	1	2	-	-	...
ELECTRICITY	4 033	82	185	912	1 358	803	436	256	4.1
COAL OR COKE	2	-	2	-	-	-	-	-	...
WOOD	47	1	5	7	16	9	5	5	4.2
OTHER FUEL	6	2	-	-	2	2	-	-	...
NONE	27	11	2	6	5	3	-	1	...

TABLE D-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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]	13 990	14	69	180	1 406	4 126	4 058	4 138	5.8
LESS THAN $10	83	2	3	5	24	18	12	18	4.9
$10 TO $19	1 081	2	7	67	269	358	243	136	5.0
$20 TO $29	1 962	2	8	35	338	669	529	381	5.4
$30 TO $39	2 250	2	16	24	254	780	677	496	5.6
$40 TO $49	1 932	3	5	14	201	593	595	522	5.8
$50 TO $59	1 853	-	6	9	126	558	572	583	5.9
$60 TO $79	2 448	3	15	7	130	688	748	856	6.0
$80 TO $99	1 118	1	6	6	33	256	368	449	6.2
$100 TO $149	1 024	-	3	8	19	176	270	548	6.5+
$150 OR MORE	228	-	-	1	9	25	42	150	6.5+
NO ELECTRICITY USED	12	-	-	5	2	3	1	-	...
MEDIAN	48	...	40	24	32	44	49	58	...
SPECIFIED RENTER OCCUPIED[2]	7 854	154	402	1 812	2 702	1 644	776	365	4.1
LESS THAN $10	318	7	27	131	101	38	8	6	3.4
$10 TO $19	1 188	12	67	356	440	198	79	37	3.9
$20 TO $29	1 335	12	63	329	444	319	123	44	4.1
$30 TO $39	1 162	12	42	244	415	232	151	66	4.2
$40 TO $49	738	2	20	144	278	176	81	37	4.2
$50 TO $59	597	-	9	62	247	157	83	38	4.4
$60 TO $79	586	2	10	74	207	173	74	46	4.5
$80 TO $99	183	-	5	19	59	56	25	18	4.6
$100 TO $149	132	-	-	5	21	44	37	25	5.4
$150 OR MORE	18	-	-	-	6	2	6	4	...
INCLUDED IN RENT	1 571	105	153	444	471	248	107	44	3.7
NO ELECTRICITY USED	27	3	6	3	13	-	2	-	...
MEDIAN	32	23	24	25	33	36	37	42	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	13 990	14	69	180	1 406	4 126	4 058	4 138	5.8
LESS THAN $10	695	1	7	24	120	221	184	138	5.4
$10 TO $14	940	1	6	27	142	318	246	200	5.4
$15 TO $19	1 028	2	5	15	174	321	295	216	5.5
$20 TO $24	1 330	-	4	32	148	456	386	303	5.6
$25 TO $29	1 145	2	7	19	118	387	350	263	5.6
$30 TO $39	1 767	2	5	19	163	498	533	548	5.9
$40 TO $49	1 032	-	2	2	87	208	332	402	6.1
$50 TO $69	1 005	-	5	3	75	216	287	419	6.2
$70 TO $99	250	-	2	3	11	45	73	117	6.4
$100 OR MORE	82	-	-	-	3	21	26	32	6.2
NO GAS USED	4 717	6	26	36	366	1 436	1 346	1 501	5.9
MEDIAN	27	...	23	21	22	25	28	33	...
SPECIFIED RENTER OCCUPIED[2]	7 854	154	402	1 812	2 702	1 644	776	365	4.1
LESS THAN $10	646	4	36	204	212	117	59	14	3.9
$10 TO $14	573	5	21	126	229	118	59	16	4.1
$15 TO $19	494	2	7	113	179	119	61	14	4.2
$20 TO $24	448	-	4	69	173	109	65	28	4.4
$25 TO $29	278	-	11	35	86	84	41	21	4.6
$30 TO $39	458	-	6	65	146	144	61	35	4.6
$40 TO $49	222	1	3	22	64	64	46	22	4.8
$50 TO $69	228	4	6	17	59	55	51	38	5.0
$70 TO $99	45	-	-	6	13	8	11	8	5.1
$100 OR MORE	28	-	-	4	8	7	3	6	...
INCLUDED IN RENT	2 085	83	191	565	674	394	129	48	3.8
NO GAS USED	2 350	55	116	587	861	425	190	116	4.0
MEDIAN	19	...	12	14	18	22	23	32	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	13 990	14	69	180	1 406	4 126	4 058	4 138	5.8
LESS THAN $100	559	1	4	9	47	111	145	243	6.2
$100 TO $199	413	3	2	5	44	123	109	128	5.8
$200 TO $299	334	-	-	2	53	103	85	91	5.6
$300 TO $399	378	-	1	5	40	131	113	88	5.6
$400 TO $499	282	-	2	3	20	71	94	91	6.0
$500 TO $599	229	-	2	2	15	57	66	87	6.1
$600 TO $699	178	-	-	2	10	27	66	74	6.3
$700 TO $799	95	-	-	-	3	13	25	54	6.5+
$800 OR MORE	156	1	2	-	4	21	40	87	6.5+
FUELS NOT USED OR FREE	11 366	9	55	152	1 169	3 470	3 316	3 194	5.7
MEDIAN	301	...	...	...	251	291	329	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 D-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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.--CONTINUED									
SPECIFIED RENTER OCCUPIED[1]	7 854	154	402	1 812	2 702	1 644	776	365	4.1
LESS THAN $100	132	2	6	27	39	31	17	11	4.3
$100 TO $199	126	-	4	20	43	31	14	13	4.4
$200 TO $299	129	-	4	24	45	29	20	7	4.3
$300 TO $399	135	-	2	10	53	38	26	6	4.6
$400 TO $499	57	-	2	9	14	8	17	8	5.0
$500 TO $599	60	-	2	3	13	13	18	9	5.3
$600 TO $699	59	-	-	1	12	18	17	12	5.4
$700 TO $799	19	-	-	-	7	3	3	6	...
$800 OR MORE	41	-	-	2	11	6	10	11	5.6
INCLUDED IN RENT	649	38	46	175	221	106	35	29	3.8
FUELS NOT USED OR FREE	6 448	115	336	1 541	2 245	1 361	599	253	4.0
MEDIAN	293	...	...	206	281	292	378	449	...
ALL OCCUPIED HOUSING UNITS	25 585	175	520	2 307	5 193	6 855	5 487	5 048	5.2
HEATING EQUIPMENT									
OWNER OCCUPIED	17 444	17	116	487	2 407	5 137	4 651	4 630	5.6
WARM-AIR FURNACE	9 386	6	51	210	1 054	2 527	2 503	3 035	5.8
HEAT PUMP	711	-	6	7	40	157	202	299	6.2
STEAM OR HOT WATER	531	1	3	8	17	64	181	255	6.4
BUILT-IN ELECTRIC UNITS	1 391	-	8	47	180	499	375	282	5.4
FLOOR, WALL, OR PIPELESS FURNACE	1 472	1	7	30	298	559	388	189	5.2
ROOM HEATERS WITH FLUE	1 226	2	8	44	262	415	324	172	5.2
ROOM HEATERS WITHOUT FLUE	1 613	5	13	79	362	547	385	221	5.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 048	3	15	58	186	341	273	172	5.3
NONE	67	-	5	4	7	26	19	5	5.1
RENTER OCCUPIED	8 141	158	404	1 821	2 786	1 718	836	418	4.1
WARM-AIR FURNACE	3 362	39	108	725	1 252	693	353	191	4.1
HEAT PUMP	138	3	6	35	56	16	10	12	3.9
STEAM OR HOT WATER	558	36	51	160	141	86	50	34	3.7
BUILT-IN ELECTRIC UNITS	697	25	71	229	203	107	46	18	3.6
FLOOR, WALL, OR PIPELESS FURNACE	767	5	24	126	284	231	72	25	4.3
ROOM HEATERS WITH FLUE	776	4	32	135	286	168	96	56	4.3
ROOM HEATERS WITHOUT FLUE	1 192	12	51	293	378	267	140	52	4.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	508	11	41	87	145	135	60	29	4.3
NONE	143	23	21	31	42	15	10	2	3.4
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED	17 444	17	116	487	2 407	5 137	4 651	4 630	5.6
NO HEATING EQUIPMENT	67	-	5	4	7	26	19	5	5.1
WITH HEATING EQUIPMENT	17 378	17	111	482	2 400	5 111	4 632	4 625	5.6
NO THERMOSTAT CONTROL	3 612	8	35	187	766	1 224	891	501	5.2
WITH THERMOSTAT CONTROL	13 719	9	76	296	1 625	3 871	3 726	4 117	5.8
NOT CLOCK OPERATED	11 311	7	59	230	1 352	3 168	3 067	3 428	5.8
CONSTANT TEMPERATURE SETTING MAINTAINED	4 161	2	19	96	510	1 216	1 160	1 156	5.7
TEMPERATURE SETTING IS CHANGED	7 082	5	39	134	834	1 924	1 889	2 257	5.8
OCCASIONALLY	2 234	3	12	39	252	638	641	649	5.8
REGULARLY	4 736	2	27	89	566	1 259	1 215	1 579	5.8
DON'T KNOW	96	-	-	6	15	23	30	23	5.6
NOT REPORTED	16	-	-	-	1	5	4	7	...
NOT REPORTED	68	-	-	-	8	28	18	14	5.4
CLOCK OPERATED	2 399	2	17	66	272	701	658	685	5.7
NOT REPORTED	9	-	-	-	2	3	1	4	...
NOT REPORTED	47	-	-	-	8	16	15	8	5.4
RENTER OCCUPIED	8 141	158	404	1 821	2 786	1 718	836	418	4.1
NO HEATING EQUIPMENT	143	23	21	31	42	15	10	2	3.4
WITH HEATING EQUIPMENT	7 998	135	382	1 790	2 744	1 703	827	416	4.1
NO THERMOSTAT CONTROL	2 993	76	205	692	963	632	294	131	4.0
WITH THERMOSTAT CONTROL	4 971	57	174	1 088	1 773	1 067	529	284	4.1
NOT CLOCK OPERATED	4 121	45	139	918	1 480	896	419	226	4.1
CONSTANT TEMPERATURE SETTING MAINTAINED	1 628	21	52	359	610	341	171	74	4.1
TEMPERATURE SETTING IS CHANGED	2 391	21	82	530	834	540	240	143	4.2
OCCASIONALLY	848	12	27	218	274	201	76	40	4.1
REGULARLY	1 465	9	53	295	537	320	155	97	4.2
DON'T KNOW	70	-	2	18	19	18	9	6	4.3
NOT REPORTED	7	-	-	-	4	2	1	1	...
NOT REPORTED	103	3	5	28	37	15	7	8	3.9
CLOCK OPERATED	845	12	32	170	291	171	110	58	4.2
NOT REPORTED	5	-	3	-	2	-	-	-	...
NOT REPORTED	33	2	3	10	9	5	4	1	...

[1]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: 1979--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	25 585	175	520	2 307	5 193	6 855	5 487	5 048	5.2
UNITS OCCUPIED LAST WINTER	21 347	120	356	1 610	3 989	5 878	4 874	4 521	5.3
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	15 974	16	104	435	2 201	4 704	4 277	4 237	5.6
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	10	78	303	1 667	3 834	3 631	3 852	5.7
NO ADDITIONAL HEAT SOURCE USED	11 862	10	74	254	1 484	3 426	3 234	3 380	5.7
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	1 150	-	4	33	135	296	295	387	5.9
NOT REPORTED	364	-	1	16	48	112	102	85	5.5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	6	25	131	533	870	646	386	5.2
RENTER OCCUPIED	5 373	104	252	1 175	1 788	1 173	597	284	4.1
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	72	182	870	1 392	849	428	226	4.1
NO ADDITIONAL HEAT SOURCE USED	3 377	57	159	748	1 160	723	350	180	4.1
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	494	10	19	96	167	98	68	36	4.2
NOT REPORTED	149	5	4	27	64	28	11	10	4.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	32	70	305	396	324	168	58	4.2
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	15 974	16	104	435	2 201	4 704	4 277	4 237	5.6
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	10	78	303	1 667	3 834	3 631	3 852	5.7
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 102	10	61	230	1 131	2 783	2 732	3 155	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 938	-	17	56	490	953	803	618	5.4
1 ROOM	645	-	17	22	61	152	177	216	5.9
2 ROOMS	688	-	-	35	193	195	147	119	5.1
3 ROOMS OR MORE	1 604	-	-	-	236	607	479	283	5.4
NOT REPORTED	337	-	-	17	47	98	96	79	5.6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	6	25	131	533	870	646	386	5.2
RENTER OCCUPIED	5 373	104	252	1 175	1 788	1 173	597	284	4.1
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	72	182	870	1 392	849	428	226	4.1
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 733	67	134	648	940	522	274	149	4.0
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 121	-	42	188	382	298	144	68	4.4
1 ROOM	276	-	42	83	86	30	20	15	3.6
2 ROOMS	391	-	-	105	171	75	29	11	4.0
3 ROOMS OR MORE	454	-	-	-	124	194	95	42	5.0
NOT REPORTED	165	5	6	34	70	28	11	10	4.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	32	70	305	396	324	168	58	4.2
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	15 974	16	104	435	2 201	4 704	4 277	4 237	5.6
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	10	78	303	1 667	3 834	3 631	3 852	5.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	6	25	131	533	870	646	386	5.2
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 205	6	21	112	447	745	544	331	5.2
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	322	-	5	19	74	102	78	45	5.1
NOT REPORTED	71	-	-	1	13	24	24	10	5.4
RENTER OCCUPIED	5 373	104	252	1 175	1 788	1 173	597	284	4.1
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	72	182	870	1 392	849	428	226	4.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	32	70	305	396	324	168	58	4.2
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 006	19	57	244	290	241	116	38	4.1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	273	9	10	55	80	71	31	16	4.3
NOT REPORTED	75	4	2	6	26	13	21	3	4.5

[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: 1979--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	25 585	175	520	2 307	5 193	6 855	5 487	5 048	5.2
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	17 444	17	116	487	2 407	5 137	4 651	4 630	5.6
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 115	3	20	62	193	367	292	177	5.3
WITH SELECTED HEATING EQUIPMENT[1]	16 330	14	96	425	2 214	4 769	4 359	4 453	5.6
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 406	13	93	400	2 102	4 548	4 107	4 143	5.6
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	849	1	3	21	101	202	232	289	5.9
SOLAR HEATING EQUIPMENT	2	-	-	-	-	1	2	-	...
STOVE, BURNING WOOD OR COAL	316	1	2	7	35	77	93	101	5.9
FIREPLACE, BURNING WOOD OR COAL	114	-	-	2	2	24	32	54	6.4
PORTABLE ELECTRIC HEATER	238	-	2	9	40	69	66	53	5.5
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	61	-	-	2	13	11	16	18	5.8
OTHER	121	-	-	2	8	21	24	66	6.5+
NOT REPORTED	9	-	-	1	2	2	3	2	...
NOT REPORTED	75	-	-	3	11	19	20	22	5.7
RENTER OCCUPIED	8 141	158	404	1 821	2 786	1 718	836	418	4.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	651	34	62	118	187	150	69	30	4.1
WITH SELECTED HEATING EQUIPMENT[1]	7 490	124	341	1 703	2 599	1 568	767	387	4.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 183	117	329	1 647	2 486	1 516	728	360	4.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	238	6	6	44	83	44	34	22	4.3
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	36	-	-	5	8	7	13	4	5.3
FIREPLACE, BURNING WOOD OR COAL	4	-	-	-	2	1	-	2	...
PORTABLE ELECTRIC HEATER	143	4	6	28	53	27	17	9	4.1
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	42	2	-	9	15	7	4	6	4.2
OTHER	13	-	-	2	6	2	1	3	...
NOT REPORTED	2	-	-	-	1	1	1	-	...
NOT REPORTED	69	2	7	13	30	8	4	5	3.9
AIR CONDITIONING									
OWNER OCCUPIED	17 444	17	116	487	2 407	5 137	4 651	4 630	5.6
WITH AIR CONDITIONING	13 444	13	78	325	1 625	3 796	3 673	3 933	5.7
ROOM UNITS	6 032	5	52	212	1 012	2 027	1 631	1 093	5.3
1	3 402	4	40	170	713	1 196	848	431	5.1
2	1 860	1	10	39	249	624	566	371	5.5
3	574	-	2	3	44	174	161	189	5.9
4	143	-	-	-	5	28	46	65	6.3
5 OR MORE	53	-	-	1	-	6	11	37	6.5+
CENTRAL SYSTEM	7 411	7	26	114	613	1 770	2 042	2 840	6.1
WITH NO AIR CONDITIONING	4 001	4	38	161	782	1 340	978	697	5.3
RENTER OCCUPIED	8 141	158	404	1 821	2 786	1 718	836	418	4.1
WITH AIR CONDITIONING	5 296	111	259	1 197	1 837	1 109	524	260	4.1
ROOM UNITS	2 497	56	149	533	767	569	294	128	4.2
1	1 831	56	136	450	576	373	175	66	4.0
2	537	-	13	69	161	164	92	38	4.6
3	99	-	-	10	27	29	17	16	4.9
4	20	-	-	3	3	2	5	6	...
5 OR MORE	9	-	-	-	1	2	5	2	...
CENTRAL SYSTEM	2 800	55	110	664	1 070	539	230	132	4.0
WITH NO AIR CONDITIONING	2 844	47	145	624	948	609	312	158	4.1
ALL OCCUPIED HOUSING UNITS	25 585	175	520	2 307	5 193	6 855	5 487	5 048	5.2
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	20 723	45	198	832	3 313	6 064	5 286	4 985	5.5
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	16 892	17	109	391	2 209	4 984	4 592	4 590	5.7
ALL WINDOWS COVERED	5 733	2	27	67	633	1 609	1 584	1 812	5.8
SOME WINDOWS COVERED	1 681	-	10	33	194	416	454	574	5.9
NO WINDOWS COVERED	9 425	15	72	288	1 374	2 943	2 545	2 189	5.5
NOT REPORTED	52	-	-	3	9	16	10	15	5.4
RENTER OCCUPIED	3 831	28	90	442	1 103	1 080	694	395	4.7
ALL WINDOWS COVERED	699	1	11	56	176	203	141	110	5.0
SOME WINDOWS COVERED	293	-	1	24	69	74	78	47	5.2
NO WINDOWS COVERED	2 699	24	66	329	808	771	468	233	4.6
NOT REPORTED	140	2	12	33	50	32	6	5	3.9

[1]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: 1979--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									
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED									
STORM DOORS									
OWNER OCCUPIED	16 892	17	109	391	2 209	4 984	4 592	4 590	5.7
ALL DOORS COVERED	5 484	4	19	58	553	1 691	1 581	1 577	5.8
SOME DOORS COVERED	3 185	2	19	41	400	943	872	909	5.7
NO DOORS COVERED	8 167	10	70	289	1 248	2 334	2 129	2 087	5.6
NOT REPORTED	55	1	-	3	9	15	11	17	5.5
RENTER OCCUPIED	3 831	28	90	442	1 103	1 080	694	395	4.7
ALL DOORS COVERED	648	1	6	32	170	185	153	101	5.1
SOME DOORS COVERED	383	2	2	18	91	118	79	74	5.2
NO DOORS COVERED	2 662	23	70	359	793	746	455	215	4.6
NOT REPORTED	138	2	12	33	49	31	6	5	3.9
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	16 892	17	109	391	2 209	4 984	4 592	4 590	5.7
YES	13 505	13	70	225	1 479	3 895	3 780	4 042	5.8
NO	2 753	4	26	119	592	899	678	436	5.2
DON'T KNOW	571	-	13	44	129	168	122	94	5.1
NOT REPORTED	63	-	-	3	8	21	13	18	5.5
RENTER OCCUPIED	3 831	28	90	442	1 103	1 080	694	395	4.7
YES	1 464	5	22	102	347	469	319	202	5.0
NO	1 384	13	39	201	439	358	228	106	4.5
DON'T KNOW	831	8	16	105	264	221	133	83	4.6
NOT REPORTED	152	2	12	34	53	33	13	5	4.0

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979

(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	25 585	7 070	18 515	6 203	4 614	2 747	4 951
HOUSE HEATING FUEL							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
UTILITY GAS	8 206	1 486	6 720	2 158	1 941	992	1 629
BOTTLED, TANK, OR LP GAS	1 750	515	1 235	397	290	215	331
FUEL OIL	2 082	271	1 811	502	508	285	516
KEROSENE, ETC	182	20	163	55	38	27	43
ELECTRICITY	4 657	2 715	1 942	1 111	515	152	164
COAL OR COKE	83	6	77	10	16	15	36
WOOD	412	75	337	79	56	65	137
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	6	2	4	2	-	1	1
NONE	67	13	54	11	29	9	4
RENTER OCCUPIED	8 141	1 967	6 173	1 877	1 220	987	2 089
UTILITY GAS	3 849	523	3 326	822	718	619	1 166
BOTTLED, TANK, OR LP GAS	519	74	446	106	92	68	180
FUEL OIL	831	49	783	167	155	140	322
KEROSENE, ETC	96	2	93	16	18	13	46
ELECTRICITY	2 418	1 308	1 110	717	177	77	139
COAL OR COKE	58	-	58	3	4	8	44
WOOD	223	6	217	19	24	35	139
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	3	2	1	-	1	-	1
NONE	143	4	139	27	32	27	53
WATER HEATING FUEL							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
NO HOT PIPED WATER	277	26	250	40	39	59	112
WITH HOT PIPED WATER	17 168	5 076	12 091	4 286	3 355	1 701	2 750
FUEL USED:							
UTILITY GAS	7 111	1 228	5 883	1 847	1 767	855	1 414
BOTTLED, TANK, OR LP GAS	1 040	261	779	224	161	145	249
FUEL OIL	264	45	219	62	51	39	67
KEROSENE, ETC	5	-	5	2	1	2	-
ELECTRICITY	8 713	3 533	5 180	2 145	1 369	657	1 009
COAL OR COKE	1	-	1	-	-	-	1
WOOD	6	-	6	1	1	2	2
SOLAR HEAT	15	4	12	3	3	-	5
OTHER FUEL	9	4	5	2	2	1	1
NONE	4	3	2	-	-	1	1
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	8 141	1 967	6 173	1 877	1 220	987	2 089
NO HOT PIPED WATER	333	4	329	28	47	56	197
WITH HOT PIPED WATER	7 808	1 963	5 845	1 848	1 173	932	1 892
FUEL USED:							
UTILITY GAS	3 672	532	3 140	820	651	579	1 089
BOTTLED, TANK, OR LP GAS	317	38	279	70	57	42	110
FUEL OIL	259	16	243	67	37	49	90
KEROSENE, ETC	3	-	3	1	1	-	2
ELECTRICITY	3 516	1 363	2 153	884	421	257	592
COAL OR COKE	1	-	1	-	-	-	1
WOOD	3	-	3	-	-	1	2
SOLAR HEAT	2	-	2	-	2	-	-
OTHER FUEL	15	5	10	3	3	2	2
NONE	20	9	11	3	2	2	4
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
UTILITY GAS	4 773	701	4 072	986	1 190	709	1 187
BOTTLED, TANK, OR LP GAS	1 739	532	1 207	432	251	189	335
FUEL OIL	9	1	8	1	4	3	1
KEROSENE, ETC	3	1	2	1	1	-	1
ELECTRICITY	10 840	3 860	6 980	2 897	1 942	843	1 298
COAL OR COKE	6	1	5	-	-	-	5
WOOD	61	3	58	8	5	14	31
OTHER FUEL	6	1	4	2	-	1	2
NONE	7	3	5	-	-	2	3
RENTER OCCUPIED	8 141	1 967	6 173	1 877	1 220	987	2 089
UTILITY GAS	3 398	411	2 987	707	591	583	1 106
BOTTLED, TANK, OR LP GAS	618	80	538	147	96	77	218
FUEL OIL	4	2	2	-	-	-	2
KEROSENE, ETC	6	-	6	-	2	-	4
ELECTRICITY	4 033	1 475	2 558	1 017	521	315	705
COAL OR COKE	2	-	2	-	-	-	2
WOOD	47	1	47	2	5	3	36
OTHER FUEL	6	-	6	2	1	2	2
NONE	27	-	27	1	5	6	15

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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 ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	13 990	3 637	10 354	3 566	3 080	1 502	2 206
LESS THAN $10	83	3	79	10	12	12	45
$10 TO $19	1 081	65	1 016	149	222	211	434
$20 TO $29	1 962	210	1 752	392	507	324	529
$30 TO $39	2 250	368	1 881	539	592	337	414
$40 TO $49	1 932	461	1 472	550	466	200	256
$50 TO $59	1 853	533	1 319	546	415	144	215
$60 TO $79	2 448	935	1 513	702	458	177	175
$80 TO $99	1 118	466	652	332	209	55	56
$100 TO $149	1 024	495	529	282	162	27	59
$150 OR MORE	228	101	127	63	37	10	18
NO ELECTRICITY USED	12	-	12	1	-	6	5
MEDIAN	48	64	43	52	44	35	32
SPECIFIED RENTER OCCUPIED[2]	7 854	1 951	5 903	1 841	1 180	954	1 928
LESS THAN $10	318	32	286	60	49	49	128
$10 TO $19	1 188	115	1 073	223	185	213	452
$20 TO $29	1 335	241	1 094	276	215	194	409
$30 TO $39	1 162	273	889	244	192	142	310
$40 TO $49	738	229	509	189	133	62	126
$50 TO $59	597	223	374	117	87	58	112
$60 TO $79	586	280	306	127	69	45	65
$80 TO $99	183	91	91	38	19	15	19
$100 TO $149	132	56	76	35	19	7	15
$150 OR MORE	18	4	14	6	3	3	2
INCLUDED IN RENT	1 571	401	1 170	519	205	158	288
NO ELECTRICITY USED	27	5	21	8	3	6	4
MEDIAN	32	44	28	34	32	26	25
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	13 990	3 637	10 354	3 566	3 080	1 502	2 206
LESS THAN $10	695	120	575	128	200	97	149
$10 TO $14	940	161	779	218	246	126	190
$15 TO $19	1 028	150	878	240	259	157	223
$20 TO $24	1 330	207	1 123	404	315	179	224
$25 TO $29	1 145	180	964	294	294	135	241
$30 TO $39	1 767	321	1 446	474	408	229	335
$40 TO $49	1 032	186	847	290	250	113	193
$50 TO $69	1 005	157	848	279	236	133	199
$70 TO $99	250	45	205	78	50	21	55
$100 OR MORE	82	14	68	17	24	6	21
NO GAS USED	4 717	2 096	2 621	1 141	799	306	375
MEDIAN	27	28	27	28	27	26	27
SPECIFIED RENTER OCCUPIED[2]	7 854	1 951	5 903	1 841	1 180	954	1 928
LESS THAN $10	646	69	577	142	111	97	227
$10 TO $14	573	56	517	113	103	100	200
$15 TO $19	494	46	448	79	105	87	177
$20 TO $24	448	39	409	97	91	87	134
$25 TO $29	278	21	257	39	53	48	117
$30 TO $39	458	45	413	65	110	72	166
$40 TO $49	222	17	205	22	39	47	97
$50 TO $69	228	18	209	41	33	30	105
$70 TO $99	45	4	42	3	9	9	21
$100 OR MORE	28	-	28	6	7	2	14
INCLUDED IN RENT	2 085	530	1 555	656	313	230	357
NO GAS USED	2 350	1 107	1 243	579	207	145	312
MEDIAN	19	18	20	17	20	20	21
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	13 990	3 637	10 354	3 566	3 080	1 502	2 206
LESS THAN $100	559	188	371	171	97	37	66
$100 TO $199	413	90	324	109	94	47	74
$200 TO $299	334	42	292	95	71	59	68
$300 TO $399	378	48	330	84	106	67	73
$400 TO $499	282	22	260	55	66	58	81
$500 TO $599	229	25	204	51	49	36	68
$600 TO $699	178	18	160	34	43	27	55
$700 TO $799	95	3	92	20	26	9	36
$800 OR MORE	156	18	137	23	38	22	54
FUELS NOT USED OR FREE	11 366	3 183	8 183	2 922	2 491	1 140	1 630
MEDIAN	301	143	329	243	331	357	409

[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: 1979--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							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	7 854	1 951	5 903	1 841	1 180	954	1 928
LESS THAN $100	132	11	121	19	27	15	60
$100 TO $199	126	10	116	25	16	17	58
$200 TO $299	129	9	120	19	21	16	63
$300 TO $399	135	5	130	21	24	27	59
$400 TO $499	57	3	53	4	10	12	27
$500 TO $599	60	1	58	4	11	11	32
$600 TO $699	59	3	56	12	7	15	23
$700 TO $799	19	1	18	4	4	-	10
$800 OR MORE	41	-	41	5	8	7	20
INCLUDED IN RENT	649	104	545	180	97	85	183
FUELS NOT USED OR FREE	6 448	1 804	4 644	1 549	954	750	1 391
MEDIAN	293	211	300	261	301	347	291
ALL OCCUPIED HOUSING UNITS	25 585	7 070	18 515	6 203	4 614	2 747	4 951
HEATING EQUIPMENT							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
WARM-AIR FURNACE	9 386	3 611	5 775	2 772	1 727	522	754
HEAT PUMP	711	521	190	119	43	14	14
STEAM OR HOT WATER	531	17	513	97	67	83	265
BUILT-IN ELECTRIC UNITS	1 391	553	837	463	212	81	82
FLOOR, WALL, OR PIPELESS FURNACE	1 472	79	1 393	251	528	285	330
ROOM HEATERS WITH FLUE	1 226	56	1 171	169	267	223	512
ROOM HEATERS WITHOUT FLUE	1 613	83	1 530	218	304	389	619
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 048	169	879	226	217	154	281
NONE	67	13	54	11	29	9	4
RENTER OCCUPIED	8 141	1 967	6 173	1 877	1 220	987	2 089
WARM-AIR FURNACE	3 362	1 540	1 822	1 087	343	143	249
HEAT PUMP	138	83	55	35	8	6	6
STEAM OR HOT WATER	558	22	536	70	85	121	260
BUILT-IN ELECTRIC UNITS	697	235	462	242	89	41	91
FLOOR, WALL, OR PIPELESS FURNACE	767	37	730	158	251	149	172
ROOM HEATERS WITH FLUE	776	11	766	78	138	143	406
ROOM HEATERS WITHOUT FLUE	1 192	14	1 177	119	204	271	584
FIREPLACES, STOVES, OR PORTABLE HEATERS	508	21	487	62	71	85	269
NONE	143	4	139	27	32	27	53
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
NO HEATING EQUIPMENT	67	13	54	11	29	9	4
WITH HEATING EQUIPMENT	17 378	5 090	12 288	4 315	3 364	1 751	2 858
NO THERMOSTAT CONTROL	3 612	326	3 286	619	783	700	1 185
WITH THERMOSTAT CONTROL	13 719	4 757	8 962	3 687	2 572	1 044	1 659
NOT CLOCK OPERATED	11 311	3 981	7 330	3 059	2 097	844	1 330
CONSTANT TEMPERATURE SETTING MAINTAINED	4 161	1 538	2 623	1 122	749	285	466
TEMPERATURE SETTING IS CHANGED	7 082	2 405	4 677	1 925	1 339	555	859
OCCASIONALLY	2 234	793	1 441	618	392	158	273
REGULARLY	4 736	1 577	3 158	1 282	920	385	571
DON'T KNOW	96	29	68	22	23	10	13
NOT REPORTED	16	6	10	3	3	2	2
NOT REPORTED	68	38	30	12	9	4	5
CLOCK OPERATED	2 399	776	1 623	627	473	197	327
NOT REPORTED	9	-	9	2	2	3	3
NOT REPORTED	47	7	40	9	10	7	14
RENTER OCCUPIED	8 141	1 967	6 173	1 877	1 220	987	2 089
NO HEATING EQUIPMENT	143	4	139	27	32	27	53
WITH HEATING EQUIPMENT	7 998	1 963	6 034	1 850	1 189	960	2 036
NO THERMOSTAT CONTROL	2 993	116	2 877	389	558	593	1 337
WITH THERMOSTAT CONTROL	4 971	1 842	3 129	1 458	625	360	685
NOT CLOCK OPERATED	4 121	1 485	2 636	1 238	524	305	569
CONSTANT TEMPERATURE SETTING MAINTAINED	1 628	577	1 051	489	202	130	231
TEMPERATURE SETTING IS CHANGED	2 391	863	1 528	720	305	171	332
OCCASIONALLY	848	294	554	259	104	73	118
REGULARLY	1 465	556	910	430	194	91	195
DON'T KNOW	70	13	57	25	6	7	19
NOT REPORTED	7	-	7	6	1	-	-
NOT REPORTED	103	46	57	29	17	4	7
CLOCK OPERATED	845	355	490	220	101	55	114
NOT REPORTED	5	2	3	1	-	-	2
NOT REPORTED	33	5	29	3	5	6	14

[1]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: 1979--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	25 585	7 070	18 515	6 203	4 614	2 747	4 951
UNITS OCCUPIED LAST WINTER	21 347	5 255	16 092	5 345	4 064	2 376	4 308
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	15 974	4 231	11 743	4 089	3 234	1 679	2 741
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	4 002	9 374	3 649	2 707	1 147	1 872
NO ADDITIONAL HEAT SOURCE USED	11 862	3 668	8 194	3 283	2 372	994	1 545
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	1 150	223	927	275	271	121	260
NOT REPORTED	364	110	253	90	64	32	67
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	229	2 369	440	527	532	870
RENTER OCCUPIED	5 373	1 023	4 350	1 256	830	698	1 566
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	997	3 023	1 102	626	426	869
NO ADDITIONAL HEAT SOURCE USED	3 377	905	2 471	970	500	326	675
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	494	57	437	95	96	88	159
NOT REPORTED	149	35	114	37	29	12	35
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	26	1 327	153	205	271	697
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	15 974	4 231	11 743	4 089	3 234	1 679	2 741
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	4 002	9 374	3 649	2 707	1 147	1 872
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	10 102	3 680	6 422	2 985	1 811	637	989
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 938	219	2 718	579	840	479	820
1 ROOM	645	115	530	164	148	79	140
2 ROOMS	688	33	655	100	188	126	241
3 ROOMS OR MORE	1 604	72	1 532	315	504	274	440
NOT REPORTED	337	102	234	85	56	31	63
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	229	2 369	440	527	532	870
RENTER OCCUPIED	5 373	1 023	4 350	1 256	830	698	1 566
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	997	3 023	1 102	626	426	869
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 733	915	1 818	860	323	233	402
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 121	40	1 081	202	271	178	430
1 ROOM	276	22	254	58	32	40	124
2 ROOMS	391	12	380	68	108	66	137
3 ROOMS OR MORE	454	7	447	75	131	71	170
NOT REPORTED	165	41	124	40	31	16	36
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	26	1 327	153	205	271	697
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	15 974	4 231	11 743	4 089	3 234	1 679	2 741
WITH SPECIFIED HEATING EQUIPMENT[1]	13 376	4 002	9 374	3 649	2 707	1 147	1 872
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 598	229	2 369	440	527	532	870
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	2 205	190	2 014	384	456	451	723
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	322	30	292	48	61	62	121
NOT REPORTED	71	9	62	8	10	19	26
RENTER OCCUPIED	5 373	1 023	4 350	1 256	830	698	1 566
WITH SPECIFIED HEATING EQUIPMENT[1]	4 019	997	3 023	1 102	626	426	869
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 353	26	1 327	153	205	271	697
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	1 006	18	988	109	160	207	511
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	273	6	266	29	36	58	143
NOT REPORTED	75	2	73	15	9	6	43

[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: 1979--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	25 585	7 070	18 515	6 203	4 614	2 747	4 951
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 115	182	933	237	247	164	286
WITH SELECTED HEATING EQUIPMENT[1]	16 330	4 921	11 409	4 089	3 147	1 596	2 576
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	15 406	4 656	10 750	3 864	2 953	1 521	2 412
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	849	249	600	204	181	72	144
SOLAR HEATING EQUIPMENT	2	-	2	2	1	-	-
STOVE, BURNING WOOD OR COAL	316	114	202	73	48	22	59
FIREPLACE, BURNING WOOD OR COAL	114	44	71	41	13	8	9
PORTABLE ELECTRIC HEATER	238	47	191	48	75	29	39
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	61	12	49	16	10	4	18
OTHER	121	32	89	28	33	8	20
NOT REPORTED	9	5	4	2	2	-	-
NOT REPORTED	75	16	59	21	13	4	20
RENTER OCCUPIED	8 141	1 967	6 173	1 877	1 220	987	2 089
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	651	25	626	89	102	112	322
WITH SELECTED HEATING EQUIPMENT[1]	7 490	1 942	5 548	1 788	1 118	875	1 767
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 183	1 900	5 283	1 734	1 063	830	1 656
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	238	21	217	44	46	38	89
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	36	1	35	3	6	7	19
FIREPLACE, BURNING WOOD OR COAL	4	-	4	-	1	2	2
PORTABLE ELECTRIC HEATER	143	18	124	30	26	21	48
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	42	2	40	7	11	6	16
OTHER	13	-	13	4	2	3	5
NOT REPORTED	2	-	2	2	-	-	1
NOT REPORTED	69	21	48	10	9	7	22
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	321	3 633	624	818	775	1 416
WITH SELECTED HEATING EQUIPMENT[2]	13 491	4 782	8 709	3 702	2 576	985	1 446
LESS THAN 4 YEARS	3 156	2 060	1 096	384	355	149	208
4 TO 9 YEARS	4 426	2 602	1 825	682	570	218	355
10 TO 19 YEARS	3 848	84	3 763	2 408	674	279	402
20 TO 39 YEARS	1 396	1	1 394	80	815	239	260
40 YEARS OR MORE	74	-	74	2	2	5	64
DON'T KNOW	508	20	487	128	138	88	133
NOT REPORTED	84	14	70	17	22	7	23
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	321	3 633	624	818	775	1 416
WITH SELECTED HEATING EQUIPMENT[2]	13 491	4 782	8 709	3 702	2 576	985	1 446
NO MAINTENANCE OR MODIFICATION	11 029	4 097	6 931	2 989	2 052	794	1 096
WITH MAINTENANCE OR MODIFICATION	2 365	658	1 707	691	502	181	333
NOT REPORTED	97	27	70	22	22	10	16
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 954	321	3 633	624	818	775	1 416
WITH SELECTED HEATING EQUIPMENT[2]	13 491	4 782	8 709	3 702	2 576	985	1 446
NO MAINTENANCE CONTRACT	11 901	4 213	7 688	3 365	2 296	859	1 168
WITH MAINTENANCE CONTRACT	1 481	536	945	310	261	119	254
NOT REPORTED	108	33	75	27	18	7	23

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
NO HOT PIPED WATER	277	26	250	40	39	59	112
WITH HOT PIPED WATER	17 168	5 076	12 091	4 286	3 355	1 701	2 750
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	16 609	4 953	11 656	4 143	3 229	1 641	2 643
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	90	26	64	20	14	13	17
NOT REPORTED	449	91	357	120	108	46	83
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	8 141	1 967	6 173	1 877	1 220	987	2 089
NO HOT PIPED WATER	333	4	329	28	47	56	197
WITH HOT PIPED WATER	7 808	1 963	5 845	1 848	1 173	932	1 892
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 504	1 898	5 606	1 785	1 103	894	1 824
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	36	8	28	8	5	4	11
NOT REPORTED	246	48	198	52	61	32	53
NOT REPORTED	-	-	-	-	-	-	-
AIR CONDITIONING							
OWNER OCCUPIED	17 444	5 103	12 342	4 326	3 394	1 760	2 862
WITH AIR CONDITIONING	13 444	4 379	9 065	3 600	2 681	1 177	1 606
ROOM UNITS	6 032	853	5 179	1 418	1 594	875	1 292
1	3 402	598	2 804	859	775	480	691
2	1 860	224	1 637	436	555	271	375
3	574	25	549	101	212	92	145
4	143	6	137	18	40	25	55
5 OR MORE	53	1	53	6	13	8	26
CENTRAL SYSTEM	7 411	3 526	3 885	2 182	1 087	301	315
WITH NO AIR CONDITIONING	4 001	724	3 277	726	713	583	1 255
RENTER OCCUPIED	8 141	1 967	6 173	1 877	1 220	987	2 089
WITH AIR CONDITIONING	5 296	1 801	3 495	1 477	758	440	820
ROOM UNITS	2 497	260	2 237	549	553	385	750
1	1 831	214	1 617	415	385	276	542
2	537	37	500	111	134	94	162
3	99	7	92	17	31	13	31
4	20	-	20	5	4	1	10
5 OR MORE	9	2	8	1	-	2	5
CENTRAL SYSTEM	2 800	1 541	1 258	929	204	55	70
WITH NO AIR CONDITIONING	2 844	166	2 678	399	462	547	1 270
ALL OCCUPIED HOUSING UNITS	25 585	7 070	18 515	6 203	4 614	2 747	4 951
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	20 723	5 316	15 407	4 920	4 068	2 320	4 099
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	16 892	4 880	12 012	4 205	3 346	1 719	2 742
ALL WINDOWS COVERED	5 733	1 928	3 805	1 313	994	576	922
SOME WINDOWS COVERED	1 681	286	1 395	380	389	199	428
NO WINDOWS COVERED	9 425	2 646	6 779	2 504	1 954	943	1 378
NOT REPORTED	52	20	33	8	9	2	14
RENTER OCCUPIED	3 831	436	3 395	716	722	601	1 357
ALL WINDOWS COVERED	699	116	583	133	124	98	228
SOME WINDOWS COVERED	293	19	274	39	58	45	132
NO WINDOWS COVERED	2 699	279	2 420	506	507	440	967
NOT REPORTED	140	22	118	38	33	17	30
STORM DOORS							
OWNER OCCUPIED	16 892	4 880	12 012	4 205	3 346	1 719	2 742
ALL DOORS COVERED	5 484	1 350	4 134	1 318	1 177	631	1 009
SOME DOORS COVERED	3 185	1 027	2 158	816	559	281	502
NO DOORS COVERED	8 167	2 481	5 686	2 064	1 601	805	1 216
NOT REPORTED	55	22	33	7	9	2	16
RENTER OCCUPIED	3 831	436	3 395	716	722	601	1 357
ALL DOORS COVERED	648	82	566	120	148	95	202
SOME DOORS COVERED	383	45	338	73	63	75	126
NO DOORS COVERED	2 662	286	2 376	486	479	413	999
NOT REPORTED	138	22	116	37	32	17	30

[1]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: 1979--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							
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED	16 892	4 880	12 012	4 205	3 346	1 719	2 742
YES	13 505	4 517	8 988	3 639	2 675	1 098	1 577
NO	2 753	229	2 524	407	532	549	1 037
DON'T KNOW	571	113	459	151	125	70	113
NOT REPORTED	63	21	42	8	15	2	16
RENTER OCCUPIED	3 831	436	3 395	716	722	601	1 357
YES	1 464	275	1 189	391	282	189	327
NO	1 384	37	1 347	157	240	257	692
DON'T KNOW	831	101	730	128	167	133	302
NOT REPORTED	152	22	130	40	33	21	35
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	16 892	4 880	12 012	4 205	3 346	1 719	2 742
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	9 425	2 646	6 779	2 504	1 954	943	1 378
SOME OR ALL WINDOWS COVERED	7 414	2 214	5 200	1 693	1 382	775	1 350
NONE ADDED OR INSTALLED	6 137	1 833	4 305	1 426	1 134	653	1 093
SOME OR ALL ADDED OR INSTALLED	1 186	351	835	246	233	118	239
NOT REPORTED	91	30	60	21	16	5	19
NOT REPORTED	52	20	33	8	9	2	14
STORM DOORS:							
NO DOORS COVERED	8 167	2 481	5 686	2 064	1 601	805	1 216
SOME OR ALL DOORS COVERED	8 669	2 377	6 293	2 134	1 736	912	1 511
NONE ADDED OR INSTALLED	7 353	1 922	5 431	1 802	1 502	804	1 322
SOME OR ALL ADDED OR INSTALLED	1 045	368	677	252	186	86	154
NOT REPORTED	272	87	185	79	48	22	35
NOT REPORTED	55	22	33	7	9	2	16
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	2 753	229	2 524	407	532	549	1 037
WITH ATTIC OR ROOF INSULATION	13 505	4 517	8 988	3 639	2 675	1 098	1 577
NONE ADDED OR INSTALLED	11 991	3 985	8 006	3 264	2 380	988	1 374
SOME OR ALL ADDED OR INSTALLED	1 229	444	785	293	229	97	166
LESS THAN 3 INCHES ADDED	94	28	66	25	24	4	13
3 TO 6 INCHES ADDED	517	144	373	140	108	56	70
6 INCHES OR MORE ADDED	412	176	237	99	68	24	46
DON'T KNOW	137	67	70	19	20	8	23
NOT REPORTED	69	29	39	10	9	5	15
NOT REPORTED	285	87	198	82	66	13	37
DON'T KNOW	571	113	459	151	125	70	113
NOT REPORTED	63	21	42	8	15	2	16
WALL INSULATION:							
NONE ADDED OR INSTALLED	15 976	4 531	11 445	4 022	3 211	1 636	2 577
SOME OR ALL ADDED OR INSTALLED	822	312	510	166	119	81	145
NOT REPORTED	94	37	57	17	17	2	21
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	13 711	3 919	9 792	3 397	2 685	1 444	2 267
SOME OR ALL ADDED OR INSTALLED	2 991	890	2 102	764	628	264	446
DON'T KNOW	136	48	88	37	24	10	17
NOT REPORTED	54	23	31	7	9	2	13
OTHER INSULATION:							
NONE ADDED OR INSTALLED	16 004	4 521	11 483	4 013	3 211	1 663	2 595
SOME OR ALL ADDED OR INSTALLED	783	324	459	158	119	53	128
NOT REPORTED	105	35	70	33	16	13	19

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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	3 831	436	3 395	716	722	601	1 357
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	2 699	279	2 420	506	507	440	967
SOME OR ALL WINDOWS COVERED	992	135	857	172	183	143	360
NONE ADDED OR INSTALLED	793	116	677	136	150	113	278
SOME OR ALL ADDED OR INSTALLED	182	17	165	31	29	27	78
NOT REPORTED	17	1	15	5	3	3	4
NOT REPORTED	140	22	118	38	33	17	30
STORM DOORS:							
NO DOORS COVERED	2 662	286	2 376	486	479	413	999
SOME OR ALL DOORS COVERED	1 031	127	903	193	212	171	329
NONE ADDED OR INSTALLED	883	108	775	163	187	150	275
SOME OR ALL ADDED OR INSTALLED	118	17	100	18	22	17	43
NOT REPORTED	30	2	28	12	3	3	10
NOT REPORTED	138	22	116	37	32	17	30
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	1 384	37	1 347	157	240	257	692
WITH ATTIC OR ROOF INSULATION	1 464	275	1 189	391	282	189	327
NONE ADDED OR INSTALLED	1 309	245	1 064	359	255	168	282
SOME OR ALL ADDED OR INSTALLED	93	20	73	16	14	10	33
LESS THAN 3 INCHES ADDED	4	-	4	-	2	2	1
3 TO 6 INCHES ADDED	29	2	27	6	8	2	10
6 INCHES OR MORE ADDED	30	6	24	6	2	3	13
DON'T KNOW	27	10	17	2	3	3	8
NOT REPORTED	3	1	1	1	-	-	-
NOT REPORTED	62	11	52	17	13	11	11
DON'T KNOW	831	101	730	128	167	133	302
NOT REPORTED	152	22	130	40	33	21	35
WALL INSULATION:							
NONE ADDED OR INSTALLED	3 562	388	3 174	657	665	566	1 286
SOME OR ALL ADDED OR INSTALLED	76	17	58	9	9	11	30
NOT REPORTED	194	31	163	50	48	24	41
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	3 071	334	2 737	563	577	485	1 113
SOME OR ALL ADDED OR INSTALLED	349	43	307	57	65	52	133
DON'T KNOW	267	33	234	57	49	47	82
NOT REPORTED	144	27	117	39	32	17	29
OTHER INSULATION:							
NONE ADDED OR INSTALLED	3 523	393	3 130	644	658	558	1 270
SOME OR ALL ADDED OR INSTALLED	118	11	107	17	20	21	48
NOT REPORTED	190	32	159	55	43	22	39
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	16 892	4 880	12 012	4 205	3 346	1 719	2 742
NO INSULATION ADDED OR INSTALLED	11 591	3 317	8 274	2 864	2 264	1 230	1 915
WITH INSULATION ADDED OR INSTALLED	4 725	1 377	3 348	1 178	975	450	745
LESS THAN $50	1 873	539	1 334	493	366	185	290
$50 TO $99	516	145	371	122	104	60	86
$100 TO $199	500	126	374	127	112	48	87
$200 TO $399	513	128	385	125	136	53	71
$400 OR MORE	765	220	545	205	160	60	121
DON'T KNOW	284	126	158	44	47	18	50
NOT REPORTED	274	94	180	62	49	27	41
MEDIAN	70	63	73	67	84	64	71
NOT REPORTED OR DON'T KNOW	576	186	390	163	106	39	82
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	415	78	337	90	92	54	101
LESS THAN $50	174	31	144	35	33	21	54
$50 TO $99	32	5	27	8	10	7	2
$100 TO $199	55	7	48	14	19	4	11
$200 TO $399	46	8	38	10	10	8	11
$400 OR MORE	57	16	41	13	10	10	7
DON'T KNOW	20	2	18	3	6	2	7
NOT REPORTED	30	9	21	7	3	2	8
MEDIAN	62	74	59	81	89	76	50-

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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							
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
ONLY ADDED OR INSTALLED STORM DOORS	412	132	280	100	76	42	62
LESS THAN $50	71	18	53	16	17	13	8
$50 TO $99	161	61	100	36	19	14	30
$100 TO $199	103	33	69	27	17	8	17
$200 TO $399	28	7	22	8	8	1	4
$400 OR MORE	20	4	16	6	7	3	-
DON'T KNOW	7	1	6	2	4	-	-
NOT REPORTED	23	9	14	5	4	2	2
MEDIAN	87	85	88	92	94	74	85
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	618	176	442	156	131	70	85
LESS THAN $50	63	15	48	18	8	14	8
$50 TO $99	77	24	53	14	18	7	14
$100 TO $199	113	30	82	32	23	9	18
$200 TO $399	126	31	95	28	34	15	18
$400 OR MORE	104	19	85	34	25	15	11
DON'T KNOW	72	31	41	17	10	6	9
NOT REPORTED	65	26	38	13	15	4	6
MEDIAN	189	168	197	195	231	195	171

TABLE D-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979

(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]	13 990	83	1 081	1 962	2 250	1 932	1 853	2 448	1 118	1 024	228	12	48
HOUSE HEATING FUEL													
ELECTRICITY	3 625	5	41	114	223	361	510	1 017	607	598	150	-	70
OTHER THAN ELECTRICITY	10 305	77	1 036	1 840	2 010	1 564	1 339	1 421	506	423	77	12	41
UTILITY GAS	7 334	56	735	1 345	1 387	1 075	947	1 020	385	326	56	3	41
BOTTLED, TANK, OR LP GAS	907	6	119	157	187	149	114	119	30	20	4	2	38
FUEL OIL	1 649	5	131	250	353	287	224	237	77	68	17	1	43
KEROSENE, ETC	119	-	17	24	25	12	13	16	8	4	-	-	37
COAL OR COKE	53	3	12	14	9	5	8	2	1	1	-	-	28
WOOD	239	7	23	48	50	37	32	25	6	4	-	6	37
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	-	-	1	-	-	2	2	-	-	-	-	...
NONE	60	-	4	8	17	8	4	10	6	3	-	-	41
WATER HEATING FUEL[3]													
ELECTRICITY	6 492	9	202	545	811	872	902	1 488	781	718	165	-	58
OTHER FUEL	7 315	60	806	1 368	1 414	1 051	948	958	338	306	61	7	40
NONE	2	-	1	-	-	1	-	-	-	-	-	-	...
COOKING FUEL													
ELECTRICITY	8 918	17	306	847	1 247	1 247	1 295	1 945	948	865	198	-	56
OTHER FUEL	5 068	64	773	1 115	1 002	684	558	502	170	159	30	12	35
NONE	4	2	2	-	-	1	-	-	-	-	-	-	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	3 276	3	25	88	177	310	460	951	575	548	137	-	71
ALL OTHER FUEL COMBINATIONS OR NONE	10 715	80	1 056	1 874	2 073	1 622	1 392	1 496	543	476	91	12	41
HEATING EQUIPMENT													
WARM-AIR FURNACE	7 504	10	250	837	1 143	1 108	1 100	1 471	715	699	170	-	53
HEAT PUMP	621	-	2	9	30	51	88	195	107	115	23	-	73
STEAM OR HOT WATER	450	3	76	107	100	64	52	36	8	2	2	-	33
BUILT-IN ELECTRIC UNITS	1 097	3	20	49	88	112	191	337	156	123	19	-	65
FLOOR, WALL, OR PIPELESS FURNACE	1 297	8	194	293	273	205	134	122	37	26	6	-	35
ROOM HEATERS WITH FLUE	963	15	175	207	205	138	71	87	34	23	3	4	34
ROOM HEATERS WITHOUT FLUE	1 317	29	278	320	275	146	125	103	21	14	3	2	31
FIREPLACES, STOVES, OR PORTABLE HEATERS	681	15	82	132	120	99	87	85	35	18	2	6	38
NONE	60	-	4	8	17	8	4	10	6	3	-	-	41
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	60	-	4	8	17	8	4	10	6	3	-	-	41
WITH HEATING EQUIPMENT	13 930	83	1 077	1 954	2 233	1 925	1 849	2 437	1 113	1 021	228	12	48
NO THERMOSTAT CONTROL	2 785	57	478	594	513	357	306	290	101	63	15	11	35
WITH THERMOSTAT CONTROL	11 102	26	594	1 356	1 709	1 563	1 536	2 141	1 009	955	212	1	52
NOT CLOCK OPERATED	9 191	18	493	1 151	1 379	1 301	1 306	1 774	823	780	166	1	52
CONSTANT TEMPERATURE SETTING MAINTAINED	3 410	5	203	390	503	491	466	668	337	289	58	-	52
TEMPERATURE SETTING IS CHANGED	5 722	13	288	752	864	804	838	1 094	478	485	106	1	52
OCCASIONALLY	1 811	6	84	227	261	250	260	362	163	161	39	-	53
REGULARLY	3 826	7	196	512	597	543	561	717	307	320	66	1	51
DON'T KNOW	71	-	8	12	3	11	12	15	6	4	-	-	51
NOT REPORTED	14	-	1	2	3	-	5	-	2	-	2	-	...
NOT REPORTED	59	-	1	9	12	7	2	12	9	6	2	-	56
CLOCK OPERATED	1 906	8	99	203	330	262	231	368	186	175	45	-	52
NOT REPORTED	5	-	2	3	1	-	-	-	-	-	-	-	...
NOT REPORTED	43	-	5	4	11	5	6	6	2	2	1	-	42
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	741	15	87	140	137	107	91	96	41	21	2	6	38
WITH SELECTED HEATING EQUIPMENT[4]	13 249	68	994	1 822	2 113	1 825	1 762	2 352	1 077	1 003	226	6	48
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	12 495	65	935	1 751	1 981	1 720	1 644	2 216	1 025	946	206	6	48
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	696	3	53	69	124	92	109	122	49	55	20	-	51
SOLAR HEATING EQUIPMENT	2	-	-	-	2	-	-	-	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	243	2	14	16	55	37	39	42	13	21	3	-	48
FIREPLACE, BURNING WOOD OR COAL	100	-	-	9	14	13	16	25	4	17	3	-	58
PORTABLE ELECTRIC HEATER	191	-	30	28	33	22	22	27	14	8	7	-	42
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	52	2	4	5	6	8	9	8	3	5	3	-	52
OTHER	109	-	5	11	18	11	23	17	15	6	3	-	54
NOT REPORTED	7	-	-	-	-	1	1	4	1	-	-	-	...
NOT REPORTED	57	-	6	2	7	14	9	14	3	2	-	-	49
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	58	539	667	617	392	287	286	96	58	8	12	33
WITH SELECTED HEATING EQUIPMENT[5]	10 969	24	542	1 295	1 633	1 540	1 566	2 161	1 023	966	220	-	53
LESS THAN 4 YEARS	2 539	7	68	184	267	364	386	635	297	280	52	-	59
4 TO 9 YEARS	3 314	5	97	318	441	451	449	686	359	404	105	-	57
10 TO 19 YEARS	3 263	7	160	433	538	467	495	622	277	218	46	-	50
20 TO 39 YEARS	1 279	5	143	240	275	178	177	158	59	36	9	-	38
40 YEARS OR MORE	64	-	16	22	14	5	1	4	-	1	2	-	27
DON'T KNOW	445	1	50	87	82	71	48	53	26	20	7	-	40
NOT REPORTED	65	-	7	12	17	5	10	3	4	7	-	-	37

[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 HOT PIPED WATER.
[4] EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5] EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE D-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	58	539	667	617	392	287	286	96	58	8	12	33
WITH SELECTED HEATING EQUIPMENT[3]	10 969	24	542	1 295	1 633	1 540	1 566	2 161	1 023	966	220	-	53
NO MAINTENANCE OR MODIFICATION	8 951	22	447	1 033	1 329	1 267	1 294	1 800	844	745	169	-	53
WITH MAINTENANCE OR MODIFICATION	1 935	2	86	250	291	265	260	347	171	212	51	-	53
NOT REPORTED	84	-	9	11	13	8	12	15	7	9	-	-	51
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	58	539	667	617	392	287	286	96	58	8	12	33
WITH SELECTED HEATING EQUIPMENT[3]	10 969	24	542	1 295	1 633	1 540	1 566	2 161	1 023	966	220	-	53
NO MAINTENANCE CONTRACT	9 663	22	455	1 128	1 443	1 350	1 376	1 929	909	864	185	-	53
WITH MAINTENANCE CONTRACT	1 222	2	77	156	177	181	174	222	109	93	32	-	51
NOT REPORTED	84	-	10	11	12	9	16	10	5	8	2	-	50
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	181	14	71	49	25	9	3	2	-	1	2	5	20
WITH HOT PIPED WATER	13 809	69	1 009	1 913	2 224	1 924	1 850	2 445	1 118	1 023	226	7	48
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 362	60	957	1 850	2 156	1 874	1 800	2 374	1 082	985	217	6	48
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	78	2	7	5	13	11	10	11	4	12	3	-	51
NOT REPORTED	352	6	44	57	53	35	38	55	31	24	7	1	44
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	10 975	18	446	1 178	1 661	1 558	1 622	2 248	1 044	975	222	2	53
ROOM UNITS	4 812	16	371	830	1 022	718	654	744	247	176	31	2	42
1	2 573	16	258	496	551	389	318	347	112	73	10	2	38
2	1 585	-	95	243	338	242	228	276	90	66	7	-	44
3	480	-	16	75	104	68	78	75	25	28	11	-	46
4	126	-	2	12	19	17	19	35	15	7	-	-	56
5 OR MORE	48	-	1	4	9	2	11	12	5	2	2	-	56
CENTRAL SYSTEM	6 163	2	74	348	640	840	968	1 503	797	799	191	-	63
WITH NO AIR CONDITIONING	3 015	65	635	784	589	375	230	200	74	49	6	10	30
PERSONS													
1 PERSON	2 113	56	525	535	321	237	163	176	42	37	11	9	28
2 PERSONS	4 303	13	316	711	851	627	593	687	276	193	35	2	44
3 PERSONS	2 748	6	116	295	421	437	415	535	234	247	43	1	52
4 PERSONS	2 641	5	61	196	375	384	400	597	308	259	56	1	57
5 PERSONS	1 294	2	37	110	160	157	177	279	170	163	38	-	60
6 PERSONS	544	-	13	53	71	49	56	122	56	92	30	-	64
7 PERSONS OR MORE	348	-	14	61	50	42	49	52	32	33	16	-	51
MEDIAN	2.7	1.5-	1.5	2.1	2.4	2.7	2.9	3.2	3.5	3.6	3.9	...	...
SPECIFIED OWNER OCCUPIED[2]	13 990	83	1 081	1 962	2 250	1 932	1 853	2 448	1 118	1 024	228	12	48
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	13 990	83	1 081	1 962	2 250	1 932	1 853	2 448	1 118	1 024	228	12	48
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	4 793	23	313	692	780	699	625	887	376	331	65	2	48
SOME WINDOWS COVERED	1 417	10	122	216	241	180	206	235	101	90	14	2	46
NO WINDOWS COVERED	7 742	50	640	1 047	1 225	1 048	1 016	1 324	638	600	146	8	48
NOT REPORTED	39	-	6	7	3	5	5	2	3	3	3	-	45
STORM DOORS													
ALL DOORS COVERED	4 702	16	362	759	877	690	619	788	302	231	55	3	44
SOME DOORS COVERED	2 592	14	159	334	422	371	390	477	224	177	24	-	49
NO DOORS COVERED	6 655	53	554	861	947	865	838	1 181	589	611	146	9	50
NOT REPORTED	41	-	6	7	3	6	5	2	3	5	3	-	47
ATTIC OR ROOF INSULATION													
YES	11 306	37	563	1 297	1 778	1 616	1 638	2 216	1 025	924	208	4	52
NO	2 219	41	445	575	388	245	183	187	67	68	15	6	31
DON'T KNOW	415	4	67	81	77	64	26	41	23	27	2	2	36
NOT REPORTED	50	-	6	9	6	7	6	4	4	4	3	-	44
SPECIFIED RENTER OCCUPIED[5]	7 854	318	1 188	1 335	1 162	738	597	586	183	132	18	1 597	32
HOUSE HEATING FUEL													
ELECTRICITY	2 400	28	124	290	325	322	275	332	100	77	10	517	45
OTHER THAN ELECTRICITY	5 315	282	1 041	1 015	822	404	319	245	82	55	9	1 040	27
UTILITY GAS	3 792	215	760	755	562	279	232	166	51	40	4	729	27
BOTTLED, TANK, OR LP GAS	423	13	70	87	85	42	36	34	14	9	3	30	33
FUEL OIL	803	29	136	110	117	56	36	35	10	5	2	268	28
KEROSENE, ETC	90	3	12	19	25	14	6	3	4	1	-	3	33
COAL OR COKE	48	3	10	15	10	4	1	-	2	-	-	2	25
WOOD	157	19	53	30	24	9	8	7	2	1	-	5	21
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	2	-	-	-	-	-	-	-	-	-	-	2	-
NONE	139	7	23	30	14	12	2	10	1	-	-	40	26

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
WATER HEATING FUEL[3]													
ELECTRICITY	3 402	50	237	544	584	449	380	402	124	91	15	524	40
OTHER FUEL	4 175	233	834	738	546	284	215	181	56	41	3	1 044	26
NONE	19	-	2	1	5	-	-	2	2	-	-	7	...
COOKING FUEL													
ELECTRICITY	3 898	80	333	616	636	484	403	422	131	99	17	677	38
OTHER FUEL	3 933	235	850	719	526	252	193	164	52	34	1	907	25
NONE	23	2	5	1	-	2	-	-	-	-	-	14	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	1 949	17	81	248	277	283	243	292	84	69	10	344	46
ALL OTHER FUEL COMBINATIONS OR NONE	5 906	300	1 107	1 088	885	455	354	294	98	63	9	1 253	28
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 330	75	263	424	466	348	313	353	115	79	11	885	39
HEAT PUMP	137	5	10	13	16	23	16	25	4	4	2	21	46
STEAM OR HOT WATER	557	46	136	46	42	15	3	8	-	-	2	259	17
BUILT-IN ELECTRIC UNITS	689	9	51	113	111	103	88	73	18	19	2	102	41
FLOOR, WALL, OR PIPELESS FURNACE	746	37	146	181	132	56	52	37	12	11	1	81	27
ROOM HEATERS WITH FLUE	729	30	168	176	127	57	40	24	19	8	1	78	26
ROOM HEATERS WITHOUT FLUE	1 119	81	290	255	188	95	58	41	5	9	1	95	25
FIREPLACES, STOVES, OR PORTABLE HEATERS	408	27	101	97	65	28	25	17	10	2	-	37	25
NONE	139	7	23	30	14	12	2	10	1	-	-	40	26
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	139	7	23	30	14	12	2	10	1	-	-	40	26
WITH HEATING EQUIPMENT	7 715	310	1 165	1 305	1 147	726	594	577	182	132	18	1 557	32
NO THERMOSTAT CONTROL	2 797	182	669	571	415	199	143	97	35	25	1	460	25
WITH THERMOSTAT CONTROL	4 889	125	494	724	729	526	450	476	147	107	17	1 093	37
NOT CLOCK OPERATED	4 052	102	408	621	618	434	364	374	114	88	11	919	36
CONSTANT TEMPERATURE SETTING MAINTAINED	1 603	37	173	238	204	181	149	147	60	22	6	387	37
TEMPERATURE SETTING IS CHANGED	2 346	63	230	370	403	242	207	213	52	59	5	502	36
OCCASIONALLY	831	15	80	120	172	77	56	63	14	18	4	212	35
REGULARLY	1 440	45	144	240	218	158	146	139	36	37	1	275	36
DON'T KNOW	69	3	6	8	12	6	5	11	2	3	-	13	38
NOT REPORTED	6	-	1	2	-	2	-	-	-	-	-	2	...
NOT REPORTED	103	2	5	13	12	11	8	14	2	7	-	30	44
CLOCK OPERATED	831	22	85	102	110	93	86	102	33	20	6	174	41
NOT REPORTED	5	2	1	2	-	-	-	-	1	-	-	-	...
NOT REPORTED	30	3	2	11	4	1	2	3	-	-	-	4	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	548	34	124	127	80	40	27	26	10	2	-	77	25
WITH SELECTED HEATING EQUIPMENT[4]	7 307	283	1 064	1 208	1 082	698	569	560	172	130	18	1 520	33
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 010	270	1 006	1 148	1 043	668	557	535	161	126	18	1 477	33
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	228	9	48	45	36	26	11	19	5	4	-	25	29
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	33	2	4	6	10	2	2	4	1	-	-	2	...
FIREPLACE, BURNING WOOD OR COAL	4	-	-	-	1	1	2	1	-	-	-	-	...
PORTABLE ELECTRIC HEATER	140	4	28	29	20	17	6	9	3	4	-	18	29
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	40	3	12	9	3	6	1	2	-	-	-	3	24
OTHER	13	-	3	1	1	1	-	3	1	-	-	3	...
NOT REPORTED	1	-	1	-	1	-	-	-	-	-	-	-	...
NOT REPORTED	68	5	10	15	3	4	1	6	6	-	-	18	26
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	258	35	115	51	27	5	2	2	1	-	-	22	17
WITH HOT PIPED WATER	7 597	282	1 073	1 284	1 135	733	595	585	182	132	18	1 576	33
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 307	271	1 029	1 232	1 092	703	581	568	174	128	18	1 511	33
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	36	2	3	9	8	3	1	6	-	-	-	5	...
NOT REPORTED	233	10	39	42	30	25	14	10	6	5	-	53	29
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	5 199	101	453	749	791	600	508	523	165	124	16	1 169	38
ROOM UNITS	2 421	79	318	459	417	298	233	169	58	42	5	343	34
1	1 783	75	264	352	308	196	155	104	29	25	3	271	32
2	516	4	47	94	93	81	68	49	23	12	2	44	39
3	95	-	4	10	12	16	9	14	4	3	-	22	46
4	19	-	2	4	4	5	-	1	2	-	-	2	...
5 OR MORE	9	-	2	-	-	-	-	-	1	2	-	5	...
CENTRAL SYSTEM	2 777	22	135	289	373	302	275	354	106	82	11	826	45
WITH NO AIR CONDITIONING	2 656	217	735	586	371	138	89	64	18	8	2	428	22
PERSONS													
1 PERSON	2 566	196	508	461	332	171	95	77	19	16	3	688	25
2 PERSONS	2 264	72	295	363	368	247	222	195	53	26	7	415	35
3 PERSONS	1 311	18	165	219	204	153	117	134	37	16	1	247	36
4 PERSONS	874	14	97	147	139	71	93	95	44	46	3	124	38
5 PERSONS	469	13	66	68	69	47	40	53	18	17	2	76	37
6 PERSONS	186	3	24	33	23	31	17	18	6	8	1	21	39
7 PERSONS OR MORE	184	2	32	43	28	17	12	14	6	4	-	27	30
MEDIAN	2.1	1.5-	1.8	2.1	2.2	2.3	2.4	2.6	3.0	3.7	...	1.8	...

[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] LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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]	7 854	318	1 188	1 335	1 162	738	597	586	183	132	18	1 597	32
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 545	120	630	723	619	343	320	298	105	83	13	290	32
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	637	13	96	130	122	66	58	52	21	20	4	56	34
SOME WINDOWS COVERED	264	7	39	52	49	25	23	29	8	5	2	25	34
NO WINDOWS COVERED	2 507	90	473	524	432	241	231	204	75	55	7	176	32
NOT REPORTED	137	10	22	17	17	11	7	14	1	4	-	34	32
STORM DOORS													
ALL DOORS COVERED	591	6	96	113	117	66	57	49	13	16	3	54	34
SOME DOORS COVERED	357	7	48	82	57	39	44	39	12	15	-	17	35
NO DOORS COVERED	2 461	98	465	512	429	227	211	195	79	49	10	186	31
NOT REPORTED	135	10	21	16	17	11	7	14	1	4	-	34	32
ATTIC OR ROOF INSULATION													
YES	1 362	30	142	247	231	143	149	171	59	54	11	124	38
NO	1 231	62	314	268	226	110	90	59	22	14	2	64	27
DON'T KNOW	803	18	147	187	143	78	73	54	23	12	1	68	31
NOT REPORTED	149	10	27	21	19	12	7	14	1	4	-	35	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 D-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979

(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]	13 990	695	940	1 028	1 330	1 145	1 767	1 032	1 005	250	82	4 717	27
HOUSE HEATING FUEL													
GAS	8 241	412	759	898	1 219	1 058	1 652	990	949	230	74	-	28
UTILITY GAS	7 334	336	662	827	1 099	943	1 503	905	820	188	51	-	28
BOTTLED, TANK, OR LP GAS	907	76	97	70	119	115	149	85	130	42	24	-	28
OTHER THAN GAS	5 689	272	176	124	105	85	113	41	56	20	7	4 691	17
FUEL OIL	1 649	111	80	63	25	26	28	12	19	9	2	1 274	14
KEROSENE, ETC	119	18	10	5	7	2	2	-	-	-	2	73	12
ELECTRICITY	3 625	117	70	45	54	49	75	23	33	10	3	3 147	21
COAL OR COKE	53	5	-	2	-	1	1	-	-	-	-	45	...
WOOD	239	20	17	9	19	6	7	6	3	2	-	149	18
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	-	-	-	-	1	-	-	1	-	-	2	...
NONE	60	12	5	7	6	2	2	1	-	-	-	26	...
WATER HEATING FUEL[3]													
GAS	7 082	369	665	788	1 047	884	1 416	862	804	186	60	-	28
UTILITY GAS	6 527	338	600	742	980	824	1 328	798	717	156	45	-	28
BOTTLED, TANK, OR LP GAS	554	31	65	46	67	61	88	65	87	30	15	-	31
OTHER FUEL	6 726	306	252	222	269	241	338	161	190	63	22	4 662	24
NONE	2	-	-	-	-	-	-	-	-	-	-	2	-
COOKING FUEL													
GAS	5 015	382	561	634	717	631	913	532	495	111	39	-	26
UTILITY GAS	4 146	236	432	536	604	557	808	466	397	84	27	-	27
BOTTLED, TANK, OR LP GAS	869	146	130	98	113	75	104	66	98	26	12	-	22
OTHER FUEL	8 971	313	376	394	613	513	854	500	510	139	43	4 716	28
NONE	4	-	3	-	-	-	-	-	-	-	-	1	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	3 912	165	367	464	575	521	787	475	427	96	33	-	28
ALL OTHER FUEL COMBINATIONS OR NONE	10 078	530	573	564	755	624	980	557	578	154	48	4 717	27
HEATING EQUIPMENT													
WARM-AIR FURNACE	7 504	266	402	471	742	645	1 121	688	661	170	55	2 282	31
HEAT PUMP	621	16	8	6	3	2	5	-	2	-	1	579	13
STEAM OR HOT WATER	450	42	34	35	24	20	35	46	40	19	1	154	27
BUILT-IN ELECTRIC UNITS	1 097	41	15	8	10	6	16	4	4	-	2	991	13
FLOOR, WALL, OR PIPELESS FURNACE	1 297	91	138	171	176	185	200	99	105	10	3	121	25
ROOM HEATERS WITH FLUE	963	79	82	93	106	98	126	54	60	14	8	241	25
ROOM HEATERS WITHOUT FLUE	1 317	82	195	186	193	159	227	114	113	29	11	8	24
FIREPLACES, STOVES, OR PORTABLE HEATERS	681	66	60	51	68	28	36	26	21	9	1	315	20
NONE	60	12	5	7	6	2	2	1	-	-	-	26	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	60	12	5	7	6	2	2	1	-	-	-	26	...
WITH HEATING EQUIPMENT	13 930	683	935	1 022	1 323	1 142	1 765	1 031	1 005	250	82	4 691	27
NO THERMOSTAT CONTROL	2 785	217	322	315	302	256	332	176	161	41	16	647	23
WITH THERMOSTAT CONTROL	11 102	466	607	707	1 013	882	1 433	854	836	207	66	4 033	28
NOT CLOCK OPERATED	9 191	379	499	587	813	745	1 188	694	667	167	57	3 394	28
CONSTANT TEMPERATURE SETTING MAINTAINED	3 410	139	187	206	259	271	432	251	222	61	24	1 358	28
TEMPERATURE SETTING IS CHANGED	5 722	235	309	374	552	470	752	439	443	106	32	2 010	28
OCCASIONALLY	1 811	83	108	111	145	126	217	128	138	29	13	715	28
REGULARLY	3 826	150	189	256	400	332	529	309	302	72	20	1 265	28
DON'T KNOW	71	2	10	4	6	11	3	2	3	3	-	25	25
NOT REPORTED	14	-	2	2	-	2	2	-	-	2	-	4	...
NOT REPORTED	59	5	3	7	3	4	4	4	2	-	-	26	...
CLOCK OPERATED	1 906	87	106	118	198	136	244	159	169	40	10	639	29
NOT REPORTED	5	-	2	2	1	-	-	1	-	-	-	-	...
NOT REPORTED	43	1	6	-	8	4	-	2	8	2	-	11	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	741	78	65	57	75	30	38	27	21	9	1	341	19
WITH SELECTED HEATING EQUIPMENT[4]	13 249	617	875	971	1 255	1 115	1 729	1 005	984	241	81	4 376	28
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	12 495	576	843	920	1 203	1 061	1 650	949	918	224	76	4 075	28
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	696	41	27	47	41	47	76	47	58	17	5	291	30
SOLAR HEATING EQUIPMENT	2	-	-	-	-	-	-	-	-	-	1	1	...
STOVE, BURNING WOOD OR COAL	243	8	10	14	9	15	17	8	9	7	2	146	27
FIREPLACE, BURNING WOOD OR COAL	100	4	-	5	4	6	16	6	7	5	-	48	34
PORTABLE ELECTRIC HEATER	191	15	9	16	15	19	21	12	23	3	1	57	28
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	52	5	5	6	2	2	10	9	8	1	-	4	33
OTHER	109	8	3	9	11	5	12	12	9	2	2	38	30
NOT REPORTED	7	-	-	-	-	-	1	-	2	-	-	4	...
NOT REPORTED	57	-	5	4	11	7	3	9	8	1	-	9	27
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	240	342	336	374	287	391	195	194	51	21	590	23
WITH SELECTED HEATING EQUIPMENT[5]	10 969	456	598	692	956	857	1 376	837	811	199	61	4 127	28
LESS THAN 4 YEARS	2 539	113	125	111	173	142	240	161	118	36	11	1 307	28
4 TO 9 YEARS	3 314	98	188	193	273	237	371	244	231	58	20	1 401	28
10 TO 19 YEARS	3 263	124	157	228	336	299	479	273	281	66	22	998	29
20 TO 39 YEARS	1 279	82	84	106	120	118	203	111	115	22	6	311	28
40 YEARS OR MORE	64	8	9	7	3	5	8	7	2	3	-	13	23
DON'T KNOW	445	30	31	42	43	47	68	39	49	12	2	83	28
NOT REPORTED	65	2	3	5	7	9	7	2	15	2	-	14	29

[1]RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.
[2]LIMITED TO 1-UNIT STRUCTURES OR LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[3]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE D-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	240	342	336	374	287	391	195	194	51	21	590	23
WITH SELECTED HEATING EQUIPMENT[3]	10 969	456	598	692	956	857	1 376	837	811	199	61	4 127	28
NO MAINTENANCE OR MODIFICATION	8 951	365	478	577	793	720	1 134	682	608	162	49	3 383	28
WITH MAINTENANCE OR MODIFICATION	1 935	86	118	113	156	125	233	150	189	36	12	718	30
NOT REPORTED	84	5	2	2	7	13	9	5	14	-	-	26	29
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	240	342	336	374	287	391	195	194	51	21	590	23
WITH SELECTED HEATING EQUIPMENT[3]	10 969	456	598	692	956	857	1 376	837	811	199	61	4 127	28
NO MAINTENANCE CONTRACT	9 663	405	517	618	868	784	1 233	723	711	162	56	3 585	28
WITH MAINTENANCE CONTRACT	1 222	49	74	72	78	63	138	105	86	34	5	518	31
NOT REPORTED	84	2	6	2	9	11	6	9	14	2	-	23	31
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	181	20	24	18	13	20	12	9	11	1	-	53	21
WITH HOT PIPED WATER	13 809	675	916	1 011	1 316	1 125	1 754	1 023	994	249	82	4 664	27
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 362	647	875	973	1 283	1 096	1 710	989	960	245	77	4 507	27
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	78	9	7	8	3	3	7	8	6	2	2	24	26
NOT REPORTED	352	17	35	30	31	26	37	26	28	3	3	118	26
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	10 975	470	688	719	1 037	889	1 434	835	818	206	61	3 819	28
ROOM UNITS	4 812	285	390	421	498	449	645	340	297	68	27	1 393	26
1	2 573	162	203	234	267	206	327	179	171	29	16	779	26
2	1 585	86	130	122	178	175	218	113	84	24	4	450	26
3	480	27	46	55	44	52	71	34	20	10	5	116	26
4	126	8	8	9	7	8	15	8	19	4	2	39	33
5 OR MORE	48	3	3	1	2	8	13	6	3	-	-	8	32
CENTRAL SYSTEM	6 163	185	297	298	539	440	789	495	521	138	34	2 426	31
WITH NO AIR CONDITIONING	3 015	225	253	309	292	255	332	197	187	44	21	898	24
PERSONS													
1 PERSON	2 113	178	216	193	240	208	240	129	128	28	9	545	23
2 PERSONS	4 303	246	326	336	437	388	481	296	264	52	18	1 458	26
3 PERSONS	2 748	112	152	177	253	197	382	203	202	45	18	1 007	29
4 PERSONS	2 641	84	135	178	232	178	347	211	205	53	16	1 004	30
5 PERSONS	1 294	41	64	74	98	101	184	126	120	46	9	432	33
6 PERSONS	544	22	32	49	35	42	80	42	47	14	6	175	31
7 PERSONS OR MORE	348	12	16	22	36	31	54	26	39	12	6	96	32
MEDIAN	2.7	2.2	2.3	2.4	2.5	2.4	2.9	2.9	3.0	3.5	3.3	2.8	...
SPECIFIED OWNER OCCUPIED[2]	13 990	695	940	1 028	1 330	1 145	1 767	1 032	1 005	250	82	4 717	27
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	13 990	695	940	1 028	1 330	1 145	1 767	1 032	1 005	250	82	4 717	27
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	4 793	174	197	261	326	339	583	351	347	86	21	2 107	31
SOME WINDOWS COVERED	1 417	82	64	97	119	102	206	114	128	41	15	448	31
NO WINDOWS COVERED	7 742	435	676	670	884	697	972	564	524	124	46	2 152	26
NOT REPORTED	39	3	3	-	2	7	6	4	6	-	-	9	...
STORM DOORS													
ALL DOORS COVERED	4 702	195	215	311	371	363	640	369	339	80	14	1 807	29
SOME DOORS COVERED	2 592	94	159	172	262	246	333	209	222	78	27	791	28
NO DOORS COVERED	6 655	402	565	546	694	529	788	452	438	92	41	2 107	26
NOT REPORTED	41	4	2	-	2	7	5	3	6	-	-	12	...
ATTIC OR ROOF INSULATION													
YES	11 306	486	670	725	1 020	871	1 427	826	795	206	67	4 214	28
NO	2 219	178	214	265	260	225	287	171	162	42	13	401	24
DON'T KNOW	415	28	54	36	46	42	47	28	41	2	2	90	24
NOT REPORTED	50	3	2	2	4	7	7	7	7	-	-	11	32
SPECIFIED RENTER OCCUPIED[3]	7 854	646	573	494	448	278	458	222	228	45	28	4 435	19
HOUSE HEATING FUEL													
GAS	4 214	446	475	425	400	254	420	208	208	42	28	1 308	21
UTILITY GAS	3 792	399	426	383	348	208	373	177	166	35	23	1 254	21
BOTTLED, TANK, OR LP GAS	423	46	49	42	52	46	47	31	43	7	6	54	24
OTHER THAN GAS	3 501	182	91	60	45	20	31	13	18	3	-	3 038	12
FUEL OIL	803	87	49	27	11	15	14	7	2	1	-	591	12
KEROSENE, ETC	90	10	3	5	4	2	1	-	2	-	-	64	...
ELECTRICITY	2 400	70	21	16	25	2	11	2	11	2	-	2 239	12
COAL OR COKE	48	1	5	4	-	-	2	-	-	-	-	36	...
WOOD	157	15	14	9	4	2	3	3	2	1	-	105	13
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	2	-	-	-	-	-	-	-	-	-	-	2	-
NONE	139	18	6	8	3	4	7	2	2	-	-	89	15

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]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: 1979--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													
WATER HEATING FUEL[3]													
GAS	3 895	421	418	385	339	205	357	154	178	31	18	1 390	20
UTILITY GAS	3 639	389	395	357	309	184	323	145	158	28	15	1 337	20
BOTTLED, TANK, OR LP GAS	257	32	24	28	30	21	35	9	20	3	2	53	22
OTHER FUEL	3 682	195	120	95	84	63	85	55	45	12	11	2 917	18
NONE	19	-	-	-	2	-	1	1	-	-	-	16	...
COOKING FUEL													
GAS	3 884	534	469	386	342	185	331	153	151	32	15	1 285	18
UTILITY GAS	3 367	425	392	314	287	155	282	129	119	25	14	1 225	18
BOTTLED, TANK, OR LP GAS	518	109	78	72	56	30	49	24	32	7	2	60	17
OTHER FUEL	3 947	110	100	107	105	93	127	68	76	14	13	3 133	23
NONE	23	2	3	1	1	-	-	-	-	-	-	17	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 613	282	325	293	261	144	257	121	116	23	12	779	20
ALL OTHER FUEL COMBINATIONS OR NONE	5 241	364	248	201	187	134	201	101	112	23	17	3 655	19
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 330	173	157	129	140	77	142	72	93	18	11	2 318	21
HEAT PUMP	137	12	-	-	1	-	-	-	-	-	-	124	...
STEAM OR HOT WATER	557	63	23	19	4	13	10	11	15	5	-	395	13
BUILT-IN ELECTRIC UNITS	689	33	7	7	3	2	3	-	1	-	-	633	10-
FLOOR, WALL, OR PIPELESS FURNACE	746	86	108	73	83	41	95	33	24	7	2	194	20
ROOM HEATERS WITH FLUE	729	61	62	70	66	42	59	34	38	5	7	285	22
ROOM HEATERS WITHOUT FLUE	1 119	147	171	160	138	93	128	64	50	9	9	151	20
FIREPLACES, STOVES, OR PORTABLE HEATERS	408	52	38	28	9	7	13	6	5	2	-	246	13
NONE	139	18	6	8	3	4	7	2	2	-	-	89	15
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	139	18	6	8	3	4	7	2	2	-	-	89	15
WITH HEATING EQUIPMENT	7 715	627	566	485	445	274	451	220	226	45	28	4 346	20
NO THERMOSTAT CONTROL	2 797	348	283	266	215	143	191	98	81	17	15	1 142	18
WITH THERMOSTAT CONTROL	4 889	280	270	216	230	128	260	121	145	29	13	3 197	21
NOT CLOCK OPERATED	4 052	236	221	185	189	96	225	102	121	19	9	2 648	21
CONSTANT TEMPERATURE SETTING MAINTAINED	1 603	108	87	72	72	33	87	31	47	9	4	1 054	20
TEMPERATURE SETTING IS CHANGED	2 346	121	127	109	112	62	137	71	70	10	4	1 523	22
OCCASIONALLY	831	47	37	32	33	12	54	28	26	1	1	559	22
REGULARLY	1 440	70	82	75	76	45	78	40	41	9	3	919	22
DON'T KNOW	69	4	7	2	2	4	5	2	2	-	-	40	...
NOT REPORTED	6	-	-	-	1	1	-	-	-	-	-	5	...
NOT REPORTED	103	7	8	4	5	2	2	1	4	-	-	71	...
CLOCK OPERATED	831	43	49	30	41	32	34	19	24	10	5	544	22
NOT REPORTED	5	-	-	1	-	-	-	-	-	-	-	4	...
NOT REPORTED	30	-	14	3	-	3	-	2	-	-	-	8	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	548	71	45	36	13	11	21	8	7	2	-	335	13
WITH SELECTED HEATING EQUIPMENT[4]	7 307	575	528	457	435	267	437	214	221	44	28	4 099	20
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 010	556	493	428	416	255	404	201	210	41	27	3 979	20
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	228	16	27	21	17	9	29	8	10	3	2	86	22
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	33	2	3	3	-	-	6	1	4	-	-	15	...
FIREPLACE, BURNING WOOD OR COAL	4	-	-	-	1	-	-	-	-	-	2	1	...
PORTABLE ELECTRIC HEATER	140	11	14	15	9	6	14	6	5	3	-	58	21
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	40	3	8	3	7	3	8	1	2	-	-	6	...
OTHER	13	-	2	2	1	-	2	1	-	-	-	6	...
NOT REPORTED	1	-	-	-	-	-	-	1	-	-	-	1	...
NOT REPORTED	68	3	8	8	2	3	4	5	1	-	-	35	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	258	29	34	14	24	10	15	11	5	3	-	112	18
WITH HOT PIPED WATER	7 597	617	538	479	424	268	443	211	223	42	28	4 323	20
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 307	592	526	461	405	263	430	191	212	40	26	4 162	19
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	36	5	2	2	-	2	3	3	2	-	-	17	...
NOT REPORTED	233	20	11	17	18	3	9	15	8	2	3	126	21
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	5 199	366	304	253	246	155	267	101	122	20	18	3 347	20
ROOM UNITS	2 421	289	219	187	170	115	205	80	75	15	15	1 052	19
1	1 783	191	153	137	127	76	152	56	42	3	10	835	19
2	516	86	60	43	32	32	43	20	26	11	3	161	18
3	95	8	5	6	8	7	9	2	3	1	2	44	23
4	19	3	2	1	2	-	-	2	2	-	-	7	...
5 OR MORE	9	-	-	-	-	-	2	-	2	-	-	5	...
CENTRAL SYSTEM	2 777	77	85	66	76	40	62	21	47	5	3	2 295	21
WITH NO AIR CONDITIONING	2 656	280	269	241	202	123	190	121	106	25	10	1 088	19

[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]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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	2 566	249	182	161	113	65	104	32	38	4	9	1 609	16
2 PERSONS	2 264	195	162	129	121	73	122	54	57	11	4	1 335	18
3 PERSONS	1 311	91	108	82	83	73	80	40	35	8	4	708	21
4 PERSONS	874	66	55	55	63	39	88	42	39	7	3	419	23
5 PERSONS	469	30	36	30	30	10	39	25	37	9	6	216	24
6 PERSONS	186	8	17	12	17	10	9	15	9	3	-	86	23
7 PERSONS OR MORE	184	8	13	25	20	8	15	13	13	3	3	61	23
MEDIAN	2.1	1.9	2.1	2.2	2.4	2.5	2.5	3.1	3.0	3.4	...	1.9	...
SPECIFIED RENTER OCCUPIED[2]	7 854	646	573	494	448	278	458	222	228	45	28	4 435	19
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 545	322	398	324	345	197	353	170	170	37	28	1 201	21
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	637	47	54	28	39	34	65	23	37	9	8	292	25
SOME WINDOWS COVERED	264	15	18	16	23	12	32	15	22	5	2	105	27
NO WINDOWS COVERED	2 507	248	316	270	266	148	249	132	108	22	19	729	21
NOT REPORTED	137	12	10	10	16	2	8	1	4	1	-	74	20
STORM DOORS													
ALL DOORS COVERED	591	34	35	24	43	37	60	30	36	7	5	281	27
SOME DOORS COVERED	357	21	26	37	34	21	41	17	28	4	5	123	24
NO DOORS COVERED	2 461	255	327	254	253	137	244	122	103	24	18	724	21
NOT REPORTED	135	12	10	10	15	2	8	1	4	1	-	73	19
ATTIC OR ROOF INSULATION													
YES	1 362	99	129	115	108	60	150	54	78	10	6	553	22
NO	1 231	123	152	129	129	85	113	83	60	20	14	324	22
DON'T KNOW	803	86	105	70	92	46	80	33	29	6	9	249	21
NOT REPORTED	149	14	12	11	16	6	10	1	4	1	-	75	20

[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: 1979

(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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	13 990	559	413	334	378	282	229	178	95	156	11 366	301
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	2 060	126	239	257	321	260	209	154	87	146	262	386
FUEL OIL	1 649	97	178	203	273	239	197	145	83	140	94	411
COAL OR COKE	53	3	8	17	12	4	2	2	2	2	3	280
KEROSENE, ETC	119	12	20	24	26	12	7	8	2	2	7	302
WOOD	239	14	33	13	10	5	3	-	-	2	158	178
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	11 869	433	175	77	56	22	20	23	8	10	11 044	100-
UTILITY GAS	7 334	275	86	40	31	12	14	9	6	9	6 851	100-
BOTTLED, TANK, OR LP GAS	907	31	24	12	9	2	2	3	-	-	824	145
ELECTRICITY	3 625	127	65	24	16	7	4	11	2	1	3 366	103
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	4	-	-	1	-	-	-	-	-	-	3	...
NONE	60	-	-	-	1	-	-	-	-	-	60	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	7 504	327	166	172	217	161	136	85	44	82	6 115	314
HEAT PUMP	621	35	9	4	3	2	2	3	-	-	564	100-
STEAM OR HOT WATER	450	16	9	4	18	52	38	53	38	58	163	611
BUILT-IN ELECTRIC UNITS	1 097	27	21	6	7	4	2	3	2	-	1 026	142
FLOOR, WALL, OR PIPELESS FURNACE	1 297	30	42	30	27	22	14	3	4	7	1 118	260
ROOM HEATERS WITH FLUE	963	52	79	66	81	31	33	28	5	5	581	288
ROOM HEATERS WITHOUT FLUE	1 317	30	25	9	1	1	-	-	-	1	1 250	114
FIREPLACES, STOVES, OR PORTABLE HEATERS	681	43	63	43	23	8	5	2	1	4	488	184
NONE	60	-	-	-	1	-	-	-	-	-	60	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	60	-	-	-	1	-	-	-	-	-	60	...
WITH HEATING EQUIPMENT	13 930	559	413	334	377	282	229	178	95	156	11 306	301
NO THERMOSTAT CONTROL	2 785	105	145	93	79	34	27	24	7	6	2 265	211
WITH THERMOSTAT CONTROL	11 102	452	268	241	298	248	200	152	88	150	9 005	329
NOT CLOCK OPERATED	9 191	365	229	215	260	205	161	128	74	130	7 423	328
CONSTANT TEMPERATURE SETTING MAINTAINED	3 410	122	88	73	83	77	52	37	29	41	2 808	321
TEMPERATURE SETTING IS CHANGED	5 722	240	137	141	174	129	107	91	46	89	4 569	334
OCCASIONALLY	1 811	72	44	47	42	31	40	24	10	24	1 477	310
REGULARLY	3 826	167	94	92	128	98	67	66	33	65	3 016	340
DON'T KNOW	71	1	-	2	4	-	-	-	3	-	62	...
NOT REPORTED	14	-	-	-	-	-	-	1	-	-	13	...
NOT REPORTED	59	4	3	2	2	-	2	-	-	-	46	...
CLOCK OPERATED	1 906	86	39	26	38	43	39	24	13	20	1 577	333
NOT REPORTED	5	-	-	-	-	-	-	-	-	-	5	-
NOT REPORTED	43	3	-	-	-	-	2	2	-	-	37	...
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	125	167	119	106	41	38	30	7	10	2 380	224
WITH SELECTED HEATING EQUIPMENT[2]	10 969	434	247	216	272	241	191	148	88	146	8 986	335
LESS THAN 4 YEARS	2 539	106	52	35	33	29	37	27	6	33	2 179	260
4 TO 9 YEARS	3 314	120	75	54	74	39	33	25	15	28	2 851	267
10 TO 19 YEARS	3 263	144	83	87	102	99	69	51	34	29	2 566	334
20 TO 39 YEARS	1 279	48	29	24	49	55	37	31	23	42	941	434
40 YEARS OR MORE	64	4	2	2	3	3	7	4	2	8	30	...
DON'T KNOW	445	9	5	12	10	14	8	7	9	7	364	430
NOT REPORTED	65	3	1	2	-	2	2	2	-	-	54	...
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	125	167	119	106	41	38	30	7	10	2 380	224
WITH SELECTED HEATING EQUIPMENT[2]	10 969	434	247	216	272	241	191	148	88	146	8 986	335
NO MAINTENANCE OR MODIFICATION	8 951	329	183	171	195	169	125	84	61	80	7 553	308
WITH MAINTENANCE OR MODIFICATION	1 935	100	63	43	76	70	65	61	27	65	1 365	405
NOT REPORTED	84	6	1	2	-	2	2	2	-	2	68	...
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	3 021	125	167	119	106	41	38	30	7	10	2 380	224
WITH SELECTED HEATING EQUIPMENT[2]	10 969	434	247	216	272	241	191	148	88	146	8 986	335
NO MAINTENANCE CONTRACT	9 663	381	227	184	216	173	132	95	50	70	8 135	284
WITH MAINTENANCE CONTRACT	1 222	47	18	29	56	67	57	50	38	77	784	503
NOT REPORTED	84	6	2	2	-	2	3	3	-	-	67	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	181	20	17	14	13	4	2	4	1	-	105	207
WITH HOT PIPED WATER	13 809	539	396	320	365	278	227	174	94	156	11 261	305
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 362	525	379	305	353	269	215	170	94	148	10 905	305
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	78	2	3	-	4	-	-	-	-	5	63	...
NOT REPORTED	352	10	10	15	7	10	12	4	-	2	282	302
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
WITH AIR CONDITIONING	10 975	440	275	207	225	175	153	113	65	102	9 221	277
ROOM UNITS	4 812	130	139	118	138	112	97	71	44	65	3 899	351
1	2 573	62	82	79	88	53	48	40	21	24	2 074	329
2	1 585	41	40	31	36	27	41	23	14	23	1 309	371
3	480	16	11	6	14	25	8	7	5	10	378	417
4	126	6	5	-	-	7	-	-	-	3	106	...
5 OR MORE	48	5	-	2	-	-	-	1	3	6	31	...
CENTRAL SYSTEM	6 163	310	136	90	87	63	56	42	21	36	5 322	180
WITH NO AIR CONDITIONING	3 015	119	138	127	153	107	76	65	30	54	2 145	333

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
PERSONS												
1 PERSON	2 113	81	70	56	66	47	39	19	17	27	1 690	306
2 PERSONS	4 303	162	148	101	126	100	86	61	24	51	3 443	315
3 PERSONS	2 748	123	86	62	84	55	47	27	20	27	2 218	290
4 PERSONS	2 641	99	59	74	51	49	36	40	21	21	2 190	289
5 PERSONS	1 294	62	28	19	24	13	9	23	3	14	1 100	240
6 PERSONS	544	23	11	12	17	12	5	7	6	10	441	329
7 PERSONS OR MORE	348	9	12	10	9	6	7	1	4	7	283	326
MEDIAN	2.7	2.8	2.4	2.7	2.5	2.4	2.4	2.8	2.8	2.5	2.7	...
SPECIFIED OWNER OCCUPIED[1]	13 990	559	413	334	378	282	229	178	95	156	11 366	301
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	13 990	559	413	334	378	282	229	178	95	156	11 366	301
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	4 793	177	109	131	163	162	133	101	60	93	3 665	389
SOME WINDOWS COVERED	1 417	71	43	39	53	41	50	34	15	26	1 046	363
NO WINDOWS COVERED	7 742	311	260	165	162	79	45	43	20	35	6 622	195
NOT REPORTED	39	-	2	-	-	-	2	-	-	2	34	...
STORM DOORS												
ALL DOORS COVERED	4 702	167	106	135	178	154	133	101	62	86	3 581	385
SOME DOORS COVERED	2 592	95	58	68	88	61	48	40	18	35	2 082	339
NO DOORS COVERED	6 655	297	246	132	112	67	47	36	15	33	5 669	179
NOT REPORTED	41	-	2	-	-	-	2	-	-	2	35	...
ATTIC OR ROOF INSULATION												
YES	11 306	466	318	258	283	229	177	152	81	130	9 213	302
NO	2 219	77	83	71	86	41	44	24	10	21	1 760	296
DON'T KNOW	415	14	11	5	9	12	6	2	3	4	350	332
NOT REPORTED	50	2	2	1	-	-	2	-	-	2	43	...
SPECIFIED RENTER OCCUPIED[2]	7 854	132	126	129	135	57	60	59	19	41	7 097	293
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	1 098	47	80	101	116	50	56	55	19	40	533	346
FUEL OIL	803	18	42	57	81	41	48	40	17	34	426	388
COAL OR COKE	48	3	8	13	3	1	2	3	2	2	11	257
KEROSENE, ETC	90	7	12	13	23	4	3	11	1	2	14	329
WOOD	157	20	18	18	9	5	3	1	-	1	83	194
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	6 617	85	46	26	19	6	3	4	-	1	6 426	123
UTILITY GAS	3 792	57	24	15	11	6	3	3	-	1	3 672	113
BOTTLED, TANK, OR LP GAS	423	5	12	7	3	-	-	1	-	-	394	...
ELECTRICITY	2 400	22	10	5	5	-	-	-	-	1	2 358	100-
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	2	1	-	-	-	-	-	-	-	-	2	...
NONE	139	-	-	1	-	-	-	-	-	-	138	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 330	25	35	30	40	17	17	16	9	9	3 132	322
HEAT PUMP	137	5	2	-	-	-	-	-	-	-	130	...
STEAM OR HOT WATER	557	2	4	2	7	10	11	11	8	16	485	596
BUILT-IN ELECTRIC UNITS	689	8	4	1	1	-	-	-	-	1	675	...
FLOOR, WALL, OR PIPELESS FURNACE	746	9	8	9	15	6	4	6	1	-	688	321
ROOM HEATERS WITH FLUE	729	26	33	43	52	15	21	23	2	14	500	324
ROOM HEATERS WITHOUT FLUE	1 119	23	6	10	3	2	-	1	-	-	1 075	100-
FIREPLACES, STOVES, OR PORTABLE HEATERS	408	35	33	34	17	6	6	2	-	2	273	195
NONE	139	-	-	1	-	-	-	-	-	-	138	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	139	-	-	1	-	-	-	-	-	-	138	...
WITH HEATING EQUIPMENT	7 715	132	126	127	135	57	60	59	19	41	6 959	293
NO THERMOSTAT CONTROL	2 797	85	69	76	63	23	23	23	1	15	2 418	245
WITH THERMOSTAT CONTROL	4 889	47	56	51	70	33	36	36	18	26	4 514	347
NOT CLOCK OPERATED	4 052	37	50	44	61	23	30	33	16	23	3 735	345
CONSTANT TEMPERATURE SETTING MAINTAINED	1 603	11	12	19	28	18	10	17	11	11	1 466	396
TEMPERATURE SETTING IS CHANGED	2 346	25	38	26	32	5	20	16	4	12	2 168	299
OCCASIONALLY	831	11	13	10	7	2	5	6	1	1	776	237
REGULARLY	1 440	15	23	16	23	2	14	10	4	10	1 326	318
DON'T KNOW	69	-	2	-	3	2	2	-	-	1	60	...
NOT REPORTED	6	-	-	-	-	-	-	-	-	-	6	-
NOT REPORTED	103	-	-	-	1	-	-	-	-	-	101	...
CLOCK OPERATED	831	10	6	6	9	10	7	3	2	3	774	366
NOT REPORTED	5	-	-	-	-	-	-	-	-	-	5	-
NOT REPORTED	30	-	-	1	2	-	-	-	-	-	27	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	258	28	27	30	13	6	2	2	-	2	148	198
WITH HOT PIPED WATER	7 597	104	99	99	123	50	58	57	19	39	6 949	318
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 307	95	94	95	119	49	55	55	19	38	6 688	321
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	36	-	-	-	2	-	-	2	-	1	33	...
NOT REPORTED	233	8	5	4	2	1	3	1	-	-	209	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-

[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.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	5 199	50	42	37	50	19	31	32	5	25	4 907	333
ROOM UNITS	2 421	36	35	33	45	18	28	26	4	22	2 174	342
1	1 783	24	27	28	30	17	19	16	4	16	1 600	337
2	516	10	6	5	12	1	6	8	1	4	463	336
3	95	2	2	-	2	-	-	2	-	3	86	...
4	19	-	-	-	-	-	3	-	-	-	16	...
5 OR MORE	9	-	-	-	-	-	-	-	-	-	9	-
CENTRAL SYSTEM	2 777	14	6	4	5	2	3	6	1	3	2 733	243
WITH NO AIR CONDITIONING	2 656	82	84	92	85	37	29	27	14	16	2 190	272
PERSONS												
1 PERSON	2 566	43	36	29	27	5	10	5	2	2	2 408	201
2 PERSONS	2 264	29	28	35	34	20	18	16	9	12	2 063	325
3 PERSONS	1 311	22	27	28	31	10	11	10	4	14	1 155	303
4 PERSONS	874	20	11	18	21	13	9	14	2	6	758	337
5 PERSONS	469	10	14	6	6	2	4	8	-	3	415	244
6 PERSONS	186	3	7	5	10	2	3	3	2	2	149	343
7 PERSONS OR MORE	184	5	2	8	5	4	4	4	-	2	150	...
MEDIAN	2.1	2.3	2.5	2.5	2.7	2.8	2.6	3.4	...	3.0	2.0	...
SPECIFIED RENTER OCCUPIED[1]	7 854	132	126	129	135	57	60	59	19	41	7 097	293
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 545	108	115	111	112	52	50	54	17	39	2 887	294
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	637	17	24	17	26	18	14	9	5	20	485	365
SOME WINDOWS COVERED	264	5	9	9	14	12	8	9	2	9	186	405
NO WINDOWS COVERED	2 507	83	77	85	71	22	26	35	10	10	2 087	258
NOT REPORTED	137	4	3	-	-	-	2	-	-	-	128	...
STORM DOORS												
ALL DOORS COVERED	591	9	17	18	26	15	21	17	5	19	444	427
SOME DOORS COVERED	357	8	10	17	15	10	6	11	-	9	270	352
NO DOORS COVERED	2 461	88	84	77	71	27	21	25	12	12	2 045	246
NOT REPORTED	135	4	3	-	-	-	2	-	-	-	127	...
ATTIC OR ROOF INSULATION												
YES	1 362	24	54	32	42	21	18	30	4	13	1 123	321
NO	1 231	56	41	58	43	20	19	14	9	16	954	270
DON'T KNOW	803	24	16	22	24	11	11	9	3	10	671	316
NOT REPORTED	149	4	3	-	2	-	2	-	-	-	139	...

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

TABLE D-11. HOUSEHOLD HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1979

(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	HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE OR MOTOR-CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME OR NOT REPORTED
HOUSING UNITS WITH EMPLOYED HEADS[1]	17 464	12 351	3 437	508	141	23	526	82	395
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	11 801	8 742	2 242	193	74	5	182	62	301
LESS THAN 1 MILE	724	496	66	3	7	-	145	7	2
1 TO 4 MILES	2 426	2 053	271	31	30	2	29	10	1
5 TO 9 MILES	2 276	1 818	382	52	15	-	-	6	3
10 TO 19 MILES	2 585	1 932	581	47	14	-	-	5	7
20 TO 29 MILES	965	622	314	18	6	-	-	5	-
30 TO 49 MILES	681	387	276	10	1	-	-	5	2
50 MILES OR MORE	199	103	93	1	-	-	-	2	1
WORKS AT HOME	265	-	-	-	-	-	-	-	265
NO FIXED PLACE OF WORK	1 506	1 227	236	16	1	4	7	14	2
NOT REPORTED	173	102	24	16	2	-	1	9	20
MEDIAN	8.9	8.2	14.7	9.5	4.9	...	1.0-	7.0	...
RENTER OCCUPIED	5 663	3 609	1 194	315	68	18	344	20	94
LESS THAN 1 MILE	599	259	51	3	11	4	266	2	3
1 TO 4 MILES	1 492	1 012	280	95	24	8	63	6	4
5 TO 9 MILES	1 204	853	235	94	17	2	2	2	-
10 TO 19 MILES	1 040	706	263	60	8	-	-	1	2
20 TO 29 MILES	295	195	90	8	2	-	-	1	-
30 TO 49 MILES	170	97	68	5	-	-	-	-	-
50 MILES OR MORE	58	29	24	2	1	-	-	2	-
WORKS AT HOME	77	-	-	-	-	-	-	-	77
NO FIXED PLACE OF WORK	579	381	152	23	5	5	8	4	-
NOT REPORTED	150	77	31	25	-	-	5	3	9
MEDIAN	6.4	6.8	8.7	6.9	4.4	...	1.0-	...	...
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	11 801	8 742	2 242	193	74	5	182	62	301
LESS THAN 15 MINUTES	3 385	2 829	352	13	34	-	143	12	3
15 TO 29 MINUTES	3 736	2 932	705	33	28	2	21	13	2
30 TO 44 MINUTES	1 646	1 105	481	36	11	-	5	1	7
45 TO 59 MINUTES	610	341	220	45	-	-	-	2	2
1 HOUR TO 1 HOUR AND 29 MINUTES	443	192	200	42	-	-	-	9	-
1 HOUR AND 30 MINUTES OR MORE	105	58	39	6	1	-	-	1	1
WORKS AT HOME	265	-	-	-	-	-	-	-	265
NO FIXED PLACE OF WORK	1 506	1 227	236	16	1	4	7	14	2
NOT REPORTED	106	58	10	2	-	-	5	10	20
MEDIAN	21.3	19.6	28.7	46.8	16.4	...	15.0-	23.3	...
RENTER OCCUPIED	5 663	3 609	1 194	315	68	18	344	20	94
LESS THAN 15 MINUTES	1 954	1 361	273	23	30	11	240	11	4
15 TO 29 MINUTES	1 844	1 254	427	79	21	2	59	-	2
30 TO 44 MINUTES	751	429	219	73	6	-	23	1	-
45 TO 59 MINUTES	206	103	56	41	3	-	3	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	142	40	37	60	2	-	2	2	-
1 HOUR AND 30 MINUTES OR MORE	65	22	24	17	1	-	-	-	2
WORKS AT HOME	77	-	-	-	-	-	-	-	77
NO FIXED PLACE OF WORK	579	381	152	23	5	5	8	4	-
NOT REPORTED	46	19	6	-	-	-	9	3	9
MEDIAN	19.2	17.9	23.5	39.1	15.8	...	15.0-	...	...

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

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979

(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	15 299	12 122	5 122	7 000	3 178
HOUSE HEATING FUEL					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
UTILITY GAS	6 426	5 490	2 143	3 347	936
BOTTLED, TANK, OR LP GAS	311	131	10	121	180
FUEL OIL	505	320	138	182	185
KEROSENE, ETC	1	-	-	-	1
ELECTRICITY	1 665	977	296	681	688
COAL OR COKE	12	2	-	2	10
WOOD	168	50	13	38	118
SOLAR HEAT	2	2	-	2	-
OTHER FUEL	1	-	-	-	1
NONE	162	154	63	91	8
RENTER OCCUPIED	6 047	4 995	2 459	2 536	1 051
UTILITY GAS	3 856	3 376	1 668	1 709	480
BOTTLED, TANK, OR LP GAS	137	47	5	42	90
FUEL OIL	231	154	104	51	76
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	1 532	1 190	565	624	342
COAL OR COKE	7	-	-	-	7
WOOD	77	39	13	26	38
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	30	27	24	3	2
NONE	178	162	80	81	16
WATER HEATING FUEL					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
NO HOT PIPED WATER	16	1	-	1	15
WITH HOT PIPED WATER	9 237	7 126	2 663	4 463	2 111
FUEL USED:					
UTILITY GAS	6 158	5 384	2 146	3 239	774
BOTTLED, TANK, OR LP GAS	287	121	12	109	166
FUEL OIL	16	8	3	4	8
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	2 750	1 598	502	1 096	1 152
COAL OR COKE	2	2	-	2	-
WOOD	3	1	-	1	2
SOLAR HEAT	17	10	-	10	7
OTHER FUEL	3	2	-	2	2
NONE	-	-	-	-	-
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	6 047	4 995	2 459	2 536	1 051
NO HOT PIPED WATER	24	8	2	6	16
WITH HOT PIPED WATER	6 023	4 987	2 458	2 530	1 035
FUEL USED:					
UTILITY GAS	3 991	3 564	1 786	1 778	427
BOTTLED, TANK, OR LP GAS	110	42	2	40	69
FUEL OIL	28	22	20	2	6
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	1 843	1 317	628	689	526
COAL OR COKE	3	-	-	-	3
WOOD	1	1	-	1	-
SOLAR HEAT	1	-	-	-	1
OTHER FUEL	38	36	20	16	2
NONE	7	5	2	4	2
NOT REPORTED	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
UTILITY GAS	3 409	3 025	1 188	1 838	384
BOTTLED, TANK, OR LP GAS	289	109	7	102	180
FUEL OIL	3	2	2	1	1
KEROSENE, ETC	2	2	-	2	-
ELECTRICITY	5 531	3 983	1 467	2 516	1 548
COAL OR COKE	2	-	-	-	2
WOOD	14	3	-	3	11
OTHER FUEL	3	2	-	2	2
NONE	-	-	-	-	-
RENTER OCCUPIED	6 047	4 995	2 459	2 536	1 051
UTILITY GAS	2 849	2 572	1 372	1 200	277
BOTTLED, TANK, OR LP GAS	115	45	-	45	70
FUEL OIL	1	-	-	-	1
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	3 009	2 319	1 049	1 270	690
COAL OR COKE	2	2	2	-	1
WOOD	10	1	-	1	9
OTHER FUEL	5	5	2	3	-
NONE	56	52	35	17	4

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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]	7 559	6 012	2 350	3 662	1 547
LESS THAN $10	259	215	102	113	44
$10 TO $19	1 777	1 450	576	874	327
$20 TO $29	2 025	1 636	647	989	389
$30 TO $39	1 446	1 127	410	717	320
$40 TO $49	684	568	209	359	117
$50 TO $59	528	393	143	249	135
$60 TO $79	464	353	145	208	111
$80 TO $99	156	107	45	62	48
$100 TO $149	164	124	60	64	40
$150 OR MORE	50	37	14	24	13
NO ELECTRICITY USED	6	2	-	2	4
MEDIAN	28	27	27	28	30
SPECIFIED RENTER OCCUPIED[2]	5 967	4 968	2 458	2 510	999
LESS THAN $10	909	814	417	398	95
$10 TO $19	1 818	1 575	747	828	243
$20 TO $29	1 076	890	409	481	185
$30 TO $39	484	366	152	214	119
$40 TO $49	208	158	76	81	50
$50 TO $59	107	78	37	41	29
$60 TO $79	93	71	26	45	22
$80 TO $99	30	17	6	10	13
$100 TO $149	37	27	13	14	10
$150 OR MORE	16	11	6	5	5
INCLUDED IN RENT	1 168	946	559	387	222
NO ELECTRICITY USED	21	15	8	7	7
MEDIAN	17	17	16	17	22
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	7 559	6 012	2 350	3 662	1 547
LESS THAN $10	610	539	201	338	70
$10 TO $14	1 159	1 032	418	615	126
$15 TO $19	1 088	957	334	623	131
$20 TO $24	895	769	322	447	126
$25 TO $29	671	558	237	321	113
$30 TO $39	845	657	273	384	188
$40 TO $49	396	290	122	168	107
$50 TO $69	327	255	112	143	72
$70 TO $99	66	46	23	23	20
$100 OR MORE	30	24	10	13	6
NO GAS USED	1 473	885	298	587	588
MEDIAN	21	20	21	19	26
SPECIFIED RENTER OCCUPIED[2]	5 967	4 968	2 458	2 510	999
LESS THAN $10	1 323	1 220	595	624	103
$10 TO $14	745	667	339	329	77
$15 TO $19	420	361	159	202	60
$20 TO $24	314	252	134	118	62
$25 TO $29	121	106	39	67	15
$30 TO $39	168	115	65	50	53
$40 TO $49	59	42	21	20	17
$50 TO $69	31	16	5	11	15
$70 TO $99	11	7	4	3	5
$100 OR MORE	21	5	2	3	16
INCLUDED IN RENT	1 268	1 043	541	501	225
NO GAS USED	1 487	1 137	554	582	350
MEDIAN	12	11	11	11	17
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	7 559	6 012	2 350	3 662	1 547
LESS THAN $100	272	181	77	104	91
$100 TO $199	167	127	54	74	40
$200 TO $299	117	72	29	43	44
$300 TO $399	116	73	30	44	42
$400 TO $499	80	52	31	21	28
$500 TO $599	63	48	22	26	15
$600 TO $699	57	41	18	24	15
$700 TO $799	22	18	5	13	5
$800 OR MORE	44	39	16	23	6
FUELS NOT USED OR FREE	6 621	5 359	2 069	3 291	1 262
MEDIAN	225	224	235	217	226

[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: 1979--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.--CONTINUED					
SPECIFIED RENTER OCCUPIED[1]	5 967	4 968	2 458	2 510	999
LESS THAN $100	77	55	32	23	22
$100 TO $199	44	19	6	13	24
$200 TO $299	20	8	2	6	12
$300 TO $399	24	14	7	8	9
$400 TO $499	21	13	3	10	9
$500 TO $599	16	12	6	5	4
$600 TO $699	1	1	-	1	1
$700 TO $799	-	-	-	-	-
$800 OR MORE	19	10	2	8	9
INCLUDED IN RENT	243	189	90	99	55
FUELS NOT USED OR FREE	5 503	4 648	2 310	2 339	855
MEDIAN	177	154	100-	220	195
ALL OCCUPIED HOUSING UNITS	15 299	12 122	5 122	7 000	3 178
HEATING EQUIPMENT					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
WARM-AIR FURNACE	5 883	4 785	1 796	2 990	1 097
HEAT PUMP	190	132	46	86	58
STEAM OR HOT WATER	232	124	59	65	108
BUILT-IN ELECTRIC UNITS	731	389	114	275	342
FLOOR, WALL, OR PIPELESS FURNACE	1 417	1 258	499	759	159
ROOM HEATERS WITH FLUE	287	143	48	95	144
ROOM HEATERS WITHOUT FLUE	52	32	11	21	20
FIREPLACES, STOVES, OR PORTABLE HEATERS	299	109	27	81	190
NONE	162	154	63	91	8
RENTER OCCUPIED	6 047	4 995	2 459	2 536	1 051
WARM-AIR FURNACE	1 794	1 470	685	786	324
HEAT PUMP	25	21	10	11	4
STEAM OR HOT WATER	364	292	239	53	72
BUILT-IN ELECTRIC UNITS	1 118	876	414	462	242
FLOOR, WALL, OR PIPELESS FURNACE	1 903	1 737	796	940	166
ROOM HEATERS WITH FLUE	418	299	168	131	119
ROOM HEATERS WITHOUT FLUE	79	44	36	8	35
FIREPLACES, STOVES, OR PORTABLE HEATERS	169	94	30	64	74
NONE	178	162	80	81	16
THERMOSTAT CONTROLLED HEATING EQUIPMENT					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
NO HEATING EQUIPMENT	162	154	63	91	8
WITH HEATING EQUIPMENT	9 091	6 973	2 600	4 373	2 118
NO THERMOSTAT CONTROL	903	581	200	381	322
WITH THERMOSTAT CONTROL	8 163	6 375	2 397	3 978	1 788
NOT CLOCK OPERATED	7 068	5 459	1 981	3 478	1 609
CONSTANT TEMPERATURE SETTING MAINTAINED	2 168	1 692	661	1 032	476
TEMPERATURE SETTING IS CHANGED	4 845	3 724	1 304	2 421	1 121
OCCASIONALLY	932	747	300	448	184
REGULARLY	3 871	2 946	987	1 960	925
DON'T KNOW	39	30	17	13	10
NOT REPORTED	2	1	-	1	2
NOT REPORTED	55	43	16	26	13
CLOCK OPERATED	1 093	914	416	498	180
NOT REPORTED	2	2	-	2	-
NOT REPORTED	25	18	3	14	8
RENTER OCCUPIED	6 047	4 995	2 459	2 536	1 051
NO HEATING EQUIPMENT	178	162	80	81	16
WITH HEATING EQUIPMENT	5 869	4 833	2 379	2 455	1 035
NO THERMOSTAT CONTROL	1 788	1 447	795	652	341
WITH THERMOSTAT CONTROL	4 069	3 377	1 577	1 800	691
NOT CLOCK OPERATED	3 615	2 970	1 366	1 604	645
CONSTANT TEMPERATURE SETTING MAINTAINED	1 292	1 064	460	604	228
TEMPERATURE SETTING IS CHANGED	2 233	1 828	868	960	405
OCCASIONALLY	632	537	246	291	95
REGULARLY	1 533	1 232	594	638	301
DON'T KNOW	65	57	27	30	8
NOT REPORTED	2	2	-	2	-
NOT REPORTED	90	78	38	40	12
CLOCK OPERATED	443	398	203	194	46
NOT REPORTED	10	10	8	2	1
NOT REPORTED	12	9	6	2	3

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

TABLE E-1. FUEL, FUEL COST, HEATING, AIR-CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	15 299	12 122	5 122	7 000	3 178
UNITS OCCUPIED LAST WINTER	12 198	9 691	4 097	5 593	2 508
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	8 328	6 430	2 426	4 004	1 898
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	6 157	2 331	3 826	1 693
NO ADDITIONAL HEAT SOURCE USED	7 233	5 703	2 153	3 550	1 530
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	398	164	234	139
NOT REPORTED	80	56	14	42	24
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	273	96	178	205
RENTER OCCUPIED	3 870	3 260	1 671	1 590	610
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	3 047	1 561	1 486	531
NO ADDITIONAL HEAT SOURCE USED	3 099	2 661	1 378	1 284	437
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	393	316	160	157	76
NOT REPORTED	87	70	24	46	17
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	213	110	103	79
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	8 328	6 430	2 426	4 004	1 898
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	6 157	2 331	3 826	1 693
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	5 820	4 556	1 686	2 870	1 265
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 967	1 558	632	926	409
1 ROOM	502	375	169	205	127
2 ROOMS	578	455	187	268	123
3 ROOMS OR MORE	887	729	276	453	159
NOT REPORTED	63	43	12	31	20
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	273	96	178	205
RENTER OCCUPIED	3 870	3 260	1 671	1 590	610
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	3 047	1 561	1 486	531
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 072	1 755	959	796	317
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 421	1 225	578	647	196
1 ROOM	523	463	229	234	60
2 ROOMS	565	486	208	278	79
3 ROOMS OR MORE	333	276	141	135	56
NOT REPORTED	85	67	24	43	18
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	213	110	103	79
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	8 328	6 430	2 426	4 004	1 898
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	6 157	2 331	3 826	1 693
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	273	96	178	205
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	404	236	78	158	168
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	52	25	9	16	27
NOT REPORTED	22	12	9	3	9
RENTER OCCUPIED	3 870	3 260	1 671	1 590	610
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	3 047	1 561	1 486	531
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	213	110	103	79
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	254	186	93	93	67
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	26	19	10	9	7
NOT REPORTED	12	7	7	1	5

[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: 1979--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	15 299	12 122	5 122	7 000	3 178
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	460	262	90	172	198
WITH SELECTED HEATING EQUIPMENT[1]	8 793	6 864	2 573	4 291	1 929
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 382	6 602	2 463	4 139	1 780
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	232	103	129	134
SOLAR HEATING EQUIPMENT	7	7	2	5	1
STOVE, BURNING WOOD OR COAL	111	56	13	43	55
FIREPLACE, BURNING WOOD OR COAL	60	29	12	16	31
PORTABLE ELECTRIC HEATER	91	74	45	29	17
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	8	4	4	2
OTHER	82	56	26	30	27
NOT REPORTED	6	5	2	3	1
NOT REPORTED	45	31	7	24	14
RENTER OCCUPIED	6 047	4 995	2 459	2 536	1 051
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	346	256	111	145	91
WITH SELECTED HEATING EQUIPMENT[1]	5 700	4 739	2 348	2 391	961
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 529	4 617	2 279	2 338	912
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	155	114	62	52	42
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	13	8	2	6	5
FIREPLACE, BURNING WOOD OR COAL	5	3	-	3	1
PORTABLE ELECTRIC HEATER	110	82	46	36	28
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	8	3	3	-	5
OTHER	18	16	8	8	2
NOT REPORTED	3	3	3	-	-
NOT REPORTED	15	8	7	2	7
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	438	149	289	362
WITH SELECTED HEATING EQUIPMENT[2]	8 453	6 689	2 514	4 175	1 764
LESS THAN 4 YEARS	1 587	1 201	400	801	386
4 TO 9 YEARS	2 224	1 614	545	1 069	610
10 TO 19 YEARS	2 319	1 889	690	1 199	430
20 TO 39 YEARS	1 708	1 463	619	844	245
40 YEARS OR MORE	195	176	107	69	19
DON'T KNOW	339	282	121	160	58
NOT REPORTED	80	65	33	32	16
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	438	149	289	362
WITH SELECTED HEATING EQUIPMENT[2]	8 453	6 689	2 514	4 175	1 764
NO MAINTENANCE OR MODIFICATION	7 119	5 652	2 077	3 574	1 467
WITH MAINTENANCE OR MODIFICATION	1 267	984	410	573	283
NOT REPORTED	68	53	26	27	14
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	438	149	289	362
WITH SELECTED HEATING EQUIPMENT[2]	8 453	6 689	2 514	4 175	1 764
NO MAINTENANCE CONTRACT	7 942	6 265	2 343	3 922	1 676
WITH MAINTENANCE CONTRACT	440	369	141	227	71
NOT REPORTED	72	55	29	26	17

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

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
NO HOT PIPED WATER	16	1	-	1	15
WITH HOT PIPED WATER	9 237	7 126	2 663	4 463	2 111
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 020	6 966	2 610	4 356	2 054
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	72	56	21	36	16
NOT REPORTED	127	93	32	61	34
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	6 047	4 995	2 459	2 536	1 051
NO HOT PIPED WATER	24	8	2	6	16
WITH HOT PIPED WATER	6 023	4 987	2 458	2 530	1 035
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 840	4 820	2 369	2 451	1 020
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	22	21	10	11	1
NOT REPORTED	153	141	77	65	12
NOT REPORTED	-	-	-	-	-
AIR CONDITIONING					
OWNER OCCUPIED	9 253	7 126	2 663	4 464	2 126
WITH AIR CONDITIONING	3 411	2 734	1 019	1 715	676
ROOM UNITS	1 207	928	337	591	279
1	953	731	259	472	222
2	215	165	67	98	50
3	26	21	11	10	5
4	8	7	-	7	2
5 OR MORE	5	3	-	3	1
CENTRAL SYSTEM	2 204	1 807	682	1 125	397
WITH NO AIR CONDITIONING	5 842	4 392	1 644	2 748	1 450
RENTER OCCUPIED	6 047	4 995	2 459	2 536	1 051
WITH AIR CONDITIONING	1 801	1 517	711	806	284
ROOM UNITS	986	846	381	465	140
1	898	777	350	427	121
2	76	59	28	31	17
3	11	9	3	5	2
4	1	1	-	1	-
5 OR MORE	-	-	-	-	-
CENTRAL SYSTEM	815	671	330	341	144
WITH NO AIR CONDITIONING	4 246	3 478	1 748	1 730	768
ALL OCCUPIED HOUSING UNITS	15 299	12 122	5 122	7 000	3 178
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 983	8 254	3 016	5 238	2 730
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	8 776	6 693	2 459	4 233	2 083
ALL WINDOWS COVERED	1 828	954	381	573	874
SOME WINDOWS COVERED	799	510	222	289	289
NO WINDOWS COVERED	6 097	5 182	1 843	3 339	915
NOT REPORTED	52	47	14	32	5
RENTER OCCUPIED	2 208	1 561	556	1 005	646
ALL WINDOWS COVERED	277	121	56	65	156
SOME WINDOWS COVERED	141	70	27	43	71
NO WINDOWS COVERED	1 669	1 258	439	819	411
NOT REPORTED	121	113	35	78	8
STORM DOORS					
OWNER OCCUPIED	8 776	6 693	2 459	4 233	2 083
ALL DOORS COVERED	1 228	649	304	345	579
SOME DOORS COVERED	862	514	208	306	348
NO DOORS COVERED	6 636	5 483	1 933	3 550	1 153
NOT REPORTED	50	47	14	32	3
RENTER OCCUPIED	2 208	1 561	556	1 005	646
ALL DOORS COVERED	160	66	29	38	93
SOME DOORS COVERED	104	53	13	41	50
NO DOORS COVERED	1 823	1 329	478	851	494
NOT REPORTED	121	113	37	76	8

[1]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: 1979--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	8 776	6 693	2 459	4 233	2 083
YES	6 933	5 111	1 796	3 315	1 822
NO	1 410	1 220	528	692	190
DON'T KNOW	379	312	119	193	67
NOT REPORTED	53	49	16	33	4
RENTER OCCUPIED	2 208	1 561	556	1 005	646
YES	865	523	159	364	342
NO	619	494	202	292	124
DON'T KNOW	604	431	160	271	173
NOT REPORTED	120	113	35	78	7
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	8 776	6 693	2 459	4 233	2 083
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	6 097	5 182	1 843	3 339	915
SOME OR ALL WINDOWS COVERED	2 627	1 464	602	862	1 163
NONE ADDED OR INSTALLED	2 104	1 153	473	680	951
SOME OR ALL ADDED OR INSTALLED	487	291	126	165	196
NOT REPORTED	36	21	4	17	15
NOT REPORTED	52	47	14	32	5
STORM DOORS:					
NO DOORS COVERED	6 636	5 483	1 933	3 550	1 153
SOME OR ALL DOORS COVERED	2 090	1 163	512	651	927
NONE ADDED OR INSTALLED	1 807	999	448	551	808
SOME OR ALL ADDED OR INSTALLED	207	125	47	78	82
NOT REPORTED	76	39	17	22	38
NOT REPORTED	50	47	14	32	3
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	1 410	1 220	528	692	190
WITH ATTIC OR ROOF INSULATION	6 933	5 111	1 796	3 315	1 822
NONE ADDED OR INSTALLED	6 235	4 615	1 611	3 003	1 620
SOME OR ALL ADDED OR INSTALLED	589	412	155	257	177
LESS THAN 3 INCHES ADDED	54	40	16	24	14
3 TO 6 INCHES ADDED	253	180	71	109	73
6 INCHES OR MORE ADDED	207	134	50	84	73
DON'T KNOW	54	41	15	26	13
NOT REPORTED	22	17	3	13	5
NOT REPORTED	110	84	30	55	26
DON'T KNOW	379	312	119	193	67
NOT REPORTED	53	49	16	33	4
WALL INSULATION:					
NONE ADDED OR INSTALLED	8 295	6 354	2 335	4 019	1 941
SOME OR ALL ADDED OR INSTALLED	412	278	107	171	135
NOT REPORTED	69	61	18	43	8
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	7 346	5 694	2 101	3 593	1 653
SOME OR ALL ADDED OR INSTALLED	1 299	892	333	559	407
DON'T KNOW	79	59	11	48	20
NOT REPORTED	51	48	15	33	3
OTHER INSULATION:					
NONE ADDED OR INSTALLED	8 285	6 366	2 348	4 018	1 918
SOME OR ALL ADDED OR INSTALLED	413	262	85	177	151
NOT REPORTED	78	64	27	37	13

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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	2 208	1 561	556	1 005	646
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	1 669	1 258	439	819	411
SOME OR ALL WINDOWS COVERED	418	191	82	109	227
NONE ADDED OR INSTALLED	336	168	77	91	168
SOME OR ALL ADDED OR INSTALLED	72	23	5	18	49
NOT REPORTED	10	-	-	-	10
NOT REPORTED	121	113	35	78	8
STORM DOORS:					
NO DOORS COVERED	1 823	1 329	478	851	494
SOME OR ALL DOORS COVERED	264	120	41	79	144
NONE ADDED OR INSTALLED	230	102	38	64	128
SOME OR ALL ADDED OR INSTALLED	22	11	3	8	11
NOT REPORTED	12	7	-	7	5
NOT REPORTED	121	113	37	76	8
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	619	494	202	292	124
WITH ATTIC OR ROOF INSULATION	865	523	159	364	342
NONE ADDED OR INSTALLED	770	466	149	318	303
SOME OR ALL ADDED OR INSTALLED	69	40	10	31	28
LESS THAN 3 INCHES ADDED	1	-	-	-	1
3 TO 6 INCHES ADDED	24	16	5	11	8
6 INCHES OR MORE ADDED	21	12	2	11	9
DON'T KNOW	22	12	3	8	10
NOT REPORTED	-	-	-	-	-
NOT REPORTED	27	17	1	16	10
DON'T KNOW	604	431	160	271	173
NOT REPORTED	120	113	35	78	7
WALL INSULATION:					
NONE ADDED OR INSTALLED	2 003	1 401	508	892	603
SOME OR ALL ADDED OR INSTALLED	43	25	7	17	18
NOT REPORTED	162	136	41	95	25
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	1 758	1 235	429	806	523
SOME OR ALL ADDED OR INSTALLED	144	85	40	45	59
DON'T KNOW	185	130	52	78	54
NOT REPORTED	122	111	35	76	10
OTHER INSULATION:					
NONE ADDED OR INSTALLED	1 998	1 404	507	897	595
SOME OR ALL ADDED OR INSTALLED	50	26	7	19	24
NOT REPORTED	159	132	43	89	27
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	8 776	6 693	2 459	4 233	2 083
NO INSULATION ADDED OR INSTALLED	6 428	5 091	1 873	3 218	1 338
WITH INSULATION ADDED OR INSTALLED	2 057	1 392	529	862	665
LESS THAN $50	854	540	184	356	313
$50 TO $99	221	159	66	93	62
$100 TO $199	193	121	41	80	72
$200 TO $399	213	152	55	97	61
$400 OR MORE	362	256	109	147	106
DON'T KNOW	95	76	37	39	19
NOT REPORTED	119	87	37	50	32
MEDIAN	65	73	82	66	50-
NOT REPORTED OR DON'T KNOW	290	210	57	153	81
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	198	107	55	52	90
LESS THAN $50	61	13	9	4	48
$50 TO $99	31	26	10	16	5
$100 TO $199	26	14	4	11	11
$200 TO $399	18	11	5	6	8
$400 OR MORE	46	33	19	14	13
DON'T KNOW	5	4	4	-	1
NOT REPORTED	10	5	4	2	5
MEDIAN	98	168	244	147	50-

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
ONLY ADDED OR INSTALLED STORM DOORS	78	50	16	34	27
LESS THAN $50	19	14	3	11	4
$50 TO $99	23	8	2	7	14
$100 TO $199	16	10	6	4	7
$200 TO $399	7	6	2	4	1
$400 OR MORE	-	-	-	-	-
DON'T KNOW	1	-	-	-	1
NOT REPORTED	12	12	3	9	-
MEDIAN	79	79	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	391	293	105	188	98
LESS THAN $50	42	27	4	23	15
$50 TO $99	49	38	18	20	11
$100 TO $199	47	35	11	24	12
$200 TO $399	92	71	25	46	21
$400 OR MORE	79	62	26	36	16
DON'T KNOW	40	32	10	22	8
NOT REPORTED	43	28	12	16	15
MEDIAN	235	247	276	231	195
ALL OCCUPIED HOUSING UNITS	15 299	12 122	5 122	7 000	3 178
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	6 543	5 135	1 898	3 237	1 408
DRIVES SELF	4 844	3 865	1 458	2 407	979
CARPOOL	1 081	835	265	570	246
MASS TRANSPORTATION	161	154	79	74	8
BICYCLE OR MOTORCYCLE	151	115	46	69	36
TAXICAB	2	2	2	-	-
WALKS ONLY	112	62	23	39	50
OTHER MEANS	44	30	8	21	15
WORKS AT HOME	126	59	15	44	67
NOT REPORTED	22	14	2	12	8
RENTER OCCUPIED	4 238	3 499	1 610	1 888	739
DRIVES SELF	2 733	2 255	973	1 282	479
CARPOOL	681	565	243	322	117
MASS TRANSPORTATION	274	270	195	75	4
BICYCLE OR MOTORCYCLE	148	113	41	72	35
TAXICAB	10	7	7	-	3
WALKS ONLY	283	213	115	97	71
OTHER MEANS	23	19	8	11	4
WORKS AT HOME	67	43	21	22	25
NOT REPORTED	18	16	8	8	2
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	6 543	5 135	1 898	3 237	1 408
LESS THAN 1 MILE	336	178	59	119	158
1 TO 4 MILES	1 277	872	426	446	405
5 TO 9 MILES	1 305	1 057	465	592	248
10 TO 19 MILES	1 469	1 283	412	871	186
20 TO 29 MILES	634	561	140	422	73
30 TO 49 MILES	299	252	46	207	46
50 MILES OR MORE	100	62	23	39	39
WORKS AT HOME	126	59	15	44	67
NO FIXED PLACE OF WORK	1 889	735	284	451	154
NOT REPORTED	108	76	29	48	32
MEDIAN	9.2	10.2	8.2	12.2	5.3
RENTER OCCUPIED	4 238	3 499	1 610	1 888	739
LESS THAN 1 MILE	429	291	145	146	138
1 TO 4 MILES	1 110	875	438	437	235
5 TO 9 MILES	859	742	379	363	117
10 TO 19 MILES	840	768	309	459	71
20 TO 29 MILES	236	195	72	124	40
30 TO 49 MILES	138	129	53	76	9
50 MILES OR MORE	35	23	6	16	13
WORKS AT HOME	67	43	21	22	25
NO FIXED PLACE OF WORK	450	371	153	218	78
NOT REPORTED	74	62	35	27	12
MEDIAN	6.6	7.3	6.5	8.1	3.9

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

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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					
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	6 543	5 135	1 898	3 237	1 408
LESS THAN 15 MINUTES	1 889	1 264	517	747	626
15 TO 29 MINUTES	2 146	1 807	726	1 081	338
30 TO 44 MINUTES	876	775	222	553	101
45 TO 59 MINUTES	304	263	69	194	41
1 HOUR TO 1 HOUR AND 29 MINUTES	190	159	38	121	32
1 HOUR AND 30 MINUTES OR MORE	53	30	12	18	24
WORKS AT HOME	126	59	15	44	67
NO FIXED PLACE OF WORK	889	735	284	451	154
NOT REPORTED	70	44	16	28	26
MEDIAN	20.8	22.3	20.6	23.4	15.0-
RENTER OCCUPIED	4 238	3 499	1 610	1 888	739
LESS THAN 15 MINUTES	1 496	1 104	497	607	392
15 TO 29 MINUTES	1 379	1 225	594	631	154
30 TO 44 MINUTES	509	459	217	242	50
45 TO 59 MINUTES	152	146	66	80	6
1 HOUR TO 1 HOUR AND 29 MINUTES	117	102	43	59	15
1 HOUR AND 30 MINUTES OR MORE	31	25	12	13	6
WORKS AT HOME	67	43	21	22	25
NO FIXED PLACE OF WORK	450	371	153	218	78
NOT REPORTED	36	24	8	16	12
MEDIAN	18.7	20.2	20.4	19.9	15.0-

[1]LIMITED TO HEADS 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: 1979

(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	15 299	704	2 364	1 606	2 759	2 041	1 802	2 106	1 247	464	206	15500
HOUSE HEATING FUEL												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
UTILITY GAS	6 426	172	614	462	880	859	926	1 237	825	319	134	21200
BOTTLED, TANK, OR LP GAS	311	28	49	34	53	36	44	35	21	5	5	14200
FUEL OIL	505	12	69	30	89	59	50	108	53	26	8	19400
KEROSENE, ETC	1	-	-	-	1	-	-	-	-	-	-	...
ELECTRICITY	1 665	47	132	151	261	256	244	295	167	69	44	19700
COAL OR COKE	12	-	1	1	3	5	2	1	1	-	-	...
WOOD	168	10	32	13	36	26	24	17	8	2	-	14000
SOLAR HEAT	2	-	-	-	-	-	-	-	-	2	-	...
OTHER FUEL	1	-	1	-	-	-	-	-	-	-	-	...
NONE	162	3	14	13	23	16	20	36	28	8	1	22900
RENTER OCCUPIED	6 047	430	1 454	903	1 413	784	492	378	146	33	14	10800
UTILITY GAS	3 856	250	946	637	880	496	298	229	93	19	8	10500
BOTTLED, TANK, OR LP GAS	137	11	39	21	34	19	5	5	2	-	-	9600
FUEL OIL	231	18	62	27	54	30	18	17	3	2	1	10900
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 532	125	335	183	363	205	152	112	43	11	3	11700
COAL OR COKE	7	3	2	-	-	1	-	-	-	-	-	...
WOOD	77	9	31	7	23	4	4	-	-	-	-	6900
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	30	7	2	6	10	3	1	-	-	-	-	...
NONE	178	8	37	22	50	26	14	14	4	1	1	12200
WATER HEATING FUEL												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
NO HOT PIPED WATER	16	2	4	1	6	2	-	-	-	-	-	...
WITH HOT PIPED WATER	9 237	271	907	702	1 339	1 255	1 311	1 728	1 102	431	192	20600
FUEL USED:												
UTILITY GAS	6 158	158	563	449	828	839	905	1 171	808	307	131	21300
BOTTLED, TANK, OR LP GAS	287	31	48	31	47	31	41	35	17	4	3	13600
FUEL OIL	16	1	3	-	1	2	1	5	1	2	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 750	81	289	221	459	383	361	512	272	116	56	19200
COAL OR COKE	2	-	-	-	2	-	-	-	-	-	-	...
WOOD	3	-	1	-	2	-	-	1	-	-	-	...
SOLAR HEAT	17	-	4	-	1	1	1	4	4	2	1	...
OTHER FUEL	3	1	-	-	-	-	2	-	-	-	1	...
NONE	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	430	1 454	903	1 413	784	492	378	146	33	14	10800
NO HOT PIPED WATER	24	5	17	2	-	-	-	-	-	-	-	...
WITH HOT PIPED WATER	6 023	425	1 437	902	1 413	784	492	378	146	33	14	10900
FUEL USED:												
UTILITY GAS	3 991	255	964	648	915	525	319	240	97	17	10	10700
BOTTLED, TANK, OR LP GAS	110	3	36	20	30	12	3	4	2	-	1	9400
FUEL OIL	28	8	3	-	12	3	-	2	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 843	152	429	223	451	234	163	128	46	15	3	11300
COAL OR COKE	3	3	-	-	-	-	-	-	-	-	-	...
WOOD	1	-	1	-	-	1	-	-	-	-	-	...
SOLAR HEAT	1	-	-	-	-	-	1	-	-	-	-	...
OTHER FUEL	38	3	2	10	5	8	4	5	2	-	-	14600
NONE	7	-	2	1	1	1	2	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
UTILITY GAS	3 409	115	439	337	546	495	437	553	317	118	52	17700
BOTTLED, TANK, OR LP GAS	289	29	56	41	52	34	33	22	12	7	3	11800
FUEL OIL	3	1	1	-	-	-	-	2	-	-	-	...
KEROSENE, ETC	2	-	-	-	-	-	-	2	-	-	-	...
ELECTRICITY	5 531	125	413	326	740	724	839	1 148	773	306	137	22600
COAL OR COKE	2	2	-	-	-	-	-	-	-	-	-	...
WOOD	14	2	2	-	6	3	-	2	-	-	-	...
OTHER FUEL	3	1	-	-	-	1	2	-	-	-	-	...
NONE	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	430	1 454	903	1 413	784	492	378	146	33	14	10800
UTILITY GAS	2 849	196	750	511	651	336	198	138	56	11	4	9800
BOTTLED, TANK, OR LP GAS	115	9	27	20	35	13	5	4	2	-	1	10200
FUEL OIL	1	-	-	1	-	-	-	-	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	3 009	214	642	360	720	428	290	237	88	22	9	12000
COAL OR COKE	2	-	1	-	-	2	-	-	-	-	-	...
WOOD	10	5	5	1	-	-	-	-	-	-	-	...
OTHER FUEL	5	-	-	2	1	2	-	-	-	-	-	...
NONE	56	6	30	10	6	3	-	-	-	-	-	5900
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED[1]	7 559	184	623	510	1 052	1 030	1 129	1 537	972	364	158	21700
LESS THAN $10	259	23	68	29	53	29	23	23	6	3	2	10900
$10 TO $19	1 777	52	241	165	306	240	244	298	172	45	14	17600
$20 TO $29	2 025	39	160	130	293	292	346	399	253	85	27	21400
$30 TO $39	1 446	29	73	91	180	192	222	326	216	80	37	23500
$40 TO $49	684	7	25	35	88	104	117	167	87	37	17	23600
$50 TO $59	528	13	25	20	46	65	77	132	95	33	21	26300
$60 TO $79	464	10	22	21	53	63	49	112	81	38	14	26200
$80 TO $99	156	5	6	10	12	22	21	33	28	13	6	25800
$100 TO $149	164	3	-	8	15	19	22	34	29	22	13	29600
$150 OR MORE	50	1	3	-	5	4	8	9	6	6	7	29100
NO ELECTRICITY USED	6	1	1	-	1	-	-	3	-	-	-	...
MEDIAN	28	24	20	24	25	28	28	31	32	35	39	...

[1]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: 1979--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]	5 967	426	1 437	896	1 393	767	486	373	144	32	14	10800
LESS THAN $10	909	47	225	156	251	98	67	51	10	1	2	10500
$10 TO $19	1 818	113	433	270	419	281	151	92	44	10	4	11100
$20 TO $29	1 076	58	197	152	254	163	112	91	41	8	-	12600
$30 TO $39	484	21	87	65	129	68	47	52	15	1	1	12700
$40 TO $49	208	13	23	35	64	18	26	20	6	3	-	12500
$50 TO $59	107	5	17	7	28	19	9	16	4	1	-	14300
$60 TO $79	93	3	10	13	28	12	11	7	7	1	2	13600
$80 TO $99	30	1	3	3	4	6	4	7	2	-	1	...
$100 TO $149	37	-	7	5	5	5	9	5	1	-	-	16900
$150 OR MORE	16	3	7	-	-	-	-	2	-	1	3	...
INCLUDED IN RENT	1 168	159	424	186	204	95	50	30	14	5	1	7000
NO ELECTRICITY USED	21	2	5	4	7	2	-	1	-	-	-	...
MEDIAN	17	17	16	17	17	18	19	23	22	...	...	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED[2]	7 559	184	623	510	1 052	1 030	1 129	1 537	972	364	158	21700
LESS THAN $10	610	31	92	39	99	97	95	86	40	22	10	17300
$10 TO $14	1 159	22	121	100	166	170	173	219	127	37	23	20000
$15 TO $19	1 088	27	76	86	143	150	167	230	138	56	15	21900
$20 TO $24	895	14	70	55	113	125	128	187	131	55	17	22600
$25 TO $29	671	17	60	32	74	89	112	148	105	28	6	22800
$30 TO $39	845	16	42	58	107	122	136	152	135	52	23	22800
$40 TO $49	396	8	26	12	57	46	57	95	60	22	13	24300
$50 TO $69	327	9	7	15	44	22	48	81	59	23	19	27300
$70 TO $99	66	4	2	3	5	2	5	14	21	8	2	33300
$100 OR MORE	30	2	-	3	3	1	2	2	5	8	3	...
NO GAS USED	1 473	35	128	106	242	206	205	324	150	52	27	20500
MEDIAN	21	18	17	18	19	19	21	22	23	23	25	...
SPECIFIED RENTER OCCUPIED[1]	5 967	426	1 437	896	1 393	767	486	373	144	32	14	10800
LESS THAN $10	1 323	57	329	230	328	179	105	73	18	4	2	10700
$10 TO $14	745	40	161	128	176	104	65	49	17	3	2	11200
$15 TO $19	420	25	97	75	86	37	41	29	21	7	1	10800
$20 TO $24	314	24	48	50	63	56	40	18	15	-	-	12800
$25 TO $29	121	9	22	14	37	20	6	9	4	-	-	12100
$30 TO $39	168	9	34	17	45	24	10	22	6	-	1	12700
$40 TO $49	59	2	16	13	13	5	5	3	1	-	2	9700
$50 TO $69	31	-	6	6	7	8	2	1	1	-	-	...
$70 TO $99	11	-	2	2	2	1	2	2	1	-	-	...
$100 OR MORE	21	5	-	6	6	1	-	2	-	-	1	...
INCLUDED IN RENT	1 268	128	386	199	265	138	73	54	17	6	1	8800
NO GAS USED	1 487	127	336	158	367	193	137	113	43	11	3	11700
MEDIAN	12	13	11	11	11	12	12	13	16	...	...	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED[2]	7 559	184	623	510	1 052	1 030	1 129	1 537	972	364	158	21700
LESS THAN $100	272	5	14	15	33	28	39	67	44	21	7	25400
$100 TO $199	167	8	12	6	20	13	26	35	23	19	5	24800
$200 TO $299	117	1	7	15	19	13	15	22	14	9	2	21200
$300 TO $399	116	4	12	8	27	17	13	22	10	1	2	17100
$400 TO $499	80	2	12	4	18	10	8	16	4	3	2	17000
$500 TO $599	63	1	12	2	9	6	4	22	5	2	1	23000
$600 TO $699	57	1	8	6	10	9	5	9	4	5	1	17400
$700 TO $799	22	2	2	-	8	2	1	4	3	-	-	...
$800 OR MORE	44	-	5	1	5	3	7	13	8	-	2	26000
FUELS NOT USED OR FREE	6 621	161	541	453	903	928	1 011	1 328	856	304	136	21600
MEDIAN	225	...	368	245	310	277	177	213	159	146	...	...
SPECIFIED RENTER OCCUPIED[1]	5 967	426	1 437	896	1 393	767	486	373	144	32	14	10800
LESS THAN $100	77	2	15	6	20	15	8	7	2	-	-	13700
$100 TO $199	44	4	8	3	4	7	4	6	5	1	-	16200
$200 TO $299	20	2	7	-	7	3	1	-	-	-	-	...
$300 TO $399	24	1	6	3	5	5	-	2	1	-	-	...
$400 TO $499	21	2	2	2	7	3	3	1	2	-	-	...
$500 TO $599	16	1	4	2	2	3	3	2	-	-	-	...
$600 TO $699	1	-	-	1	-	-	-	1	-	-	-	...
$700 TO $799	-	-	-	-	-	-	-	-	-	-	-	-
$800 OR MORE	19	1	6	2	3	1	3	3	-	-	1	...
INCLUDED IN RENT	243	14	81	32	48	27	17	16	5	5	-	9500
FUELS NOT USED OR FREE	5 503	398	1 307	846	1 298	704	446	335	129	26	13	10800
MEDIAN	177	...	206	...	194	144	...	...	...	...	...	...
ALL OCCUPIED HOUSING UNITS	15 299	704	2 364	1 606	2 759	2 041	1 802	2 106	1 247	464	206	15500
HEATING EQUIPMENT												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
WARM-AIR FURNACE	5 883	133	436	374	813	782	843	1 230	825	308	138	22400
HEAT PUMP	190	4	5	11	15	30	32	53	23	10	8	24800
STEAM OR HOT WATER	232	9	12	9	26	22	34	42	40	28	10	25900
BUILT-IN ELECTRIC UNITS	731	24	61	78	118	106	121	111	63	30	19	19000
FLOOR, WALL, OR PIPELESS FURNACE	1 417	49	223	150	235	216	192	200	104	37	12	16200
ROOM HEATERS WITH FLUE	287	24	88	37	48	25	25	22	9	6	3	9500
ROOM HEATERS WITHOUT FLUE	52	10	12	4	7	12	3	4	-	-	-	10300
FIREPLACES, STOVES, OR PORTABLE HEATERS	299	17	60	26	61	48	40	30	11	4	1	13700
NONE	162	3	14	13	23	16	20	36	28	8	1	22900

[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: 1979--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	6 047	430	1 454	903	1 413	784	492	378	146	33	14	10800
WARM-AIR FURNACE	1 794	101	307	227	431	270	202	159	73	16	8	13000
HEAT PUMP	25	-	4	2	6	2	5	3	-	2	-	...
STEAM OR HOT WATER	364	35	110	44	87	42	20	21	4	2	-	9500
BUILT-IN ELECTRIC UNITS	1 118	103	258	124	261	156	94	80	33	6	3	11400
FLOOR, WALL, OR PIPELESS FURNACE	1 903	123	502	360	434	232	135	87	27	2	1	9700
ROOM HEATERS WITH FLUE	418	40	136	80	85	41	17	11	4	4	-	8200
ROOM HEATERS WITHOUT FLUE	79	6	33	21	12	5	2	-	-	-	-	7000
FIREPLACES, STOVES, OR PORTABLE HEATERS	169	14	66	22	47	11	5	3	1	-	-	7600
NONE	178	8	37	22	50	26	14	14	4	1	1	12200
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
NO HEATING EQUIPMENT	162	3	14	13	23	16	20	36	28	8	1	22900
WITH HEATING EQUIPMENT	9 091	270	897	690	1 323	1 241	1 290	1 692	1 074	423	191	20500
NO THERMOSTAT CONTROL	903	53	180	104	182	121	101	92	51	12	6	13100
WITH THERMOSTAT CONTROL	8 163	215	717	584	1 134	1 119	1 187	1 594	1 019	409	185	21300
NOT CLOCK OPERATED	7 068	185	614	511	996	1 003	1 037	1 374	869	328	153	21100
CONSTANT TEMPERATURE SETTING MAINTAINED	2 168	71	205	162	324	310	330	425	221	72	48	20200
TEMPERATURE SETTING IS CHANGED	4 845	114	402	348	662	685	696	935	644	253	105	21500
OCCASIONALLY	932	32	66	70	135	136	124	180	109	57	23	21100
REGULARLY	3 871	81	332	275	520	539	567	748	533	195	81	21700
DON'T KNOW	39	2	2	3	7	10	4	8	2	-	2	18100
NOT REPORTED	2	-	2	-	-	-	1	-	-	-	-	...
NOT REPORTED	55	1	6	1	9	8	10	13	4	3	-	21400
CLOCK OPERATED	1 093	30	101	74	138	116	150	220	150	82	32	22900
NOT REPORTED	2	-	2	-	-	-	-	-	-	-	-	...
NOT REPORTED	25	2	-	2	6	1	2	7	4	2	-	...
RENTER OCCUPIED	6 047	430	1 454	903	1 413	784	492	378	146	33	14	10800
NO HEATING EQUIPMENT	178	8	37	22	50	26	14	14	4	1	1	12200
WITH HEATING EQUIPMENT	5 869	422	1 417	881	1 364	758	478	364	141	31	12	10800
NO THERMOSTAT CONTROL	1 788	159	581	291	391	184	89	67	20	5	-	8600
WITH THERMOSTAT CONTROL	4 069	263	832	587	973	572	386	297	121	26	12	11800
NOT CLOCK OPERATED	3 615	231	726	520	878	515	341	261	107	24	11	11900
CONSTANT TEMPERATURE SETTING MAINTAINED	1 292	70	292	208	315	173	114	77	30	9	4	11200
TEMPERATURE SETTING IS CHANGED	2 233	154	416	297	538	334	218	179	76	15	6	12300
OCCASIONALLY	632	37	108	94	159	94	62	55	20	3	-	12400
REGULARLY	1 533	109	290	193	361	234	155	123	53	11	5	12400
DON'T KNOW	65	8	18	9	18	5	1	-	3	2	2	9200
NOT REPORTED	2	-	-	1	-	-	-	2	-	-	-	...
NOT REPORTED	90	8	17	15	25	8	9	6	2	-	-	10900
CLOCK OPERATED	443	30	104	67	90	54	46	35	14	1	1	11100
NOT REPORTED	10	2	2	-	5	2	-	-	-	-	-	...
NOT REPORTED	12	-	4	3	-	2	2	-	-	-	-	...
ALL OCCUPIED HOUSING UNITS	15 299	704	2 364	1 606	2 759	2 041	1 802	2 106	1 247	464	206	15500
UNITS OCCUPIED LAST WINTER	12 198	507	1 832	1 191	2 103	1 613	1 512	1 798	1 058	402	182	16400
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	8 328	255	860	643	1 208	1 105	1 167	1 560	974	382	173	20400
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	226	777	605	1 126	1 038	1 105	1 492	936	373	172	20700
NO ADDITIONAL HEAT SOURCE USED	7 233	193	725	552	1 031	959	1 001	1 391	869	353	160	20800
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	25	48	46	86	71	97	84	53	17	10	19500
NOT REPORTED	80	9	5	7	9	8	8	17	14	2	2	21800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	29	83	38	82	67	61	67	38	10	2	15400
RENTER OCCUPIED	3 870	252	972	548	895	508	345	239	84	20	8	10900
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	231	878	507	827	479	326	224	79	20	8	11000
NO ADDITIONAL HEAT SOURCE USED	3 099	199	748	429	723	412	294	199	71	18	7	11200
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	393	33	99	63	90	54	29	17	4	2	2	10100
NOT REPORTED	87	-	31	15	14	13	3	7	4	-	-	9600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	20	94	41	68	29	19	15	5	-	-	9300
ROOMS LACKING SPECIFIED HEAT SOURCE:												
OWNER OCCUPIED	8 328	255	860	643	1 208	1 105	1 167	1 560	974	382	173	20400
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	226	777	605	1 126	1 038	1 105	1 492	936	373	172	20700
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	5 820	147	469	428	777	756	827	1 179	764	316	157	22000
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 967	71	305	173	339	275	272	301	162	55	15	16700
1 ROOM	502	17	74	21	77	70	74	83	64	16	4	19400
2 ROOMS	578	26	110	63	111	76	60	76	35	14	7	14000
3 ROOMS OR MORE	887	28	121	89	151	129	137	141	62	24	4	17100
NOT REPORTED	63	9	2	4	10	6	7	12	10	2	-	19900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	29	83	38	82	67	61	67	38	10	2	15400
RENTER OCCUPIED	3 870	252	972	548	895	508	345	239	84	20	8	10900
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	231	878	507	827	479	326	224	79	20	8	11000
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 072	155	486	228	487	290	205	149	53	15	5	11700
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 421	76	363	263	325	181	117	67	21	5	3	10100
1 ROOM	523	29	170	105	116	52	27	12	9	-	3	8800
2 ROOMS	565	25	129	96	135	83	52	35	8	2	-	11200
3 ROOMS OR MORE	333	23	64	61	74	45	38	19	4	4	-	11200
NOT REPORTED	85	-	29	16	15	9	3	7	6	-	-	9400
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	20	94	41	68	29	19	15	5	-	-	9300

[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: 1979--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	8 328	255	860	643	1 208	1 105	1 167	1 560	974	382	173	20400
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	226	777	605	1 126	1 038	1 105	1 492	936	373	172	20700
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	29	83	38	82	67	61	67	38	10	2	15400
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	404	19	64	32	71	56	56	60	34	10	2	16300
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	52	9	11	6	9	6	3	6	2	-	-	10300
NOT REPORTED	22	1	9	-	2	5	2	2	2	-	-	...
RENTER OCCUPIED	3 870	252	972	548	895	508	345	239	84	20	8	10900
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	231	878	507	827	479	326	224	79	20	8	11000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	20	94	41	68	29	19	15	5	-	-	9300
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	254	16	78	40	56	27	18	15	4	-	-	9500
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	26	3	12	1	8	1	2	-	-	-	-	...
NOT REPORTED	12	2	4	-	4	2	-	-	1	-	-	...
ALL OCCUPIED HOUSING UNITS	15 299	704	2 364	1 606	2 759	2 041	1 802	2 106	1 247	464	206	15500
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	460	21	74	39	84	64	60	66	38	12	2	16000
WITH SELECTED HEATING EQUIPMENT[3]	8 793	253	837	664	1 262	1 193	1 250	1 662	1 064	419	190	20800
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 382	235	811	626	1 228	1 126	1 189	1 573	1 022	388	184	20700
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	11	20	33	28	65	56	82	37	29	6	22300
SOLAR HEATING EQUIPMENT	7	-	-	1	-	2	-	2	-	3	-	...
STOVE, BURNING WOOD OR COAL	111	3	6	7	14	18	23	31	8	-	2	21700
FIREPLACE, BURNING WOOD OR COAL	60	-	2	2	3	13	11	20	4	5	-	24900
PORTABLE ELECTRIC HEATER	91	4	11	9	4	23	8	16	9	7	-	18700
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	1	2	-	-	-	-	1	3	3	-	...
OTHER	82	2	-	13	6	9	12	13	14	10	4	25000
NOT REPORTED	6	2	-	2	-	1	2	-	-	-	-	...
NOT REPORTED	45	6	5	5	6	1	5	8	5	2	1	16300
RENTER OCCUPIED	6 047	430	1 454	903	1 413	784	492	378	146	33	14	10800
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	346	22	103	44	97	36	18	17	5	1	1	10200
WITH SELECTED HEATING EQUIPMENT[3]	5 700	408	1 351	859	1 317	747	473	361	141	31	12	10900
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 529	397	1 301	832	1 285	724	456	355	138	31	11	10900
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	155	11	40	24	31	22	17	6	2	-	1	10400
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	13	1	2	1	1	3	3	1	-	-	-	...
FIREPLACE, BURNING WOOD OR COAL	5	-	-	1	-	-	2	2	-	-	-	...
PORTABLE ELECTRIC HEATER	110	9	28	19	22	15	13	3	1	-	-	9800
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	8	2	3	-	3	-	-	-	-	-	-	...
OTHER	18	-	6	3	5	2	1	-	-	-	1	...
NOT REPORTED	3	-	-	-	-	2	-	-	2	-	-	...
NOT REPORTED	15	-	11	3	1	1	-	-	-	-	-	...
AGE OF HEATING EQUIPMENT												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	55	174	80	139	101	89	92	47	18	5	13300
WITH SELECTED HEATING EQUIPMENT[3]	8 453	218	737	623	1 207	1 156	1 222	1 636	1 055	413	187	21200
LESS THAN 4 YEARS	1 587	26	84	96	202	222	239	336	250	93	40	23400
4 TO 9 YEARS	2 224	56	175	125	334	323	353	458	271	90	39	21400
10 TO 19 YEARS	2 319	60	239	189	316	293	317	436	280	123	66	21000
20 TO 39 YEARS	1 708	40	181	164	250	240	219	313	201	71	30	19600
40 YEARS OR MORE	195	7	24	15	42	19	23	26	14	19	5	17500
DON'T KNOW	339	16	27	24	55	51	61	57	30	13	5	19600
NOT REPORTED	80	14	6	10	7	8	11	9	9	4	2	17100
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	55	174	80	139	101	89	92	47	18	5	13300
WITH SELECTED HEATING EQUIPMENT[3]	8 453	218	737	623	1 207	1 156	1 222	1 636	1 055	413	187	21200
NO MAINTENANCE OR MODIFICATION	7 119	186	634	537	1 033	989	1 039	1 377	855	320	149	20900
WITH MAINTENANCE OR MODIFICATION	1 267	18	98	78	165	162	175	250	191	91	38	23200
NOT REPORTED	68	14	5	8	8	4	8	9	9	2	1	14300
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	55	174	80	139	101	89	92	47	18	5	13300
WITH SELECTED HEATING EQUIPMENT[3]	8 453	218	737	623	1 207	1 156	1 222	1 636	1 055	413	187	21200
NO MAINTENANCE CONTRACT	7 942	201	706	592	1 141	1 099	1 156	1 530	963	383	170	21000
WITH MAINTENANCE CONTRACT	440	3	26	23	56	53	56	97	82	28	17	25200
NOT REPORTED	72	13	5	8	9	4	9	9	9	4	1	15400

[1]EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[2]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[3]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
NO HOT PIPED WATER	16	2	4	1	6	2	-	-	-	-	-	...
WITH HOT PIPED WATER	9 237	271	907	702	1 339	1 255	1 311	1 728	1 102	431	192	20600
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 020	264	874	684	1 317	1 235	1 279	1 691	1 066	422	187	20500
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	72	1	3	4	11	3	7	24	15	4	1	28300
NOT REPORTED	127	7	26	14	10	15	24	9	16	3	3	17600
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	430	1 454	903	1 413	784	492	378	146	33	14	10800
NO HOT PIPED WATER	24	5	17	2	-	-	-	-	-	-	-	...
WITH HOT PIPED WATER	6 023	425	1 437	902	1 413	784	492	378	146	33	14	10900
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 840	414	1 357	878	1 378	776	483	368	141	31	14	11000
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	22	-	7	2	5	2	2	1	-	2	-	...
NOT REPORTED	153	11	70	21	29	5	3	9	5	-	-	6700
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
OWNER OCCUPIED	9 253	273	910	703	1 345	1 257	1 311	1 728	1 102	431	192	20500
WITH AIR CONDITIONING	3 411	77	326	250	458	428	506	699	416	159	92	21600
ROOM UNITS	1 207	28	171	129	175	148	169	230	100	42	13	18400
1	953	24	146	113	143	123	132	167	65	32	7	17000
2	215	2	21	16	22	25	34	53	30	8	3	23100
3	26	-	2	-	6	-	2	6	5	2	4	...
4	8	-	2	-	2	-	1	4	-	-	-	...
5 OR MORE	5	2	-	-	2	-	-	1	-	-	-	...
CENTRAL SYSTEM	2 204	49	155	121	283	280	337	469	315	117	78	23200
WITH NO AIR CONDITIONING	5 842	196	585	453	887	829	804	1 029	686	272	100	19800
RENTER OCCUPIED	6 047	430	1 454	903	1 413	784	492	378	146	33	14	10800
WITH AIR CONDITIONING	1 801	97	366	249	454	252	188	123	51	15	6	12100
ROOM UNITS	986	49	217	143	256	134	91	61	26	4	4	11600
1	898	41	196	127	236	125	87	55	24	2	4	11800
2	76	8	17	14	16	8	3	6	1	2	-	9600
3	11	1	2	2	5	1	1	1	-	-	-	...
4	1	-	1	-	-	-	-	-	-	-	-	...
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	815	47	149	106	198	118	97	62	25	11	2	12700
WITH NO AIR CONDITIONING	4 246	334	1 088	654	959	532	304	255	95	18	8	10200
ALL OCCUPIED HOUSING UNITS	15 299	704	2 364	1 606	2 759	2 041	1 802	2 106	1 247	464	206	15500
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 983	397	1 303	981	1 813	1 498	1 464	1 802	1 128	415	182	18300
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED	8 776	259	873	650	1 275	1 186	1 256	1 644	1 056	400	176	20600
ALL WINDOWS COVERED	1 828	58	145	131	288	268	284	347	206	67	36	20400
SOME WINDOWS COVERED	799	23	94	64	135	88	125	136	83	34	16	19700
NO WINDOWS COVERED	6 097	175	628	449	845	827	847	1 148	759	298	122	20700
NOT REPORTED	52	4	6	6	8	3	-	14	9	2	2	19800
RENTER OCCUPIED	2 208	138	430	331	538	311	208	158	72	15	6	11900
ALL WINDOWS COVERED	277	17	49	40	67	45	19	29	8	2	1	12400
SOME WINDOWS COVERED	141	13	8	20	39	25	19	11	4	2	-	13700
NO WINDOWS COVERED	1 669	93	350	252	393	226	167	117	57	8	5	11800
NOT REPORTED	121	14	23	19	38	15	3	2	3	3	-	10500
STORM DOORS												
OWNER OCCUPIED	8 776	259	873	650	1 275	1 186	1 256	1 644	1 056	400	176	20600
ALL DOORS COVERED	1 228	45	118	107	209	190	175	206	119	37	22	18500
SOME DOORS COVERED	862	24	77	58	148	125	135	158	93	29	14	20000
NO DOORS COVERED	6 636	186	673	479	911	871	946	1 264	836	331	138	21000
NOT REPORTED	50	4	6	5	8	-	-	15	9	2	2	26700
RENTER OCCUPIED	2 208	138	430	331	538	311	208	158	72	15	6	11900
ALL DOORS COVERED	160	11	27	18	39	23	15	24	2	2	-	13200
SOME DOORS COVERED	104	6	8	15	30	20	16	6	2	1	2	14000
NO DOORS COVERED	1 823	108	374	279	430	253	174	127	65	10	5	11800
NOT REPORTED	121	14	22	20	38	15	3	2	3	3	-	10500
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED	8 776	259	873	650	1 275	1 186	1 256	1 644	1 056	400	176	20600
YES	6 933	182	618	463	994	952	1 014	1 378	866	327	139	21300
NO	1 410	51	203	127	228	186	191	196	155	51	22	17600
DON'T KNOW	379	23	47	55	49	46	49	51	27	20	13	16800
NOT REPORTED	53	4	6	5	4	2	2	18	9	2	2	26900
RENTER OCCUPIED	2 208	138	430	331	538	311	208	158	72	15	6	11900
YES	865	54	137	89	216	142	109	74	32	10	3	13600
NO	619	29	145	105	145	90	46	39	17	2	2	11100
DON'T KNOW	604	40	128	118	138	64	50	43	19	1	1	10600
NOT REPORTED	120	15	20	20	38	15	3	2	3	3	-	10600

[1]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: 1979--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												
OWNER OCCUPIED	8 776	259	873	650	1 275	1 186	1 256	1 644	1 056	400	176	20600
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	6 097	175	628	449	845	827	847	1 148	759	298	122	20700
SOME OR ALL WINDOWS COVERED	2 627	81	239	195	423	356	409	482	289	101	52	20200
NONE ADDED OR INSTALLED	2 104	67	184	163	344	292	333	380	227	76	39	20000
SOME OR ALL ADDED OR INSTALLED	487	10	49	30	73	60	72	99	58	23	13	21500
NOT REPORTED	36	3	6	2	6	4	5	4	4	2	-	14900
NOT REPORTED	52	4	6	6	8	3	-	14	9	2	2	19800
STORM DOORS:												
NO DOORS COVERED	6 636	186	673	479	911	871	946	1 264	836	331	138	21000
SOME OR ALL DOORS COVERED	2 090	69	194	165	357	316	310	364	211	67	36	19100
NONE ADDED OR INSTALLED	1 807	61	164	152	307	279	252	324	178	57	32	18900
SOME OR ALL ADDED OR INSTALLED	207	6	21	11	40	24	42	34	19	7	4	20400
NOT REPORTED	76	2	10	3	11	13	16	6	14	2	-	19700
NOT REPORTED	50	4	6	5	8	-	-	15	9	2	2	26700
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 410	51	203	127	228	186	191	196	155	51	22	17600
WITH ATTIC OR ROOF INSULATION	6 933	182	618	463	994	952	1 014	1 378	866	327	139	21300
NONE ADDED OR INSTALLED	6 235	164	551	425	899	872	906	1 230	780	282	126	21100
SOME OR ALL ADDED OR INSTALLED	589	17	56	31	79	72	93	119	68	40	12	22000
LESS THAN 3 INCHES ADDED	54	4	11	3	9	4	6	6	8	2	2	15200
3 TO 6 INCHES ADDED	253	7	23	13	33	35	39	51	32	15	4	21900
6 INCHES OR MORE ADDED	207	3	12	11	26	23	35	50	23	18	6	24200
DON'T KNOW	54	4	7	2	10	7	9	8	3	3	1	17000
NOT REPORTED	22	-	2	3	1	3	4	5	2	2	-	...
NOT REPORTED	110	1	11	6	16	8	14	29	18	6	2	24600
DON'T KNOW	379	23	47	55	49	46	49	51	27	20	13	16800
NOT REPORTED	53	4	6	5	4	2	2	18	9	2	2	26900
WALL INSULATION:												
NONE ADDED OR INSTALLED	8 295	248	830	623	1 208	1 139	1 189	1 537	985	381	156	20400
SOME OR ALL ADDED OR INSTALLED	412	5	33	18	61	47	67	88	58	16	17	23100
NOT REPORTED	69	6	10	9	7	-	-	19	13	3	3	26600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	7 346	228	784	557	1 057	1 008	1 044	1 344	860	324	141	20200
SOME OR ALL ADDED OR INSTALLED	1 299	26	82	79	196	173	202	263	175	72	30	22300
DON'T KNOW	79	1	-	9	17	6	10	18	13	3	3	23900
NOT REPORTED	51	4	7	5	5	-	-	19	9	-	2	27100
OTHER INSULATION:												
NONE ADDED OR INSTALLED	8 285	248	840	621	1 204	1 117	1 175	1 544	990	378	169	20500
SOME OR ALL ADDED OR INSTALLED	413	7	22	24	60	67	76	79	52	21	5	21700
NOT REPORTED	78	4	11	5	12	2	5	21	15	2	2	25100
RENTER OCCUPIED	2 208	138	430	331	538	311	208	158	72	15	6	11900
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	1 669	93	350	252	393	226	167	117	57	8	5	11800
SOME OR ALL WINDOWS COVERED	418	31	57	60	106	70	38	39	12	4	1	12900
NONE ADDED OR INSTALLED	336	23	47	48	78	57	32	35	12	4	1	13200
SOME OR ALL ADDED OR INSTALLED	72	5	9	10	28	11	6	3	-	-	-	12100
NOT REPORTED	10	3	-	2	-	3	-	2	-	-	-	...
NOT REPORTED	121	14	23	19	38	15	3	2	3	3	-	10500
STORM DOORS:												
NO DOORS COVERED	1 823	108	374	279	430	253	174	127	65	10	5	11800
SOME OR ALL DOORS COVERED	264	16	35	32	69	43	31	30	4	2	2	13500
NONE ADDED OR INSTALLED	230	15	28	26	62	37	29	25	4	2	2	13700
SOME OR ALL ADDED OR INSTALLED	22	1	5	3	5	4	1	3	-	-	-	...
NOT REPORTED	12	-	2	3	2	2	2	2	-	-	-	...
NOT REPORTED	121	14	22	20	38	15	3	2	3	3	-	10500
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	619	29	145	105	145	90	46	39	17	2	2	11100
WITH ATTIC OR ROOF INSULATION	865	54	137	89	216	142	109	74	32	10	3	13600
NONE ADDED OR INSTALLED	770	49	128	75	187	124	97	69	31	6	3	13500
SOME OR ALL ADDED OR INSTALLED	69	5	5	12	21	10	8	6	1	2	-	13200
LESS THAN 3 INCHES ADDED	1	-	-	-	1	1	-	-	-	-	-	...
3 TO 6 INCHES ADDED	24	3	4	3	9	1	1	1	1	2	-	...
6 INCHES OR MORE ADDED	21	1	-	2	8	5	4	2	-	-	-	...
DON'T KNOW	22	1	1	7	3	4	3	3	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	27	-	4	2	8	8	4	-	1	1	-	...
DON'T KNOW	604	40	128	118	138	64	50	43	19	1	1	10600
NOT REPORTED	120	15	20	20	38	15	3	2	3	3	-	10600
WALL INSULATION:												
NONE ADDED OR INSTALLED	2 003	114	398	299	485	282	198	146	67	8	6	12000
SOME OR ALL ADDED OR INSTALLED	43	4	4	5	12	5	5	6	-	2	-	13800
NOT REPORTED	162	20	28	27	41	25	5	5	5	5	-	10600
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	1 758	99	352	260	419	250	171	133	60	9	5	12000
SOME OR ALL ADDED OR INSTALLED	144	11	24	16	39	18	23	8	2	1	1	12500
DON'T KNOW	185	13	35	35	40	27	12	14	7	2	-	11200
NOT REPORTED	122	15	19	20	39	16	3	3	3	3	-	10900
OTHER INSULATION:												
NONE ADDED OR INSTALLED	1 998	118	396	297	481	278	198	150	64	11	6	12000
SOME OR ALL ADDED OR INSTALLED	50	1	7	8	14	9	5	2	4	-	-	13300
NOT REPORTED	159	19	27	27	44	24	5	6	3	5	-	10800

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1979--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												
OWNER OCCUPIED	8 776	259	873	650	1 275	1 186	1 256	1 644	1 056	400	176	20600
NO INSULATION ADDED OR INSTALLED	6 428	199	685	506	931	888	892	1 164	752	284	126	20000
WITH INSULATION ADDED OR INSTALLED	2 057	48	163	119	302	275	329	413	258	104	44	21800
LESS THAN $50	854	25	71	54	136	121	138	156	100	32	20	20700
$50 TO $99	221	5	13	18	28	31	34	51	28	10	3	22300
$100 TO $199	193	2	15	11	29	27	36	33	22	17	-	21600
$200 TO $399	213	6	20	8	31	23	32	43	33	15	2	22900
$400 OR MORE	362	3	26	14	38	51	61	95	47	19	9	24000
DON'T KNOW	95	2	11	6	20	7	15	13	11	4	5	20700
NOT REPORTED	119	4	7	10	20	15	13	22	16	7	5	21400
MEDIAN	65	50-	56	50-	50-	59	68	81	77	125	...	...
NOT REPORTED OR DON'T KNOW	290	12	25	25	42	23	35	66	46	12	6	22800
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	198	5	25	11	32	30	23	34	26	7	3	19100
LESS THAN $50	61	2	14	5	10	8	9	6	5	1	1	14400
$50 TO $99	31	3	-	5	6	-	6	5	4	2	-	...
$100 TO $199	26	-	2	-	7	6	-	7	2	2	-	...
$200 TO $399	18	-	3	-	3	5	1	-	6	-	1	...
$400 OR MORE	46	-	5	-	1	11	6	13	7	3	-	25400
DON'T KNOW	5	-	-	-	1	-	2	-	3	-	-	...
NOT REPORTED	10	-	-	2	4	1	-	2	-	-	2	...
MEDIAN	98	...	...	...	...	...	...	...	...	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS	78	3	9	2	17	10	14	12	7	2	2	18800
LESS THAN $50	19	-	1	-	8	2	3	3	2	-	-	...
$50 TO $99	23	1	6	1	2	4	5	1	2	2	-	...
$100 TO $199	16	2	-	-	1	2	3	4	3	1	-	...
$200 TO $399	7	1	-	-	2	-	2	2	-	-	-	...
$400 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
DON'T KNOW	1	-	-	1	-	-	-	-	-	-	-	...
NOT REPORTED	12	-	2	-	5	2	-	2	1	-	2	...
MEDIAN	79	...	...	...	...	...	...	...	...	...	-	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	391	12	35	21	42	50	76	88	42	19	6	22400
LESS THAN $50	42	-	8	2	2	5	12	9	4	-	-	21700
$50 TO $99	49	1	3	2	4	10	2	18	3	3	2	25800
$100 TO $199	47	-	5	2	8	8	8	8	7	-	-	20000
$200 TO $399	92	4	8	5	9	10	18	23	10	6	-	22900
$400 OR MORE	79	1	5	4	5	9	22	18	7	4	2	23400
DON'T KNOW	40	2	4	1	8	3	6	5	6	3	2	21500
NOT REPORTED	43	3	2	5	6	4	7	8	5	3	-	21100
MEDIAN	235	...	...	...	...	180	299	227	...	...	...	...
ALL OCCUPIED HOUSING UNITS	15 299	704	2 364	1 606	2 759	2 041	1 802	2 106	1 247	464	206	15500
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]												
OWNER OCCUPIED	6 543	83	158	262	810	979	1 130	1 534	1 019	393	175	24300
DRIVES SELF	4 844	52	107	196	619	755	826	1 130	727	299	134	24200
CARPOOL	1 081	12	19	27	102	154	216	264	209	54	24	25400
MASS TRANSPORTATION	161	4	4	11	23	19	23	42	31	5	-	24400
BICYCLE OR MOTORCYCLE	151	-	4	3	25	20	35	41	17	3	2	23200
TAXICAB	2	-	-	-	-	2	-	-	-	-	-	...
WALKS ONLY	112	5	7	15	20	14	10	16	13	10	4	18300
OTHER MEANS	44	-	-	-	3	2	9	10	10	6	5	33200
WORKS AT HOME	126	8	17	9	14	11	11	23	10	16	6	21800
NOT REPORTED	22	3	1	-	3	2	2	9	2	-	1	...
RENTER OCCUPIED	4 238	150	587	647	1 185	691	444	355	135	33	11	13100
DRIVES SELF	2 733	69	309	408	791	448	330	246	100	25	7	13700
CARPOOL	681	25	82	86	200	131	73	54	21	7	2	13700
MASS TRANSPORTATION	274	15	64	50	73	34	16	20	1	-	-	10500
BICYCLE OR MOTORCYCLE	148	5	34	33	34	26	6	5	5	-	-	10300
TAXICAB	10	4	2	3	-	2	-	-	-	-	-	...
WALKS ONLY	283	21	74	51	66	38	10	17	3	1	1	9700
OTHER MEANS	23	1	4	5	5	3	2	3	-	-	1	...
WORKS AT HOME	67	7	18	10	10	7	6	7	3	-	-	10000
NOT REPORTED	18	3	-	1	6	3	1	2	3	-	-	...
DISTANCE FROM HOME TO WORK[1]												
OWNER OCCUPIED	6 543	83	158	262	810	979	1 130	1 534	1 019	393	175	24300
LESS THAN 1 MILE	336	14	13	22	70	47	52	57	27	23	11	20200
1 TO 4 MILES	1 277	19	35	59	190	182	236	271	179	78	29	23300
5 TO 9 MILES	1 305	14	27	43	154	238	245	304	193	65	22	23600
10 TO 19 MILES	1 469	7	24	62	181	223	262	375	233	70	32	24500
20 TO 29 MILES	634	4	12	20	62	88	99	163	120	43	24	27000
30 TO 49 MILES	299	1	6	7	13	42	70	84	57	16	3	26400
50 MILES OR MORE	100	-	1	2	11	14	11	34	18	5	5	28500
WORKS AT HOME	126	8	17	9	14	11	11	23	10	16	6	21800
NO FIXED PLACE OF WORK	889	11	21	31	102	121	134	195	163	71	41	26300
NOT REPORTED	108	6	2	7	14	13	12	29	18	7	1	25500
MEDIAN	9.2	4.2	7.1	8.1	7.6	8.9	9.1	10.3	10.6	8.8	10.5	...
RENTER OCCUPIED	4 238	150	587	647	1 185	691	444	355	135	33	11	13100
LESS THAN 1 MILE	429	32	91	80	109	63	20	26	5	1	1	10500
1 TO 4 MILES	1 110	42	182	191	327	186	91	65	22	5	-	12100
5 TO 9 MILES	859	25	111	123	250	138	107	68	30	6	2	13400
10 TO 19 MILES	840	14	93	129	221	152	99	90	33	5	3	14200
20 TO 29 MILES	236	10	19	24	80	36	32	27	5	1	-	14100
30 TO 49 MILES	138	5	14	16	38	27	18	14	2	3	1	14500
50 MILES OR MORE	35	-	4	2	12	3	4	10	1	-	-	14800
WORKS AT HOME	67	7	18	10	10	7	6	7	3	-	-	10000
NO FIXED PLACE OF WORK	450	15	43	62	116	71	61	43	28	10	2	14600
NOT REPORTED	74	2	14	11	21	9	5	5	6	2	2	12600
MEDIAN	6.6	4.0	4.6	5.5	6.6	6.9	8.5	9.3	8.6	...	...	...

[1]LIMITED TO HEADS 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: 1979--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												
TRAVEL TIME FROM HOME TO WORK[1]												
OWNER OCCUPIED	6 543	83	158	262	810	979	1 130	1 534	1 019	393	175	24300
LESS THAN 15 MINUTES	1 889	37	45	87	270	281	350	405	249	117	48	23200
15 TO 29 MINUTES	2 146	16	39	84	269	360	385	520	325	105	42	23900
30 TO 44 MINUTES	876	6	28	31	93	126	143	216	159	48	27	25500
45 TO 59 MINUTES	304	-	2	9	27	43	57	92	58	15	2	26600
1 HOUR TO 1 HOUR AND 29 MINUTES	190	-	3	5	21	22	34	53	33	13	6	27000
1 HOUR AND 30 MINUTES OR MORE	53	-	1	2	6	7	10	13	10	3	1	25900
WORKS AT HOME	126	8	17	9	14	11	11	23	10	16	6	21800
NO FIXED PLACE OF WORK	889	11	21	31	102	121	134	195	163	71	41	26300
NOT REPORTED	70	6	2	4	8	8	7	17	12	6	1	25400
MEDIAN	20.8	15.0-	20.3	18.9	19.0	20.7	20.4	22.0	22.7	19.8	20.2	...
RENTER OCCUPIED	4 238	150	587	647	1 185	691	444	355	135	33	11	13100
LESS THAN 15 MINUTES	1 496	67	215	264	411	258	139	104	31	5	1	12500
15 TO 29 MINUTES	1 379	39	189	196	407	226	143	119	47	8	4	13300
30 TO 44 MINUTES	509	17	73	74	137	65	71	48	18	6	1	13300
45 TO 59 MINUTES	152	2	19	16	54	34	12	14	-	2	-	13700
1 HOUR TO 1 HOUR AND 29 MINUTES	117	3	17	17	35	21	6	15	2	-	2	13100
1 HOUR AND 30 MINUTES OR MORE	31	2	9	2	2	8	3	3	2	-	-	...
WORKS AT HOME	67	7	18	10	10	7	6	7	3	-	-	10000
NO FIXED PLACE OF WORK	450	15	43	62	116	71	61	43	28	10	2	14600
NOT REPORTED	36	-	5	7	13	2	2	2	5	2	-	12600
MEDIAN	18.7	15.0-	18.6	16.6	19.1	18.1	20.0	20.9	21.0	...	...	...

[1]LIMITED TO HEADS 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: 1979

(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]	7 559	52	143	336	590	892	922	1 419	1 621	1 347	236	68900
HOUSE HEATING FUEL												
UTILITY GAS	5 559	32	93	204	373	600	642	1 078	1 290	1 045	202	71600
BOTTLED, TANK, OR LP GAS	136	4	5	17	14	18	10	14	24	25	6	61100
FUEL OIL	431	1	16	35	51	68	49	82	80	46	3	59100
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 199	5	13	56	135	185	204	227	199	153	20	60000
COAL OR COKE	5	-	-	1	1	-	-	2	2	-	-	...
WOOD	110	8	11	19	14	17	13	12	9	7	-	41700
SOLAR HEAT	2	-	-	-	-	-	-	-	-	2	-	...
OTHER FUEL	1	-	-	1	-	-	-	-	-	-	-	...
NONE	116	2	6	2	2	5	3	5	17	69	6	124100
WATER HEATING FUEL												
NO HOT PIPED WATER	8	3	2	1	2	-	-	-	-	-	-	...
WITH HOT PIPED WATER	7 550	49	142	334	588	892	922	1 419	1 621	1 347	236	69000
FUEL USED:												
UTILITY GAS	5 329	29	85	165	326	564	626	1 066	1 258	1 017	195	72300
BOTTLED, TANK, OR LP GAS	126	3	6	19	18	14	7	14	20	21	4	53700
FUEL OIL	14	-	1	-	1	3	-	2	4	2	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 060	16	50	150	243	307	287	337	337	296	37	59200
COAL OR COKE	2	-	-	-	-	-	-	-	2	-	-	...
WOOD	3	-	-	1	-	1	-	-	-	1	-	...
SOLAR HEAT	16	-	-	-	-	3	2	1	1	10	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	-	-	-	...
NONE	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	2 801	30	74	125	210	341	311	561	625	430	93	68300
BOTTLED, TANK, OR LP GAS	106	7	9	23	15	13	4	15	11	9	-	39200
FUEL OIL	2	-	1	-	-	-	-	2	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	4 637	14	56	186	362	538	606	841	983	907	143	69900
COAL OR COKE	2	-	2	-	-	-	-	-	-	-	-	...
WOOD	9	1	2	1	2	1	1	-	2	1	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	-	-	-	...
NONE	-	-	-	-	-	-	-	-	-	-	-	-
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	259	4	16	33	30	45	28	43	36	20	3	50300
$10 TO $19	1 777	17	55	96	188	222	207	359	359	246	28	64300
$20 TO $29	2 025	15	29	100	157	245	264	394	462	309	50	67700
$30 TO $39	1 446	9	30	51	97	165	176	271	324	280	43	70800
$40 TO $49	684	2	5	18	48	79	84	143	150	140	17	71200
$50 TO $59	528	3	4	5	24	47	72	85	147	118	24	79200
$60 TO $79	464	1	3	26	29	50	53	72	73	131	25	74500
$80 TO $99	156	-	-	3	7	16	23	23	34	44	7	79700
$100 TO $149	164	-	-	3	7	21	14	21	26	43	29	90200
$150 OR MORE	50	-	-	-	1	2	1	7	10	17	11	116200
NO ELECTRICITY USED	6	1	1	-	2	-	-	2	-	-	-	...
MEDIAN	28	23	20	24	24	27	28	27	28	33	38	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	610	7	19	21	50	74	68	138	127	91	15	67200
$10 TO $14	1 159	9	25	40	68	144	121	235	259	229	29	71000
$15 TO $19	1 088	6	18	35	66	102	116	191	292	233	30	75900
$20 TO $24	895	3	14	35	68	84	97	174	193	185	41	72600
$25 TO $29	671	2	12	31	61	86	90	143	141	82	23	65600
$30 TO $39	845	8	14	47	58	89	120	159	162	154	33	68100
$40 TO $49	396	3	5	16	28	48	56	65	94	71	10	69600
$50 TO $69	327	2	2	4	22	31	35	64	85	58	24	76100
$70 TO $99	66	-	-	7	2	3	8	9	12	21	3	82300
$100 OR MORE	30	1	-	-	-	7	-	2	5	8	7	...
NO GAS USED	1 473	10	34	99	168	225	211	239	252	215	21	59500
MEDIAN	21	18	17	23	22	21	22	21	20	20	23	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	272	2	7	2	17	26	40	63	69	45	2	70100
$100 TO $199	167	-	2	7	12	17	17	24	49	35	5	77800
$200 TO $299	117	3	1	10	11	11	12	21	29	19	1	67800
$300 TO $399	116	1	5	12	18	18	19	18	20	5	-	52300
$400 TO $499	80	-	6	5	12	9	14	18	7	9	1	56300
$500 TO $599	63	-	4	6	7	9	8	9	10	7	2	56000
$600 TO $699	57	-	2	5	4	9	2	16	14	3	-	65300
$700 TO $799	22	-	-	-	2	3	4	7	5	2	-	...
$800 OR MORE	44	-	2	1	-	5	3	9	5	20	-	89700
FUELS NOT USED OR FREE	6 621	47	116	288	507	784	803	1 234	1 414	1 202	227	69300
MEDIAN	225	...	...	343	306	295	223	227	170	178	...	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	4 800	4	30	112	290	531	571	931	1 156	981	194	73900
HEAT PUMP	154	-	-	2	8	21	20	21	38	37	7	78000
STEAM OR HOT WATER	192	-	-	7	5	13	17	30	58	56	6	85500
BUILT-IN ELECTRIC UNITS	537	2	9	45	84	83	97	97	68	46	7	54700
FLOOR, WALL, OR PIPELESS FURNACE	1 289	11	42	83	126	176	175	287	248	130	10	61600
ROOM HEATERS WITH FLUE	219	14	34	42	37	24	20	22	10	14	2	35100
ROOM HEATERS WITHOUT FLUE	43	7	4	7	9	7	2	1	2	1	3	34200
FIREPLACES, STOVES, OR PORTABLE HEATERS	207	12	17	35	29	33	18	24	24	14	2	43200
NONE	116	2	6	2	2	5	3	5	17	69	6	124100

[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: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	116	2	6	2	2	5	3	5	17	69	6	124100
WITH HEATING EQUIPMENT	7 442	50	137	334	588	887	919	1 414	1 604	1 278	231	68500
NO THERMOSTAT CONTROL	736	35	54	91	93	127	84	116	82	46	9	47500
WITH THERMOSTAT CONTROL	6 686	15	84	240	494	756	835	1 293	1 519	1 231	219	70700
NOT CLOCK OPERATED	5 767	12	73	214	433	682	743	1 107	1 302	1 040	162	69800
CONSTANT TEMPERATURE SETTING MAINTAINED	1 790	3	24	66	155	232	221	340	389	314	46	68500
TEMPERATURE SETTING IS CHANGED	3 936	9	48	148	274	443	515	764	907	715	114	70400
OCCASIONALLY	774	2	11	27	50	90	110	143	164	160	17	70200
REGULARLY	3 133	6	37	118	220	350	399	616	739	553	95	70600
DON'T KNOW	27	-	1	3	3	3	4	5	3	2	2	...
NOT REPORTED	2	-	-	-	-	1	2	-	-	-	-	...
NOT REPORTED	41	-	-	-	4	7	6	4	7	11	2	69600
CLOCK OPERATED	917	4	11	26	61	74	90	186	217	192	57	75800
NOT REPORTED	2	-	-	-	-	-	2	-	-	-	-	...
NOT REPORTED	21	-	-	2	1	4	-	5	3	2	3	...
SPECIFIED OWNER OCCUPIED[1]	7 559	52	143	336	590	892	922	1 419	1 621	1 347	236	68900
UNITS OCCUPIED LAST WINTER	6 848	48	139	315	551	811	823	1 279	1 469	1 206	207	68600
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	6 502	29	112	272	520	768	802	1 250	1 426	1 126	197	69000
NO ADDITIONAL HEAT SOURCE USED	5 985	25	89	239	476	706	737	1 146	1 330	1 051	187	69400
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	456	5	20	28	36	51	60	95	88	65	8	64400
NOT REPORTED	61	-	3	4	9	12	5	9	7	10	2	55700
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	346	19	27	43	30	42	22	28	44	80	11	55300
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	6 502	29	112	272	520	768	802	1 250	1 426	1 126	197	69000
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 686	7	38	137	316	525	555	891	1 119	925	172	72900
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 766	23	72	131	198	234	244	350	300	191	23	59200
1 ROOM	419	3	18	28	52	56	50	77	72	53	11	60700
2 ROOMS	514	10	29	46	68	76	64	103	54	60	4	54200
3 ROOMS OR MORE	833	9	25	57	78	103	131	170	174	79	8	61200
NOT REPORTED	50	-	2	3	6	9	2	9	7	10	2	63300
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	346	19	27	43	30	42	22	28	44	80	11	55300
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	6 502	29	112	272	520	768	802	1 250	1 426	1 126	197	69000
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	346	19	27	43	30	42	22	28	44	80	11	55300
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	298	14	22	32	26	36	19	23	41	74	9	59100
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	32	5	-	9	1	2	2	4	2	6	2	...
NOT REPORTED	16	-	4	2	3	4	2	2	-	-	-	...
SPECIFIED OWNER OCCUPIED[1]	7 559	52	143	336	590	892	922	1 419	1 621	1 347	236	68900
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	324	13	23	37	31	38	21	29	41	83	7	59300
WITH SELECTED HEATING EQUIPMENT[3]	7 235	38	120	299	559	854	901	1 390	1 580	1 265	229	69100
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 908	34	113	279	533	813	855	1 322	1 527	1 212	220	69400
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	298	4	8	16	21	36	45	64	51	50	3	64700
SOLAR HEATING EQUIPMENT	4	-	-	-	-	-	2	1	-	2	-	...
STOVE, BURNING WOOD OR COAL	85	2	2	2	5	14	18	24	7	10	-	59400
FIREPLACE, BURNING WOOD OR COAL	53	-	-	6	3	6	2	10	14	11	-	73700
PORTABLE ELECTRIC HEATER	76	2	6	6	6	10	14	9	11	8	3	55900
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	-	-	1	2	-	2	2	3	1	-	...
OTHER	68	-	-	2	5	5	5	17	17	17	-	75000
NOT REPORTED	4	-	-	-	-	-	2	1	-	2	-	...
NOT REPORTED	30	-	-	3	5	6	1	4	2	2	5	...
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	35	62	86	77	69	42	53	54	97	12	45000
WITH SELECTED HEATING EQUIPMENT[4]	6 972	17	82	249	514	824	879	1 366	1 568	1 250	224	70100
LESS THAN 4 YEARS	1 301	2	5	36	66	110	154	252	321	299	56	77000
4 TO 9 YEARS	1 623	8	15	61	118	203	208	299	373	299	38	69900
10 TO 19 YEARS	1 924	5	31	69	142	218	247	378	436	345	54	69900
20 TO 39 YEARS	1 592	1	20	61	126	193	210	349	340	238	53	68000
40 YEARS OR MORE	174	2	3	7	13	28	16	34	26	37	9	68300
DON'T KNOW	305	-	9	12	43	59	43	47	61	26	5	57000
NOT REPORTED	53	-	-	3	6	12	1	6	10	7	8	70200
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	35	62	86	77	69	42	53	54	97	12	45000
WITH SELECTED HEATING EQUIPMENT[4]	6 972	17	82	249	514	824	879	1 366	1 568	1 250	224	70100
NO MAINTENANCE OR MODIFICATION	5 863	13	69	205	425	696	764	1 108	1 355	1 052	177	70300
WITH MAINTENANCE OR MODIFICATION	1 069	14	13	42	83	118	114	252	209	192	42	69500
NOT REPORTED	40	-	-	2	6	9	1	6	4	7	5	62900

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

TABLE E-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	35	62	86	77	69	42	53	54	97	12	45000
WITH SELECTED HEATING EQUIPMENT[1]	6 972	17	82	249	514	824	879	1 366	1 568	1 250	224	70100
NO MAINTENANCE CONTRACT	6 550	15	79	240	482	777	819	1 287	1 475	1 168	209	70100
WITH MAINTENANCE CONTRACT	378	2	3	7	25	40	56	73	89	73	10	71500
NOT REPORTED	43	-	-	2	6	7	4	6	4	9	5	65700
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	8	3	2	1	2	-	-	-	-	-	-	...
WITH HOT PIPED WATER	7 550	49	142	334	588	892	922	1 419	1 621	1 347	236	69000
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 373	45	137	327	571	873	909	1 389	1 591	1 305	227	68900
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	65	-	1	2	9	5	2	8	15	19	6	86700
NOT REPORTED	95	3	5	6	8	11	9	22	16	13	3	64100
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
WITH AIR CONDITIONING	2 680	13	33	102	182	333	346	522	574	472	103	69500
ROOM UNITS	972	9	29	79	108	130	123	183	191	101	19	60600
1	769	9	23	63	79	109	105	148	144	72	18	59700
2	176	1	5	16	26	18	15	29	40	27	-	64200
3	20	-	1	-	3	2	2	4	5	2	2	...
4	7	-	-	-	-	2	2	2	2	-	-	...
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	1 708	4	4	23	74	203	223	339	383	372	84	74300
WITH NO AIR CONDITIONING	4 878	38	111	234	408	559	576	897	1 048	875	133	68600
SPECIFIED OWNER OCCUPIED[1]	7 559	52	143	336	590	892	922	1 419	1 621	1 347	236	68900
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 559	52	143	336	590	892	922	1 419	1 621	1 347	236	68900
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 433	5	32	76	181	195	179	306	268	168	24	62400
SOME WINDOWS COVERED	684	5	25	52	78	105	99	104	97	102	17	57800
NO WINDOWS COVERED	5 400	42	86	205	330	584	639	1 004	1 255	1 066	190	72200
NOT REPORTED	41	-	-	2	2	9	5	5	2	11	5	67400
STORM DOORS												
ALL DOORS COVERED	1 033	7	24	79	157	178	155	204	155	66	7	54600
SOME DOORS COVERED	705	5	18	52	64	96	133	173	115	44	6	58900
NO DOORS COVERED	5 782	40	101	203	368	610	629	1 037	1 350	1 228	218	73600
NOT REPORTED	39	-	-	2	2	9	5	5	2	9	5	64900
ATTIC OR ROOF INSULATION												
YES	5 932	26	96	242	462	725	739	1 126	1 319	1 017	179	69000
NO	1 293	21	39	69	103	125	142	252	243	259	39	68700
DON'T KNOW	293	4	8	23	23	36	36	32	58	61	13	67900
NOT REPORTED	42	-	-	2	2	7	5	9	2	10	5	68100
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	5 400	42	86	205	330	584	639	1 004	1 255	1 066	190	72200
SOME OR ALL WINDOWS COVERED	2 118	10	57	128	259	299	278	410	365	270	41	61000
NONE ADDED OR INSTALLED	1 674	7	37	94	202	253	230	332	295	194	31	60700
SOME OR ALL ADDED OR INSTALLED	416	3	19	34	54	45	46	74	64	67	10	61400
NOT REPORTED	28	-	2	1	3	2	2	4	6	10	-	...
NOT REPORTED	41	-	-	2	2	9	5	5	2	11	5	67400
STORM DOORS:												
NO DOORS COVERED	5 782	40	101	203	368	610	629	1 037	1 350	1 228	218	73600
SOME OR ALL DOORS COVERED	1 737	12	43	131	221	274	288	377	270	110	13	56600
NONE ADDED OR INSTALLED	1 492	9	36	117	187	240	235	333	231	94	11	56700
SOME OR ALL ADDED OR INSTALLED	183	3	5	12	25	25	40	32	29	10	2	55300
NOT REPORTED	62	-	2	2	8	9	13	12	9	6	1	57900
NOT REPORTED	39	-	-	2	2	9	5	5	2	9	5	64900
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	1 293	21	39	69	103	125	142	252	243	259	39	68700
WITH ATTIC OR ROOF INSULATION	5 932	26	96	242	462	725	739	1 126	1 319	1 017	179	69000
NONE ADDED OR INSTALLED	5 306	20	84	201	410	664	661	1 006	1 195	910	156	69200
SOME OR ALL ADDED OR INSTALLED	531	6	13	38	48	46	75	97	93	96	20	66200
LESS THAN 3 INCHES ADDED	34	-	-	-	1	3	5	11	6	4	2	...
3 TO 6 INCHES ADDED	235	5	10	29	19	14	32	42	35	36	11	62600
6 INCHES OR MORE ADDED	195	1	1	6	20	24	33	34	43	31	3	65800
DON'T KNOW	46	-	2	2	5	3	4	6	5	18	3	88700
NOT REPORTED	21	-	-	2	2	2	1	3	4	6	-	...
NOT REPORTED	94	-	-	3	5	14	3	23	32	11	3	74300
DON'T KNOW	293	4	8	23	23	36	36	32	58	61	13	67900
NOT REPORTED	42	-	-	2	2	7	5	9	2	10	5	68100
WALL INSULATION:												
NONE ADDED OR INSTALLED	7 122	48	135	315	549	846	875	1 337	1 542	1 260	215	68900
SOME OR ALL ADDED OR INSTALLED	382	4	8	19	37	36	41	76	74	74	14	69200
NOT REPORTED	54	-	1	2	3	11	5	7	5	14	7	71000
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	6 295	45	127	276	493	714	746	1 175	1 370	1 146	203	69500
SOME OR ALL ADDED OR INSTALLED	1 153	6	16	52	91	157	156	233	236	178	27	66300
DON'T KNOW	68	-	-	5	2	13	14	6	14	13	2	61000
NOT REPORTED	42	-	-	2	3	9	5	5	2	10	5	63400
OTHER INSULATION:												
NONE ADDED OR INSTALLED	7 157	51	143	322	557	841	867	1 348	1 529	1 277	222	68900
SOME OR ALL ADDED OR INSTALLED	336	1	-	11	26	39	46	62	86	56	9	70900
NOT REPORTED	66	-	1	2	7	13	9	8	7	15	5	63200

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[3]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: 1979--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												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
NO INSULATION ADDED OR INSTALLED	5 498	40	99	224	424	620	630	1 026	1 207	1 047	181	70400
WITH INSULATION ADDED OR INSTALLED	1 820	12	41	99	150	237	263	352	360	261	45	64600
LESS THAN $50	725	6	15	45	46	110	104	150	155	85	9	63700
$50 TO $99	202	-	9	10	16	22	37	35	43	28	2	63000
$100 TO $199	170	4	4	12	17	20	31	23	37	20	2	58900
$200 TO $399	198	1	6	14	17	18	35	38	39	21	8	63200
$400 OR MORE	331	2	2	11	35	38	31	80	63	60	9	68600
DON'T KNOW	86	-	5	2	8	14	9	9	12	21	6	67800
NOT REPORTED	109	-	1	4	11	14	15	18	12	26	8	68200
MEDIAN	71	...	66	56	121	50-	69	69	65	88	...	...
NOT REPORTED OR DON'T KNOW	241	-	3	13	16	36	29	40	54	39	11	68900
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	159	1	9	17	19	23	21	20	27	20	3	55200
LESS THAN $50	40	1	5	10	5	5	4	4	4	3	-	39500
$50 TO $99	31	-	1	-	2	6	7	2	8	5	-	...
$100 TO $199	20	-	2	2	2	3	3	2	3	4	-	...
$200 TO $399	16	-	2	2	4	2	2	1	3	2	-	...
$400 OR MORE	38	-	-	2	7	3	3	7	8	4	3	67500
DON'T KNOW	4	-	-	-	-	3	-	2	-	-	-	...
NOT REPORTED	9	-	-	2	-	2	2	2	-	2	-	...
MEDIAN	108	...	...	...	...	...	...	...	...	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS	67	-	3	2	5	11	21	11	13	-	2	56300
LESS THAN $50	15	-	-	-	1	4	5	3	2	-	-	...
$50 TO $99	19	-	3	2	2	2	7	-	3	-	-	...
$100 TO $199	15	-	-	-	2	-	7	2	4	-	-	...
$200 TO $399	6	-	-	-	-	2	3	-	2	-	-	...
$400 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
DON'T KNOW	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	12	-	-	-	-	3	-	5	3	-	2	...
MEDIAN	82	-	...	...	...	...	...	...	...	-	-	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	357	3	8	21	26	39	47	70	76	53	13	67200
LESS THAN $50	36	2	1	2	-	6	5	10	7	4	-	64000
$50 TO $99	43	-	1	3	2	2	5	8	9	10	2	74100
$100 TO $199	43	2	2	7	4	6	2	7	12	3	-	60200
$200 TO $399	86	-	2	6	6	5	18	17	22	8	3	66400
$400 OR MORE	73	-	-	1	3	15	7	19	18	9	2	68300
DON'T KNOW	38	-	3	2	5	3	4	3	6	8	4	71200
NOT REPORTED	37	-	-	1	6	2	6	6	4	11	2	68000
MEDIAN	244	...	...	...	...	...	273	266	256	...	...	...

[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: 1979

(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]	5 967	408	504	1 015	1 165	952	659	405	442	232	185	241
HOUSE HEATING FUEL												
UTILITY GAS	3 841	200	351	694	751	617	406	262	284	176	99	241
BOTTLED, TANK, OR LP GAS	114	14	19	23	17	11	2	1	4	-	22	178
FUEL OIL	225	14	24	76	46	19	8	19	6	4	8	195
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 515	153	64	173	294	288	228	105	123	43	44	259
COAL OR COKE	6	-	3	-	1	-	-	2	-	-	1	...
WOOD	60	9	11	12	16	2	2	1	1	-	5	178
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	29	3	3	10	10	-	-	-	3	-	-	...
NONE	178	15	28	27	30	15	12	15	20	9	7	226
WATER HEATING FUEL												
NO HOT PIPED WATER	22	16	2	1	-	-	-	-	-	-	1	...
WITH HOT PIPED WATER	5 946	392	502	1 013	1 165	952	659	405	442	232	184	241
FUEL USED:												
UTILITY GAS	3 979	210	375	684	773	637	449	272	299	184	98	243
BOTTLED, TANK, OR LP GAS	93	11	19	21	13	4	3	1	1	1	19	167
FUEL OIL	28	9	-	5	6	8	-	-	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 797	159	101	298	361	291	207	131	136	46	65	242
COAL OR COKE	3	-	3	-	-	-	-	-	-	-	-	...
WOOD	1	-	-	-	1	-	-	-	-	-	-	...
SOLAR HEAT	1	-	-	-	-	1	-	-	-	-	-	...
OTHER FUEL	38	3	3	2	10	8	1	2	6	2	1	249
NONE	6	-	-	5	-	2	-	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	2 841	170	318	559	585	420	299	158	170	90	72	228
BOTTLED, TANK, OR LP GAS	103	18	21	13	13	6	2	2	2	1	25	148
FUEL OIL	1	1	-	-	-	-	-	-	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 953	191	141	438	563	526	356	245	270	138	85	259
COAL OR COKE	2	-	-	-	-	-	2	-	-	-	1	...
WOOD	9	5	1	1	1	-	-	-	-	-	1	...
OTHER FUEL	5	2	-	-	-	-	-	-	-	2	1	...
NONE	55	22	24	3	3	-	-	-	-	2	1	110
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN $10	909	43	106	185	234	179	75	40	36	6	5	225
$10 TO $19	1 818	72	135	341	405	325	215	101	132	63	27	242
$20 TO $29	1 076	25	74	143	214	181	160	96	107	51	24	269
$30 TO $39	484	6	17	43	94	87	94	66	36	23	19	291
$40 TO $49	208	1	5	9	27	41	29	39	38	12	8	331
$50 TO $59	107	2	3	5	18	16	17	12	20	11	4	323
$60 TO $79	93	1	1	-	12	8	16	12	26	14	2	376
$80 TO $99	30	-	1	1	2	3	5	4	7	6	1	...
$100 TO $149	37	-	-	-	2	3	4	6	11	9	2	...
$150 OR MORE	16	-	-	-	2	-	-	2	-	13	-	...
INCLUDED IN RENT	1 168	251	159	289	154	108	44	26	29	22	86	172
NO ELECTRICITY USED	21	6	2	-	2	-	-	3	-	2	7	...
MEDIAN	17	14	14	15	16	17	21	24	23	26	25	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN $10	1 323	57	105	234	308	259	144	80	91	31	14	241
$10 TO $14	745	19	62	113	162	122	91	50	56	55	14	253
$15 TO $19	420	17	33	74	62	55	54	40	49	31	5	269
$20 TO $24	314	8	34	42	65	35	32	28	38	22	10	254
$25 TO $29	121	3	6	20	31	17	12	10	11	7	5	246
$30 TO $39	168	1	10	24	34	17	30	15	17	13	8	283
$40 TO $49	59	1	8	4	11	8	7	3	5	9	4	277
$50 TO $69	31	-	1	2	5	2	3	2	8	6	3	...
$70 TO $99	11	-	-	-	2	2	2	1	3	-	1	...
$100 OR MORE	21	-	-	-	2	5	4	-	3	3	4	...
INCLUDED IN RENT	1 268	151	169	290	199	169	90	60	41	21	77	197
NO GAS USED	1 487	152	77	213	284	260	190	116	120	35	40	248
MEDIAN	12	10-	12	11	11	10	12	13	14	15	20	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN $100	77	2	2	6	19	7	19	11	5	1	4	301
$100 TO $199	44	4	2	8	5	4	2	6	8	3	2	269
$200 TO $299	20	2	4	1	5	2	2	2	2	-	2	...
$300 TO $399	24	-	2	4	6	3	2	2	3	-	2	...
$400 TO $499	21	-	2	3	7	2	2	-	5	1	-	...
$500 TO $599	16	1	-	4	1	2	-	6	2	-	1	...
$600 TO $699	1	-	-	-	1	-	-	1	-	-	-	...
$700 TO $799	-	-	-	-	-	-	-	-	-	-	-	-
$800 OR MORE	19	-	-	1	5	1	-	2	2	5	3	...
INCLUDED IN RENT	243	27	40	50	37	31	22	8	9	6	12	198
FUELS NOT USED OR FREE	5 503	372	453	938	1 079	900	611	367	407	217	159	241
MEDIAN	177	...	...	...	207	...	...	...	...	...	...	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 769	60	68	193	278	287	242	182	243	146	72	293
HEAT PUMP	24	-	-	-	2	7	3	2	7	3	-	...
STEAM OR HOT WATER	362	24	53	106	71	46	19	21	12	7	3	197
BUILT-IN ELECTRIC UNITS	1 109	133	45	146	230	206	160	68	77	23	21	247
FLOOR, WALL, OR PIPELESS FURNACE	1 895	89	178	351	466	338	206	108	80	42	37	233
ROOM HEATERS WITH FLUE	408	48	84	143	60	33	13	6	2	2	17	172
ROOM HEATERS WITHOUT FLUE	77	11	22	17	8	8	2	2	-	-	8	154
FIREPLACES, STOVES, OR PORTABLE HEATERS	144	28	25	33	21	12	3	2	1	-	20	163
NONE	178	15	28	27	30	15	12	15	20	9	7	226

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

TABLE E-4. GROSS RENT OF RENTER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	178	15	28	27	30	15	12	15	20	9	7	226
WITH HEATING EQUIPMENT	5 789	394	476	988	1 135	937	647	390	422	223	178	241
NO THERMOSTAT CONTROL	1 750	145	258	462	351	212	130	58	37	25	52	197
WITH THERMOSTAT CONTROL	4 028	248	218	524	781	723	497	331	384	198	123	262
NOT CLOCK OPERATED	3 575	229	183	465	703	632	431	315	340	167	110	262
CONSTANT TEMPERATURE SETTING MAINTAINED	1 277	68	74	177	252	234	168	112	106	40	47	259
TEMPERATURE SETTING IS CHANGED	2 203	161	107	282	430	382	251	195	218	119	62	262
OCCASIONALLY	625	25	23	89	123	107	89	57	56	36	19	269
REGULARLY	1 515	132	83	181	299	267	155	129	155	75	40	258
DON'T KNOW	65	3	2	11	8	9	7	9	5	8	3	288
NOT REPORTED	2	-	-	-	-	-	-	-	2	-	-	...
NOT REPORTED	90	-	2	6	21	17	11	8	16	8	2	293
CLOCK OPERATED	442	19	31	53	78	90	67	16	44	32	13	268
NOT REPORTED	10	-	3	6	-	1	-	-	-	-	-	...
NOT REPORTED	12	1	1	2	3	2	-	1	-	-	3	...
SPECIFIED RENTER OCCUPIED[1]	5 967	408	504	1 015	1 165	952	659	405	442	232	185	241
UNITS OCCUPIED LAST WINTER	3 813	329	375	694	764	596	374	217	230	93	143	228
INSUFFICIENT HEAT												
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 542	289	318	652	723	572	366	201	218	87	116	231
NO ADDITIONAL HEAT SOURCE USED	3 069	257	258	545	634	521	319	180	178	78	101	233
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	386	25	48	95	74	38	38	20	28	8	12	213
NOT REPORTED	86	7	13	12	14	13	8	1	12	2	3	233
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	271	40	57	42	41	24	8	15	12	6	26	180
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 542	289	318	652	723	572	366	201	218	87	116	231
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 052	215	139	310	385	338	234	145	151	65	70	242
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 406	68	169	329	322	222	123	55	55	20	44	218
1 ROOM	522	36	76	153	120	81	28	6	13	-	9	196
2 ROOMS	558	17	58	111	156	94	58	28	11	9	15	227
3 ROOMS OR MORE	326	15	35	64	46	47	37	21	31	11	20	241
NOT REPORTED	84	7	10	12	16	13	8	1	12	2	3	236
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	271	40	57	42	41	24	8	15	12	6	26	180
HOUSING UNIT UNCOMFORTABLY COLD:												
WITH SPECIFIED HEATING EQUIPMENT[2]	3 542	289	318	652	723	572	366	201	218	87	116	231
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	271	40	57	42	41	24	8	15	12	6	26	180
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	238	33	50	38	35	19	8	15	11	6	23	181
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	23	3	5	5	3	3	-	1	1	-	3	...
NOT REPORTED	10	3	2	-	3	2	-	-	-	-	-	...
SPECIFIED RENTER OCCUPIED[1]	5 967	408	504	1 015	1 165	952	659	405	442	232	185	241
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	322	42	54	59	51	27	15	17	21	9	27	192
WITH SELECTED HEATING EQUIPMENT[3]	5 645	366	450	956	1 114	925	644	388	421	223	158	243
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 478	351	431	919	1 088	903	629	379	404	222	151	243
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	153	11	19	37	20	18	16	9	16	1	6	216
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	12	-	1	2	2	2	3	-	2	-	1	...
FIREPLACE, BURNING WOOD OR COAL	4	-	-	-	-	-	1	-	3	-	-	...
PORTABLE ELECTRIC HEATER	109	5	10	35	15	15	12	6	7	1	3	212
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	8	6	2	-	-	-	-	-	-	-	-	...
OTHER	18	-	6	-	2	2	-	2	5	-	2	...
NOT REPORTED	3	-	-	-	2	-	-	-	2	-	-	...
NOT REPORTED	14	3	1	-	6	4	-	-	-	-	1	...
AIR CONDITIONING												
WITH AIR CONDITIONING	1 776	78	89	198	332	362	276	148	147	86	59	272
ROOM UNITS	968	41	64	139	204	208	152	62	50	19	29	255
1	883	39	60	124	196	185	139	53	45	18	23	253
2	73	2	4	13	8	21	11	7	2	2	5	268
3	10	-	-	-	-	2	2	2	3	-	1	...
4	1	-	-	1	-	-	-	-	-	-	-	...
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	808	37	24	60	128	154	125	87	97	66	29	294
WITH NO AIR CONDITIONING	4 192	330	416	817	833	589	383	257	294	147	126	228

[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: 1979--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]	5 967	408	504	1 015	1 165	952	659	405	442	232	165	241
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 128	98	213	336	317	229	225	154	245	174	137	257
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	254	9	24	47	40	24	21	18	22	21	27	242
SOME WINDOWS COVERED	135	5	12	17	24	22	12	12	8	6	16	252
NO WINDOWS COVERED	1 619	74	169	247	231	161	180	118	204	145	91	263
NOT REPORTED	121	10	9	26	21	22	13	5	11	2	3	234
STORM DOORS												
ALL DOORS COVERED	146	3	16	29	29	12	12	8	12	6	18	226
SOME DOORS COVERED	96	5	5	15	22	9	9	8	11	5	7	245
NO DOORS COVERED	1 766	81	184	266	244	185	193	134	211	162	109	265
NOT REPORTED	121	10	9	26	23	22	11	5	11	2	3	232
ATTIC OR ROOF INSULATION												
YES	820	29	68	109	104	78	90	62	110	84	85	286
NO	596	35	87	110	105	54	62	35	55	25	29	224
DON'T KNOW	592	24	49	90	87	75	62	52	70	63	20	273
NOT REPORTED	120	10	9	27	21	22	11	5	11	2	3	230

[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: 1979

(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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	15 299	10 060	1 732	822	623	1 139	923
HOUSE HEATING FUEL							
OWNER OCCUPIED	9 253	8 002	310	79	20	68	774
UTILITY GAS	6 426	5 712	220	34	7	17	436
BOTTLED, TANK, OR LP GAS	311	182	2	-	-	-	127
FUEL OIL	505	482	9	1	-	-	13
KEROSENE, ETC	1	1	-	-	-	-	-
ELECTRICITY	1 665	1 339	68	39	13	25	182
COAL OR COKE	12	12	-	-	-	-	-
WOOD	168	150	4	3	-	-	11
SOLAR HEAT	2	2	-	-	-	-	-
OTHER FUEL	1	1	-	-	-	-	-
NONE	162	121	7	2	-	26	6
RENTER OCCUPIED	6 047	2 058	1 422	743	603	1 071	149
UTILITY GAS	3 856	1 402	1 050	472	369	499	64
BOTTLED, TANK, OR LP GAS	137	86	13	4	-	2	32
FUEL OIL	231	96	23	12	8	88	2
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 532	340	304	229	208	409	41
COAL OR COKE	7	2	2	-	-	3	-
WOOD	77	61	7	6	-	-	2
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	30	1	-	3	3	23	-
NONE	178	69	23	17	14	47	8
WATER HEATING FUEL							
OWNER OCCUPIED	9 253	8 002	310	79	20	68	774
NO HOT PIPED WATER	16	14	-	-	-	-	2
WITH HOT PIPED WATER	9 237	7 987	310	79	20	68	773
FUEL USED:							
UTILITY GAS	6 158	5 453	231	36	8	25	405
BOTTLED, TANK, OR LP GAS	287	157	3	-	-	-	127
FUEL OIL	16	15	-	-	-	-	1
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	2 750	2 339	76	42	12	42	240
COAL OR COKE	2	2	-	-	-	-	-
WOOD	3	3	-	-	-	-	-
SOLAR HEAT	17	17	-	-	-	-	-
OTHER FUEL	3	2	-	2	-	-	-
NONE	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	2 058	1 422	743	603	1 071	149
NO HOT PIPED WATER	24	15	-	2	3	2	3
WITH HOT PIPED WATER	6 023	2 043	1 422	742	600	1 070	146
FUEL USED:							
UTILITY GAS	3 991	1 357	1 067	502	427	576	62
BOTTLED, TANK, OR LP GAS	110	75	10	2	-	2	22
FUEL OIL	28	16	2	2	-	10	-
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 843	591	336	228	167	458	63
COAL OR COKE	3	-	-	-	-	3	-
WOOD	1	1	-	-	-	-	-
SOLAR HEAT	1	-	-	-	1	-	-
OTHER FUEL	38	3	5	5	5	20	-
NONE	7	1	3	1	-	2	-
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	9 253	8 002	310	79	20	68	774
UTILITY GAS	3 409	2 861	114	17	4	7	407
BOTTLED, TANK, OR LP GAS	289	135	4	-	-	-	149
FUEL OIL	3	2	-	-	-	-	1
KEROSENE, ETC	2	-	2	-	-	-	-
ELECTRICITY	5 531	4 986	191	62	16	61	215
COAL OR COKE	2	2	-	-	-	-	-
WOOD	14	14	-	-	-	-	-
OTHER FUEL	3	1	-	-	-	-	2
NONE	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	2 058	1 422	743	603	1 071	149
UTILITY GAS	2 849	1 029	755	393	296	311	66
BOTTLED, TANK, OR LP GAS	115	69	9	2	-	-	34
FUEL OIL	1	1	-	-	-	-	-
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	3 009	947	655	342	299	717	48
COAL OR COKE	2	1	-	2	-	-	-
WOOD	10	9	-	-	-	-	1
OTHER FUEL	5	1	-	-	-	3	-
NONE	56	1	2	5	8	40	-

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1979--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	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]	7 559	7 559	NA	NA	NA	NA	NA
LESS THAN $10	259	259	NA	NA	NA	NA	NA
$10 TO $19	1 777	1 777	NA	NA	NA	NA	NA
$20 TO $29	2 025	2 025	NA	NA	NA	NA	NA
$30 TO $39	1 446	1 446	NA	NA	NA	NA	NA
$40 TO $49	684	684	NA	NA	NA	NA	NA
$50 TO $59	528	528	NA	NA	NA	NA	NA
$60 TO $79	464	464	NA	NA	NA	NA	NA
$80 TO $99	156	156	NA	NA	NA	NA	NA
$100 TO $149	164	164	NA	NA	NA	NA	NA
$150 OR MORE	50	50	NA	NA	NA	NA	NA
NO ELECTRICITY USED	6	6	NA	NA	NA	NA	NA
MEDIAN	28	28	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	5 967	1 979	1 422	743	603	1 071	149
LESS THAN $10	909	157	269	173	132	168	10
$10 TO $19	1 818	617	483	257	219	206	37
$20 TO $29	1 076	471	250	117	88	115	35
$30 TO $39	484	253	99	48	37	39	9
$40 TO $49	208	101	47	19	14	17	10
$50 TO $59	107	48	22	5	7	20	6
$60 TO $79	93	54	22	1	6	11	-
$80 TO $99	30	24	3	-	-	3	-
$100 TO $149	37	28	2	3	-	3	-
$150 OR MORE	16	9	5	-	-	2	-
INCLUDED IN RENT	1 168	209	218	117	100	482	42
NO ELECTRICITY USED	21	8	2	3	1	6	1
MEDIAN	17	22	16	15	15	15	21
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	7 559	7 559	NA	NA	NA	NA	NA
LESS THAN $10	610	610	NA	NA	NA	NA	NA
$10 TO $14	1 159	1 159	NA	NA	NA	NA	NA
$15 TO $19	1 088	1 088	NA	NA	NA	NA	NA
$20 TO $24	895	895	NA	NA	NA	NA	NA
$25 TO $29	671	671	NA	NA	NA	NA	NA
$30 TO $39	845	845	NA	NA	NA	NA	NA
$40 TO $49	396	396	NA	NA	NA	NA	NA
$50 TO $69	327	327	NA	NA	NA	NA	NA
$70 TO $99	66	66	NA	NA	NA	NA	NA
$100 OR MORE	30	30	NA	NA	NA	NA	NA
NO GAS USED	1 473	1 473	NA	NA	NA	NA	NA
MEDIAN	21	21	NA	NA	NA	NA	NA
SPECIFIED RENTER OCCUPIED[2]	5 967	1 979	1 422	743	603	1 071	149
LESS THAN $10	1 323	349	392	214	185	158	26
$10 TO $14	745	324	235	88	50	34	13
$15 TO $19	420	222	120	37	24	14	3
$20 TO $24	314	207	74	16	5	2	10
$25 TO $29	121	65	42	8	3	-	2
$30 TO $39	168	133	21	5	-	-	9
$40 TO $49	59	44	3	3	3	-	5
$50 TO $69	31	21	5	-	2	-	3
$70 TO $99	11	10	2	-	-	-	-
$100 OR MORE	21	10	2	-	-	-	10
INCLUDED IN RENT	1 268	214	257	174	152	433	39
NO GAS USED	1 487	381	269	197	180	431	30
MEDIAN	12	15	11	10-	10-	10-	16
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	7 559	7 559	NA	NA	NA	NA	NA
LESS THAN $100	272	272	NA	NA	NA	NA	NA
$100 TO $199	167	167	NA	NA	NA	NA	NA
$200 TO $299	117	117	NA	NA	NA	NA	NA
$300 TO $399	116	116	NA	NA	NA	NA	NA
$400 TO $499	80	80	NA	NA	NA	NA	NA
$500 TO $599	63	63	NA	NA	NA	NA	NA
$600 TO $699	57	57	NA	NA	NA	NA	NA
$700 TO $799	22	22	NA	NA	NA	NA	NA
$800 OR MORE	44	44	NA	NA	NA	NA	NA
FUELS NOT USED OR FREE	6 621	6 621	NA	NA	NA	NA	NA
MEDIAN	225	225	NA	NA	NA	NA	NA

[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: 1979--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	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.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	5 967	1 979	1 422	743	603	1 071	149
LESS THAN $100	77	44	16	8	1	8	-
$100 TO $199	44	31	6	-	-	2	5
$200 TO $299	20	17	2	-	-	-	1
$300 TO $399	24	17	3	2	-	2	-
$400 TO $499	21	21	-	-	-	-	-
$500 TO $599	16	14	2	-	-	-	-
$600 TO $699	1	1	-	-	-	-	-
$700 TO $799	-	-	-	-	-	-	-
$800 OR MORE	19	18	-	-	-	-	1
INCLUDED IN RENT	243	89	53	15	20	54	11
FUELS NOT USED OR FREE	5 503	1 726	1 339	719	581	1 006	133
MEDIAN	177	240	...	...	...	...	...
ALL OCCUPIED HOUSING UNITS	15 299	10 060	1 732	822	623	1 139	923
HEATING EQUIPMENT							
OWNER OCCUPIED	9 253	8 002	310	79	20	68	774
WARM-AIR FURNACE	5 883	5 010	171	36	4	10	652
HEAT PUMP	190	168	6	5	3	2	5
STEAM OR HOT WATER	232	200	13	6	4	8	1
BUILT-IN ELECTRIC UNITS	731	608	43	22	9	21	29
FLOOR, WALL, OR PIPELESS FURNACE	1 417	1 323	54	5	-	-	35
ROOM HEATERS WITH FLUE	287	254	10	-	-	-	23
ROOM HEATERS WITHOUT FLUE	52	46	3	-	-	-	4
FIREPLACES, STOVES, OR PORTABLE HEATERS	299	271	4	3	-	-	20
NONE	162	121	7	2	-	26	6
RENTER OCCUPIED	6 047	2 058	1 422	743	603	1 071	149
WARM-AIR FURNACE	1 794	713	439	157	130	252	103
HEAT PUMP	25	10	2	5	3	3	1
STEAM OR HOT WATER	364	12	42	41	41	229	-
BUILT-IN ELECTRIC UNITS	1 118	217	225	184	163	317	12
FLOOR, WALL, OR PIPELESS FURNACE	1 903	679	532	265	216	201	10
ROOM HEATERS WITH FLUE	418	186	115	60	31	19	6
ROOM HEATERS WITHOUT FLUE	79	46	19	4	5	3	2
FIREPLACES, STOVES, OR PORTABLE HEATERS	169	125	25	11	-	-	8
NONE	178	69	23	17	14	47	8
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	9 253	8 002	310	79	20	68	774
NO HEATING EQUIPMENT	162	121	7	2	-	26	6
WITH HEATING EQUIPMENT	9 091	7 881	303	77	20	41	769
NO THERMOSTAT CONTROL	903	816	23	6	2	5	50
WITH THERMOSTAT CONTROL	8 163	7 042	278	71	18	37	718
NOT CLOCK OPERATED	7 068	6 091	230	58	16	30	643
CONSTANT TEMPERATURE SETTING MAINTAINED	2 168	1 879	70	13	3	15	188
TEMPERATURE SETTING IS CHANGED	4 845	4 170	156	45	13	15	446
OCCASIONALLY	932	818	16	8	8	7	74
REGULARLY	3 871	3 318	136	37	4	8	367
DON'T KNOW	39	31	3	-	-	-	5
NOT REPORTED	2	2	-	-	-	-	-
NOT REPORTED	55	42	5	-	-	-	9
CLOCK OPERATED	1 093	949	48	13	2	7	74
NOT REPORTED	2	2	-	-	-	-	-
NOT REPORTED	25	23	2	-	-	-	1
RENTER OCCUPIED	6 047	2 058	1 422	743	603	1 071	149
NO HEATING EQUIPMENT	178	69	23	17	14	47	8
WITH HEATING EQUIPMENT	5 869	1 989	1 399	726	589	1 024	141
NO THERMOSTAT CONTROL	1 788	620	414	228	172	336	18
WITH THERMOSTAT CONTROL	4 069	1 365	982	498	415	687	123
NOT CLOCK OPERATED	3 615	1 213	876	450	357	607	112
CONSTANT TEMPERATURE SETTING MAINTAINED	1 292	377	328	179	134	223	52
TEMPERATURE SETTING IS CHANGED	2 233	811	528	263	207	367	58
OCCASIONALLY	632	195	133	99	73	113	19
REGULARLY	1 533	585	386	154	129	241	39
DON'T KNOW	65	28	8	11	4	13	1
NOT REPORTED	2	2	-	-	-	-	-
NOT REPORTED	90	26	21	8	17	18	1
CLOCK OPERATED	443	151	104	46	56	75	11
NOT REPORTED	10	1	2	2	2	5	-
NOT REPORTED	12	4	3	1	2	2	-

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	15 299	10 060	1 732	822	623	1 139	923
UNITS OCCUPIED LAST WINTER	12 198	8 598	1 206	563	400	685	746
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	8 328	7 250	261	70	14	58	675
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	6 839	249	65	14	36	647
NO ADDITIONAL HEAT SOURCE USED	7 233	6 286	230	61	13	31	612
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	483	14	4	2	3	31
NOT REPORTED	80	70	5	-	-	2	4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	411	12	5	-	21	28
RENTER OCCUPIED	3 870	1 348	945	493	386	628	71
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	1 169	898	475	376	600	61
NO ADDITIONAL HEAT SOURCE USED	3 099	954	790	421	340	545	49
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	393	170	96	50	28	43	6
NOT REPORTED	87	44	11	5	8	13	7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	179	48	18	10	28	10
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	8 328	7 250	261	70	14	58	675
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	6 839	249	65	14	36	647
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	5 820	4 928	185	60	13	35	601
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 967	1 853	62	5	2	1	44
1 ROOM	502	444	25	4	2	1	27
2 ROOMS	578	534	28	-	-	-	16
3 ROOMS OR MORE	887	875	10	2	-	-	1
NOT REPORTED	63	59	2	-	-	-	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	411	12	5	-	21	28
RENTER OCCUPIED	3 870	1 348	945	493	386	628	71
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	1 169	898	475	376	600	61
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 072	552	465	277	248	485	46
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 421	575	422	192	121	103	8
1 ROOM	523	127	167	85	73	64	7
2 ROOMS	565	217	185	89	42	32	1
3 ROOMS OR MORE	333	232	70	18	7	6	-
NOT REPORTED	85	42	11	6	6	13	7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	179	48	18	10	28	10
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	8 328	7 250	261	70	14	58	675
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	6 839	249	65	14	36	647
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	411	12	5	-	21	28
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	404	350	10	2	-	21	20
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	52	39	2	3	-	-	8
NOT REPORTED	22	22	-	-	-	-	-
RENTER OCCUPIED	3 870	1 348	945	493	386	628	71
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	1 169	898	475	376	600	61
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	179	48	18	10	28	10
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	254	153	43	11	10	28	10
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	26	19	3	4	-	-	-
NOT REPORTED	12	7	2	3	-	-	-

[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: 1979--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	UNITS IN STRUCTURE					
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	MOBILE HOME OR TRAILER
ALL OCCUPIED HOUSING UNITS	15 299	10 060	1 732	822	623	1 139	923
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	9 253	8 002	310	79	20	68	774
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	460	392	11	5	-	26	25
WITH SELECTED HEATING EQUIPMENT[1]	8 793	7 610	299	74	20	41	749
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 382	7 256	282	72	20	41	710
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	316	13	2	-	-	34
SOLAR HEATING EQUIPMENT	7	5	2	-	-	-	1
STOVE, BURNING WOOD OR COAL	111	92	3	1	-	-	15
FIREPLACE, BURNING WOOD OR COAL	60	58	-	-	-	-	2
PORTABLE ELECTRIC HEATER	91	77	2	2	-	-	10
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	10	-	-	-	-	-
OTHER	82	72	6	-	-	-	4
NOT REPORTED	6	4	-	-	-	-	2
NOT REPORTED	45	37	3	-	-	-	5
RENTER OCCUPIED	6 047	2 058	1 422	743	603	1 071	149
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	346	194	48	28	14	47	16
WITH SELECTED HEATING EQUIPMENT[1]	5 700	1 864	1 374	715	589	1 024	134
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 529	1 785	1 335	693	585	1 004	127
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	155	74	37	21	3	15	5
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	13	8	2	3	-	-	-
FIREPLACE, BURNING WOOD OR COAL	5	5	-	-	-	-	-
PORTABLE ELECTRIC HEATER	110	44	27	18	3	11	5
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	8	3	3	-	-	2	-
OTHER	18	14	2	-	-	2	-
NOT REPORTED	3	2	2	-	-	-	-
NOT REPORTED	15	6	2	2	-	5	1
AIR CONDITIONING							
OWNER OCCUPIED	9 253	8 002	310	79	20	68	774
WITH AIR CONDITIONING	3 411	2 840	113	41	9	34	374
ROOM UNITS	1 207	1 025	27	10	3	20	121
1	953	808	22	10	3	10	99
2	215	187	3	-	-	8	16
3	26	21	2	-	-	2	2
4	8	8	-	-	-	-	-
5 OR MORE	5	1	-	-	-	-	4
CENTRAL SYSTEM	2 204	1 814	86	31	6	14	253
WITH NO AIR CONDITIONING	5 842	5 162	198	38	11	33	400
RENTER OCCUPIED	6 047	2 058	1 422	743	603	1 071	149
WITH AIR CONDITIONING	1 801	528	338	214	210	463	48
ROOM UNITS	986	278	187	123	134	241	23
1	898	241	180	120	125	214	19
2	76	33	7	2	8	22	4
3	11	4	1	-	2	5	-
4	1	-	-	1	-	-	-
5 OR MORE	-	-	-	-	-	-	-
CENTRAL SYSTEM	815	250	151	91	75	222	25
WITH NO AIR CONDITIONING	4 246	1 530	1 084	529	393	608	101

[1]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: 1979

(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	15 299	415	669	1 743	3 272	3 490	2 774	2 936	4.9
HOUSE HEATING FUEL									
OWNER OCCUPIED	9 253	36	102	311	1 272	2 519	2 342	2 671	5.7
UTILITY GAS	6 426	11	47	155	808	1 773	1 725	1 907	5.7
BOTTLED, TANK, OR LP GAS	311	10	19	45	62	86	44	46	4.7
FUEL OIL	505	2	5	6	62	112	122	197	6.0
KEROSENE, ETC	1	-	-	-	1	-	-	-	...
ELECTRICITY	1 665	11	16	69	278	452	382	457	5.5
COAL OR COKE	12	-	-	1	1	2	2	7	...
WOOD	168	1	10	21	31	45	38	23	5.0
SOLAR HEAT	2	-	-	-	-	-	2	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	...
NONE	162	2	5	13	29	50	28	34	5.1
RENTER OCCUPIED	6 047	378	567	1 432	2 000	971	432	265	3.8
UTILITY GAS	3 856	138	319	975	1 296	663	294	171	3.9
BOTTLED, TANK, OR LP GAS	137	7	12	14	52	26	19	8	4.2
FUEL OIL	231	43	24	28	48	42	24	23	3.9
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 532	134	171	361	539	196	78	53	3.7
COAL OR COKE	7	-	2	3	1	1	1	-	...
WOOD	77	10	9	13	26	8	6	5	3.8
SOLAR HEAT	-	-	-	-	-	-	-	-	-
OTHER FUEL	30	21	2	3	1	2	-	1	...
NONE	178	26	29	35	38	35	11	5	3.5
WATER HEATING FUEL									
OWNER OCCUPIED	9 253	36	102	311	1 272	2 519	2 342	2 671	5.7
NO HOT PIPED WATER	16	2	5	2	5	1	-	-	...
WITH HOT PIPED WATER	9 237	34	96	309	1 268	2 517	2 342	2 671	5.7
FUEL USED:									
UTILITY GAS	6 158	10	38	138	788	1 718	1 652	1 814	5.7
BOTTLED, TANK, OR LP GAS	287	9	23	41	67	69	39	39	4.5
FUEL OIL	16	-	-	1	-	4	2	9	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 750	16	35	128	412	719	640	801	5.6
COAL OR COKE	2	-	-	-	-	2	-	-	...
WOOD	3	-	-	1	1	-	1	1	...
SOLAR HEAT	17	-	-	-	-	3	7	7	...
OTHER FUEL	3	-	-	-	-	3	-	1	...
NONE	-	-	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	378	567	1 432	2 000	971	432	265	3.8
NO HOT PIPED WATER	24	7	11	-	5	-	-	-	...
WITH HOT PIPED WATER	6 023	371	555	1 432	1 995	971	432	265	3.8
FUEL USED:									
UTILITY GAS	3 991	154	370	1 002	1 356	660	293	156	3.8
BOTTLED, TANK, OR LP GAS	110	4	4	15	42	24	16	6	4.3
FUEL OIL	28	9	2	8	3	5	2	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 843	189	174	397	579	279	122	103	3.8
COAL OR COKE	3	-	-	3	-	-	-	-	...
WOOD	1	-	-	-	1	1	-	-	...
SOLAR HEAT	1	-	-	-	1	-	-	-	...
OTHER FUEL	38	13	5	8	9	3	-	-	2.6
NONE	7	1	2	-	4	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED	9 253	36	102	311	1 272	2 519	2 342	2 671	5.7
UTILITY GAS	3 409	7	34	127	611	1 112	868	652	5.3
BOTTLED, TANK, OR LP GAS	289	8	28	52	81	68	32	19	4.2
FUEL OIL	3	-	-	-	-	3	-	-	...
KEROSENE, ETC	2	-	-	-	-	2	-	-	...
ELECTRICITY	5 531	20	38	130	578	1 328	1 437	1 999	6.0
COAL OR COKE	2	-	-	-	-	2	-	-	...
WOOD	14	-	2	2	2	4	5	1	...
OTHER FUEL	3	2	-	-	1	1	-	-	...
NONE	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	378	567	1 432	2 000	971	432	265	3.8
UTILITY GAS	2 849	84	310	767	937	483	196	72	3.8
BOTTLED, TANK, OR LP GAS	115	7	10	16	43	21	14	3	4.0
FUEL OIL	1	-	-	-	1	-	-	-	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	3 009	232	237	650	1 014	465	222	190	3.9
COAL OR COKE	2	-	-	-	1	2	-	-	...
WOOD	10	1	5	-	4	-	-	-	...
OTHER FUEL	5	2	2	-	1	-	-	-	...
NONE	56	53	2	-	-	-	-	-	1.5-

TABLE E-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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]	7 559	15	46	116	701	2 073	2 126	2 482	5.9
LESS THAN $10	259	3	2	18	68	86	49	34	5.0
$10 TO $19	1 777	5	14	40	235	604	479	401	5.5
$20 TO $29	2 025	2	13	31	204	569	595	612	5.8
$30 TO $39	1 446	2	10	13	98	394	417	563	6.1
$40 TO $49	684	2	5	5	47	179	194	253	6.0
$50 TO $59	528	1	-	2	14	115	164	233	6.3
$60 TO $79	464	2	-	6	29	108	128	191	6.2
$80 TO $99	156	-	2	-	5	32	51	65	6.3
$100 TO $149	164	-	-	-	2	28	35	100	6.5+
$150 OR MORE	50	-	-	1	-	6	14	29	6.5+
NO ELECTRICITY USED	6	-	-	-	1	3	1	1	...
MEDIAN	28	...	25	19	22	25	28	33	...
SPECIFIED RENTER OCCUPIED[2]	5 967	373	562	1 428	1 983	954	420	246	3.8
LESS THAN $10	909	25	138	353	293	77	17	6	3.3
$10 TO $19	1 818	26	131	492	699	309	113	47	3.9
$20 TO $29	1 076	8	48	194	416	228	110	73	4.2
$30 TO $39	484	2	21	57	180	121	55	49	4.4
$40 TO $49	208	1	2	30	83	45	32	14	4.3
$50 TO $59	107	2	2	12	44	28	13	6	4.3
$60 TO $79	93	-	1	15	28	21	17	11	4.6
$80 TO $99	30	-	-	2	9	7	9	4	...
$100 TO $149	37	-	-	1	9	11	8	8	5.3
$150 OR MORE	16	-	2	2	4	3	1	5	...
INCLUDED IN RENT	1 168	304	212	266	217	102	42	25	2.8
NO ELECTRICITY USED	21	6	3	5	2	2	4	-	...
MEDIAN	17	12	12	14	18	22	25	27	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED[1]	7 559	15	46	116	701	2 073	2 126	2 482	5.9
LESS THAN $10	610	2	2	15	120	205	158	107	5.3
$10 TO $14	1 159	5	3	24	137	411	336	243	5.5
$15 TO $19	1 088	2	4	10	89	306	396	282	5.8
$20 TO $24	895	2	11	17	63	248	233	320	5.9
$25 TO $29	671	-	6	6	51	172	213	222	6.0
$30 TO $39	845	-	5	6	52	204	214	363	6.2
$40 TO $49	396	2	2	5	21	87	90	190	6.4
$50 TO $69	327	-	-	4	9	44	71	199	6.5+
$70 TO $99	66	-	-	-	1	5	15	45	6.5+
$100 OR MORE	30	-	-	-	2	3	9	16	...
NO GAS USED	1 473	3	12	28	155	389	390	496	5.9
MEDIAN	21	...	...	17	16	18	19	26	...
SPECIFIED RENTER OCCUPIED[2]	5 967	373	562	1 428	1 983	954	420	246	3.8
LESS THAN $10	1 323	29	124	418	511	167	55	19	3.7
$10 TO $14	745	1	33	167	307	147	61	30	4.1
$15 TO $19	420	2	12	50	166	113	55	22	4.4
$20 TO $24	314	-	6	34	103	92	59	20	4.6
$25 TO $29	121	-	2	23	43	27	18	7	4.3
$30 TO $39	168	-	6	18	44	47	19	35	4.8
$40 TO $49	59	-	1	5	14	18	7	14	5.0
$50 TO $69	31	-	1	5	7	6	7	4	...
$70 TO $99	11	-	-	-	6	3	1	2	...
$100 OR MORE	21	2	-	3	8	2	4	2	...
INCLUDED IN RENT	1 268	157	222	381	299	137	42	30	3.2
NO GAS USED	1 487	183	155	324	475	195	92	63	3.7
MEDIAN	12	...	10-	10-	11	14	17	21	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED[1]	7 559	15	46	116	701	2 073	2 126	2 482	5.9
LESS THAN $100	272	-	-	4	15	50	88	115	6.3
$100 TO $199	167	2	4	3	11	45	39	63	6.0
$200 TO $299	117	-	-	2	13	28	25	50	6.1
$300 TO $399	116	-	1	2	12	32	34	35	5.8
$400 TO $499	80	-	4	-	8	18	15	34	6.1
$500 TO $599	63	-	-	2	11	9	23	18	5.9
$600 TO $699	57	-	-	-	7	12	13	24	6.2
$700 TO $799	22	-	-	-	-	2	5	16	...
$800 OR MORE	44	-	-	-	1	5	13	25	6.5+
FUELS NOT USED OR FREE	6 621	13	36	103	623	1 874	1 870	2 102	5.8
MEDIAN	225	...	...	...	298	217	205	225	...

[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: 1979--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.--CONTINUED									
SPECIFIED RENTER OCCUPIED[1]	5 967	373	562	1 428	1 983	954	420	246	3.8
LESS THAN $100	77	6	2	8	20	15	11	15	4.7
$100 TO $199	44	-	2	6	13	7	5	10	4.6
$200 TO $299	20	-	2	2	7	4	4	-	...
$300 TO $399	24	-	-	2	7	12	2	2	...
$400 TO $499	21	-	-	3	3	6	4	5	...
$500 TO $599	16	-	2	-	2	3	6	3	...
$600 TO $699	1	-	-	-	1	-	-	1	...
$700 TO $799	-	-	-	-	-	-	-	-	-
$800 OR MORE	19	-	1	1	5	1	5	7	...
INCLUDED IN RENT	243	23	23	58	78	41	16	6	3.7
FUELS NOT USED OR FREE	5 503	344	531	1 348	1 847	866	368	199	3.8
MEDIAN	177	...	...	...	173	240	242	165	...
ALL OCCUPIED HOUSING UNITS	15 299	415	669	1 743	3 272	3 490	2 774	2 936	4.9
HEATING EQUIPMENT									
OWNER OCCUPIED	9 253	36	102	311	1 272	2 519	2 342	2 671	5.7
WARM-AIR FURNACE	5 883	10	48	129	670	1 440	1 555	2 030	5.9
HEAT PUMP	190	-	-	3	18	29	61	78	6.2
STEAM OR HOT WATER	232	1	-	9	21	41	52	108	6.3
BUILT-IN ELECTRIC UNITS	731	8	7	42	128	207	163	177	5.4
FLOOR, WALL, OR PIPELESS FURNACE	1 417	4	12	49	272	574	350	157	5.1
ROOM HEATERS WITH FLUE	287	8	13	23	72	90	44	37	4.8
ROOM HEATERS WITHOUT FLUE	52	1	-	9	11	11	15	5	4.9
FIREPLACES, STOVES, OR PORTABLE HEATERS	299	2	16	33	51	78	73	45	5.1
NONE	162	2	5	13	29	50	28	34	5.1
RENTER OCCUPIED	6 047	378	567	1 432	2 000	971	432	265	3.8
WARM-AIR FURNACE	1 794	43	87	282	575	411	225	171	4.3
HEAT PUMP	25	-	2	5	8	7	2	1	...
STEAM OR HOT WATER	364	95	68	88	67	29	6	11	2.7
BUILT-IN ELECTRIC UNITS	1 118	118	130	273	387	131	44	34	3.6
FLOOR, WALL, OR PIPELESS FURNACE	1 903	49	158	570	715	286	109	14	3.7
ROOM HEATERS WITH FLUE	418	31	55	120	132	48	16	15	3.5
ROOM HEATERS WITHOUT FLUE	79	2	12	24	20	10	8	4	3.6
FIREPLACES, STOVES, OR PORTABLE HEATERS	169	15	26	35	57	15	11	9	3.6
NONE	178	26	29	35	38	35	11	5	3.5
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED	9 253	36	102	311	1 272	2 519	2 342	2 671	5.7
NO HEATING EQUIPMENT	162	2	5	13	29	50	28	34	5.1
WITH HEATING EQUIPMENT	9 091	34	97	298	1 243	2 469	2 314	2 637	5.7
NO THERMOSTAT CONTROL	903	14	23	85	189	296	198	98	5.0
WITH THERMOSTAT CONTROL	8 163	20	73	211	1 050	2 162	2 114	2 534	5.8
NOT CLOCK OPERATED	7 068	18	66	189	918	1 885	1 849	2 143	5.7
CONSTANT TEMPERATURE SETTING MAINTAINED	2 168	11	18	64	299	600	588	588	5.6
TEMPERATURE SETTING IS CHANGED	4 845	7	48	125	613	1 265	1 250	1 537	5.8
OCCASIONALLY	932	-	11	24	104	259	248	286	5.8
REGULARLY	3 871	7	36	101	501	996	988	1 241	5.8
DON'T KNOW	39	-	-	-	8	9	12	9	5.6
NOT REPORTED	2	-	-	-	-	-	2	1	...
NOT REPORTED	55	-	-	-	6	20	11	18	5.6
CLOCK OPERATED	1 093	2	7	22	132	275	264	390	5.9
NOT REPORTED	2	-	-	-	-	2	-	-	...
NOT REPORTED	25	-	1	1	4	11	2	6	...
RENTER OCCUPIED	6 047	378	567	1 432	2 000	971	432	265	3.8
NO HEATING EQUIPMENT	178	26	29	35	38	35	11	5	3.5
WITH HEATING EQUIPMENT	5 869	353	538	1 398	1 962	936	421	260	3.8
NO THERMOSTAT CONTROL	1 788	197	279	496	518	191	68	40	3.3
WITH THERMOSTAT CONTROL	4 069	156	258	898	1 443	744	350	220	4.0
NOT CLOCK OPERATED	3 615	148	236	823	1 261	644	309	195	4.0
CONSTANT TEMPERATURE SETTING MAINTAINED	1 292	53	88	292	464	232	116	47	3.9
TEMPERATURE SETTING IS CHANGED	2 233	93	136	509	764	397	188	145	4.0
OCCASIONALLY	632	15	39	166	226	115	43	29	3.9
REGULARLY	1 533	77	87	335	522	267	130	115	4.0
DON'T KNOW	65	1	10	8	16	14	13	2	4.3
NOT REPORTED	2	-	-	-	-	1	2	-	...
NOT REPORTED	90	1	12	21	32	15	5	3	3.8
CLOCK OPERATED	443	3	19	75	182	98	41	24	4.2
NOT REPORTED	10	5	3	-	-	2	1	-	...
NOT REPORTED	12	-	1	4	2	2	3	1	...

[1]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: 1979--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	15 299	415	669	1 743	3 272	3 490	2 774	2 936	4.9
UNITS OCCUPIED LAST WINTER	12 198	245	415	1 206	2 455	2 901	2 410	2 566	5.1
INSUFFICIENT HEAT									
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	8 328	28	89	275	1 143	2 269	2 128	2 396	5.7
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	24	70	221	1 061	2 137	2 022	2 315	5.7
NO ADDITIONAL HEAT SOURCE USED	7 233	18	62	208	983	1 953	1 877	2 133	5.7
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	5	7	8	68	157	128	164	5.7
NOT REPORTED	80	2	1	5	11	28	17	18	5.3
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	4	19	53	82	132	106	82	5.1
RENTER OCCUPIED	3 870	217	326	931	1 312	632	282	170	3.8
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	200	293	860	1 227	584	260	153	3.8
NO ADDITIONAL HEAT SOURCE USED	3 099	186	255	741	1 084	484	221	128	3.8
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	393	11	31	108	110	77	32	24	3.9
NOT REPORTED	87	3	6	12	34	24	8	1	4.2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	17	34	71	85	48	21	17	3.8
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	8 328	28	89	275	1 143	2 269	2 128	2 396	5.7
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	24	70	221	1 061	2 137	2 022	2 315	5.7
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	5 820	24	54	155	723	1 454	1 514	1 896	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 967	-	15	61	332	660	493	404	5.4
1 ROOM	502	-	15	42	67	107	117	153	5.7
2 ROOMS	578	-	-	20	191	181	104	82	4.9
3 ROOMS OR MORE	887	-	-	-	74	372	272	169	5.5
NOT REPORTED	63	-	1	5	5	23	15	14	5.4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	4	19	53	82	132	106	82	5.1
RENTER OCCUPIED	3 870	217	326	931	1 312	632	282	170	3.8
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	200	293	860	1 227	584	260	153	3.8
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 072	197	222	428	639	327	151	108	3.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 421	-	64	422	555	234	103	42	3.9
1 ROOM	523	-	64	302	94	37	15	11	3.1
2 ROOMS	565	-	-	120	355	68	19	2	3.9
3 ROOMS OR MORE	333	-	-	-	106	130	68	29	5.0
NOT REPORTED	85	3	6	10	34	23	6	2	4.2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	17	34	71	85	48	21	17	3.8
HOUSING UNIT UNCOMFORTABLY COLD:									
OWNER OCCUPIED	8 328	28	89	275	1 143	2 269	2 128	2 396	5.7
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	24	70	221	1 061	2 137	2 022	2 315	5.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	4	19	53	82	132	106	82	5.1
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	404	3	13	40	70	116	95	67	5.1
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	52	1	6	8	8	10	8	10	4.7
NOT REPORTED	22	-	-	5	3	5	4	5	...
RENTER OCCUPIED	3 870	217	326	931	1 312	632	282	170	3.8
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	200	293	860	1 227	584	260	153	3.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	17	34	71	85	48	21	17	3.8
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	254	13	26	63	74	44	17	16	3.8
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	26	3	4	4	8	4	4	-	...
NOT REPORTED	12	-	3	4	3	-	1	1	...

[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: 1979--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	15 299	415	669	1 743	3 272	3 490	2 774	2 936	4.9
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED	9 253	36	102	311	1 272	2 519	2 342	2 671	5.7
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	460	5	21	46	80	128	101	79	5.1
WITH SELECTED HEATING EQUIPMENT[1]	8 793	32	80	265	1 192	2 391	2 241	2 593	5.7
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 382	28	75	246	1 155	2 286	2 149	2 442	5.7
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	4	4	14	34	84	85	141	6.0
SOLAR HEATING EQUIPMENT	7	-	-	-	2	2	2	2	...
STOVE, BURNING WOOD OR COAL	111	1	2	4	8	24	30	42	6.0
FIREPLACE, BURNING WOOD OR COAL	60	1	-	-	4	15	11	30	6.4
PORTABLE ELECTRIC HEATER	91	2	2	6	8	21	24	28	5.8
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	-	-	2	1	2	5	1	...
OTHER	82	-	1	-	10	22	11	38	6.2
NOT REPORTED	6	-	-	2	1	-	2	2	...
NOT REPORTED	45	-	1	5	3	21	6	9	5.2
RENTER OCCUPIED	6 047	378	567	1 432	2 000	971	432	265	3.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	346	41	54	70	96	50	22	14	3.6
WITH SELECTED HEATING EQUIPMENT[1]	5 700	338	512	1 362	1 905	921	410	251	3.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 529	331	502	1 317	1 865	886	387	243	3.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	155	5	9	42	37	33	21	9	4.1
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	13	-	1	1	4	5	-	3	...
FIREPLACE, BURNING WOOD OR COAL	5	-	-	-	1	-	2	2	...
PORTABLE ELECTRIC HEATER	110	5	7	33	29	19	14	3	3.8
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	8	-	-	3	-	5	-	-	...
OTHER	18	-	1	6	3	5	2	2	...
NOT REPORTED	3	-	-	-	-	-	3	-	...
NOT REPORTED	15	2	2	3	3	2	3	-	...
AIR CONDITIONING									
OWNER OCCUPIED	9 253	36	102	311	1 272	2 519	2 342	2 671	5.7
WITH AIR CONDITIONING	3 411	11	36	113	455	958	895	943	5.6
ROOM UNITS	1 207	5	17	58	201	389	269	269	5.3
1	953	5	13	48	158	320	207	202	5.3
2	215	-	2	8	34	60	58	53	5.5
3	26	-	2	2	4	7	3	8	...
4	8	-	-	-	2	2	-	5	...
5 OR MORE	5	-	-	-	3	-	1	1	...
CENTRAL SYSTEM	2 204	6	19	56	254	569	626	674	5.8
WITH NO AIR CONDITIONING	5 842	25	66	197	817	1 561	1 447	1 729	5.7
RENTER OCCUPIED	6 047	378	567	1 432	2 000	971	432	265	3.8
WITH AIR CONDITIONING	1 801	59	128	434	694	271	144	71	3.9
ROOM UNITS	986	36	85	259	373	139	65	29	3.8
1	898	36	80	242	339	125	58	18	3.8
2	76	-	5	14	27	14	5	11	4.2
3	11	-	-	3	5	1	1	1	...
4	1	-	-	-	1	-	-	-	...
5 OR MORE	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	815	23	43	175	322	132	79	41	4.0
WITH NO AIR CONDITIONING	4 246	320	439	998	1 306	700	289	194	3.8
ALL OCCUPIED HOUSING UNITS	15 299	415	669	1 743	3 272	3 490	2 774	2 936	4.9
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 983	66	189	542	1 729	2 972	2 620	2 867	5.5
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	8 776	27	93	258	1 104	2 383	2 274	2 637	5.7
ALL WINDOWS COVERED	1 828	5	11	55	275	446	399	637	5.8
SOME WINDOWS COVERED	799	-	6	11	119	207	183	273	5.8
NO WINDOWS COVERED	6 097	21	75	187	704	1 714	1 682	1 714	5.7
NOT REPORTED	52	2	1	5	7	16	10	12	5.2
RENTER OCCUPIED	2 208	39	96	284	624	589	346	230	4.6
ALL WINDOWS COVERED	277	-	10	25	71	80	49	42	4.9
SOME WINDOWS COVERED	141	1	8	11	37	29	29	27	5.0
NO WINDOWS COVERED	1 669	29	78	202	493	449	258	160	4.6
NOT REPORTED	121	9	-	45	24	31	10	2	3.7

[1]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: 1979--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									
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED									
STORM DOORS									
OWNER OCCUPIED	8 776	27	93	258	1 104	2 383	2 274	2 637	5.7
ALL DOORS COVERED	1 228	2	11	31	159	314	271	441	5.9
SOME DOORS COVERED	862	-	6	11	134	211	197	303	5.8
NO DOORS COVERED	6 636	24	77	211	805	1 844	1 796	1 880	5.7
NOT REPORTED	50	2	-	5	7	15	10	12	5.3
RENTER OCCUPIED	2 208	39	96	284	624	589	346	230	4.6
ALL DOORS COVERED	160	-	6	15	41	45	23	29	4.9
SOME DOORS COVERED	104	-	2	3	26	33	12	28	5.1
NO DOORS COVERED	1 823	30	88	220	533	480	301	171	4.6
NOT REPORTED	121	9	-	45	24	31	10	2	3.7
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	8 776	27	93	258	1 104	2 383	2 274	2 637	5.7
YES	6 933	16	70	187	807	1 792	1 810	2 251	5.8
NO	1 410	8	19	52	213	451	384	283	5.4
DON'T KNOW	379	1	4	14	76	126	71	88	5.3
NOT REPORTED	53	2	-	5	9	14	9	15	5.3
RENTER OCCUPIED	2 208	39	96	284	624	589	346	230	4.6
YES	865	8	32	73	216	234	162	139	4.9
NO	619	13	34	98	180	159	89	47	4.4
DON'T KNOW	604	8	29	67	204	165	87	42	4.5
NOT REPORTED	120	9	-	45	24	32	8	2	3.7

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979

(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	15 299	4 013	11 286	3 700	3 021	1 580	2 985
HOUSE HEATING FUEL							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
UTILITY GAS	6 426	1 574	4 852	1 600	1 521	681	1 050
BOTTLED, TANK, OR LP GAS	311	136	175	87	29	21	37
FUEL OIL	505	33	472	68	168	72	164
KEROSENE, ETC	1	-	1	-	-	-	1
ELECTRICITY	1 665	857	808	356	223	98	130
COAL OR COKE	12	1	11	-	4	-	7
WOOD	168	32	136	25	31	20	59
SOLAR HEAT	2	-	2	-	2	-	-
OTHER FUEL	1	-	1	-	-	-	1
NONE	162	44	118	46	36	14	22
RENTER OCCUPIED	6 047	1 334	4 712	1 518	1 006	673	1 515
UTILITY GAS	3 856	615	3 241	968	787	515	971
BOTTLED, TANK, OR LP GAS	137	13	124	27	25	19	53
FUEL OIL	231	14	216	24	39	24	130
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 532	649	883	458	121	79	224
COAL OR COKE	7	-	7	-	-	-	7
WOOD	77	4	73	8	8	9	48
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	30	3	27	-	2	-	25
NONE	178	36	142	33	25	27	57
WATER HEATING FUEL							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
NO HOT PIPED WATER	16	2	14	5	3	3	3
WITH HOT PIPED WATER	9 237	2 677	6 560	2 178	2 012	903	1 467
FUEL USED:							
UTILITY GAS	6 158	1 567	4 591	1 540	1 461	650	940
BOTTLED, TANK, OR LP GAS	287	128	160	75	30	21	33
FUEL OIL	16	3	13	3	8	-	2
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	2 750	971	1 780	548	511	232	488
COAL OR COKE	2	-	2	-	-	-	2
WOOD	3	1	2	-	-	-	2
SOLAR HEAT	17	7	10	8	2	-	-
OTHER FUEL	3	-	3	3	-	-	1
NONE	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	1 334	4 712	1 518	1 006	673	1 515
NO HOT PIPED WATER	24	-	24	1	2	7	14
WITH HOT PIPED WATER	6 023	1 334	4 689	1 517	1 004	667	1 501
FUEL USED:							
UTILITY GAS	3 991	726	3 264	1 010	767	501	986
BOTTLED, TANK, OR LP GAS	110	14	96	21	12	19	44
FUEL OIL	28	-	28	-	3	3	22
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	1 843	587	1 255	473	217	143	422
COAL OR COKE	3	-	3	-	-	-	3
WOOD	1	-	1	-	-	-	1
SOLAR HEAT	1	1	-	-	-	-	-
OTHER FUEL	38	2	36	11	5	-	19
NONE	7	3	4	2	-	-	2
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
UTILITY GAS	3 409	635	2 775	712	878	467	717
BOTTLED, TANK, OR LP GAS	289	111	177	84	38	21	34
FUEL OIL	3	-	3	2	2	-	-
KEROSENE, ETC	2	2	-	-	-	-	-
ELECTRICITY	5 531	1 927	3 604	1 384	1 095	417	708
COAL OR COKE	2	-	2	-	-	-	2
WOOD	14	2	12	-	2	2	9
OTHER FUEL	3	2	1	-	-	-	1
NONE	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	1 334	4 712	1 518	1 006	673	1 515
UTILITY GAS	2 849	328	2 522	622	612	454	834
BOTTLED, TANK, OR LP GAS	115	10	105	25	18	20	41
FUEL OIL	1	-	1	-	-	-	1
KEROSENE, ETC	-	-	-	-	-	-	-
ELECTRICITY	3 009	996	2 013	869	369	196	580
COAL OR COKE	2	-	2	-	2	-	1
WOOD	10	-	10	1	2	2	6
OTHER FUEL	5	-	5	-	-	-	5
NONE	56	1	55	2	3	2	48

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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 ELECTRICITY							
SPECIFIED OWNER OCCUPIED[1]	7 559	1 882	5 677	1 717	1 875	842	1 243
LESS THAN $10	259	19	240	16	54	53	117
$10 TO $19	1 777	268	1 509	291	508	292	418
$20 TO $29	2 025	421	1 605	452	586	238	328
$30 TO $39	1 446	398	1 048	377	330	143	198
$40 TO $49	684	208	476	200	154	48	74
$50 TO $59	528	209	318	142	97	32	47
$60 TO $79	464	198	266	125	87	16	38
$80 TO $99	156	60	96	38	38	11	9
$100 TO $149	164	83	82	49	15	6	11
$150 OR MORE	50	17	33	25	5	2	1
NO ELECTRICITY USED	6	1	5	2	-	1	3
MEDIAN	28	35	26	32	26	23	22
SPECIFIED RENTER OCCUPIED[2]	5 967	1 327	4 640	1 508	998	659	1 475
LESS THAN $10	909	113	796	289	150	104	253
$10 TO $19	1 818	387	1 431	463	351	216	401
$20 TO $29	1 076	279	797	276	177	128	216
$30 TO $39	484	125	359	123	81	61	94
$40 TO $49	208	80	128	61	33	6	28
$50 TO $59	107	43	64	25	17	-	22
$60 TO $79	93	45	49	26	15	5	2
$80 TO $99	30	9	21	5	7	3	5
$100 TO $149	37	20	16	8	2	1	6
$150 OR MORE	16	4	11	2	5	2	3
INCLUDED IN RENT	1 168	214	954	227	158	134	434
NO ELECTRICITY USED	21	7	15	2	2	1	10
MEDIAN	17	22	17	17	17	17	16
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED[1]	7 559	1 882	5 677	1 717	1 875	842	1 243
LESS THAN $10	610	105	504	102	167	114	121
$10 TO $14	1 159	219	940	232	332	156	220
$15 TO $19	1 088	191	897	289	299	138	170
$20 TO $24	895	208	686	210	258	91	127
$25 TO $29	671	161	510	173	164	70	102
$30 TO $39	845	230	614	214	203	65	132
$40 TO $49	396	109	288	125	62	33	68
$50 TO $69	327	83	243	100	60	23	60
$70 TO $99	66	17	49	20	13	5	11
$100 OR MORE	30	2	27	10	4	1	12
NO GAS USED	1 473	555	918	244	310	145	219
MEDIAN	21	23	20	22	19	17	20
SPECIFIED RENTER OCCUPIED[2]	5 967	1 327	4 640	1 508	998	659	1 475
LESS THAN $10	1 323	203	1 120	391	272	177	281
$10 TO $14	745	105	640	199	159	115	166
$15 TO $19	420	51	369	96	110	57	106
$20 TO $24	314	65	248	73	56	41	78
$25 TO $29	121	21	100	28	21	16	34
$30 TO $39	168	21	147	12	34	24	77
$40 TO $49	59	6	53	12	5	4	32
$50 TO $69	31	7	24	3	5	2	14
$70 TO $99	11	-	11	1	2	-	8
$100 OR MORE	21	5	16	7	5	-	4
INCLUDED IN RENT	1 268	304	964	286	181	132	365
NO GAS USED	1 487	540	947	401	147	91	309
MEDIAN	12	11	12	10	12	11	13
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED[1]	7 559	1 882	5 677	1 717	1 875	842	1 243
LESS THAN $100	272	83	189	77	59	22	30
$100 TO $199	167	52	115	56	35	9	16
$200 TO $299	117	23	93	24	28	15	26
$300 TO $399	116	7	109	12	41	21	35
$400 TO $499	80	7	73	14	19	8	31
$500 TO $599	63	3	60	7	27	6	19
$600 TO $699	57	3	54	8	20	7	19
$700 TO $799	22	1	22	2	7	2	10
$800 OR MORE	44	2	42	12	16	3	11
FUELS NOT USED OR FREE	6 621	1 700	4 921	1 505	1 623	748	1 045
MEDIAN	225	115	278	152	309	298	376

[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: 1979--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							
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.--CONTINUED							
SPECIFIED RENTER OCCUPIED[1]	5 967	1 327	4 640	1 508	998	659	1 475
LESS THAN $100	77	28	48	4	12	9	24
$100 TO $199	44	11	33	5	7	7	13
$200 TO $299	20	1	19	2	3	5	8
$300 TO $399	24	2	21	2	4	3	12
$400 TO $499	21	-	21	1	8	5	8
$500 TO $599	16	-	16	2	5	3	6
$600 TO $699	1	-	1	-	1	-	-
$700 TO $799	-	-	-	-	-	-	-
$800 OR MORE	19	1	17	1	3	-	14
INCLUDED IN RENT	243	46	197	50	36	23	88
FUELS NOT USED OR FREE	5 503	1 237	4 266	1 442	918	604	1 303
MEDIAN	177	100-	240	...	295	...	264
ALL OCCUPIED HOUSING UNITS	15 299	4 013	11 286	3 700	3 021	1 580	2 985
HEATING EQUIPMENT							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
WARM-AIR FURNACE	5 883	2 077	3 806	1 639	1 172	348	647
HEAT PUMP	190	134	55	27	19	5	4
STEAM OR HOT WATER	232	66	166	61	40	9	56
BUILT-IN ELECTRIC UNITS	731	258	473	179	132	68	94
FLOOR, WALL, OR PIPELESS FURNACE	1 417	38	1 379	141	484	357	397
ROOM HEATERS WITH FLUE	287	13	275	29	63	49	133
ROOM HEATERS WITHOUT FLUE	52	-	52	9	8	15	20
FIREPLACES, STOVES, OR PORTABLE HEATERS	299	49	250	51	61	41	97
NONE	162	44	118	46	36	14	22
RENTER OCCUPIED	6 047	1 334	4 712	1 518	1 006	673	1 515
WARM-AIR FURNACE	1 794	678	1 116	501	246	134	234
HEAT PUMP	25	20	5	4	-	-	1
STEAM OR HOT WATER	364	56	308	60	21	13	214
BUILT-IN ELECTRIC UNITS	1 118	398	720	360	94	69	196
FLOOR, WALL, OR PIPELESS FURNACE	1 903	134	1 768	500	517	314	437
ROOM HEATERS WITH FLUE	418	5	413	38	61	73	240
ROOM HEATERS WITHOUT FLUE	79	-	79	6	21	16	36
FIREPLACES, STOVES, OR PORTABLE HEATERS	169	8	161	15	20	26	100
NONE	178	36	142	33	25	27	57
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
NO HEATING EQUIPMENT	162	44	118	46	36	14	22
WITH HEATING EQUIPMENT	9 091	2 635	6 456	2 136	1 979	892	1 448
NO THERMOSTAT CONTROL	903	59	844	112	248	181	303
WITH THERMOSTAT CONTROL	8 163	2 575	5 588	2 016	1 725	706	1 140
NOT CLOCK OPERATED	7 068	2 246	4 822	1 816	1 458	598	949
CONSTANT TEMPERATURE SETTING MAINTAINED	2 168	682	1 486	528	471	173	314
TEMPERATURE SETTING IS CHANGED	4 845	1 539	3 306	1 278	979	417	632
OCCASIONALLY	932	300	632	233	172	95	132
REGULARLY	3 871	1 223	2 648	1 038	796	319	495
DON'T KNOW	39	15	24	8	10	3	5
NOT REPORTED	2	1	2	-	2	-	-
NOT REPORTED	55	26	30	10	7	9	4
CLOCK OPERATED	1 093	327	766	201	267	108	191
NOT REPORTED	2	2	-	-	-	-	-
NOT REPORTED	25	1	24	8	6	5	5
RENTER OCCUPIED	6 047	1 334	4 712	1 518	1 006	673	1 515
NO HEATING EQUIPMENT	178	36	142	33	25	27	57
WITH HEATING EQUIPMENT	5 869	1 298	4 570	1 485	980	646	1 458
NO THERMOSTAT CONTROL	1 788	137	1 651	273	343	240	795
WITH THERMOSTAT CONTROL	4 069	1 157	2 912	1 212	635	402	663
NOT CLOCK OPERATED	3 615	1 027	2 588	1 080	566	352	591
CONSTANT TEMPERATURE SETTING MAINTAINED	1 292	365	927	427	202	117	180
TEMPERATURE SETTING IS CHANGED	2 233	634	1 599	623	352	228	396
OCCASIONALLY	632	193	439	194	91	52	102
REGULARLY	1 533	424	1 109	414	241	172	282
DON'T KNOW	65	16	49	13	20	3	12
NOT REPORTED	2	-	2	2	-	1	-
NOT REPORTED	90	28	62	30	11	6	15
CLOCK OPERATED	443	130	313	129	69	48	66
NOT REPORTED	10	-	10	3	-	2	5
NOT REPORTED	12	4	7	-	2	4	1

[1]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: 1979--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	15 299	4 013	11 286	3 700	3 021	1 580	2 985
UNITS OCCUPIED LAST WINTER	12 198	2 841	9 358	3 023	2 586	1 330	2 418
INSUFFICIENT HEAT							
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	8 328	2 174	6 154	2 028	1 895	860	1 372
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	2 092	5 759	1 934	1 791	795	1 239
NO ADDITIONAL HEAT SOURCE USED	7 233	1 976	5 257	1 806	1 656	708	1 087
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	536	97	440	91	129	80	140
NOT REPORTED	80	19	62	37	6	7	12
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	83	395	94	104	65	132
RENTER OCCUPIED	3 870	666	3 204	995	692	471	1 047
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	647	2 931	954	644	423	909
NO ADDITIONAL HEAT SOURCE USED	3 099	595	2 503	867	555	345	736
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	393	31	362	71	69	66	156
NOT REPORTED	87	21	66	16	20	13	18
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	19	273	41	47	48	137
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	8 328	2 174	6 154	2 028	1 895	860	1 372
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	2 092	5 759	1 934	1 791	795	1 239
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	5 820	1 990	3 831	1 662	1 200	371	598
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 967	90	1 877	239	586	419	633
1 ROOM	502	53	449	93	124	67	164
2 ROOMS	578	16	562	53	144	141	224
3 ROOMS OR MORE	887	21	867	92	318	211	246
NOT REPORTED	63	12	50	33	4	5	8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	83	395	94	104	65	132
RENTER OCCUPIED	3 870	666	3 204	995	692	471	1 047
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	647	2 931	954	644	423	909
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 072	555	1 518	596	302	166	454
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 421	73	1 348	346	322	245	435
1 ROOM	523	44	479	125	98	88	169
2 ROOMS	565	22	543	167	136	87	153
3 ROOMS OR MORE	333	8	325	54	88	70	113
NOT REPORTED	85	20	65	13	20	13	20
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	19	273	41	47	48	137
HOUSING UNIT UNCOMFORTABLY COLD:							
OWNER OCCUPIED	8 328	2 174	6 154	2 028	1 895	860	1 372
WITH SPECIFIED HEATING EQUIPMENT[1]	7 850	2 092	5 759	1 934	1 791	795	1 239
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	478	83	395	94	104	65	132
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	404	75	329	86	86	52	105
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	52	7	45	5	10	7	23
NOT REPORTED	22	-	22	4	8	5	5
RENTER OCCUPIED	3 870	666	3 204	995	692	471	1 047
WITH SPECIFIED HEATING EQUIPMENT[1]	3 578	647	2 931	954	644	423	909
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	292	19	273	41	47	48	137
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	254	19	235	37	40	44	114
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	26	-	26	4	5	3	15
NOT REPORTED	12	-	12	-	2	1	9

[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: 1979--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	15 299	4 013	11 286	3 700	3 021	1 580	2 985
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	460	93	367	96	97	55	119
WITH SELECTED HEATING EQUIPMENT[1]	8 793	2 586	6 207	2 086	1 918	852	1 351
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 382	2 481	5 901	1 998	1 812	817	1 274
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	366	95	271	66	97	35	73
SOLAR HEATING EQUIPMENT	7	1	7	1	4	-	2
STOVE, BURNING WOOD OR COAL	111	42	69	18	25	11	15
FIREPLACE, BURNING WOOD OR COAL	60	22	38	11	17	2	9
PORTABLE ELECTRIC HEATER	91	17	73	14	23	11	26
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	1	9	1	5	3	-
OTHER	82	11	71	20	23	8	20
NOT REPORTED	6	1	5	2	2	-	2
NOT REPORTED	45	11	35	22	9	-	4
RENTER OCCUPIED	6 047	1 334	4 712	1 518	1 006	673	1 515
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	346	43	303	47	46	53	157
WITH SELECTED HEATING EQUIPMENT[1]	5 700	1 291	4 409	1 471	960	620	1 358
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 529	1 268	4 261	1 443	927	593	1 298
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	155	16	140	26	30	25	59
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	13	3	10	2	2	2	3
FIREPLACE, BURNING WOOD OR COAL	5	-	5	-	2	-	3
PORTABLE ELECTRIC HEATER	110	6	104	21	25	17	41
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	8	3	5	-	-	3	2
OTHER	18	2	16	2	2	2	10
NOT REPORTED	3	2	2	-	-	-	2
NOT REPORTED	15	7	8	2	3	2	2
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	105	694	135	168	119	272
WITH SELECTED HEATING EQUIPMENT[2]	8 453	2 574	5 879	2 048	1 847	787	1 198
LESS THAN 4 YEARS	1 587	1 099	488	108	190	74	116
4 TO 9 YEARS	2 224	1 402	822	274	229	136	183
10 TO 19 YEARS	2 319	47	2 272	1 481	351	155	285
20 TO 39 YEARS	1 708	1	1 706	106	962	336	303
40 YEARS OR MORE	195	1	194	-	2	25	167
DON'T KNOW	339	9	330	51	106	54	120
NOT REPORTED	80	14	67	29	7	8	23
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	105	694	135	168	119	272
WITH SELECTED HEATING EQUIPMENT[2]	8 453	2 574	5 879	2 048	1 847	787	1 198
NO MAINTENANCE OR MODIFICATION	7 119	2 260	4 859	1 689	1 507	666	997
WITH MAINTENANCE OR MODIFICATION	1 267	301	966	331	335	115	185
NOT REPORTED	68	13	54	29	4	5	16
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	800	105	694	135	168	119	272
WITH SELECTED HEATING EQUIPMENT[2]	8 453	2 574	5 879	2 048	1 847	787	1 198
NO MAINTENANCE CONTRACT	7 942	2 394	5 547	1 945	1 736	739	1 128
WITH MAINTENANCE CONTRACT	440	165	275	73	106	43	53
NOT REPORTED	72	14	57	30	5	5	18

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]EXCLUDES ROOM HEATERS WITH OR 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: 1979--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 SOLAR WATER HEATING EQUIPMENT							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
NO HOT PIPED WATER	16	2	14	5	3	3	3
WITH HOT PIPED WATER	9 237	2 677	6 560	2 178	2 012	903	1 467
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 020	2 613	6 408	2 112	1 968	891	1 436
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	72	25	48	21	17	5	5
NOT REPORTED	127	32	95	37	26	6	26
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	6 047	1 334	4 712	1 518	1 006	673	1 515
NO HOT PIPED WATER	24	-	24	1	2	7	14
WITH HOT PIPED WATER	6 023	1 334	4 689	1 517	1 004	667	1 501
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 840	1 299	4 541	1 473	978	646	1 443
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	22	2	19	7	6	2	5
NOT REPORTED	153	28	125	35	21	18	50
NOT REPORTED	-	-	-	-	-	-	-
AIR CONDITIONING							
OWNER OCCUPIED	9 253	2 679	6 574	2 182	2 015	906	1 470
WITH AIR CONDITIONING	3 411	1 261	2 150	831	737	261	321
ROOM UNITS	1 207	154	1 052	248	404	165	236
1	953	124	829	207	321	112	189
2	215	25	190	36	75	45	33
3	26	5	21	1	6	7	8
4	8	-	8	-	3	1	4
5 OR MORE	5	1	4	3	-	-	1
CENTRAL SYSTEM	2 204	1 106	1 098	584	333	96	85
WITH NO AIR CONDITIONING	5 842	1 418	4 424	1 351	1 278	645	1 149
RENTER OCCUPIED	6 047	1 334	4 712	1 518	1 006	673	1 515
WITH AIR CONDITIONING	1 801	753	1 048	537	229	110	171
ROOM UNITS	986	248	737	339	171	88	140
1	898	229	669	299	162	80	128
2	76	13	63	39	7	6	10
3	11	5	6	-	2	2	1
4	1	1	-	-	-	-	-
5 OR MORE	-	-	-	-	-	-	-
CENTRAL SYSTEM	815	504	311	198	58	22	32
WITH NO AIR CONDITIONING	4 246	581	3 665	981	777	563	1 344
ALL OCCUPIED HOUSING UNITS	15 299	4 013	11 286	3 700	3 021	1 580	2 985
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 983	2 765	8 219	2 465	2 441	1 262	2 051
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	8 776	2 455	6 321	2 079	1 986	887	1 369
ALL WINDOWS COVERED	1 828	801	1 027	333	295	146	253
SOME WINDOWS COVERED	799	182	617	184	156	83	194
NO WINDOWS COVERED	6 097	1 462	4 635	1 547	1 524	655	908
NOT REPORTED	52	10	42	15	10	3	14
RENTER OCCUPIED	2 208	309	1 898	386	455	375	682
ALL WINDOWS COVERED	277	57	220	48	48	36	88
SOME WINDOWS COVERED	141	22	119	25	27	15	52
NO WINDOWS COVERED	1 669	210	1 459	293	355	309	502
NOT REPORTED	121	20	101	21	25	15	40
STORM DOORS							
OWNER OCCUPIED	8 776	2 455	6 321	2 079	1 986	887	1 369
ALL DOORS COVERED	1 228	302	927	233	293	151	251
SOME DOORS COVERED	862	275	587	202	190	55	139
NO DOORS COVERED	6 636	1 869	4 767	1 629	1 493	678	967
NOT REPORTED	50	10	40	15	10	3	12
RENTER OCCUPIED	2 208	309	1 898	386	455	375	682
ALL DOORS COVERED	160	23	136	24	29	21	63
SOME DOORS COVERED	104	12	92	22	26	14	30
NO DOORS COVERED	1 823	254	1 569	319	376	325	549
NOT REPORTED	121	20	101	21	25	15	40

[1]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: 1979--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							
ATTIC OR ROOF INSULATION							
OWNER OCCUPIED							
YES	8 776	2 455	6 321	2 079	1 986	887	1 369
NO	6 933	2 230	4 703	1 766	1 520	609	807
DON'T KNOW	1 410	119	1 291	225	371	221	474
NOT REPORTED	379	96	284	72	83	53	75
	53	11	43	15	12	3	13
RENTER OCCUPIED							
YES	2 208	309	1 898	386	455	375	682
NO	865	192	673	178	181	113	202
DON'T KNOW	619	24	595	76	121	130	268
NOT REPORTED	604	74	530	112	128	117	173
	120	20	100	21	25	15	40
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	8 776	2 455	6 321	2 079	1 986	887	1 369
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	6 097	1 462	4 635	1 547	1 524	655	908
SOME OR ALL WINDOWS COVERED	2 627	983	1 644	517	451	229	447
NONE ADDED OR INSTALLED	2 104	837	1 267	397	349	165	357
SOME OR ALL ADDED OR INSTALLED	487	130	357	109	97	62	89
NOT REPORTED	36	15	20	11	6	2	2
NOT REPORTED	52	10	42	15	10	3	14
STORM DOORS:							
NO DOORS COVERED	6 636	1 869	4 767	1 629	1 493	678	967
SOME OR ALL DOORS COVERED	2 090	577	1 513	435	483	206	390
NONE ADDED OR INSTALLED	1 807	484	1 322	369	423	175	356
SOME OR ALL ADDED OR INSTALLED	207	63	144	50	46	22	26
NOT REPORTED	76	29	47	16	14	9	8
NOT REPORTED	50	10	40	15	10	3	12
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	1 410	119	1 291	225	371	221	474
WITH ATTIC OR ROOF INSULATION	6 933	2 230	4 703	1 766	1 520	609	807
NONE ADDED OR INSTALLED	6 235	2 001	4 233	1 624	1 359	537	714
SOME OR ALL ADDED OR INSTALLED	589	177	411	122	139	68	82
LESS THAN 3 INCHES ADDED	54	23	30	15	11	2	3
3 TO 6 INCHES ADDED	253	70	184	38	76	26	43
6 INCHES OR MORE ADDED	207	56	150	53	42	33	22
DON'T KNOW	54	21	32	11	5	7	9
NOT REPORTED	22	7	15	6	5	-	4
NOT REPORTED	110	51	59	20	22	5	11
DON'T KNOW	379	96	284	72	83	53	75
NOT REPORTED	53	11	43	15	12	3	13
WALL INSULATION:							
NONE ADDED OR INSTALLED	8 295	2 294	6 001	1 974	1 902	842	1 282
SOME OR ALL ADDED OR INSTALLED	412	148	265	81	72	40	72
NOT REPORTED	69	14	55	24	12	5	14
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	7 346	2 033	5 313	1 721	1 660	763	1 169
SOME OR ALL ADDED OR INSTALLED	1 299	384	914	322	304	115	174
DON'T KNOW	79	27	53	21	12	6	14
NOT REPORTED	51	11	40	15	10	3	12
OTHER INSULATION:							
NONE ADDED OR INSTALLED	8 285	2 285	5 999	1 954	1 885	850	1 310
SOME OR ALL ADDED OR INSTALLED	413	150	263	99	87	30	47
NOT REPORTED	78	20	58	26	13	7	12

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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	2 208	309	1 898	386	455	375	682
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	1 669	210	1 459	293	355	309	502
SOME OR ALL WINDOWS COVERED	418	80	338	73	75	51	140
NONE ADDED OR INSTALLED	336	70	266	58	59	37	113
SOME OR ALL ADDED OR INSTALLED	72	9	63	12	13	12	25
NOT REPORTED	10	1	10	3	3	2	2
NOT REPORTED	121	20	101	21	25	15	40
STORM DOORS:							
NO DOORS COVERED	1 823	254	1 569	319	376	325	549
SOME OR ALL DOORS COVERED	264	35	228	46	55	35	93
NONE ADDED OR INSTALLED	230	26	203	44	46	30	83
SOME OR ALL ADDED OR INSTALLED	22	7	15	1	6	2	8
NOT REPORTED	12	2	10	1	3	3	2
NOT REPORTED	121	20	101	21	25	15	40
ATTIC OR ROOF INSULATION:						...	
NO ATTIC OR ROOF INSULATION	619	24	595	76	121	130	268
WITH ATTIC OR ROOF INSULATION	865	192	673	178	181	113	202
NONE ADDED OR INSTALLED	770	175	595	162	163	91	179
SOME OR ALL ADDED OR INSTALLED	69	13	56	9	11	14	22
LESS THAN 3 INCHES ADDED	1	-	1	-	-	-	1
3 TO 6 INCHES ADDED	24	4	20	2	4	6	9
6 INCHES OR MORE ADDED	21	2	19	4	2	5	8
DON'T KNOW	22	6	15	3	5	4	4
NOT REPORTED	-	-	-	-	-	-	-
NOT REPORTED	27	4	22	7	7	7	2
DON'T KNOW	604	74	530	112	128	117	173
NOT REPORTED	120	20	100	21	25	15	40
WALL INSULATION:							
NONE ADDED OR INSTALLED	2 003	274	1 730	352	415	349	613
SOME OR ALL ADDED OR INSTALLED	43	8	35	4	5	5	21
NOT REPORTED	162	28	133	30	34	21	48
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	1 758	249	1 509	307	358	306	538
SOME OR ALL ADDED OR INSTALLED	144	15	128	13	33	27	56
DON'T KNOW	185	25	159	46	39	23	51
NOT REPORTED	122	20	102	21	25	18	37
OTHER INSULATION:							
NONE ADDED OR INSTALLED	1 998	276	1 723	345	415	348	615
SOME OR ALL ADDED OR INSTALLED	50	6	44	16	6	6	16
NOT REPORTED	159	28	131	25	34	21	51
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	8 776	2 455	6 321	2 079	1 986	887	1 369
NO INSULATION ADDED OR INSTALLED	6 428	1 757	4 671	1 510	1 472	663	1 026
WITH INSULATION ADDED OR INSTALLED	2 057	593	1 464	497	463	205	300
LESS THAN $50	854	250	604	221	188	69	126
$50 TO $99	221	61	161	57	49	19	36
$100 TO $199	193	59	134	39	55	14	27
$200 TO $399	213	45	168	52	50	35	31
$400 OR MORE	362	107	255	82	89	40	44
DON'T KNOW	95	34	61	21	12	12	17
NOT REPORTED	119	39	81	26	20	17	19
MEDIAN	65	59	67	54	78	105	58
NOT REPORTED OR DON'T KNOW	290	105	185	72	51	19	43
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	198	48	150	46	42	18	44
LESS THAN $50	61	11	50	14	8	6	21
$50 TO $99	31	4	27	15	4	3	5
$100 TO $199	26	10	16	3	7	1	6
$200 TO $399	18	7	12	2	4	3	2
$400 OR MORE	46	12	35	10	16	2	6
DON'T KNOW	5	3	2	-	-	-	2
NOT REPORTED	10	2	9	2	2	2	2
MEDIAN	98	167	86	77	208	...	50-

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1979--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							
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED							
ONLY ADDED OR INSTALLED STORM DOORS	78	23	55	21	16	9	9
LESS THAN $50	19	4	15	6	7	2	-
$50 TO $99	23	10	13	3	1	2	7
$100 TO $199	16	4	12	6	5	1	-
$200 TO $399	7	1	6	1	3	2	-
$400 OR MORE	-	-	-	-	-	-	-
DON'T KNOW	1	-	1	1	-	-	-
NOT REPORTED	12	4	8	5	-	2	2
MEDIAN	79	...	80	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	391	107	284	87	85	52	60
LESS THAN $50	42	21	21	5	7	4	4
$50 TO $99	49	11	38	14	15	1	8
$100 TO $199	47	16	31	5	13	6	7
$200 TO $399	92	17	75	22	20	15	17
$400 OR MORE	79	17	62	18	17	14	13
DON'T KNOW	40	8	32	13	7	6	5
NOT REPORTED	43	17	26	9	5	7	5
MEDIAN	235	155	262	274	206	320	261

TABLE E-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979

(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]	7 559	259	1 777	2 025	1 446	684	528	464	156	164	50	6	28
HOUSE HEATING FUEL													
ELECTRICITY	1 199	10	106	186	230	138	153	195	70	87	25	-	44
OTHER THAN ELECTRICITY	6 244	247	1 661	1 823	1 203	519	350	255	78	77	25	6	26
UTILITY GAS	5 559	219	1 458	1 629	1 069	470	323	227	70	69	21	3	26
BOTTLED, TANK, OR LP GAS	136	4	27	27	28	13	12	15	5	4	1	1	33
FUEL OIL	431	17	144	134	82	24	11	10	1	4	3	2	24
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-
COAL OR COKE	5	-	2	2	-	-	2	-	-	-	-	-	...
WOOD	110	6	30	31	22	12	3	4	2	-	-	-	26
SOLAR HEAT	2	-	-	-	2	-	-	-	-	-	-	-	...
OTHER FUEL	1	-	-	-	1	-	-	-	-	-	-	-	...
NONE	116	2	10	17	14	27	25	14	8	1	-	-	45
WATER HEATING FUEL[3]													
ELECTRICITY	2 060	35	351	449	393	219	205	234	75	75	25	-	34
OTHER FUEL	5 490	223	1 423	1 572	1 054	465	323	230	81	89	25	6	26
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL													
ELECTRICITY	4 637	82	900	1 237	962	453	374	349	114	122	45	-	31
OTHER FUEL	2 922	177	877	788	484	231	154	115	41	43	5	6	25
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	986	10	73	148	189	113	136	174	59	65	20	-	46
ALL OTHER FUEL COMBINATIONS OR NONE	6 572	249	1 704	1 877	1 257	571	392	290	97	99	30	6	26
HEATING EQUIPMENT													
WARM-AIR FURNACE	4 800	120	1 018	1 362	976	423	346	310	97	112	35	2	28
HEAT PUMP	154	-	-	10	15	12	30	36	15	29	8	-	66
STEAM OR HOT WATER	192	5	39	46	56	17	16	7	1	5	-	-	31
BUILT-IN ELECTRIC UNITS	537	4	64	101	127	74	65	65	20	13	4	-	37
FLOOR, WALL, OR PIPELESS FURNACE	1 289	86	490	374	177	100	30	20	7	2	1	3	22
ROOM HEATERS WITH FLUE	219	28	87	46	38	9	3	3	2	2	-	1	18
ROOM HEATERS WITHOUT FLUE	43	4	12	13	6	2	4	-	2	-	-	-	24
FIREPLACES, STOVES, OR PORTABLE HEATERS	207	10	57	58	38	20	9	9	5	-	2	-	26
NONE	116	2	10	17	14	27	25	14	8	1	-	-	45
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	116	2	10	17	14	27	25	14	8	1	-	-	45
WITH HEATING EQUIPMENT	7 442	257	1 767	2 009	1 433	658	503	450	148	163	50	6	28
NO THERMOSTAT CONTROL	736	52	238	207	117	59	28	24	9	2	-	2	23
WITH THERMOSTAT CONTROL	6 686	202	1 524	1 791	1 314	599	475	426	138	162	50	4	28
NOT CLOCK OPERATED	5 767	179	1 312	1 576	1 114	517	392	375	124	132	45	1	28
CONSTANT TEMPERATURE SETTING MAINTAINED	1 790	61	372	452	350	160	134	144	56	46	13	1	30
TEMPERATURE SETTING IS CHANGED	3 936	115	930	1 114	760	355	255	227	66	83	31	-	27
OCCASIONALLY	774	24	142	203	155	79	55	61	22	27	7	-	31
REGULARLY	3 133	90	782	904	601	274	196	164	43	55	24	-	27
DON'T KNOW	27	2	6	4	3	2	4	2	2	1	-	-	...
NOT REPORTED	2	-	-	2	-	-	-	-	-	-	-	-	...
NOT REPORTED	41	2	10	10	5	2	3	3	2	2	2	-	27
CLOCK OPERATED	917	23	212	213	200	82	83	51	15	30	5	3	30
NOT REPORTED	2	-	-	2	-	-	-	-	-	-	-	-	...
NOT REPORTED	21	3	5	10	2	-	-	-	1	-	-	-	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	324	12	67	75	51	47	34	23	13	1	2	-	32
WITH SELECTED HEATING EQUIPMENT[4]	7 235	247	1 710	1 951	1 395	638	494	441	143	163	48	6	28
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 908	237	1 635	1 860	1 324	604	478	421	137	160	47	6	28
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	298	10	68	80	66	33	16	14	7	3	1	-	28
SOLAR HEATING EQUIPMENT	4	-	-	-	3	-	-	1	-	-	-	-	...
STOVE, BURNING WOOD OR COAL	85	1	18	23	26	6	4	6	1	-	-	-	30
FIREPLACE, BURNING WOOD OR COAL	53	1	10	11	9	7	6	6	2	1	-	-	35
PORTABLE ELECTRIC HEATER	76	7	23	26	10	6	-	1	3	-	-	-	23
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	-	2	6	-	2	-	-	-	-	-	-	...
OTHER	68	-	16	16	17	10	5	-	1	2	1	-	31
NOT REPORTED	4	2	-	-	1	2	-	-	-	-	-	-	...
NOT REPORTED	30	-	6	11	5	1	1	6	-	-	-	-	...
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	44	166	134	95	58	41	26	16	3	2	1	26
WITH SELECTED HEATING EQUIPMENT[5]	6 972	214	1 611	1 891	1 351	627	487	438	139	161	48	5	28
LESS THAN 4 YEARS	1 301	34	212	324	242	107	145	122	40	61	12	2	33
4 TO 9 YEARS	1 623	30	302	381	344	168	139	142	47	54	15	1	33
10 TO 19 YEARS	1 924	49	401	534	407	201	131	116	33	33	19	1	29
20 TO 39 YEARS	1 592	66	528	525	264	97	51	39	13	7	1	1	23
40 YEARS OR MORE	174	20	72	30	25	16	7	3	-	-	-	-	18
DON'T KNOW	305	12	85	84	61	34	8	8	7	5	-	-	26
NOT REPORTED	53	4	10	14	6	4	5	8	-	2	-	-	28

[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 HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE E-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	44	166	134	95	58	41	26	16	3	2	1	26
WITH SELECTED HEATING EQUIPMENT[3]	6 972	214	1 611	1 891	1 351	627	487	438	139	161	48	5	28
NO MAINTENANCE OR MODIFICATION	5 863	182	1 364	1 583	1 126	520	422	354	122	147	40	3	28
WITH MAINTENANCE OR MODIFICATION	1 069	31	239	295	216	103	63	81	18	14	7	2	28
NOT REPORTED	40	2	7	13	9	4	2	4	-	-	-	-	27
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	44	166	134	95	58	41	26	16	3	2	1	26
WITH SELECTED HEATING EQUIPMENT[3]	6 972	214	1 611	1 891	1 351	627	487	438	139	161	48	5	28
NO MAINTENANCE CONTRACT	6 550	201	1 517	1 792	1 273	597	437	409	128	147	44	5	28
WITH MAINTENANCE CONTRACT	378	12	86	83	73	27	45	25	10	13	3	-	31
NOT REPORTED	43	2	8	16	5	2	5	4	2	1	-	-	27
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	8	1	3	5	-	-	-	-	-	-	-	-	...
WITH HOT PIPED WATER	7 550	258	1 774	2 021	1 446	684	528	464	156	164	50	6	28
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 373	251	1 745	1 982	1 393	666	515	456	148	162	50	6	28
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	65	-	13	13	23	10	3	2	2	-	-	-	33
NOT REPORTED	95	7	16	22	25	7	7	6	5	-	-	-	31
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	2 680	35	359	631	508	288	295	283	108	135	35	3	36
ROOM UNITS	972	24	228	328	197	99	48	31	10	3	2	2	26
1	769	20	190	260	149	81	38	19	6	3	2	2	26
2	176	4	31	60	41	17	9	12	3	-	-	-	28
3	20	-	3	9	5	2	-	-	1	-	-	-	...
4	7	-	3	-	2	-	2	-	-	-	-	-	...
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	1 708	12	131	303	312	189	247	252	98	132	33	1	45
WITH NO AIR CONDITIONING	4 878	223	1 418	1 394	938	396	232	181	48	29	16	3	25
PERSONS													
1 PERSON	980	128	360	246	119	42	36	31	7	6	2	2	20
2 PERSONS	2 445	83	722	715	403	172	139	117	38	34	20	2	25
3 PERSONS	1 409	17	322	358	310	130	96	109	32	31	3	-	30
4 PERSONS	1 497	16	224	423	314	168	144	108	37	52	11	1	32
5 PERSONS	723	10	95	207	178	83	61	45	18	19	7	1	33
6 PERSONS	331	5	40	50	86	54	29	28	16	17	5	-	37
7 PERSONS OR MORE	175	1	13	26	37	35	24	26	8	4	2	-	43
MEDIAN	2.8	1.5	2.2	2.6	3.1	3.5	3.4	3.3	3.5	3.7	3.3	...	...
SPECIFIED OWNER OCCUPIED[2]	7 559	259	1 777	2 025	1 446	684	528	464	156	164	50	6	28
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 559	259	1 777	2 025	1 446	684	528	464	156	164	50	6	28
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 433	47	315	383	276	122	108	101	37	30	12	2	28
SOME WINDOWS COVERED	684	19	144	180	154	56	42	47	12	26	3	1	29
NO WINDOWS COVERED	5 400	187	1 304	1 451	1 013	502	377	313	107	108	34	3	27
NOT REPORTED	41	5	14	11	3	3	-	3	-	-	1	-	21
STORM DOORS													
ALL DOORS COVERED	1 033	42	267	322	209	67	53	39	17	12	3	2	26
SOME DOORS COVERED	705	19	155	208	171	62	40	30	11	6	3	-	28
NO DOORS COVERED	5 782	193	1 343	1 485	1 063	552	434	392	128	147	43	4	28
NOT REPORTED	39	5	12	11	3	3	-	3	-	-	1	-	22
ATTIC OR ROOF INSULATION													
YES	5 932	143	1 280	1 577	1 217	543	450	393	124	153	47	5	29
NO	1 293	100	406	332	189	116	64	54	22	7	1	1	24
DON'T KNOW	293	11	78	107	38	19	11	14	10	3	2	-	25
NOT REPORTED	42	5	12	9	3	6	2	3	-	-	1	-	23
SPECIFIED RENTER OCCUPIED[5]	5 967	909	1 818	1 076	484	208	107	93	30	37	16	1 189	17
HOUSE HEATING FUEL													
ELECTRICITY	1 515	146	375	274	185	106	63	50	15	28	3	270	23
OTHER THAN ELECTRICITY	4 274	749	1 421	773	284	90	38	35	15	8	13	849	16
UTILITY GAS	3 841	686	1 335	719	246	81	34	34	15	7	11	676	16
BOTTLED, TANK, OR LP GAS	114	9	24	18	6	5	1	1	-	-	-	50	19
FUEL OIL	225	39	43	26	24	1	2	-	-	-	-	89	16
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-
COAL OR COKE	6	3	-	-	1	-	-	-	-	-	2	-	...
WOOD	60	9	17	12	6	3	1	1	-	1	-	10	18
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	29	3	1	-	-	-	-	-	-	-	-	24	...
NONE	178	14	22	29	15	11	7	8	1	1	-	70	25

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
WATER HEATING FUEL[3]													
ELECTRICITY	1 797	138	415	339	220	116	71	62	19	30	5	382	24
OTHER FUEL	4 143	769	1 400	733	264	92	36	31	11	7	11	789	16
NONE	6	-	2	1	-	-	-	-	-	-	-	3	...
COOKING FUEL													
ELECTRICITY	2 953	404	773	561	298	150	80	75	22	34	13	543	20
OTHER FUEL	2 960	505	1 044	514	187	58	28	18	9	2	3	592	16
NONE	55	-	1	-	-	-	-	-	-	-	-	54	...
ALL ELECTRIC HOUSING UNITS													
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	1 163	75	270	214	156	91	56	47	13	26	3	211	26
ALL OTHER FUEL COMBINATIONS OR NONE	4 804	834	1 548	862	328	116	51	46	17	10	13	979	16
HEATING EQUIPMENT													
WARM-AIR FURNACE	1 769	170	514	347	194	85	46	48	17	25	6	317	21
HEAT PUMP	24	-	3	3	4	-	1	3	1	3	1	5	...
STEAM OR HOT WATER	362	94	47	19	8	2	1	1	-	-	2	188	10-
BUILT-IN ELECTRIC UNITS	1 109	120	299	231	132	62	36	24	8	6	2	189	22
FLOOR, WALL, OR PIPELESS FURNACE	1 895	411	752	338	82	32	10	8	3	1	5	255	15
ROOM HEATERS WITH FLUE	408	78	117	63	30	5	4	-	-	-	-	111	15
ROOM HEATERS WITHOUT FLUE	77	5	30	21	5	2	1	-	-	-	-	13	18
FIREPLACES, STOVES, OR PORTABLE HEATERS	144	16	34	24	14	9	2	2	-	1	-	42	20
NONE	178	14	22	29	15	11	7	8	1	1	-	70	25
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	178	14	22	29	15	11	7	8	1	1	-	70	25
WITH HEATING EQUIPMENT	5 789	895	1 796	1 047	469	196	100	86	29	36	16	1 119	17
NO THERMOSTAT CONTROL	1 750	334	513	264	99	34	11	15	4	2	3	471	15
WITH THERMOSTAT CONTROL	4 028	558	1 279	782	370	161	89	71	26	34	13	644	18
NOT CLOCK OPERATED	3 575	511	1 146	678	314	144	77	68	25	30	11	571	18
CONSTANT TEMPERATURE SETTING MAINTAINED	1 277	210	425	214	112	43	21	26	6	9	1	211	17
TEMPERATURE SETTING IS CHANGED	2 208	292	681	450	194	98	56	40	19	19	8	349	18
OCCASIONALLY	625	84	198	137	39	41	13	8	9	5	2	90	18
REGULARLY	1 515	195	460	300	155	55	41	29	10	14	6	250	19
DON'T KNOW	65	13	23	12	1	2	3	3	-	-	-	9	16
NOT REPORTED	2	-	-	2	-	1	-	-	-	-	-	-	...
NOT REPORTED	90	10	40	14	8	3	-	1	-	1	2	11	17
CLOCK OPERATED	442	47	132	103	57	17	12	2	1	5	1	66	21
NOT REPORTED	10	-	2	2	-	-	-	1	-	-	-	6	...
NOT REPORTED	12	2	3	1	-	1	-	-	-	-	-	4	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	322	31	56	53	29	20	9	9	1	1	-	112	23
WITH SELECTED HEATING EQUIPMENT[4]	5 645	878	1 762	1 022	456	188	98	84	29	35	16	1 077	17
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 478	840	1 728	988	438	177	92	83	29	34	16	1 054	17
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	153	35	30	34	17	8	6	1	1	-	-	22	20
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	12	2	5	1	2	1	1	-	-	-	-	-	...
FIREPLACE, BURNING WOOD OR COAL	4	2	2	-	-	1	-	-	-	-	-	-	...
PORTABLE ELECTRIC HEATER	109	25	23	28	11	2	4	-	1	-	-	14	19
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	8	2	-	3	-	-	-	-	-	-	-	3	...
OTHER	18	5	2	2	2	3	-	1	-	-	-	4	...
NOT REPORTED	3	-	-	-	2	2	-	-	-	-	-	-	...
NOT REPORTED	14	3	4	1	1	2	-	-	-	1	-	2	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	22	2	1	3	-	-	-	-	-	-	-	15	...
WITH HOT PIPED WATER	5 946	907	1 817	1 073	484	208	107	93	30	37	16	1 174	17
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 765	880	1 762	1 042	471	200	103	92	30	37	16	1 132	17
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	22	5	8	6	-	-	2	1	-	-	-	-	...
NOT REPORTED	151	22	45	22	14	7	2	-	1	-	-	39	17
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	1 776	166	473	403	179	97	56	63	16	31	8	284	22
ROOM UNITS	968	120	313	252	96	40	18	16	-	2	3	109	19
1	883	114	287	230	88	32	15	12	-	1	3	101	19
2	73	5	25	19	8	5	3	2	-	-	-	8	22
3	10	2	-	3	-	2	-	2	-	1	-	-	...
4	1	-	1	-	-	-	-	-	-	-	-	-	...
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	808	45	160	151	83	57	38	47	16	29	5	176	27
WITH NO AIR CONDITIONING	4 192	744	1 345	673	305	110	52	30	14	6	8	905	16
PERSONS													
1 PERSON	2 181	507	579	251	86	33	16	8	2	2	7	691	14
2 PERSONS	1 790	242	651	359	139	75	35	30	8	7	3	242	17
3 PERSONS	895	91	302	188	105	28	22	18	10	5	3	123	19
4 PERSONS	570	39	156	143	93	36	16	10	5	9	-	63	24
5 PERSONS	283	18	66	69	36	23	11	8	4	6	2	40	25
6 PERSONS	145	8	35	40	15	9	5	12	-	5	2	15	25
7 PERSONS OR MORE	103	5	28	25	12	5	2	7	1	2	-	16	24
MEDIAN	1.9	1.5-	2.0	2.3	2.7	2.4	2.6	3.0	...	4.0	...	1.5-	...

[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]LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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]	5 967	909	1 818	1 076	484	208	107	93	30	37	16	1 189	17
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 128	168	654	506	262	110	54	54	24	28	9	260	22
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	254	24	71	54	36	11	5	6	8	4	1	33	23
SOME WINDOWS COVERED	135	4	38	34	17	8	7	4	2	4	2	14	25
NO WINDOWS COVERED	1 619	128	488	400	199	90	42	43	14	20	6	189	22
NOT REPORTED	121	11	57	18	9	-	-	1	-	-	-	25	16
STORM DOORS													
ALL DOORS COVERED	146	11	37	27	33	7	2	-	6	1	-	21	25
SOME DOORS COVERED	96	7	27	29	15	3	3	3	2	-	-	7	23
NO DOORS COVERED	1 766	138	533	431	205	100	48	50	16	27	9	207	22
NOT REPORTED	121	11	57	18	9	-	-	1	-	-	-	25	16
ATTIC OR ROOF INSULATION													
YES	820	50	199	210	115	65	24	24	15	18	5	96	25
NO	596	63	185	142	78	21	20	17	2	5	-	64	21
DON'T KNOW	592	43	213	139	60	24	9	13	8	5	5	75	20
NOT REPORTED	120	11	58	15	9	-	1	1	-	-	-	25	16

[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: 1979

(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]	7 559	610	1 159	1 088	895	671	845	396	327	66	30	1 473	21
HOUSE HEATING FUEL													
GAS	5 696	545	1 073	1 037	841	630	809	376	296	63	27	-	21
UTILITY GAS	5 559	540	1 060	1 020	826	619	786	358	274	57	20	-	21
BOTTLED, TANK, OR LP GAS	136	5	14	17	14	11	23	18	22	6	7	-	33
OTHER THAN GAS	1 747	58	72	44	49	39	34	21	31	3	2	1 394	20
FUEL OIL	431	12	1	6	8	2	7	3	7	2	-	382	23
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 199	39	58	35	33	34	27	16	17	1	2	937	19
COAL OR COKE	5	-	-	-	-	1	-	-	-	-	-	4	...
WOOD	110	7	13	2	6	2	1	1	6	-	1	71	14
SOLAR HEAT	2	-	-	-	2	-	-	-	-	-	-	-	...
OTHER FUEL	1	-	-	-	-	-	-	-	-	-	-	1	-
NONE	116	7	14	8	5	2	2	-	-	-	-	79	13
WATER HEATING FUEL[3]													
GAS	5 455	547	1 099	1 017	819	590	741	315	247	61	20	-	20
UTILITY GAS	5 329	544	1 085	1 002	802	578	720	301	224	57	17	-	20
BOTTLED, TANK, OR LP GAS	126	3	14	15	17	11	21	13	23	5	3	-	31
OTHER FUEL	2 095	62	59	71	74	80	104	82	80	5	10	1 470	27
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL													
GAS	2 908	396	716	620	431	241	294	97	86	17	10	-	17
UTILITY GAS	2 801	384	701	606	413	234	280	89	73	13	8	-	17
BOTTLED, TANK, OR LP GAS	106	12	15	15	18	8	14	7	13	3	2	-	23
OTHER FUEL	4 651	213	443	468	464	430	551	300	241	49	20	1 473	25
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 690	361	673	577	387	229	276	88	72	17	9	-	17
ALL OTHER FUEL COMBINATIONS OR NONE	4 869	249	485	511	507	442	569	308	255	49	20	1 473	24
HEATING EQUIPMENT													
WARM-AIR FURNACE	4 800	290	678	721	662	535	673	318	253	49	19	603	22
HEAT PUMP	154	8	3	7	3	5	-	1	8	-	2	118	21
STEAM OR HOT WATER	192	1	8	13	18	16	35	26	30	13	3	28	36
BUILT-IN ELECTRIC UNITS	537	16	10	10	6	5	4	-	2	-	-	483	15
FLOOR, WALL, OR PIPELESS FURNACE	1 289	245	367	282	156	74	91	33	20	1	4	17	15
ROOM HEATERS WITH FLUE	219	16	39	24	29	23	31	15	3	2	-	37	22
ROOM HEATERS WITHOUT FLUE	43	8	10	12	3	4	1	-	3	1	-	2	16
FIREPLACES, STOVES, OR PORTABLE HEATERS	207	19	30	13	11	7	8	5	8	-	2	106	16
NONE	116	7	14	8	5	2	2	-	-	-	-	79	13
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	116	7	14	8	5	2	2	-	-	-	-	79	13
WITH HEATING EQUIPMENT	7 442	603	1 145	1 081	889	669	843	396	327	66	30	1 394	21
NO THERMOSTAT CONTROL	736	115	159	93	74	40	53	22	17	2	5	156	16
WITH THERMOSTAT CONTROL	6 686	483	983	986	809	629	790	374	310	64	25	1 234	21
NOT CLOCK OPERATED	5 767	415	836	837	677	552	702	332	277	58	20	1 061	22
CONSTANT TEMPERATURE SETTING MAINTAINED	1 790	168	268	260	211	170	194	92	80	17	3	328	21
TEMPERATURE SETTING IS CHANGED	3 936	242	557	572	462	382	503	239	195	42	16	725	22
OCCASIONALLY	774	53	121	102	101	68	104	34	32	13	6	140	22
REGULARLY	3 133	187	428	468	359	313	395	205	162	28	11	578	22
DON'T KNOW	27	1	7	1	2	2	4	-	2	-	-	7	...
NOT REPORTED	2	-	-	2	-	-	-	1	-	-	-	-	...
NOT REPORTED	41	5	11	6	3	-	5	1	2	-	-	8	...
CLOCK OPERATED	917	68	147	148	131	76	88	42	33	6	5	173	20
NOT REPORTED	2	-	-	-	2	-	-	-	-	-	-	-	...
NOT REPORTED	21	5	3	2	6	1	-	-	-	-	-	4	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	324	26	44	20	16	9	10	5	8	-	2	185	14
WITH SELECTED HEATING EQUIPMENT[4]	7 235	584	1 115	1 068	878	662	835	392	319	66	28	1 288	21
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 908	565	1 088	1 028	846	636	807	373	293	66	24	1 182	21
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	298	16	25	33	28	26	28	17	22	-	4	98	24
SOLAR HEATING EQUIPMENT	4	-	-	-	2	-	2	-	-	-	-	1	...
STOVE, BURNING WOOD OR COAL	85	2	-	5	6	8	10	2	4	-	-	47	28
FIREPLACE, BURNING WOOD OR COAL	53	3	-	2	3	2	4	9	5	-	2	23	...
PORTABLE ELECTRIC HEATER	76	5	10	12	12	6	10	4	7	-	1	8	22
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	10	2	2	1	2	-	-	-	-	-	2	3	...
OTHER	68	4	14	13	2	8	2	2	6	-	-	17	17
NOT REPORTED	4	2	-	-	2	1	-	-	-	-	-	-	...
NOT REPORTED	30	3	2	7	4	-	-	2	3	-	-	9	...
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	50	92	57	49	36	41	19	14	3	2	224	18
WITH SELECTED HEATING EQUIPMENT[5]	6 972	560	1 066	1 032	846	635	804	377	312	63	28	1 250	21
LESS THAN 4 YEARS	1 301	86	167	158	139	105	126	58	58	13	3	387	21
4 TO 9 YEARS	1 623	106	201	228	203	143	216	99	80	19	6	323	22
10 TO 19 YEARS	1 924	134	263	305	248	209	252	126	112	14	6	255	22
20 TO 39 YEARS	1 592	158	334	258	194	131	156	61	45	14	7	234	18
40 YEARS OR MORE	174	30	43	27	13	12	24	8	5	2	2	8	17
DON'T KNOW	305	37	49	49	37	34	29	22	9	2	3	33	20
NOT REPORTED	53	8	9	7	11	2	1	2	3	-	2	9	18

[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 HOT PIPED WATER.
[4]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[5]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

TABLE E-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1979--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													
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	50	92	57	49	36	41	19	14	3	2	224	18
WITH SELECTED HEATING EQUIPMENT[3]	6 972	560	1 066	1 032	846	635	804	377	312	63	28	1 250	21
NO MAINTENANCE OR MODIFICATION	5 863	480	926	900	733	531	668	305	245	52	22	999	21
WITH MAINTENANCE OR MODIFICATION	1 069	74	134	127	107	104	135	70	62	10	6	240	23
NOT REPORTED	40	5	7	4	6	-	1	2	5	-	-	11	...
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	50	92	57	49	36	41	19	14	3	2	224	18
WITH SELECTED HEATING EQUIPMENT[3]	6 972	560	1 066	1 032	846	635	804	377	312	63	28	1 250	21
NO MAINTENANCE CONTRACT	6 550	535	1 002	992	803	614	760	365	290	59	26	1 102	21
WITH MAINTENANCE CONTRACT	378	21	59	35	36	19	41	10	17	3	2	136	21
NOT REPORTED	43	3	5	4	7	2	3	2	5	-	-	11	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	8	1	2	-	2	1	-	-	-	-	-	4	...
WITH HOT PIPED WATER	7 550	609	1 157	1 088	893	670	845	396	327	66	30	1 470	21
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 373	585	1 132	1 062	871	655	831	390	322	65	30	1 432	21
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[4]	65	7	12	10	10	5	8	-	2	1	-	13	18
NOT REPORTED	95	16	14	16	10	7	7	7	4	-	-	16	17
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	2 680	242	471	363	340	224	262	135	104	25	9	504	20
ROOM UNITS	972	102	177	137	121	90	98	48	25	4	5	165	19
1	769	79	131	106	92	79	81	46	18	2	2	133	20
2	176	23	36	27	21	9	17	2	5	2	3	31	17
3	20	-	8	3	7	2	-	-	-	-	-	1	...
4	7	-	2	2	2	-	-	-	2	-	-	-	...
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	1 708	140	294	226	219	135	164	87	80	22	4	339	20
WITH NO AIR CONDITIONING	4 878	368	688	725	554	447	583	261	222	41	20	970	21
PERSONS													
1 PERSON	980	164	207	110	93	79	68	32	12	7	4	204	16
2 PERSONS	2 445	225	405	374	293	204	238	116	73	9	9	498	19
3 PERSONS	1 409	83	236	192	189	124	166	69	63	13	3	271	21
4 PERSONS	1 497	79	194	226	176	138	199	79	82	18	8	300	22
5 PERSONS	723	35	67	119	81	80	102	56	68	11	2	102	25
6 PERSONS	331	16	36	39	40	33	49	26	17	7	2	67	25
7 PERSONS OR MORE	175	7	14	29	23	13	23	18	13	1	2	32	24
MEDIAN	2.8	2.1	2.4	2.8	2.8	2.9	3.2	3.2	3.7	3.7	...	2.6	...
SPECIFIED OWNER OCCUPIED[2]	7 559	610	1 159	1 088	895	671	845	396	327	66	30	1 473	21
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 559	610	1 159	1 088	895	671	845	396	327	66	30	1 473	21
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 433	45	80	106	109	150	212	105	88	24	1	514	28
SOME WINDOWS COVERED	684	22	49	56	41	88	81	43	58	9	4	235	28
NO WINDOWS COVERED	5 400	538	1 022	919	736	433	551	243	181	33	25	719	18
NOT REPORTED	41	5	8	7	8	-	2	6	-	-	-	6	...
STORM DOORS													
ALL DOORS COVERED	1 033	19	45	75	91	138	160	91	67	21	-	327	29
SOME DOORS COVERED	705	9	21	38	47	94	123	61	61	11	5	234	32
NO DOORS COVERED	5 782	576	1 088	969	749	438	560	239	199	34	25	905	18
NOT REPORTED	39	5	5	7	8	-	2	6	-	-	-	7	...
ATTIC OR ROOF INSULATION													
YES	5 932	428	806	795	679	549	708	346	290	52	23	1 264	22
NO	1 293	154	288	242	159	91	119	38	21	7	7	166	17
DON'T KNOW	293	26	60	45	46	30	21	8	14	7	-	37	19
NOT REPORTED	42	5	5	7	11	-	2	4	2	-	-	6	20
SPECIFIED RENTER OCCUPIED[5]	5 967	1 323	745	420	314	121	168	59	31	11	21	2 755	12
HOUSE HEATING FUEL													
GAS	3 955	1 184	708	389	301	113	156	45	30	11	21	996	12
UTILITY GAS	3 841	1 168	701	380	293	108	139	35	26	10	12	969	12
BOTTLED, TANK, OR LP GAS	114	16	7	9	8	5	17	10	4	1	9	27	28
OTHER THAN GAS	1 834	113	29	27	7	7	8	7	1	-	-	1.635	10-
FUEL OIL	225	7	1	-	-	2	1	3	-	-	-	212	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 515	90	27	24	6	6	6	4	1	-	-	1 351	10-
COAL OR COKE	6	-	-	-	-	-	-	-	-	-	-	6	-
WOOD	60	13	1	2	2	-	2	1	-	-	-	40	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	29	3	-	-	-	-	-	-	-	-	-	26	...
NONE	178	26	8	5	5	1	3	6	-	-	-	124	11

[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 ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[4]LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.
[5]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: 1979--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													
WATER HEATING FUEL[3]													
GAS	4 072	1 242	710	394	271	95	143	49	19	5	15	1 128	11
UTILITY GAS	3 979	1 230	703	385	265	92	125	37	17	4	12	1 109	11
BOTTLED, TANK, OR LP GAS	93	12	7	10	6	3	18	12	2	1	4	19	28
OTHER FUEL	1 868	77	34	26	42	24	25	10	12	6	6	1 605	18
NONE	6	-	-	-	-	1	-	-	-	-	-	5	...
COOKING FUEL													
GAS	2 944	988	576	294	193	70	86	33	8	5	13	678	11
UTILITY GAS	2 841	963	569	286	186	67	77	21	5	3	7	656	11
BOTTLED, TANK, OR LP GAS	103	25	7	8	6	4	9	12	3	2	6	22	21
OTHER FUEL	2 969	335	169	126	121	51	82	26	23	6	8	2 023	13
NONE	55	-	-	1	-	-	-	-	-	-	-	54	...
ALL GAS HOUSING UNITS													
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 630	872	543	270	179	59	80	24	4	4	11	584	11
ALL OTHER FUEL COMBINATIONS OR NONE	3 337	451	202	151	135	62	87	35	27	7	10	2 170	13
HEATING EQUIPMENT													
WARM-AIR FURNACE	1 769	322	233	163	168	55	86	29	22	7	8	675	14
HEAT PUMP	24	-	-	-	-	-	-	-	-	-	-	24	-
STEAM OR HOT WATER	362	36	4	4	-	2	-	2	-	-	-	315	10-
BUILT-IN ELECTRIC UNITS	1 109	57	9	10	2	5	1	1	1	-	-	1 024	10-
FLOOR, WALL, OR PIPELESS FURNACE	1 895	762	404	188	93	37	42	11	5	3	5	347	10
ROOM HEATERS WITH FLUE	408	86	62	38	35	15	23	8	4	1	2	135	13
ROOM HEATERS WITHOUT FLUE	77	11	19	9	8	7	2	2	-	-	3	17	15
FIREPLACES, STOVES, OR PORTABLE HEATERS	144	24	5	4	3	-	9	1	-	-	3	95	11
NONE	178	26	8	5	5	1	3	6	-	-	-	124	11
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	178	26	8	5	5	1	3	6	-	-	-	124	11
WITH HEATING EQUIPMENT	5 789	1 297	736	416	309	120	165	53	31	11	21	2 631	12
NO THERMOSTAT CONTROL	1 750	429	226	126	68	36	40	12	5	4	6	797	11
WITH THERMOSTAT CONTROL	4 028	866	508	290	241	85	125	41	26	7	12	1 828	12
NOT CLOCK OPERATED	3 575	760	448	243	208	73	114	35	21	7	10	1 655	12
CONSTANT TEMPERATURE SETTING MAINTAINED	1 277	336	143	77	58	22	40	6	4	1	8	582	10
TEMPERATURE SETTING IS CHANGED	2 208	400	290	160	144	52	73	29	17	6	2	1 035	13
OCCASIONALLY	625	112	78	49	40	5	15	7	4	-	-	315	12
REGULARLY	1 515	271	198	109	100	45	57	21	13	6	2	691	13
DON'T KNOW	65	17	14	2	3	1	-	-	-	-	-	28	10
NOT REPORTED	2	-	-	-	2	-	-	1	-	-	-	-	...
NOT REPORTED	90	24	15	6	6	-	2	-	-	-	-	38	11
CLOCK OPERATED	442	104	60	46	33	11	11	6	5	-	1	166	12
NOT REPORTED	10	2	-	-	-	-	-	-	-	-	-	8	...
NOT REPORTED	12	2	2	-	-	-	-	-	-	-	3	5	...
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	322	49	13	9	8	1	13	7	-	-	3	219	11
WITH SELECTED HEATING EQUIPMENT[4]	5 645	1 274	731	412	306	120	155	52	31	11	18	2 536	12
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 478	1 233	719	400	292	107	146	50	31	11	18	2 471	12
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	153	37	9	12	13	13	10	2	-	-	-	57	16
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	12	3	2	-	-	1	-	-	-	-	-	5	...
FIREPLACE, BURNING WOOD OR COAL	4	-	-	2	-	-	-	-	-	-	-	2	...
PORTABLE ELECTRIC HEATER	109	25	7	9	10	8	7	1	-	-	-	41	16
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	8	-	-	-	3	3	-	-	-	-	-	2	...
OTHER	18	7	-	-	-	-	2	1	-	-	-	8	...
NOT REPORTED	3	2	-	2	-	-	-	-	-	-	-	-	...
NOT REPORTED	14	3	3	-	-	-	-	-	-	-	-	8	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	22	4	1	-	-	-	-	-	-	-	-	17	...
WITH HOT PIPED WATER	5 946	1 319	744	420	314	121	168	59	31	11	21	2 738	12
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 765	1 281	718	406	308	119	162	56	30	11	19	2 655	12
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[5]	22	6	7	3	2	-	-	-	-	-	-	3	...
NOT REPORTED	151	32	19	11	4	-	6	3	1	-	2	73	11
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
WITH AIR CONDITIONING	1 776	374	219	90	111	27	39	16	6	2	3	888	11
ROOM UNITS	968	234	136	48	50	11	23	11	4	2	1	447	11
1	883	215	120	45	48	9	23	7	4	2	1	409	11
2	73	17	15	3	2	1	-	4	-	1	-	31	11
3	10	2	2	-	-	-	-	-	-	-	-	7	...
4	1	-	-	-	-	1	-	-	-	-	-	-	...
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	808	140	83	42	61	16	16	5	2	-	2	441	12
WITH NO AIR CONDITIONING	4 192	949	526	330	202	94	129	43	25	9	18	1 866	12

[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] LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.
[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: 1979--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	2 181	519	185	85	49	16	19	4	6	-	5	1 294	10-
2 PERSONS	1 790	446	259	119	88	31	39	13	7	2	7	779	11
3 PERSONS	895	197	122	80	69	31	35	5	7	4	4	342	13
4 PERSONS	570	91	100	69	50	18	40	11	4	-	1	188	15
5 PERSONS	283	37	47	32	26	15	17	14	5	3	5	83	17
6 PERSONS	145	21	16	19	17	8	11	7	4	2	-	41	18
7 PERSONS OR MORE	103	12	16	17	15	3	7	5	-	-	-	27	17
MEDIAN	1.9	1.8	2.2	2.6	2.8	2.9	3.2	4.1	...	...	...	1.6	...
SPECIFIED RENTER OCCUPIED[2]	5 967	1 323	745	420	314	121	168	59	31	11	21	2 755	12
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 128	375	337	226	216	68	141	49	24	10	19	663	15
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	254	19	30	20	20	7	24	8	10	-	10	105	21
SOME WINDOWS COVERED	135	11	3	9	20	1	10	8	1	1	-	71	22
NO WINDOWS COVERED	1 619	313	278	185	173	58	108	33	13	9	9	440	14
NOT REPORTED	121	32	25	11	3	2	-	-	-	-	-	47	11
STORM DOORS													
ALL DOORS COVERED	146	5	11	15	10	6	17	7	6	-	4	65	25
SOME DOORS COVERED	96	5	6	7	12	3	9	5	1	-	1	48	22
NO DOORS COVERED	1 766	333	295	193	191	57	115	37	18	10	15	503	15
NOT REPORTED	121	32	25	11	3	2	-	-	-	-	-	47	11
ATTIC OR ROOF INSULATION													
YES	820	102	103	93	91	20	67	21	14	3	7	299	17
NO	596	128	96	54	65	29	37	20	5	3	5	155	14
DON'T KNOW	592	113	111	67	59	18	38	8	5	4	7	162	14
NOT REPORTED	120	32	27	11	2	2	-	-	-	-	-	47	11

[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: 1979

(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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]	7 559	272	167	117	116	80	63	57	22	44	6 621	225
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	546	20	23	56	102	63	50	50	22	35	125	415
FUEL OIL	431	12	15	46	97	62	48	48	22	35	46	435
COAL OR COKE	5	-	1	1	1	-	-	1	-	-	2	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	110	8	7	9	4	2	2	1	-	-	78	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	6 897	252	144	61	14	16	13	6	1	9	6 380	104
UTILITY GAS	5 559	194	111	50	8	4	9	4	-	7	5 172	100-
BOTTLED, TANK, OR LP GAS	136	4	4	2	-	2	-	1	-	2	121	...
ELECTRICITY	1 199	53	29	9	6	11	4	2	1	-	1 084	113
SOLAR HEAT	2	-	-	-	-	-	-	-	-	-	2	-
OTHER FUEL	1	-	-	-	-	-	-	-	-	1	-	...
NONE	116	-	-	-	-	-	-	-	-	-	116	-
HEATING EQUIPMENT												
WARM-AIR FURNACE	4 800	170	112	75	74	58	48	46	17	37	4 163	248
HEAT PUMP	154	3	4	1	-	-	-	-	-	-	147	...
STEAM OR HOT WATER	192	21	3	7	7	3	3	4	5	6	133	280
BUILT-IN ELECTRIC UNITS	537	32	16	5	1	5	2	-	-	-	476	100-
FLOOR, WALL, OR PIPELESS FURNACE	1 289	24	19	6	7	2	3	2	-	-	1 226	139
ROOM HEATERS WITH FLUE	219	6	4	6	19	6	3	4	1	-	171	346
ROOM HEATERS WITHOUT FLUE	43	-	-	-	2	-	-	-	-	-	41	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	207	17	10	17	6	6	2	1	-	1	148	219
NONE	116	-	-	-	-	-	-	-	-	-	116	-
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	116	-	-	-	-	-	-	-	-	-	116	-
WITH HEATING EQUIPMENT	7 442	272	167	117	116	80	63	57	22	44	6 505	225
NO THERMOSTAT CONTROL	736	16	13	15	13	10	7	2	1	1	659	266
WITH THERMOSTAT CONTROL	6 686	255	154	101	102	69	56	54	21	42	5 832	218
NOT CLOCK OPERATED	5 767	228	126	85	84	57	41	40	11	22	5 073	193
CONSTANT TEMPERATURE SETTING MAINTAINED	1 790	48	39	19	20	12	6	19	3	3	1 621	193
TEMPERATURE SETTING IS CHANGED	3 936	180	87	62	64	46	36	20	7	18	3 416	191
OCCASIONALLY	774	17	11	8	6	5	6	7	1	-	714	231
REGULARLY	3 133	163	75	53	58	40	29	13	7	18	2 677	186
DON'T KNOW	27	-	2	1	-	-	1	-	-	-	23	...
NOT REPORTED	2	-	-	-	-	-	-	-	-	-	2	-
NOT REPORTED	41	-	-	5	-	-	-	-	-	-	36	...
CLOCK OPERATED	917	27	28	16	18	11	14	15	11	20	757	350
NOT REPORTED	2	-	-	-	-	-	-	-	-	-	2	-
NOT REPORTED	21	2	-	1	1	2	-	-	-	2	14	...
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	23	14	22	27	12	5	5	1	1	476	283
WITH SELECTED HEATING EQUIPMENT[2]	6 972	249	153	95	88	68	57	51	21	44	6 145	211
LESS THAN 4 YEARS	1 301	52	34	13	4	7	9	3	3	4	1 174	134
4 TO 9 YEARS	1 623	60	35	22	10	9	6	4	2	5	1 470	147
10 TO 19 YEARS	1 924	78	58	21	22	18	12	15	4	14	1 682	173
20 TO 39 YEARS	1 592	44	24	27	45	21	26	22	12	18	1 354	354
40 YEARS OR MORE	174	2	-	2	1	2	1	4	-	2	161	...
DON'T KNOW	305	12	3	11	5	9	3	3	2	-	258	276
NOT REPORTED	53	2	-	-	1	2	-	1	-	2	47	...
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	23	14	22	27	12	5	5	1	1	476	283
WITH SELECTED HEATING EQUIPMENT[2]	6 972	249	153	95	88	68	57	51	21	44	6 145	211
NO MAINTENANCE OR MODIFICATION	5 863	198	130	70	55	39	39	27	13	20	5 272	174
WITH MAINTENANCE OR MODIFICATION	1 069	51	23	25	33	28	19	22	8	22	840	350
NOT REPORTED	40	1	-	-	1	2	-	2	-	2	33	...
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	587	23	14	22	27	12	5	5	1	1	476	283
WITH SELECTED HEATING EQUIPMENT[2]	6 972	249	153	95	88	68	57	51	21	44	6 145	211
NO MAINTENANCE CONTRACT	6 550	235	137	87	70	45	48	36	15	36	5 841	186
WITH MAINTENANCE CONTRACT	378	13	16	8	18	20	9	15	7	6	268	402
NOT REPORTED	43	1	-	-	1	3	-	1	-	2	36	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	8	-	-	-	-	1	-	1	-	-	7	...
WITH HOT PIPED WATER	7 550	272	167	117	116	79	63	56	22	44	6 615	224
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 373	272	167	113	113	77	61	55	22	43	6 450	219
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	65	-	-	2	2	1	2	-	-	-	60	...
NOT REPORTED	95	-	-	2	1	2	-	1	1	2	88	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
WITH AIR CONDITIONING	2 680	88	57	25	17	17	8	12	6	5	2 444	151
ROOM UNITS	972	31	17	11	15	6	6	10	2	2	872	212
1	769	25	15	11	13	3	5	8	2	2	686	213
2	176	4	2	-	2	3	2	2	-	-	162	...
3	20	2	-	-	-	-	-	-	-	-	18	...
4	7	-	-	-	-	-	-	-	-	-	7	-
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	1 708	57	40	14	2	10	2	2	5	3	1 573	127
WITH NO AIR CONDITIONING	4 878	184	110	92	99	63	55	44	16	40	4 177	261

[1]LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.
[2]EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED[1]--CONTINUED												
PERSONS												
1 PERSON	980	25	17	16	24	22	9	8	2	3	853	318
2 PERSONS	2 445	103	46	47	49	25	26	24	5	21	2 098	250
3 PERSONS	1 409	39	30	21	19	11	11	13	6	5	1 254	237
4 PERSONS	1 497	61	45	17	16	11	10	5	6	10	1 316	165
5 PERSONS	723	26	22	5	4	9	3	5	2	3	643	161
6 PERSONS	331	11	3	2	2	2	1	1	-	2	306	...
7 PERSONS OR MORE	175	6	3	9	-	-	3	1	2	-	151	...
MEDIAN	2.8	2.7	3.2	2.4	2.2	2.2	2.4	2.3	...	2.4	2.8	...
SPECIFIED OWNER OCCUPIED[1]	7 559	272	167	117	116	80	63	57	22	44	6 621	225
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 559	272	167	117	116	80	63	57	22	44	6 621	225
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 433	84	44	32	37	22	12	17	1	9	1 176	200
SOME WINDOWS COVERED	684	30	19	27	21	20	22	13	7	8	519	332
NO WINDOWS COVERED	5 400	158	104	58	58	35	30	26	15	26	4 892	192
NOT REPORTED	41	-	-	-	1	3	-	-	-	2	35	...
STORM DOORS												
ALL DOORS COVERED	1 033	71	25	32	39	22	23	14	2	5	800	264
SOME DOORS COVERED	705	30	22	22	26	14	11	14	12	5	549	315
NO DOORS COVERED	5 782	171	120	63	50	40	29	28	8	33	5 240	182
NOT REPORTED	39	-	-	-	1	3	-	-	-	2	33	...
ATTIC OR ROOF INSULATION												
YES	5 932	238	155	105	101	69	54	53	17	35	5 106	219
NO	1 293	25	10	10	13	9	7	4	5	5	1 204	288
DON'T KNOW	293	9	2	2	1	1	2	-	1	3	273	...
NOT REPORTED	42	-	-	-	1	2	-	-	-	2	38	...
SPECIFIED RENTER OCCUPIED[1]	5 967	77	44	20	24	21	16	1	-	19	5 746	177
HOUSE HEATING FUEL												
OIL, COAL, KEROSENE, WOOD, ETC.	290	16	18	17	14	20	14	1	-	13	177	343
FUEL OIL	225	5	12	14	14	20	12	1	-	7	139	382
COAL OR COKE	6	-	-	-	-	-	1	-	-	-	5	...
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	60	11	6	3	-	1	-	-	-	6	33	...
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	5 499	61	26	2	9	1	2	-	-	6	5 391	100-
UTILITY GAS	3 841	42	12	-	5	-	1	-	-	4	3 778	100-
BOTTLED, TANK, OR LP GAS	114	8	4	-	1	-	-	-	-	1	100	...
ELECTRICITY	1 515	12	10	2	3	1	2	-	-	1	1 484	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	29	-	-	-	-	-	-	-	-	-	29	-
NONE	178	-	-	-	-	-	-	-	-	-	178	-
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 769	34	17	6	11	15	7	1	-	6	1 672	184
HEAT PUMP	24	-	-	-	-	-	-	-	-	1	22	...
STEAM OR HOT WATER	362	2	-	-	-	-	1	-	-	2	358	...
BUILT-IN ELECTRIC UNITS	1 109	10	9	2	3	-	2	-	-	-	1 084	...
FLOOR, WALL, OR PIPELESS FURNACE	1 895	13	2	5	4	-	2	1	-	2	1 867	...
ROOM HEATERS WITH FLUE	408	3	7	3	5	2	1	-	-	1	386	...
ROOM HEATERS WITHOUT FLUE	77	-	1	1	-	2	1	-	-	-	74	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	144	15	8	3	1	2	4	-	-	7	105	163
NONE	178	-	-	-	-	-	-	-	-	-	178	-
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	178	-	-	-	-	-	-	-	-	-	178	-
WITH HEATING EQUIPMENT	5 789	77	44	20	24	21	16	1	-	19	5 568	177
NO THERMOSTAT CONTROL	1 750	12	13	7	5	6	5	1	-	9	1 693	253
WITH THERMOSTAT CONTROL	4 028	62	30	13	18	16	12	1	-	10	3 867	160
NOT CLOCK OPERATED	3 575	58	25	11	17	9	11	-	-	9	3 435	145
CONSTANT TEMPERATURE SETTING MAINTAINED	1 277	24	9	3	4	3	2	-	-	2	1 231	100-
TEMPERATURE SETTING IS CHANGED	2 208	34	16	8	13	5	9	-	-	8	2 114	176
OCCASIONALLY	625	17	2	2	2	-	2	-	-	-	601	...
REGULARLY	1 515	17	13	6	10	5	6	-	-	8	1 450	247
DON'T KNOW	65	-	-	-	-	-	2	-	-	-	63	...
NOT REPORTED	2	-	2	-	1	-	-	-	-	-	-	...
NOT REPORTED	90	-	-	-	-	-	-	-	-	-	90	-
CLOCK OPERATED	442	4	4	2	2	7	1	1	-	1	422	...
NOT REPORTED	10	-	1	-	-	-	-	-	-	-	10	...
NOT REPORTED	12	3	1	-	-	-	-	-	-	-	8	...
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	22	1	2	1	-	-	-	-	-	3	15	...
WITH HOT PIPED WATER	5 946	76	42	18	24	21	16	1	-	16	5 732	173
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 765	76	41	18	24	21	16	1	-	15	5 552	173
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[3]	22	-	-	-	-	-	-	-	-	-	22	-
NOT REPORTED	151	-	1	-	-	-	-	-	-	1	150	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-

[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.
[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: 1979--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 OR FREE	MEDIAN (DOLLARS)
SPECIFIED RENTER OCCUPIED[1]--CONTINUED												
AIR CONDITIONING												
WITH AIR CONDITIONING	1 776	16	2	2	2	2	1	-	-	3	1 747	...
ROOM UNITS	968	5	1	2	2	2	1	-	-	2	955	...
1	883	4	1	2	-	2	1	-	-	1	873	...
2	73	1	-	-	2	-	-	-	-	1	70	...
3	10	-	-	-	-	-	-	-	-	-	10	-
4	1	-	-	-	-	-	-	-	-	-	1	-
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL SYSTEM	808	11	2	-	1	-	-	-	-	1	793	...
WITH NO AIR CONDITIONING	4 192	61	41	18	21	19	15	1	-	16	3 999	186
PERSONS												
1 PERSON	2 181	24	10	4	7	3	2	-	-	2	2 128	122
2 PERSONS	1 790	26	11	4	10	3	4	-	-	7	1 726	163
3 PERSONS	895	12	8	5	3	9	2	-	-	3	853	210
4 PERSONS	570	10	8	4	3	3	6	1	-	4	531	237
5 PERSONS	283	1	6	2	-	2	1	1	-	-	269	...
6 PERSONS	145	3	1	2	-	1	2	-	-	2	136	...
7 PERSONS OR MORE	103	1	-	-	-	-	-	-	-	-	102	...
MEDIAN	1.9	2.0	2.7	...	...	...	...	...	-	...	1.9	...
SPECIFIED RENTER OCCUPIED[1]	5 967	77	44	20	24	21	16	1	-	19	5 746	177
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 128	44	36	18	17	21	14	1	-	19	1 958	230
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	254	6	4	3	5	1	4	-	-	7	224	...
SOME WINDOWS COVERED	135	2	2	1	3	5	3	1	-	4	114	...
NO WINDOWS COVERED	1 619	34	29	13	10	15	7	1	-	8	1 502	183
NOT REPORTED	121	1	1	-	-	-	-	-	-	-	119	...
STORM DOORS												
ALL DOORS COVERED	146	6	3	5	5	-	1	-	-	2	124	...
SOME DOORS COVERED	96	2	5	2	1	4	3	-	-	3	76	...
NO DOORS COVERED	1 766	35	26	12	11	17	10	1	-	14	1 640	221
NOT REPORTED	121	1	1	-	-	-	-	-	-	-	119	...
ATTIC OR ROOF INSULATION												
YES	820	20	20	9	6	11	11	1	-	8	734	227
NO	596	13	9	3	8	5	2	1	-	7	550	250
DON'T KNOW	592	10	6	6	3	5	2	-	-	4	556	243
NOT REPORTED	120	1	1	-	-	-	-	-	-	-	118	...

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

TABLE E-11. HOUSEHOLD HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1979

(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	HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK							
		DRIVES SELF	CARPOOL	MASS TRANS-PORTATION	BICYCLE OR MOTOR-CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	WORKS AT HOME OR NOT REPORTED
HOUSING UNITS WITH EMPLOYED HEADS[1]	10 781	7 577	1 762	435	298	12	396	67	233
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	6 543	4 844	1 081	161	151	2	112	44	147
LESS THAN 1 MILE	336	213	17	1	11	-	91	2	2
1 TO 4 MILES	1 277	1 032	134	31	57	2	16	5	-
5 TO 9 MILES	1 305	1 035	181	41	45	-	-	2	2
10 TO 19 MILES	1 469	1 132	272	34	23	-	-	4	2
20 TO 29 MILES	634	411	182	22	7	-	-	9	2
30 TO 49 MILES	299	151	127	16	-	-	-	3	2
50 MILES OR MORE	100	46	41	6	-	-	-	6	-
WORKS AT HOME	126	-	-	-	-	-	-	-	126
NO FIXED PLACE OF WORK	889	749	115	4	5	-	4	11	1
NOT REPORTED	108	75	11	5	2	-	2	2	12
MEDIAN	9.2	8.7	15.3	10.9	5.4	...	1.0-	....	...
RENTER OCCUPIED	4 238	2 733	681	274	148	10	283	23	86
LESS THAN 1 MILE	429	160	18	11	14	2	213	5	5
1 TO 4 MILES	1 110	690	145	107	90	7	61	7	3
5 TO 9 MILES	859	613	146	70	21	2	2	2	3
10 TO 19 MILES	840	627	154	43	12	-	-	3	-
20 TO 29 MILES	236	139	74	19	4	-	-	1	-
30 TO 49 MILES	138	97	35	2	3	-	-	-	1
50 MILES OR MORE	35	16	14	6	-	-	-	-	-
WORKS AT HOME	67	-	-	-	-	-	-	-	67
NO FIXED PLACE OF WORK	450	345	81	7	4	-	6	5	2
NOT REPORTED	74	47	13	8	-	-	2	-	5
MEDIAN	6.6	7.6	9.4	5.8	3.6	...	1.0-	...	...
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	6 543	4 844	1 081	161	151	2	112	44	147
LESS THAN 15 MINUTES	1 889	1 538	189	3	61	2	91	4	2
15 TO 29 MINUTES	2 146	1 662	353	43	66	-	15	5	3
30 TO 44 MINUTES	876	598	222	42	7	-	3	4	2
45 TO 59 MINUTES	304	151	112	26	10	-	-	3	2
1 HOUR TO 1 HOUR AND 29 MINUTES	190	82	64	33	2	-	-	10	-
1 HOUR AND 30 MINUTES OR MORE	53	25	18	6	2	-	-	3	-
WORKS AT HOME	126	-	-	-	-	-	-	-	126
NO FIXED PLACE OF WORK	889	749	115	4	5	-	4	11	1
NOT REPORTED	70	40	9	5	-	-	-	4	12
MEDIAN	20.8	19.4	27.3	40.9	17.7	...	15.0-	...	....
RENTER OCCUPIED	4 238	2 733	681	274	148	10	283	23	86
LESS THAN 15 MINUTES	1 496	1 004	177	36	77	9	178	8	8
15 TO 29 MINUTES	1 379	919	252	79	40	2	78	8	-
30 TO 44 MINUTES	509	317	102	64	14	-	11	1	-
45 TO 59 MINUTES	152	75	30	36	4	-	4	-	3
1 HOUR TO 1 HOUR AND 29 MINUTES	117	38	31	38	5	-	3	1	2
1 HOUR AND 30 MINUTES OR MORE	31	9	5	13	3	-	-	-	-
WORKS AT HOME	67	-	-	-	-	-	-	-	67
NO FIXED PLACE OF WORK	450	345	81	7	4	-	6	5	2
NOT REPORTED	36	25	3	2	-	-	3	-	3
MEDIAN	18.7	17.8	22.2	34.1	15.0-	...	15.0-	...	...

[1]LIMITED TO HEADS 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 HOUSEHOLD HEAD: 1979

(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	8 355	6 575	4 971	1 604	1 780
HOUSE HEATING FUEL					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
UTILITY GAS	2 338	1 910	1 391	520	427
BOTTLED, TANK, OR LP GAS	319	63	11	52	256
FUEL OIL	576	447	309	138	129
KEROSENE, ETC	48	16	9	7	32
ELECTRICITY	342	210	114	96	132
COAL OR COKE	18	11	8	2	8
WOOD	50	9	5	4	41
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	2	2	2	-	-
NONE	19	16	7	9	3
RENTER OCCUPIED	4 643	3 892	3 115	776	752
UTILITY GAS	2 653	2 271	1 862	409	382
BOTTLED, TANK, OR LP GAS	137	35	12	23	101
FUEL OIL	1 022	947	799	148	74
KEROSENE, ETC	38	14	9	6	24
ELECTRICITY	600	526	367	159	75
COAL OR COKE	23	11	10	1	12
WOOD	91	17	2	15	74
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	26	26	26	-	-
NONE	55	45	29	16	10
WATER HEATING FUEL					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
NO HOT PIPED WATER	124	19	3	16	105
WITH HOT PIPED WATER	3 587	2 664	1 853	812	923
FUEL USED:					
UTILITY GAS	2 334	2 011	1 511	500	323
BOTTLED, TANK, OR LP GAS	174	48	10	38	126
FUEL OIL	151	145	95	50	7
KEROSENE, ETC	1	-	-	-	1
ELECTRICITY	923	458	236	222	465
COAL OR COKE	-	-	-	-	-
WOOD	2	2	2	-	-
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	1	1	-	1	-
NONE	2	1	-	1	1
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	4 643	3 892	3 115	776	752
NO HOT PIPED WATER	209	41	9	33	168
WITH HOT PIPED WATER	4 434	3 850	3 106	744	584
FUEL USED:					
UTILITY GAS	2 778	2 499	2 064	436	278
BOTTLED, TANK, OR LP GAS	74	34	21	13	40
FUEL OIL	669	639	551	87	31
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	878	653	447	206	225
COAL OR COKE	7	7	7	-	-
WOOD	2	-	-	-	2
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	20	19	17	2	2
NONE	6	-	-	-	6
NOT REPORTED	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
UTILITY GAS	2 131	1 809	1 391	418	322
BOTTLED, TANK, OR LP GAS	405	105	37	67	300
FUEL OIL	5	5	3	2	-
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	1 144	755	419	335	390
COAL OR COKE	5	3	3	-	2
WOOD	17	4	2	2	14
OTHER FUEL	-	-	-	-	-
NONE	4	3	-	3	1
RENTER OCCUPIED	4 643	3 892	3 115	776	752
UTILITY GAS	3 260	2 939	2 480	459	321
BOTTLED, TANK, OR LP GAS	225	74	32	42	151
FUEL OIL	5	5	4	2	-
KEROSENE, ETC	5	2	2	-	3
ELECTRICITY	1 078	830	568	263	247
COAL OR COKE	2	-	-	-	2
WOOD	27	8	2	6	19
OTHER FUEL	3	3	3	-	-
NONE	38	29	24	5	8

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLD HEAD: 1979--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]	3 150	2 334	1 584	750	816
LESS THAN $10	44	29	21	8	15
$10 TO $19	433	294	207	87	139
$20 TO $29	741	567	422	145	174
$30 TO $39	652	498	331	166	154
$40 TO $49	414	309	201	108	105
$50 TO $59	305	221	134	87	84
$60 TO $79	270	198	122	75	72
$80 TO $99	122	91	66	25	31
$100 TO $149	122	90	60	30	32
$150 OR MORE	41	34	16	18	7
NO ELECTRICITY USED	6	4	3	1	2
MEDIAN	35	35	34	37	35
SPECIFIED RENTER OCCUPIED[2]	4 585	3 880	3 113	767	704
LESS THAN $10	293	248	211	37	44
$10 TO $19	1 054	852	697	155	202
$20 TO $29	982	828	658	170	154
$30 TO $39	575	470	352	119	105
$40 TO $49	265	219	164	55	45
$50 TO $59	157	115	87	28	42
$60 TO $79	107	90	61	29	16
$80 TO $99	44	36	22	14	8
$100 TO $149	16	15	7	8	1
$150 OR MORE	3	3	2	2	-
INCLUDED IN RENT	1 062	980	831	149	82
NO ELECTRICITY USED	27	23	20	3	4
MEDIAN	24	24	23	26	24
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	3 150	2 334	1 584	750	816
LESS THAN $10	118	93	67	25	25
$10 TO $14	235	177	112	66	58
$15 TO $19	286	214	134	80	72
$20 TO $24	301	199	139	60	102
$25 TO $29	264	185	132	53	79
$30 TO $39	454	338	230	108	116
$40 TO $49	312	245	175	71	66
$50 TO $69	471	382	280	102	89
$70 TO $99	173	150	125	25	23
$100 OR MORE	97	86	65	22	1
NO GAS USED	450	264	125	139	186
MEDIAN	33	34	36	32	28
SPECIFIED RENTER OCCUPIED[2]	4 585	3 880	3 113	767	704
LESS THAN $10	510	454	384	71	56
$10 TO $14	425	355	279	75	70
$15 TO $19	405	339	286	54	65
$20 TO $24	268	196	155	41	72
$25 TO $29	189	143	116	27	47
$30 TO $39	257	205	171	34	53
$40 TO $49	173	147	119	28	26
$50 TO $69	208	180	152	28	28
$70 TO $99	73	65	52	13	8
$100 OR MORE	37	29	24	5	8
INCLUDED IN RENT	1 431	1 296	1 059	237	135
NO GAS USED	607	472	317	155	136
MEDIAN	18	18	18	18	21
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	3 150	2 334	1 584	750	816
LESS THAN $100	87	53	37	16	34
$100 TO $199	72	34	25	10	38
$200 TO $299	63	32	22	10	31
$300 TO $399	83	53	31	22	30
$400 TO $499	72	47	36	11	25
$500 TO $599	65	56	36	19	9
$600 TO $699	54	39	26	12	15
$700 TO $799	35	28	15	13	7
$800 OR MORE	117	96	47	49	20
FUELS NOT USED OR FREE	2 504	1 897	1 309	588	607
MEDIAN	426	501	464	566	307

[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 HOUSEHOLD HEAD: 1979--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.--CONTINUED					
SPECIFIED RENTER OCCUPIED[1]	4 585	3 880	3 113	767	704
LESS THAN $100	69	37	24	13	32
$100 TO $199	58	31	20	11	26
$200 TO $299	66	26	17	9	40
$300 TO $399	44	32	24	8	12
$400 TO $499	24	15	12	3	9
$500 TO $599	19	15	14	2	3
$600 TO $699	31	20	16	4	11
$700 TO $799	14	12	9	3	2
$800 OR MORE	16	12	5	7	4
INCLUDED IN RENT	997	916	772	144	81
FUELS NOT USED OR FREE	3 248	2 764	2 201	563	484
MEDIAN	265	318	337	267	229
ALL OCCUPIED HOUSING UNITS	8 355	6 575	4 971	1 604	1 780
HEATING EQUIPMENT					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
WARM-AIR FURNACE	1 755	1 425	1 001	425	330
HEAT PUMP	24	21	8	13	4
STEAM OR HOT WATER	472	455	352	103	17
BUILT-IN ELECTRIC UNITS	155	84	52	31	71
FLOOR, WALL, OR PIPELESS FURNACE	377	313	216	98	64
ROOM HEATERS WITH FLUE	269	142	90	52	127
ROOM HEATERS WITHOUT FLUE	496	181	111	70	315
FIREPLACES, STOVES, OR PORTABLE HEATERS	143	47	20	27	96
NONE	19	16	7	9	3
RENTER OCCUPIED	4 643	3 892	3 115	776	752
WARM-AIR FURNACE	1 355	1 210	896	313	145
HEAT PUMP	8	8	5	3	-
STEAM OR HOT WATER	1 366	1 320	1 176	144	46
BUILT-IN ELECTRIC UNITS	314	279	188	91	35
FLOOR, WALL, OR PIPELESS FURNACE	445	393	310	83	52
ROOM HEATERS WITH FLUE	367	256	210	46	112
ROOM HEATERS WITHOUT FLUE	549	304	257	47	246
FIREPLACES, STOVES, OR PORTABLE HEATERS	184	77	44	33	107
NONE	55	45	29	16	10
THERMOSTAT CONTROLLED HEATING EQUIPMENT					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
NO HEATING EQUIPMENT	19	16	7	9	3
WITH HEATING EQUIPMENT	3 692	2 667	1 849	818	1 025
NO THERMOSTAT CONTROL	956	436	278	158	520
WITH THERMOSTAT CONTROL	2 727	2 224	1 565	659	503
NOT CLOCK OPERATED	1 992	1 607	1 109	498	385
CONSTANT TEMPERATURE SETTING MAINTAINED	851	689	493	196	162
TEMPERATURE SETTING IS CHANGED	1 133	912	612	300	221
OCCASIONALLY	536	438	301	138	98
REGULARLY	575	455	298	156	120
DON'T KNOW	18	15	12	4	2
NOT REPORTED	4	3	2	2	1
NOT REPORTED	8	6	3	2	2
CLOCK OPERATED	731	614	453	161	117
NOT REPORTED	4	3	3	-	1
NOT REPORTED	9	8	6	2	2
RENTER OCCUPIED	4 643	3 892	3 115	776	752
NO HEATING EQUIPMENT	55	45	29	16	10
WITH HEATING EQUIPMENT	4 589	3 847	3 086	761	742
NO THERMOSTAT CONTROL	2 460	1 966	1 697	269	495
WITH THERMOSTAT CONTROL	2 113	1 870	1 384	486	243
NOT CLOCK OPERATED	1 625	1 418	1 020	398	207
CONSTANT TEMPERATURE SETTING MAINTAINED	670	592	433	158	79
TEMPERATURE SETTING IS CHANGED	924	801	567	234	123
OCCASIONALLY	399	350	245	105	49
REGULARLY	497	426	302	124	71
DON'T KNOW	28	25	20	6	2
NOT REPORTED	-	-	-	-	-
NOT REPORTED	31	25	19	6	6
CLOCK OPERATED	479	444	358	86	36
NOT REPORTED	9	9	7	2	-
NOT REPORTED	15	11	5	6	4

[1]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 HOUSEHOLD HEAD: 1979--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	8 355	6 575	4 971	1 604	1 780
UNITS OCCUPIED LAST WINTER	7 100	5 532	4 202	1 330	1 568
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	3 525	2 543	1 771	772	982
WITH SPECIFIED HEATING EQUIPMENT[1]	2 884	2 306	1 636	670	578
NO ADDITIONAL HEAT SOURCE USED	2 451	1 965	1 389	576	486
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	364	291	216	75	73
NOT REPORTED	69	50	31	19	19
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	641	237	135	102	404
RENTER OCCUPIED	3 575	2 989	2 430	558	586
WITH SPECIFIED HEATING EQUIPMENT[1]	2 922	2 638	2 156	481	285
NO ADDITIONAL HEAT SOURCE USED	2 135	1 911	1 576	336	224
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	686	640	521	119	46
NOT REPORTED	101	86	60	26	15
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	653	351	274	77	302
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	3 525	2 543	1 771	772	982
WITH SPECIFIED HEATING EQUIPMENT[1]	2 884	2 306	1 636	670	578
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 143	1 760	1 261	499	383
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	675	496	343	154	178
1 ROOM	162	129	101	28	34
2 ROOMS	178	132	95	37	46
3 ROOMS OR MORE	335	236	147	89	99
NOT REPORTED	66	50	33	17	16
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	641	237	135	102	404
RENTER OCCUPIED	3 575	2 989	2 430	558	586
WITH SPECIFIED HEATING EQUIPMENT[1]	2 922	2 638	2 156	481	285
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 130	1 997	1 645	352	133
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	688	551	446	104	138
1 ROOM	228	196	164	32	32
2 ROOMS	235	189	151	38	45
3 ROOMS OR MORE	225	165	131	34	61
NOT REPORTED	104	90	65	25	14
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	653	351	274	77	302
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	3 525	2 543	1 771	772	982
WITH SPECIFIED HEATING EQUIPMENT[1]	2 884	2 306	1 636	670	578
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	641	237	135	102	404
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	519	190	106	84	329
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	110	38	21	17	72
NOT REPORTED	13	10	8	1	3
RENTER OCCUPIED	3 575	2 989	2 430	558	586
WITH SPECIFIED HEATING EQUIPMENT[1]	2 922	2 638	2 156	481	285
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	653	351	274	77	302
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	481	259	211	48	223
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	143	73	45	28	70
NOT REPORTED	29	20	18	2	9

[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 HOUSEHOLD HEAD: 1979--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	8 355	6 575	4 971	1 604	1 780
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	162	63	26	36	99
WITH SELECTED HEATING EQUIPMENT[1]	3 550	2 621	1 830	791	929
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	3 374	2 501	1 743	758	873
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	158	107	75	31	52
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	34	16	8	8	18
FIREPLACE, BURNING WOOD OR COAL	17	11	10	1	6
PORTABLE ELECTRIC HEATER	81	63	45	17	18
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	14	7	5	2	6
OTHER	13	10	7	3	3
NOT REPORTED	1	-	-	-	1
NOT REPORTED	17	14	11	2	4
RENTER OCCUPIED	4 643	3 892	3 115	776	752
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	239	122	73	49	117
WITH SELECTED HEATING EQUIPMENT[1]	4 404	3 770	3 042	728	635
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	4 150	3 555	2 863	692	595
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	225	191	163	28	34
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	17	14	10	3	3
FIREPLACE, BURNING WOOD OR COAL	2	-	-	-	2
PORTABLE ELECTRIC HEATER	158	139	116	23	20
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	23	13	12	1	10
OTHER	23	23	21	2	-
NOT REPORTED	5	5	5	-	-
NOT REPORTED	29	23	15	8	6
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	927	385	227	159	542
WITH SELECTED HEATING EQUIPMENT[2]	2 784	2 298	1 629	669	486
LESS THAN 4 YEARS	397	284	181	103	114
4 TO 9 YEARS	762	546	357	189	216
10 TO 19 YEARS	781	666	460	206	115
20 TO 39 YEARS	407	383	304	79	24
40 YEARS OR MORE	48	47	37	10	2
DON'T KNOW	347	331	256	75	16
NOT REPORTED	41	41	35	7	-
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	927	385	227	159	542
WITH SELECTED HEATING EQUIPMENT[2]	2 784	2 298	1 629	669	486
NO MAINTENANCE OR MODIFICATION	2 146	1 736	1 223	513	410
WITH MAINTENANCE OR MODIFICATION	602	525	377	149	77
NOT REPORTED	37	37	30	7	-
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	927	385	227	159	542
WITH SELECTED HEATING EQUIPMENT[2]	2 784	2 298	1 629	669	486
NO MAINTENANCE CONTRACT	2 293	1 846	1 310	537	446
WITH MAINTENANCE CONTRACT	446	407	283	123	39
NOT REPORTED	46	45	36	9	1

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]EXCLUDES ROOM HEATERS WITH OR 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 HOUSEHOLD HEAD: 1979--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					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
NO HOT PIPED WATER	124	19	3	16	105
WITH HOT PIPED WATER	3 587	2 664	1 853	812	923
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	3 449	2 570	1 799	771	879
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	23	20	8	12	3
NOT REPORTED	114	74	46	28	40
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	4 643	3 892	3 115	776	752
NO HOT PIPED WATER	209	41	9	33	168
WITH HOT PIPED WATER	4 434	3 850	3 106	744	584
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	4 212	3 663	2 956	708	549
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	29	29	26	3	-
NOT REPORTED	187	158	125	33	29
NOT REPORTED	-	-	-	-	-
AIR CONDITIONING					
OWNER OCCUPIED	3 711	2 683	1 856	827	1 028
WITH AIR CONDITIONING	1 906	1 497	1 045	452	408
ROOM UNITS	1 267	957	722	236	310
1	757	518	382	137	239
2	383	319	242	77	64
3	93	87	70	18	6
4	25	25	23	2	-
5 OR MORE	9	8	5	3	1
CENTRAL SYSTEM	638	540	324	216	98
WITH NO AIR CONDITIONING	1 806	1 186	811	375	620
RENTER OCCUPIED	4 643	3 892	3 115	776	752
WITH AIR CONDITIONING	1 423	1 244	888	357	179
ROOM UNITS	875	754	595	158	122
1	678	579	463	116	98
2	163	144	104	40	19
3	19	15	15	-	4
4	10	10	9	2	-
5 OR MORE	5	5	3	2	-
CENTRAL SYSTEM	548	491	293	198	57
WITH NO AIR CONDITIONING	3 220	2 647	2 228	420	573
ALL OCCUPIED HOUSING UNITS	8 355	6 575	4 971	1 604	1 780
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	4 844	3 337	2 279	1 058	1 507
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	3 427	2 408	1 609	799	1 018
ALL WINDOWS COVERED	1 278	1 040	730	309	238
SOME WINDOWS COVERED	356	289	212	77	67
NO WINDOWS COVERED	1 770	1 057	647	410	712
NOT REPORTED	23	23	20	3	1
RENTER OCCUPIED	1 418	929	670	259	489
ALL WINDOWS COVERED	244	190	136	55	54
SOME WINDOWS COVERED	144	118	92	27	26
NO WINDOWS COVERED	940	549	390	159	390
NOT REPORTED	90	71	53	18	18
STORM DOORS					
OWNER OCCUPIED	3 427	2 408	1 609	799	1 018
ALL DOORS COVERED	1 290	1 042	754	288	248
SOME DOORS COVERED	562	404	278	126	158
NO DOORS COVERED	1 551	940	558	382	611
NOT REPORTED	23	23	20	3	1
RENTER OCCUPIED	1 418	929	670	259	489
ALL DOORS COVERED	237	197	144	53	40
SOME DOORS COVERED	126	91	75	16	35
NO DOORS COVERED	965	571	397	174	394
NOT REPORTED	90	70	53	16	20

[1]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 HOUSEHOLD HEAD: 1979--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	3 427	2 408	1 609	799	1 018
YES	2 025	1 476	943	533	549
NO	1 175	751	538	213	424
DON'T KNOW	198	155	106	50	43
NOT REPORTED	28	26	23	3	2
RENTER OCCUPIED	1 418	929	670	259	489
YES	320	228	156	72	93
NO	708	411	296	115	297
DON'T KNOW	293	219	164	55	74
NOT REPORTED	96	71	55	16	25
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	3 427	2 408	1 609	799	1 018
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	1 770	1 057	647	410	712
SOME OR ALL WINDOWS COVERED	1 634	1 329	942	386	305
NONE ADDED OR INSTALLED	1 396	1 151	810	341	245
SOME OR ALL ADDED OR INSTALLED	226	172	129	43	54
NOT REPORTED	12	5	3	2	7
NOT REPORTED	23	23	20	3	1
STORM DOORS:					
NO DOORS COVERED	1 551	940	558	382	611
SOME OR ALL DOORS COVERED	1 852	1 446	1 031	414	406
NONE ADDED OR INSTALLED	1 584	1 243	885	358	341
SOME OR ALL ADDED OR INSTALLED	211	164	121	43	46
NOT REPORTED	58	38	25	14	19
NOT REPORTED	23	23	20	3	1
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	1 175	751	538	213	424
WITH ATTIC OR ROOF INSULATION	2 025	1 476	943	533	549
NONE ADDED OR INSTALLED	1 821	1 334	851	483	487
SOME OR ALL ADDED OR INSTALLED	151	103	65	39	48
LESS THAN 3 INCHES ADDED	10	8	3	4	2
3 TO 6 INCHES ADDED	68	46	33	13	22
6 INCHES OR MORE ADDED	34	19	12	7	15
DON'T KNOW	27	20	8	11	7
NOT REPORTED	12	11	8	2	2
NOT REPORTED	52	39	28	11	14
DON'T KNOW	198	155	106	50	43
NOT REPORTED	28	26	23	3	2
WALL INSULATION:					
NONE ADDED OR INSTALLED	3 280	2 301	1 533	768	979
SOME OR ALL ADDED OR INSTALLED	117	79	55	24	38
NOT REPORTED	30	28	21	7	2
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	2 875	1 959	1 297	662	917
SOME OR ALL ADDED OR INSTALLED	500	405	281	124	95
DON'T KNOW	27	21	11	10	6
NOT REPORTED	24	23	20	3	1
OTHER INSULATION:					
NONE ADDED OR INSTALLED	3 321	2 326	1 550	776	995
SOME OR ALL ADDED OR INSTALLED	74	52	35	17	21
NOT REPORTED	32	30	24	5	2

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLD HEAD: 1979--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	1 418	929	670	259	489
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	940	549	390	159	390
SOME OR ALL WINDOWS COVERED	389	308	227	81	80
NONE ADDED OR INSTALLED	313	256	189	68	56
SOME OR ALL ADDED OR INSTALLED	62	40	30	11	22
NOT REPORTED	14	12	9	3	2
NOT REPORTED	90	71	53	18	18
STORM DOORS:					
NO DOORS COVERED	965	571	397	174	394
SOME OR ALL DOORS COVERED	363	288	220	68	75
NONE ADDED OR INSTALLED	301	240	182	57	61
SOME OR ALL ADDED OR INSTALLED	49	36	26	9	14
NOT REPORTED	14	13	11	2	1
NOT REPORTED	90	70	53	16	20
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	708	411	296	115	297
WITH ATTIC OR ROOF INSULATION	320	228	156	72	93
NONE ADDED OR INSTALLED	279	196	128	68	82
SOME OR ALL ADDED OR INSTALLED	23	16	16	-	7
LESS THAN 3 INCHES ADDED	5	3	3	-	2
3 TO 6 INCHES ADDED	4	4	4	-	1
6 INCHES OR MORE ADDED	2	2	2	-	1
DON'T KNOW	9	7	7	-	2
NOT REPORTED	2	-	-	-	2
NOT REPORTED	19	16	12	3	3
DON'T KNOW	293	219	164	55	74
NOT REPORTED	96	71	55	16	25
WALL INSULATION:					
NONE ADDED OR INSTALLED	1 289	830	591	239	459
SOME OR ALL ADDED OR INSTALLED	13	5	5	-	8
NOT REPORTED	116	94	74	20	22
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	1 152	716	517	199	436
SOME OR ALL ADDED OR INSTALLED	85	67	41	26	17
DON'T KNOW	93	78	60	18	15
NOT REPORTED	88	68	51	16	20
OTHER INSULATION:					
NONE ADDED OR INSTALLED	1 274	818	592	226	456
SOME OR ALL ADDED OR INSTALLED	25	14	5	9	11
NOT REPORTED	119	97	73	24	23
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	3 427	2 408	1 609	799	1 018
NO INSULATION ADDED OR INSTALLED	2 467	1 672	1 098	574	795
WITH INSULATION ADDED OR INSTALLED	824	639	442	197	185
LESS THAN $50	325	243	158	85	82
$50 TO $99	94	73	52	22	20
$100 TO $199	69	52	36	16	17
$200 TO $399	73	56	37	19	17
$400 OR MORE	140	120	92	27	21
DON'T KNOW	58	42	28	14	17
NOT REPORTED	64	54	39	14	10
MEDIAN	63	69	78	50-	50-
NOT REPORTED OR DON'T KNOW	135	97	69	28	38
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	82	60	45	15	22
LESS THAN $50	30	15	10	5	15
$50 TO $99	9	8	7	1	1
$100 TO $199	3	2	2	-	2
$200 TO $399	4	3	3	-	1
$400 OR MORE	20	19	17	2	2
DON'T KNOW	10	8	5	3	2
NOT REPORTED	5	5	2	3	1
MEDIAN	69	112	245	...	...

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH BLACK HOUSEHOLD HEAD: 1979--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					
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
ONLY ADDED OR INSTALLED STORM DOORS	90	65	46	19	24
LESS THAN $50	12	9	6	2	4
$50 TO $99	31	22	18	4	9
$100 TO $199	16	12	5	7	5
$200 TO $399	13	13	7	7	-
$400 OR MORE	6	3	3	-	2
DON'T KNOW	-	-	-	-	-
NOT REPORTED	10	7	7	-	4
MEDIAN	93	97	86	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	95	67	43	24	28
LESS THAN $50	11	6	3	2	5
$50 TO $99	8	5	2	3	4
$100 TO $199	12	11	10	2	1
$200 TO $399	10	8	5	3	2
$400 OR MORE	17	13	8	5	4
DON'T KNOW	18	12	7	5	6
NOT REPORTED	19	13	8	4	6
MEDIAN	181	197	...	...	...
ALL OCCUPIED HOUSING UNITS	8 355	6 575	4 971	1 604	1 780
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	2 423	1 842	1 230	612	581
DRIVES SELF	1 635	1 270	812	458	364
CARPOOL	473	303	203	99	170
MASS TRANSPORTATION	206	201	171	30	4
BICYCLE OR MOTORCYCLE	2	2	2	-	1
TAXICAB	7	3	3	-	4
WALKS ONLY	54	30	20	10	24
OTHER MEANS	17	9	5	4	8
WORKS AT HOME	17	11	5	6	5
NOT REPORTED	14	13	8	5	2
RENTER OCCUPIED	2 652	2 237	1 712	524	415
DRIVES SELF	1 234	1 033	725	308	201
CARPOOL	538	400	281	119	137
MASS TRANSPORTATION	625	619	570	49	6
BICYCLE OR MOTORCYCLE	9	9	3	6	-
TAXICAB	21	16	14	2	5
WALKS ONLY	181	123	95	28	58
OTHER MEANS	8	6	4	2	2
WORKS AT HOME	19	14	9	6	5
NOT REPORTED	19	17	12	5	2
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	2 423	1 842	1 230	612	581
LESS THAN 1 MILE	128	60	35	25	67
1 TO 4 MILES	522	368	287	81	154
5 TO 9 MILES	491	417	289	127	74
10 TO 19 MILES	594	493	317	176	101
20 TO 29 MILES	199	156	95	61	43
30 TO 49 MILES	110	74	38	36	36
50 MILES OR MORE	42	16	10	6	26
WORKS AT HOME	17	11	5	6	5
NO FIXED PLACE OF WORK	230	164	99	64	66
NOT REPORTED	92	84	55	29	8
MEDIAN	9.0	9.4	8.7	11.3	7.0
RENTER OCCUPIED	2 652	2 237	1 712	524	415
LESS THAN 1 MILE	268	164	118	46	103
1 TO 4 MILES	738	604	481	123	135
5 TO 9 MILES	545	490	399	91	55
10 TO 19 MILES	538	489	351	138	49
20 TO 29 MILES	147	133	94	39	14
30 TO 49 MILES	62	49	34	16	13
50 MILES OR MORE	12	8	7	1	5
WORKS AT HOME	19	14	9	6	5
NO FIXED PLACE OF WORK	185	151	121	30	34
NOT REPORTED	138	135	100	35	3
MEDIAN	6.4	7.0	6.8	8.2	3.5

[1]LIMITED TO HEADS 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 HOUSEHOLD HEAD: 1979--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					
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	2 423	1 842	1 230	612	581
LESS THAN 15 MINUTES	497	313	206	107	184
15 TO 29 MINUTES	847	673	470	203	175
30 TO 44 MINUTES	462	383	239	143	79
45 TO 59 MINUTES	164	147	116	31	17
1 HOUR TO 1 HOUR AND 29 MINUTES	119	91	58	33	28
1 HOUR AND 30 MINUTES OR MORE	51	30	20	10	21
WORKS AT HOME	17	11	5	6	5
NO FIXED PLACE OF WORK	230	164	99	64	66
NOT REPORTED	37	31	17	15	6
MEDIAN	25.1	26.2	26.1	26.5	20.8
RENTER OCCUPIED	2 652	2 237	1 712	524	415
LESS THAN 15 MINUTES	631	446	311	134	185
15 TO 29 MINUTES	919	789	602	188	130
30 TO 44 MINUTES	469	433	330	103	35
45 TO 59 MINUTES	179	172	144	28	7
1 HOUR TO 1 HOUR AND 29 MINUTES	166	157	131	26	10
1 HOUR AND 30 MINUTES OR MORE	60	56	52	4	5
WORKS AT HOME	19	14	9	6	5
NO FIXED PLACE OF WORK	185	151	121	30	34
NOT REPORTED	24	19	14	5	5
MEDIAN	24.4	26.0	26.8	23.5	15.0

[1]LIMITED TO HEADS 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 HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979

(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	3 931	3 306	1 995	1 310	625
HOUSE HEATING FUEL					
OWNER OCCUPIED	1 684	1 334	683	652	350
UTILITY GAS	1 183	963	529	434	220
BOTTLED, TANK, OR LP GAS	74	37	5	32	37
FUEL OIL	98	79	46	33	19
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	270	214	83	131	56
COAL OR COKE	-	-	-	-	-
WOOD	14	6	4	2	8
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	-	-	-	-	-
NONE	45	35	16	20	9
RENTER OCCUPIED	2 247	1 971	1 313	659	276
UTILITY GAS	1 243	1 095	685	411	148
BOTTLED, TANK, OR LP GAS	61	25	-	25	36
FUEL OIL	547	529	461	67	19
KEROSENE, ETC	3	2	-	2	1
ELECTRICITY	290	236	108	128	54
COAL OR COKE	2	2	2	-	-
WOOD	23	14	10	4	9
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	-	-	-	-	-
NONE	80	70	48	22	10
WATER HEATING FUEL					
OWNER OCCUPIED	1 684	1 334	683	652	350
NO HOT PIPED WATER	15	6	2	4	10
WITH HOT PIPED WATER	1 669	1 329	681	648	340
FUEL USED:					
UTILITY GAS	1 209	1 013	576	437	196
BOTTLED, TANK, OR LP GAS	72	33	2	31	39
FUEL OIL	37	34	23	11	3
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	351	249	80	169	102
COAL OR COKE	-	-	-	-	-
WOOD	-	-	-	-	-
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	-	-	-	-	-
NONE	-	-	-	-	-
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	2 247	1 971	1 313	659	276
NO HOT PIPED WATER	31	20	8	12	11
WITH HOT PIPED WATER	2 216	1 951	1 304	647	265
FUEL USED:					
UTILITY GAS	1 315	1 172	720	453	143
BOTTLED, TANK, OR LP GAS	52	16	-	16	36
FUEL OIL	502	493	445	48	10
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	336	259	131	127	77
COAL OR COKE	3	3	3	-	-
WOOD	-	-	-	-	-
SOLAR HEAT	2	2	-	2	-
OTHER FUEL	3	3	3	-	-
NONE	3	3	2	1	-
NOT REPORTED	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED	1 684	1 334	683	652	350
UTILITY GAS	1 035	844	493	351	191
BOTTLED, TANK, OR LP GAS	103	51	4	47	52
FUEL OIL	-	-	-	-	-
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	544	440	186	254	104
COAL OR COKE	-	-	-	-	-
WOOD	2	-	-	-	2
OTHER FUEL	-	-	-	-	-
NONE	-	-	-	-	-
RENTER OCCUPIED	2 247	1 971	1 313	659	276
UTILITY GAS	1 711	1 569	1 123	445	142
BOTTLED, TANK, OR LP GAS	77	34	-	34	43
FUEL OIL	2	2	2	-	-
KEROSENE, ETC	-	-	-	-	-
ELECTRICITY	438	353	177	176	85
COAL OR COKE	-	-	-	-	-
WOOD	5	-	-	-	5
OTHER FUEL	2	2	-	2	-
NONE	11	11	10	2	-

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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]	1 452	1 163	585	578	289
LESS THAN $10	25	18	7	11	7
$10 TO $19	239	180	94	86	59
$20 TO $29	346	285	137	148	60
$30 TO $39	271	216	122	94	54
$40 TO $49	174	149	82	67	25
$50 TO $59	116	100	43	57	16
$60 TO $79	142	108	46	62	34
$80 TO $99	54	40	21	19	14
$100 TO $149	66	50	28	22	16
$150 OR MORE	18	17	5	12	2
NO ELECTRICITY USED	1	-	-	-	1
MEDIAN	34	34	34	34	33
SPECIFIED RENTER OCCUPIED[2]	2 214	1 962	1 313	650	252
LESS THAN $10	176	157	91	67	19
$10 TO $19	592	541	350	191	51
$20 TO $29	426	379	241	138	47
$30 TO $39	230	195	138	57	35
$40 TO $49	114	101	78	23	13
$50 TO $59	53	45	24	21	8
$60 TO $79	78	68	42	26	10
$80 TO $99	23	19	12	7	4
$100 TO $149	22	18	10	9	4
$150 OR MORE	3	3	-	3	-
INCLUDED IN RENT	487	430	321	108	57
NO ELECTRICITY USED	9	5	5	-	4
MEDIAN	22	22	22	21	25
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS					
SPECIFIED OWNER OCCUPIED[1]	1 452	1 163	585	578	289
LESS THAN $10	136	108	55	53	28
$10 TO $14	231	189	106	83	42
$15 TO $19	192	156	69	87	36
$20 TO $24	160	133	56	78	27
$25 TO $29	113	88	51	37	24
$30 TO $39	199	159	103	56	40
$40 TO $49	99	83	41	42	17
$50 TO $69	77	55	33	22	23
$70 TO $99	29	26	16	10	3
$100 OR MORE	11	10	7	3	1
NO GAS USED	204	156	48	108	48
MEDIAN	22	22	23	21	22
SPECIFIED RENTER OCCUPIED[2]	2 214	1 962	1 313	650	252
LESS THAN $10	489	467	310	157	22
$10 TO $14	326	295	191	104	32
$15 TO $19	164	140	94	46	24
$20 TO $24	121	92	67	25	29
$25 TO $29	79	71	42	29	8
$30 TO $39	59	47	36	11	12
$40 TO $49	47	39	29	9	9
$50 TO $69	31	29	22	8	1
$70 TO $99	15	15	12	3	1
$100 OR MORE	13	9	6	2	4
INCLUDED IN RENT	644	571	411	160	73
NO GAS USED	228	189	93	96	39
MEDIAN	12	12	12	12	18
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.					
SPECIFIED OWNER OCCUPIED[1]	1 452	1 163	585	578	289
LESS THAN $100	30	28	12	15	2
$100 TO $199	9	8	3	5	1
$200 TO $299	5	2	-	2	3
$300 TO $399	4	3	-	3	1
$400 TO $499	6	4	-	4	2
$500 TO $599	10	10	7	3	-
$600 TO $699	10	8	3	5	2
$700 TO $799	9	9	-	9	-
$800 OR MORE	27	26	16	10	2
FUELS NOT USED OR FREE	1 342	1 065	544	521	277
MEDIAN	513	539	572	475	...

[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 HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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.--CONTINUED					
SPECIFIED RENTER OCCUPIED[1]	2 214	1 962	1 313	650	252
LESS THAN $100	19	12	12	1	7
$100 TO $199	8	4	-	4	4
$200 TO $299	3	1	-	1	2
$300 TO $399	7	7	5	2	-
$400 TO $499	5	2	-	2	2
$500 TO $599	7	7	7	-	-
$600 TO $699	2	2	2	-	-
$700 TO $799	2	2	2	-	-
$800 OR MORE	14	10	3	7	4
INCLUDED IN RENT	557	529	454	75	28
FUELS NOT USED OR FREE	1 591	1 386	828	558	205
MEDIAN	344	391	...	...	...
ALL OCCUPIED HOUSING UNITS	3 931	3 306	1 995	1 310	625
HEATING EQUIPMENT					
OWNER OCCUPIED	1 684	1 334	683	652	350
WARM-AIR FURNACE	744	604	268	336	141
HEAT PUMP	36	30	3	26	6
STEAM OR HOT WATER	111	99	73	26	12
BUILT-IN ELECTRIC UNITS	80	69	35	34	11
FLOOR, WALL, OR PIPELESS FURNACE	301	252	115	137	49
ROOM HEATERS WITH FLUE	99	65	47	18	34
ROOM HEATERS WITHOUT FLUE	179	115	82	33	65
FIREPLACES, STOVES, OR PORTABLE HEATERS	87	66	45	21	21
NONE	45	35	16	20	9
RENTER OCCUPIED	2 247	1 971	1 313	659	276
WARM-AIR FURNACE	451	380	224	155	71
HEAT PUMP	14	14	2	12	-
STEAM OR HOT WATER	691	674	584	90	17
BUILT-IN ELECTRIC UNITS	115	86	32	54	29
FLOOR, WALL, OR PIPELESS FURNACE	492	449	202	248	42
ROOM HEATERS WITH FLUE	158	126	95	31	31
ROOM HEATERS WITHOUT FLUE	177	119	94	25	58
FIREPLACES, STOVES, OR PORTABLE HEATERS	71	54	32	21	17
NONE	80	70	48	22	10
THERMOSTAT CONTROLLED HEATING EQUIPMENT					
OWNER OCCUPIED	1 684	1 334	683	652	350
NO HEATING EQUIPMENT	45	35	16	20	9
WITH HEATING EQUIPMENT	1 639	1 299	667	632	340
NO THERMOSTAT CONTROL	456	335	191	143	122
WITH THERMOSTAT CONTROL	1 178	961	472	489	218
NOT CLOCK OPERATED	896	709	337	372	186
CONSTANT TEMPERATURE SETTING MAINTAINED	396	309	162	146	87
TEMPERATURE SETTING IS CHANGED	492	396	173	223	96
OCCASIONALLY	159	134	58	76	25
REGULARLY	318	251	108	144	67
DON'T KNOW	13	9	5	3	4
NOT REPORTED	2	2	2	-	-
NOT REPORTED	8	5	2	3	3
CLOCK OPERATED	283	252	135	117	31
NOT REPORTED	-	-	-	-	-
NOT REPORTED	4	3	3	-	1
RENTER OCCUPIED	2 247	1 971	1 313	659	276
NO HEATING EQUIPMENT	80	70	48	22	10
WITH HEATING EQUIPMENT	2 168	1 902	1 265	637	266
NO THERMOSTAT CONTROL	1 277	1 145	856	289	132
WITH THERMOSTAT CONTROL	883	753	406	347	130
NOT CLOCK OPERATED	695	581	313	268	114
CONSTANT TEMPERATURE SETTING MAINTAINED	338	284	151	133	54
TEMPERATURE SETTING IS CHANGED	325	268	146	122	57
OCCASIONALLY	120	97	59	39	23
REGULARLY	182	149	73	76	33
DON'T KNOW	21	21	14	6	1
NOT REPORTED	1	1	-	1	-
NOT REPORTED	32	29	16	13	3
CLOCK OPERATED	184	169	89	79	15
NOT REPORTED	3	3	3	-	-
NOT REPORTED	8	4	3	1	4

[1]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 HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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	3 931	3 306	1 995	1 310	625
UNITS OCCUPIED LAST WINTER	3 062	2 576	1 569	1 007	485
INSUFFICIENT HEAT					
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED	1 506	1 193	610	583	314
WITH SPECIFIED HEATING EQUIPMENT[1]	1 219	1 000	478	522	219
NO ADDITIONAL HEAT SOURCE USED	1 101	904	426	478	196
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	98	79	48	31	19
NOT REPORTED	21	17	4	13	4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	287	193	132	61	94
RENTER OCCUPIED	1 555	1 384	960	424	172
WITH SPECIFIED HEATING EQUIPMENT[1]	1 335	1 225	843	382	110
NO ADDITIONAL HEAT SOURCE USED	1 086	996	666	330	90
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	201	185	144	42	15
NOT REPORTED	48	44	34	10	5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	221	158	116	42	62
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED	1 506	1 193	610	583	314
WITH SPECIFIED HEATING EQUIPMENT[1]	1 219	1 000	478	522	219
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	780	647	305	342	133
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	424	340	169	171	84
1 ROOM	91	74	34	41	17
2 ROOMS	112	80	42	39	32
3 ROOMS OR MORE	220	185	94	92	35
NOT REPORTED	16	13	4	9	3
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	287	193	132	61	94
RENTER OCCUPIED	1 555	1 384	960	424	172
WITH SPECIFIED HEATING EQUIPMENT[1]	1 335	1 225	843	382	110
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	850	792	591	201	58
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	429	382	213	169	47
1 ROOM	168	158	92	66	10
2 ROOMS	153	135	66	69	18
3 ROOMS OR MORE	108	89	55	34	19
NOT REPORTED	56	51	39	12	5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	221	158	116	42	62
HOUSING UNIT UNCOMFORTABLY COLD:					
OWNER OCCUPIED	1 506	1 193	610	583	314
WITH SPECIFIED HEATING EQUIPMENT[1]	1 219	1 000	478	522	219
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	287	193	132	61	94
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	230	155	116	39	75
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	48	31	11	20	17
NOT REPORTED	9	7	5	2	2
RENTER OCCUPIED	1 555	1 384	960	424	172
WITH SPECIFIED HEATING EQUIPMENT[1]	1 335	1 225	843	382	110
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	221	158	116	42	62
HOUSING UNIT NOT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	165	115	82	33	50
HOUSING UNIT UNCOMFORTABLY COLD FOR 24 HOURS OR MORE	42	33	26	7	9
NOT REPORTED	13	10	8	2	3

[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 HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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	3 931	3 306	1 995	1 310	625
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED	1 684	1 334	683	652	350
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	132	101	61	41	31
WITH SELECTED HEATING EQUIPMENT[1]	1 552	1 233	622	611	319
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 480	1 182	594	588	298
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	67	49	28	21	19
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	11	2	-	2	9
FIREPLACE, BURNING WOOD OR COAL	10	8	5	3	2
PORTABLE ELECTRIC HEATER	32	25	16	9	7
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	3	3	2	2	-
OTHER	11	8	5	3	3
NOT REPORTED	2	2	-	2	-
NOT REPORTED	4	2	-	2	2
RENTER OCCUPIED	2 247	1 971	1 313	659	276
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	151	123	80	43	27
WITH SELECTED HEATING EQUIPMENT[1]	2 097	1 848	1 232	616	249
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 977	1 741	1 148	593	236
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	105	96	74	21	9
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	4	3	2	2	1
FIREPLACE, BURNING WOOD OR COAL	-	-	-	-	-
PORTABLE ELECTRIC HEATER	80	73	58	15	7
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	9	7	6	1	2
OTHER	8	8	5	3	-
NOT REPORTED	4	4	3	1	-
NOT REPORTED	14	11	10	2	3
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED	1 684	1 334	683	652	350
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	411	281	189	92	130
WITH SELECTED HEATING EQUIPMENT[2]	1 273	1 053	493	560	219
LESS THAN 4 YEARS	283	226	101	125	57
4 TO 9 YEARS	353	279	115	164	74
10 TO 19 YEARS	282	237	127	110	45
20 TO 39 YEARS	214	199	87	112	15
40 YEARS OR MORE	26	21	9	12	5
DON'T KNOW	106	85	51	34	21
NOT REPORTED	10	7	3	3	3
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED	1 684	1 334	683	652	350
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	411	281	189	92	130
WITH SELECTED HEATING EQUIPMENT[2]	1 273	1 053	493	560	219
NO MAINTENANCE OR MODIFICATION	1 036	858	386	472	178
WITH MAINTENANCE OR MODIFICATION	226	188	103	86	38
NOT REPORTED	10	7	5	2	3
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED	1 684	1 334	683	652	350
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	411	281	189	92	130
WITH SELECTED HEATING EQUIPMENT[2]	1 273	1 053	493	560	219
NO MAINTENANCE CONTRACT	1 125	932	430	503	193
WITH MAINTENANCE CONTRACT	135	112	57	55	23
NOT REPORTED	13	9	7	3	3

[1]EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.
[2]EXCLUDES ROOM HEATERS WITH OR 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 HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT					
OWNER OCCUPIED	1 684	1 334	683	652	350
NO HOT PIPED WATER	15	6	2	4	10
WITH HOT PIPED WATER	1 669	1 329	681	648	340
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	1 616	1 292	657	635	324
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	17	17	10	7	-
NOT REPORTED	36	20	14	6	16
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	2 247	1 971	1 313	659	276
NO HOT PIPED WATER	31	20	8	12	11
WITH HOT PIPED WATER	2 216	1 951	1 304	647	265
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	2 137	1 681	1 265	615	256
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT[1]	6	5	2	3	2
NOT REPORTED	68	61	36	25	7
NOT REPORTED	-	-	-	-	-
AIR CONDITIONING					
OWNER OCCUPIED	1 684	1 334	683	652	350
WITH AIR CONDITIONING	867	709	344	365	158
ROOM UNITS	424	362	209	153	63
1	244	204	102	102	40
2	142	124	89	35	18
3	22	18	10	7	4
4	16	15	7	8	1
5 OR MORE	-	-	-	-	-
CENTRAL SYSTEM	443	347	135	212	95
WITH NO AIR CONDITIONING	817	625	338	287	191
RENTER OCCUPIED	2 247	1 971	1 313	659	276
WITH AIR CONDITIONING	758	641	393	248	117
ROOM UNITS	466	402	262	140	63
1	385	327	210	117	58
2	71	68	47	21	4
3	10	8	5	3	2
4	-	-	-	-	-
5 OR MORE	-	-	-	-	-
CENTRAL SYSTEM	292	238	131	107	54
WITH NO AIR CONDITIONING	1 489	1 330	919	411	159
ALL OCCUPIED HOUSING UNITS	3 931	3 306	1 995	1 310	625
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 240	1 743	860	884	497
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING					
OWNER OCCUPIED	1 556	1 219	602	617	337
ALL WINDOWS COVERED	312	238	99	140	74
SOME WINDOWS COVERED	114	93	54	39	21
NO WINDOWS COVERED	1 118	878	447	431	240
NOT REPORTED	11	10	2	8	2
RENTER OCCUPIED	684	524	258	267	160
ALL WINDOWS COVERED	90	66	33	34	23
SOME WINDOWS COVERED	37	20	7	13	17
NO WINDOWS COVERED	514	396	193	203	117
NOT REPORTED	43	41	25	16	2
STORM DOORS					
OWNER OCCUPIED	1 556	1 219	602	617	337
ALL DOORS COVERED	283	220	104	115	64
SOME DOORS COVERED	114	75	39	36	39
NO DOORS COVERED	1 149	915	457	458	234
NOT REPORTED	10	10	2	8	-
RENTER OCCUPIED	684	524	258	267	160
ALL DOORS COVERED	59	41	23	18	18
SOME DOORS COVERED	26	14	9	5	12
NO DOORS COVERED	555	429	201	228	127
NOT REPORTED	43	41	25	16	2

[1]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 HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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	1 556	1 219	602	617	337
YES	1 003	778	349	429	226
NO	450	362	214	148	89
DON'T KNOW	91	70	38	33	21
NOT REPORTED	12	10	2	8	2
RENTER OCCUPIED	684	524	258	267	160
YES	165	106	40	66	59
NO	284	234	111	122	51
DON'T KNOW	189	142	82	60	47
NOT REPORTED	46	42	25	17	3
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	1 556	1 219	602	617	337
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	1 118	878	447	431	240
SOME OR ALL WINDOWS COVERED	427	331	153	178	95
NONE ADDED OR INSTALLED	344	270	128	142	74
SOME OR ALL ADDED OR INSTALLED	74	52	22	30	22
NOT REPORTED	9	9	3	6	-
NOT REPORTED	11	10	2	8	2
STORM DOORS:					
NO DOORS COVERED	1 149	915	457	458	234
SOME OR ALL DOORS COVERED	397	294	143	151	103
NONE ADDED OR INSTALLED	335	251	127	124	84
SOME OR ALL ADDED OR INSTALLED	53	35	12	23	18
NOT REPORTED	8	8	4	4	1
NOT REPORTED	10	10	2	8	-
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	450	362	214	148	89
WITH ATTIC OR ROOF INSULATION	1 003	778	349	429	226
NONE ADDED OR INSTALLED	884	679	303	376	205
SOME OR ALL ADDED OR INSTALLED	92	73	37	36	19
LESS THAN 3 INCHES ADDED	7	7	3	4	-
3 TO 6 INCHES ADDED	42	31	15	15	11
6 INCHES OR MORE ADDED	19	14	7	8	5
DON'T KNOW	23	19	11	8	3
NOT REPORTED	1	1	-	1	-
NOT REPORTED	27	26	9	17	2
DON'T KNOW	91	70	38	33	21
NOT REPORTED	12	10	2	8	2
WALL INSULATION:					
NONE ADDED OR INSTALLED	1 461	1 145	567	579	316
SOME OR ALL ADDED OR INSTALLED	79	59	30	29	21
NOT REPORTED	16	15	5	10	1
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	1 311	1 025	513	512	286
SOME OR ALL ADDED OR INSTALLED	221	172	81	90	50
DON'T KNOW	16	14	6	8	2
NOT REPORTED	8	8	2	6	-
OTHER INSULATION:					
NONE ADDED OR INSTALLED	1 521	1 193	590	603	328
SOME OR ALL ADDED OR INSTALLED	25	16	8	8	9
NOT REPORTED	11	10	4	6	1

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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	684	524	258	267	160
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:					
NO WINDOWS COVERED	514	396	193	203	117
SOME OR ALL WINDOWS COVERED	127	87	40	47	40
NONE ADDED OR INSTALLED	103	76	33	43	27
SOME OR ALL ADDED OR INSTALLED	21	9	5	4	12
NOT REPORTED	3	2	2	-	1
NOT REPORTED	43	41	25	16	2
STORM DOORS:					
NO DOORS COVERED	555	429	201	228	127
SOME OR ALL DOORS COVERED	85	55	32	23	30
NONE ADDED OR INSTALLED	70	46	24	22	24
SOME OR ALL ADDED OR INSTALLED	9	5	5	-	4
NOT REPORTED	6	3	2	2	2
NOT REPORTED	43	41	25	16	2
ATTIC OR ROOF INSULATION:					
NO ATTIC OR ROOF INSULATION	284	234	111	122	51
WITH ATTIC OR ROOF INSULATION	165	106	40	66	59
NONE ADDED OR INSTALLED	152	101	40	61	51
SOME OR ALL ADDED OR INSTALLED	6	1	-	1	5
LESS THAN 3 INCHES ADDED	-	-	-	-	-
3 TO 6 INCHES ADDED	2	-	-	-	2
6 INCHES OR MORE ADDED	-	-	-	-	-
DON'T KNOW	3	1	-	1	2
NOT REPORTED	1	1	-	1	-
NOT REPORTED	7	4	-	4	3
DON'T KNOW	189	142	82	60	47
NOT REPORTED	46	42	25	17	3
WALL INSULATION:					
NONE ADDED OR INSTALLED	625	476	231	245	148
SOME OR ALL ADDED OR INSTALLED	5	1	-	1	4
NOT REPORTED	55	47	27	20	8
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:					
NONE ADDED OR INSTALLED	566	437	209	228	129
SOME OR ALL ADDED OR INSTALLED	35	16	7	9	19
DON'T KNOW	36	28	16	12	8
NOT REPORTED	46	42	25	17	3
OTHER INSULATION:					
NONE ADDED OR INSTALLED	623	474	230	245	149
SOME OR ALL ADDED OR INSTALLED	7	2	2	1	4
NOT REPORTED	54	48	27	21	6
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS					
OWNER OCCUPIED	1 556	1 219	602	617	337
NO INSULATION ADDED OR INSTALLED	1 164	917	467	450	247
WITH INSULATION ADDED OR INSTALLED	340	254	119	135	86
LESS THAN $50	133	102	42	60	30
$50 TO $99	34	20	5	15	14
$100 TO $199	36	27	10	17	9
$200 TO $399	29	19	16	3	10
$400 OR MORE	55	42	16	26	13
DON'T KNOW	24	18	12	6	6
NOT REPORTED	29	26	17	8	4
MEDIAN	66	57	73	51	77
NOT REPORTED OR DON'T KNOW	52	48	16	32	4
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	22	14	5	8	8
LESS THAN $50	9	2	-	2	7
$50 TO $99	3	3	-	3	-
$100 TO $199	2	2	-	2	1
$200 TO $399	4	4	4	1	-
$400 OR MORE	1	-	-	-	1
DON'T KNOW	-	-	-	-	-
NOT REPORTED	2	2	2	-	-
MEDIAN	...	...	...	...	...

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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					
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS--CONTINUED					
ONLY ADDED OR INSTALLED STORM DOORS	14	6	2	4	8
LESS THAN $50	2	-	-	-	2
$50 TO $99	7	2	-	2	5
$100 TO $199	2	-	-	-	2
$200 TO $399	-	-	-	-	-
$400 OR MORE	-	-	-	-	-
DON'T KNOW	-	-	-	-	-
NOT REPORTED	3	3	2	2	-
MEDIAN	...	...	-	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	61	48	26	22	14
LESS THAN $50	7	6	3	3	1
$50 TO $99	2	-	-	-	2
$100 TO $199	15	13	7	6	2
$200 TO $399	8	5	3	2	3
$400 OR MORE	14	12	3	8	2
DON'T KNOW	11	7	7	1	4
NOT REPORTED	4	4	2	2	-
MEDIAN	193	190	...	...	...
ALL OCCUPIED HOUSING UNITS	3 931	3 306	1 995	1 310	625
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK[1]					
OWNER OCCUPIED	1 319	1 073	532	541	246
DRIVES SELF	985	815	405	410	170
CARPOOL	248	182	81	101	66
MASS TRANSPORTATION	46	43	28	15	3
BICYCLE OR MOTORCYCLE	9	8	5	3	2
TAXICAB	-	-	-	-	-
WALKS ONLY	17	14	9	5	3
OTHER MEANS	2	2	-	2	-
WORKS AT HOME	10	7	2	5	2
NOT REPORTED	3	3	2	1	-
RENTER OCCUPIED	1 560	1 350	861	489	209
DRIVES SELF	800	671	365	306	128
CARPOOL	302	254	148	106	48
MASS TRANSPORTATION	285	283	249	34	2
BICYCLE OR MOTORCYCLE	19	14	8	6	5
TAXICAB	2	2	2	-	-
WALKS ONLY	122	104	74	30	18
OTHER MEANS	9	9	6	3	-
WORKS AT HOME	17	9	6	3	8
NOT REPORTED	4	4	3	1	-
DISTANCE FROM HOME TO WORK[1]					
OWNER OCCUPIED	1 319	1 073	532	541	246
LESS THAN 1 MILE	69	42	26	15	28
1 TO 4 MILES	327	260	149	111	67
5 TO 9 MILES	246	201	120	81	45
10 TO 19 MILES	327	285	128	157	42
20 TO 29 MILES	80	60	17	43	19
30 TO 49 MILES	68	52	14	39	16
50 MILES OR MORE	18	15	12	2	3
WORKS AT HOME	10	7	2	5	2
NO FIXED PLACE OF WORK	142	121	52	70	21
NOT REPORTED	32	29	12	17	3
MEDIAN	8.5	8.9	7.4	11.1	6.7
RENTER OCCUPIED	1 560	1 350	861	489	209
LESS THAN 1 MILE	178	150	107	42	28
1 TO 4 MILES	377	319	211	108	57
5 TO 9 MILES	341	302	198	104	39
10 TO 19 MILES	292	265	155	109	27
20 TO 29 MILES	91	83	52	31	8
30 TO 49 MILES	57	49	24	25	8
50 MILES OR MORE	14	9	9	-	5
WORKS AT HOME	17	9	6	3	8
NO FIXED PLACE OF WORK	138	115	60	55	22
NOT REPORTED	56	50	38	12	7
MEDIAN	6.8	7.0	6.5	7.9	5.0

[1]LIMITED TO HEADS 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 HOUSEHOLD HEAD OF SPANISH ORIGIN: 1979--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					
TRAVEL TIME FROM HOME TO WORK[1]					
OWNER OCCUPIED	1 319	1 073	532	541	246
LESS THAN 15 MINUTES	390	296	166	130	94
15 TO 29 MINUTES	479	393	205	188	86
30 TO 44 MINUTES	178	158	66	92	20
45 TO 59 MINUTES	50	43	14	30	7
1 HOUR TO 1 HOUR AND 29 MINUTES	48	37	21	16	11
1 HOUR AND 30 MINUTES OR MORE	14	11	7	4	3
WORKS AT HOME	10	7	2	5	2
NO FIXED PLACE OF WORK	142	121	52	70	21
NOT REPORTED	10	7	-	7	3
MEDIAN	20.9	21.6	20.3	22.9	17.8
RENTER OCCUPIED	1 560	1 350	861	489	209
LESS THAN 15 MINUTES	470	372	220	152	98
15 TO 29 MINUTES	508	455	278	178	53
30 TO 44 MINUTES	225	216	149	67	8
45 TO 59 MINUTES	75	71	52	18	5
1 HOUR TO 1 HOUR AND 29 MINUTES	88	84	71	12	5
1 HOUR AND 30 MINUTES OR MORE	19	15	13	2	4
WORKS AT HOME	17	9	6	3	8
NO FIXED PLACE OF WORK	138	115	60	55	22
NOT REPORTED	20	13	11	2	7
MEDIAN	21.5	22.7	24.2	20.2	15.0-

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

Appendix A

Area Classifications, Definitions and Explanations of Subject Characteristics, and Fascimile of the Annual Housing Survey Questionnaire: 1979

AREA CLASSIFICATIONS App-2
Urban and rural residence 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, a standard metropolitan statistical area 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 1979 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 problem 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 1978 Annual Housing Surveys—Most of the concepts and definitions used in the 1973 through 1979 reports are essentially the same. However, there are significant differences in the measurement of housing losses between the 1973 report and the 1974 through 1979 reports. In the 1974 through 1979 reports, the data refer to losses of individual housing units, but, 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 1979 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 1979 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 1979 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 1979 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 1970 Census of Population data—In the 1970 census, 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 1979 Annual Housing Survey, 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 head. Therefore, the 1979 Annual Housing Survey may overstate the education level of the head of the household; that is, respondents may have reported the grade or year the head was currently enrolled in or had last been enrolled in whether or not the grade or year was completed.

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 58,000 units (interviews obtained for approximately 55,000 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 1979 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 70,000 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, household heads 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 head," the differences cited in the section, "Comparability with 1970 Census of Population data," also apply to the Current Population Survey.

Additional differences between the 1979 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-family homes 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 1979 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 1-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 nonresidential 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 head, they are classified as one housing unit; if the combined quarters contain five or more roomers unrelated to the head 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 1979 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 1979 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—Source and Reliability of the Estimates.) 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 1979 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 1979 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 a 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 1979 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 1979 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 1979 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 1979 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 Annual Housing Survey, 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 1979 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 or 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 by race refers to the race of the head of the household 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 head of the household 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 household heads; units with household heads 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 household head 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 census, race was essentially a self-classification by people according to the race with which they identified themselves.

Spanish origin—The classification by Spanish origin here refers to the origin of the head of the household occupying the housing unit. Detailed characteristics of units with head 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 1979 Annual Housing Survey and the 1970 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 1970 census some respondents apparently misinterpreted the Spanish-origin category, "Central or South American" to mean the central or southern part of the U.S.

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 *not* related to the head by blood, marriage, or adoption occupied the sample housing unit prior to the head's or other related household member's occupancy. "Not previously occupied" indicates that either the head or some other current household member related to the head 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 are 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 head of household; the data refer to the period when present occupancy began. Statistics are shown on whether the head lived in the housing unit "less than 3 months" or "3 months or longer." A head who "lived here last winter," must have moved into the unit prior to the previous February.

Year head moved into unit.—The data are based on the information reported for the head of the household and refer to the year of latest move. Thus, if the head moved back into a housing unit previously occupied, the year of the latest move was to be reported; if the head moved from one apartment to another in the same building, the year the head moved into the present housing unit was to be reported. The intent is to establish the year the present occupancy by the head began. The year the head 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.

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 head of the household.

Present and previous units of recent movers—The "present" unit is the housing unit occupied by the recent mover household head at the time of the interview. The "previous" unit is the unit from which the head moved. If the household head moved more than once during the 12 months prior to the date of the interview, the "previous" unit is the one from which the household head last moved.

Same or different head—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 head in the present unit is the same person as the head in the previous unit (identified in the tables as "same head") 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 household head was considered a household with "different head."

Data for household heads whose previous residence was outside the United States are tabulated in the category "different head."

Main reason for move from previous residence—The statistics presented are restricted to housing units occupied by recent movers in which the present head of household was also the head at the previously occupied unit. The classification categories refer to the principal reason the head of the household moved into the present 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 head of household was also the head at the previously occupied unit. The classification categories refer to the principal reason the head of the household 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 conveniencies, lower rent or less expensive house, and other housing needs.

The cateogry "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 household heads 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 head 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.

Owner or manager on property—These statistics are based on the number of housing units in structures of two or more units with the owner, resident manager, or superintendent living on the property. The category "with owner on property" refers to the owner and not the agent, resident manager, or superintendent. "With resident manager or superintendent on property" refers to a resident manager, superintendent, janitor, or other representative of the owner.

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 occupancy 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 of 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 occassional 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 1979 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 1979 tabulations. For 1974 through 1979, 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—Source and Reliability of the Estimates.) 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 1979 data for vacant units adhere more closely to the independent estimates than the 1973 data.

Homeowner vacancy rate—The 1979 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 1979 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 1-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 head of the household but also any lodgers, roomers, boarders, partners, wards, foster children, and resident employees who share the living quarters of the household head. 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 hideaway 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 a 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 housing 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 that either has 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 1-unit structure is detached if it has open space on all four sides even though it has an adjoining shed or garage. A 1-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 1-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 1-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 the 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 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 head 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. A chemical toilet uses chemicals to breakdown or dissolve sewage; a privy refers to an "outhouse" or other small shelter outside the unit which contains a toilet. Units for which sewage is disposed of in some other way are included in the "other" category.

Equipment and Fuels

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.

For breakdowns or failures of heating equipment, data are shown for units occupied by the household head during the winter prior to the interview if the equipment was unusable for 6 consecutive hours or longer during that time. To qualify as having lived here "last winter," the household head must have moved into the unit prior to February 1979.

Heating equipment is considered unusable if it cannot be used for the purposes intended; the breakdown or failure may be caused by broken pipes, electrical or gas parts out of order, or downed power lines.

Thermostat controlled heating equipment—A thermostat is an electronic device which automatically regulates the heating equipment based on the temperature of the air in the room where it is located. A housing unit is classified as having a thermostat if it is available in the housing unit for the use of the occupants. A "clock operated" thermostat is capable of automatically changing it's temperature setting at specific times. A housing unit is classified as having a clock operated thermostat regardless of whether or not it is used.

Thermostats which are not clock operated are further classified as to whether or not a constant temperature setting is maintained. Occasional changing of the thermostat refers to 3 or

fewer days a week and regular changing of the thermostat refers to 4 or more days a week. Thermostats changed only when the household leaves the housing unit temporarily for vacations, etc., are included in the "constant temperature setting maintained" category.

Age of heating equipment—The age of the heating equipment of a housing unit is determined for the major heating source of the housing unit. If the various components of the heating equipment are of different ages the age of the major component is presented. Housing units whose major source of heat is room heaters with or without a flue or vent, fireplaces, stoves, or portable heaters are excluded.

Maintenance or modification of heating equipment during last 12 months—This item refers to maintenance or modification of the major heating equipment during the 12 months prior to the time of interview. Maintenance refers to upkeep of the heating system, for example, cleaning, oiling, and the replacement of worn parts, etc. Modifications are changes to the heating equipment such as the installation of dampers, the addition of a humidifier, or the installation of new parts to change the type of fuel used, etc. Housing units where major source of heat in room heaters with or without a flue or vent, fireplaces, stoves, or portable heaters are excluded.

Contracted maintenance of heating equipment—A maintenance contract refers to a written agreement between the owner and a heating contractor to provide services necessary for the upkeep of the heating equipment. Housing units whose major source of heat is room heaters with or without a flue or vent, fireplaces, stoves, or portable heaters are excluded.

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 household head occupied the unit during the winter prior to the date of the interview. To qualify as having lived here "last winter," the household head must have moved into the unit prior to February 1979.

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.

The statistics for water heating fuel are limited to households reporting the presence of hot piped water.

Services and Neighborhood Conditions

Exterminator service—The statistics on exterminator 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 exterminator service.

Overall opinion of neighborhood—The data presented are based on the respondent's overall opinion of the neighborhood. The respondent was asked to rate the street or neighborhood as excellent, good, fair, or poor.

Neighborhood conditions and neighborhood services—The statistics presented are based on the respondent's opinion and attitude toward the neighborhood in which he lives. Thus, the respondent's answer may or may not reflect the actual description of the neighborhood. Furthermore, the respondent may not have the same opinion as his neighbor about the neighborhood services; for example, the respondent may feel that the street lighting or neighborhood shopping facilities are inadequate while his neighbor may not.

Neighborhood conditions, and neighborhood conditions and wish to move—Data on neighborhood conditions are based on the respondent's answers to a three-part question concerning specific neighborhood conditions. The respondent was asked (1) if the condition was present, (2) if the condition was bothersome and, (3) if the condition was so objectionable that he would like to move from the neighborhood.

1. Street noise—Street noise refers to noise made by children playing outdoors, noise from a factory or business, or any other sounds that the respondent considers street noise.

2. Streets need repair—The data are based on the respondent's opinion that the streets, either paved or unpaved, are continually in need of repair or are bordered by open ditches used for water or sewage drainage.

3. Neighborhood crime—This category refers to all forms of street and neighborhood crime such as petty theft, assaults against the person, burglary, etc., or any related activities that the respondent judges to be a crime.

4. Trash, litter—Included are all types of trash, debris, or junk such as paper, cans, or abandoned cars in the street, on empty lots, or on properties on the street which the respondent considers as litter.

5. Boarded-up or abandoned buildings—This category refers to both single and multiunit buildings which the respondent reported to be abandoned or boarded up. Included in this category are remains of previous buildings.

6. Commercial or industrial—This category refers to commercial, industrial, or other activities, including both large and small industries as well as businesses and stores, that the respondent considers to be nonresidential.

7. Odors—This category refers to the respondent's opinion concerning fumes, smoke, or gas coming from cars, trucks, nearby industries, factories, businesses, etc.

Neighborhood services—Data on neighborhood services are based on the respondent's answer to a series of questions concerning neighborhood services. Police protection, outdoor recreation facilities, and hospitals or health clinics were covered by a two-part question in which the respondent was asked (1) if a particular neighborhood service was satisfactory, and (2) if the condition was so unsatisfactory that he would like to move from the neighborhood.

1. Police protection—This category refers to the respondent's opinion about the presence, quality, quantity, and response time of services that should be provided by the police.

2. Outdoor recreation facilities, such as parks, playgrounds, or swimming pools—This category refers to the respondent's assessment of neighborhood outdoor recreation facilities.

3. Hospitals and health clinics—This category refers to the quality and proximity of health facilities, etc., serving the local community in the opinion of the respondent.

The respondent was also asked to respond to a three-part question on public transportation: (1) if service is available, (2) if service is satisfactory, and, (3) if any member of the household used the service at least once a week.

Data were also collected on satisfaction with neighborhood shopping such as grocery stores and drug stores, and whether or not these stores are located within 1 mile of the neighborhood.

Respondents were asked a three-part question on public elementary schools: (1) if children within the household attend public elementary school or private elementary school, (2) if the public elementary school is satisfactory and, (3) if the public elementary school is within 1 mile of the neighborhood.

Overall opinion of neighborhood—The data presented are based on the respondent's overall opinion of the neighborhood according to conditions and neighborhood services available (described in preceding paragraphs). The respondent was asked to rate the neighborhood as excellent, good, fair, or poor.

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 1-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 1979 income statistics are for the 12 months prior to the date of the interview. For 1970, the income statistics cover the calendar year 1969.

Sale 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 1-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, 1-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, 1-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, 1-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 install-

ments. 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, 1-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, 1-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 or 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 and trash 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.

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 of 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; for example, 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 1-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 1-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 1-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 com-

puted 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 1979 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 and trash collection and furniture)—Counts are shown separately for units in which garbage and trash collection and furniture are included in the rent. The data are restricted to renter-occupied units for which cash rent is paid and exclude 1-unit structures on 10 acres or more.

Garbage and trash collection—Included are units which have garbage and trash 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.

Furniture—The statistics refer to furnished apartments or houses in which the management supplied major pieces of furniture such as a bed, sofa, chest of drawers, and table and chairs for the use of the occupant. Refrigerator, cooking range or stove, lamps, and rugs are not considered furniture. Housing units in which the occupants rent furniture from source other than the management are not classified as furnished.

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 1-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 and trash 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 1-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.

Head of household—One person in each household is designated as the "head"; that is, the person who is regarded as the head by the members of the household. However, if a married woman living with her husband is reported as the head, her husband was considered the head in order to simplify the tabulations.

Household composition by age of head, or type of household—Statistics by age of head 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:

Male head, wife present, no nonrelatives—Each household in this group consists of the head and his wife, and other persons, if any, all of whom are related to him. In part B, the category "husband-wife" consists of the head and his wife and all other persons occupying the unit whether or not they are related to the head.

Other male head—This category includes households with male heads who are married, but with wife absent because of separation or other reason where husband and wife maintain separate residences; and male heads who are widowed, divorced, or single. In parts A, C, D, and E, this category includes households with male head, wife present *and* nonrelatives living with them. In part B, all "male head, wife present" households are included in the "husband-wife" category.

Female head—This group comprises households with female heads regardless of their marital status. Included are female

heads with no spouse and female heads whose husbands are living away from their families; for example, husbands in the Armed Forces living on military installations.

Households consisting of only one person are shown separately for male head and female head 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 head of a household and all (one or more) other persons living in the same household who are related to the head by blood, marriage, or adoption. If the head lives alone or with nonrelatives only, then the head is considered a "primary individual."

Married couples related to the head of a family are included in the family and are not considered as separate families. A lodger, servant, or other persons unrelated to the head 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 head" or "female head." 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 head of the household or his wife. 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 head—The age classification refers to the age reported for the head of the household as of that person's last birthday.

Persons 65 years old and over—All persons, including the head, 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 household heads 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 household head. Own children of subfamilies are excluded from the total count of own children.

Other relative of head—This category includes all persons related to the head by blood, marriage, or adoption except wife or child of head and members of subfamilies.

Nonrelative—A nonrelative of the head is any person in the household who is not related to the head 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 head—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 regarded as transferable to a school in the regular school system. Household heads 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 the following types of schools is not counted as "regular schooling." Vocational schools, trade schools, business schools, and non-credit adult education classes.

Means of transportation and distance and travel time to work—The statistics are restricted to household heads 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. Heads who do not report to the same place of work every day comprise the "No fixed place of work" category.

Head'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 head; the head 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 head of household travels from home to work.

Travel time from home to work—The data refer to the average time it takes the household head 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 head 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 head of the household 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 household; 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 1979, 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: 1979

~ PCM 2

1. Control number (cc 1)
PSU | Segment | Serial

2. HOUSEHOLD No. (cc 2)

3. Sample (cc 4) (Circle one)
F1 or F2

NOTICE – All information which would permit identification of the individual will be held in strict confidence, and will be used only by persons engaged in and for the purposes of the survey. The information will not be disclosed or released to others for any purpose.

FORM AHS-2
(8-23-78)

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 – 1979

4. Type of segment (cc 3)
1 ☐ Area
2 ☐ Address
3 ☐ Permit
4 ☐ Special place
5 ☐ CENSUP

5a. Interviewer name

b. Code

c. Date interview completed
Month | Day | Year

d. 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
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 – *Skip to Section X, page 44*

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 9e*
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 Type B's only)
d. Unit boarded-up (cc 40e)
(005) 1 ☐ Yes
2 ☐ No

(Fill for Type B's only)
e. Status of structure
(006) 1 ☐ Structure currently has no housing units
2 ☐ Structure currently has one or more housing units

Section I – Continued

QUESTIONNAIRE ITEMS TO BE FILLED FOR NONINTERVIEWS	TYPE A	TYPE B	TYPE C	QUESTIONNAIRE ITEMS TO BE FILLED FOR VACANT UNITS	
	I.D. Items 1* 2–5d** 6–8 Section I items 9a 11 12 13 Section X, page 44	I.D. Items 1* 2–5d** 6–8 Section I items 9b 9d and e (*Where appropriate*) 11 12 Section X, page 44	I.D. Items 1* 2–5d** 6–8 Section I items 9c Section X, page 44		I.D. Items 1* 2–8** Section I items 10–13 Section II, pages 3–4 Section III, pages 5–9 Section VIII, page 39 Section X, page 44

*NOTE – Fill item 1 only if AHS-2 is not labeled or if control number on label is incorrect.

**NOTE – In item 5d enter the relationship of the person providing the information for the noninterview or vacant: e.g., landlady or resident manager. If no one was consulted, leave item 5d blank.

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 12*
2 ☐ Vacant – *END TRANSCRIPTION*
3 ☐ URE – *Skip to Section IVA, page 12*

NOTES

FORM AHS-2 (8-23-78)

Page 2

Facsimile of the Annual Housing Survey Questionnaire: 1979—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 "78" 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*	b. 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*	b. 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*	b. 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*	b. Does the water for this house (apartment) (now) come from a public system (city water department, etc.) or private company; an individual well; or some other source (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*	b. 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*		☐ Vacant unit – *Skip to 7b*	
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*	b. How is this house (apartment) (now) heated – by gas, oil, electricity or with some other fuel?	Gas (032) 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*	b. 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)

☐ Regular or URE Interview – *Skip to Section IVB, page 14*

☐ Vacant Interview – *Go to Section III, page 5*

Facsimile of the Annual Housing Survey Questionnaire: 1979—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 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)? (107)

☐ Yes → **Are these facilities only for the use of the intended occupants?**

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? (108)

(Mark only one box)

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

FORM AHS-2 (5-23-79)

Page 5

Section III – VACANT UNITS – Continued

5. What type of heating equipment does this house (apartment) have? (109)

(MARK heating equipment to be used most)

SHOW FLASHCARD B

1 ☐ A 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? (117)

1 ☐ Vacant – for rent OR (FOR SALE OR FOR RENT)

Vacant – for sale ONLY

2 ☐ Regular ownership
3 ☐ Condominium ownership
4 ☐ Cooperative ownership

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

FORM AHS-2 (5-23-79)

Page 6

Facsimile of the Annual Housing Survey Questionnaire: 1979—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 94, page 39*

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 94, page 39*

FOR RENT

☐ One-unit structure on less than 10 acres – *Skip to 11*

☐ 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 11*

☐ **ALL OTHERS** (Other vacants, units rented or sold, units held for occasional use, seasonal, and similar units) – *Skip to item 13, page 9*

NOTES

FORM AHS-2 (9-28-79)

Section III – VACANT UNITS – Continued

10a. 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

Skip to item 94, page 39

27 ☐ 200,000 – 249,999
28 ☐ 250,000 – 299,999
29 ☐ 300,000 or more

ASK 10b

10b. What is the exact sale price?

$ _____ ■ *Skip to item 94, page 39*

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

FORM AHS-2 (9-28-79)

Facsimile of the Annual Housing Survey Questionnaire: 1979—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?	313	1 Yes, part of a condominium 2 No } Skip to item 94, page 39

NOTES

FORM AHS-2 (8-29-79) Page 9

NOTES

FORM AHS-2 (8-29-79) Page 10

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

NOTES

FORM AHS-2 (9-25-78)

Page 11

Section IVA – OCCUPIED UNITS *(Include URE)*

TRANSCRIBE FROM CONTROL CARD

1. Line number of household respondent *(cc 10)*

(090) _____

HOUSEHOLD CHARACTERISTICS

2a. Line number (cc 10)	2b. Relationship to household head (cc 11b) INCLUDE HEAD	OFFICE USE ONLY	2c. Household member (cc 11c) CIRCLE ONE: Yes	No	2d. Age (cc 14)	2e. Marital status (For persons 14+) (cc 15) 1 – Married 2 – Widowed 3 – Divorced 4 – Separated 5 – Never married ENTER CODE	2f. Race (cc 16) ENTER CODE from the cc OR Convert the written entry on the green cc using the following codes: 1 – White 2 – Negro 3 – Other ENTER CODE	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
			1	2				1	2
			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
			1	2				1	2
			1	2				1	2
			1	2				1	2

FORM AHS-2 (9-25-78)

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Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

PGM 5

Section IVA – OCCUPIED UNITS *(Include URE)* – Continued

TRANSCRIBE FROM CONTROL CARD

3. Highest grade completed by head *(cc 19)*

(091)
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 head 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

END OF TRANSCRIPTION

Section IVB – OCCUPIED UNITS *(Include URE)*

7a. Are your living quarters owned or being bought by you or by someone else in your household?

☐ Yes
Are they owned as a cooperative or condominium?
(100)
1 ☐ No, regular ownership
2 ☐ Yes, a cooperative
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) – *Ask 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

☐ Unit was Type A or B noninterview last enumeration period (See cc item 40d) – Ask 9a
(See item 7a, page 1)
☐ Unit in sample last enumeration period (first box marked in item 7a) – Skip to 12
☐ Unit in sample for first time this enumeration period (second box marked in item 7a) – Ask 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: 1979—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 ☐ A 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

17. Does this place have 10 acres or more?

(122) 1 ☐ Yes
2 ☐ No

FORM AHS-2 (8-29-78)

Page 15

Section IVB – OCCUPIED UNITS (Include URE) – Continued

CHECK ITEM B

(See item 6, page 1)

RURAL: Regular units; and special place units coded 85–88 (first box marked in item 6) AND

(See item 17, page 15)
- On 10 acres or more – *Ask 18a*
- On less than 10 acres – *Skip to 18b*

☐ Special place units not coded 85–88 – *Skip to Check Item C*

☐ **URBAN** box 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 14)

☐ **OWNED AS A COOPERATIVE** – *Skip to Check Item G, page 20*

☐ **OWNED AS A CONDOMINIUM** – *Ask 19a*

OWNED OR BEING BOUGHT (Regular ownership)

If this is a –

☐ 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 8c and 8d) – *Ask 19a*

☐ Mobile home or trailer on less than 10 acres – *Skip to 20*

☐ All others – *Skip to Check Item G, page 20*

RENTED FOR CASH

If this is a –

☐ One-unit structure on less than 10 acres – *Skip to 26, page 18*

☐ One-unit structure on 10 acres or more – *Skip to Check Item G, page 20*

☐ Two-or-more unit structure or mobile home or trailer – *Skip to 26, page 18*

OCCUPIED WITHOUT PAYMENT OF CASH RENT

If this is a –

☐ One-unit structure on less than 10 acres – *Skip to 28, page 19*

☐ One-unit structure on 10 acres or more – *Skip to Check Item G, page 20*

☐ Two-or-more unit structure, or a mobile home or trailer – *Skip to Check Item E, page 19*

FORM AHS-2 (8-29-78)

Page 16

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section IVB – OCCUPIED UNITS *(Include URE)* – Continued

19a. 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

Skip to Check Item D

27 ☐ 200,000 – 249,999
28 ☐ 250,000 – 299,999
29 ☐ 300,000 or more

ASK 19b

b. What is the actual value?

$_____ .00

CHECK ITEM D

(See item 7a, page 14)
☐ **OWNED AS A CONDOMINIUM** – *Skip to Check Item G, page 20*
☐ All others – *Skip to 23*

20. Do you own the mobile home (trailer) SITE or is it rented?

(127) 1 ☐ Owned
2 ☐ Rented

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, or do you own it free and clear?

(132) 1 ☐ Mortgage, deed of trust, or land contract
2 ☐ Owned free and clear – *Skip to 25a*

FORM AHS-2 (9-25-79) Page 17

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 sum of payments.

(If there are separate loans on the mobile home and its site, combine amounts.)

(133) $_____ .00
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

25a. (1) Do you pay for electricity? (137) 1 ☐ Yes 2 ☐ No, – *Skip to b(1)*

(2) What is the average MONTHLY cost? (138) $_____ .00

b. (1) Do you pay for gas? (139) 1 ☐ Yes 2 ☐ No, – *Skip to c(1)*

(2) What is the average MONTHLY cost? (140) $_____ .00

c. (1) Do you pay for oil, coal, kerosene, wood, OR any other fuel? (141) 1 ☐ Yes 2 ☐ No, these fuels not used or obtained free – *Skip to d(1)*

(2) What is the YEARLY cost? (142) $_____ .00

d. (1) Do you pay for fire and hazard insurance? *(Also include if part of mortgage payments.)* (143) 1 ☐ Yes 2 ☐ No – *Skip to e(1)*

(2) What is the YEARLY cost? (144) $_____ .00

e. (1) Do you pay for real estate taxes? *(Also include if part of mortgage payments.)* (145) 1 ☐ Yes 2 ☐ No – *Skip to f(1)*

(2) What is the YEARLY cost? *(Do not include taxes in arrears from previous years.)* (146) $_____ .00

f. (1) Do you pay for water supply and sewage disposal, separately from real estate taxes? (147) 1 ☐ Yes 2 ☐ No or payment included in real estate taxes – *Skip to g(1)*

(2) What is the YEARLY cost? (148) $_____ .00

g. (1) Do you pay for garbage (food waste) collection, separately from real estate taxes? (149) 1 ☐ Yes 2 ☐ No or payment included in real estate taxes – *Skip to Check Item G, page 20*

(2) What is the YEARLY cost? (150) $_____ .00 *Skip to Check Item G, page 20*

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

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Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section IVB – OCCUPIED UNITS – (Include URE) – Continued

CHECK ITEM E

(See item 8a, page 14)

☐ 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

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

30a. (1) (In addition to your rent) do you pay for electricity?

(156) 1 ☐ Yes
2 ☐ No, included in rent or supplied free
3 ☐ No, electricity not used
} Skip to b(1)

(2) What is the average MONTHLY cost?

(157) $ _____ . 00

b. (1) (In addition to your rent) do you pay for gas?

(158) 1 ☐ Yes
2 ☐ No, included in rent or supplied free
3 ☐ No, gas not used
} Skip to c(1)

(2) What is the average MONTHLY cost?

(159) $ _____ . 00

c. (1) (In addition to your rent) do you pay for water?

(160) 1 ☐ Yes
2 ☐ No, included in rent or no charge – Skip to d(1)

(2) What is the YEARLY cost?

(161) $ _____ . 00

d. (1) (In addition to your 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
} Skip to e(1)

(2) What is the YEARLY cost?

(163) $ _____ . 00

e. (1) (In addition to your rent) do you pay for garbage (food waste) collection?

(164) 1 ☐ Yes
2 ☐ No – Skip to Check Item F

(2) What is the YEARLY cost?

(165) $ _____ . 00

Section IVB – OCCUPIED UNITS (Include URE) – Continued

CHECK ITEM F

(See Check Item C, page 16)

☐ Rented for cash – Ask 31

☐ Occupied without payment of cash rent – 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 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 Interviewer Instruction, page 25

33. In the past 12 months, how much did . . . earn in wages, salaries, tips and commissions before taxes and deductions?

(Obtain income for head and all household members 14+ RELATED TO HEAD by blood, marriage, or adoption. If the family has more than six members 14+ 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)

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section IVB – OCCUPIED UNITS – Continued

NOTE – Ask 35a for all categories before asking 35b.

(Obtain income for head and all household members 14+ RELATED TO HEAD by blood, marriage, or adoption.)

35a. In the past 12 months, did any member of this family (you) receive any money from –

NOTE – Ask 35b only for those categories in 35a which were answered "Yes"

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) $ _____ . 00
(2) Estates, trusts or dividends?	(186) 1 ☐ Yes	2 ☐ No	(187) $ _____ . 00
(3) Interest on savings accounts or bonds?	(188) 1 ☐ Yes	2 ☐ No	(189) $ _____ . 00
(4) Net rental income?	(190) 1 ☐ Yes	2 ☐ No	(191) $ _____ . 00
(5) Welfare payments or other public assistance?	(192) 1 ☐ Yes	2 ☐ No	(193) $ _____ . 00
(6) Unemployment compensation?	(194) 1 ☐ Yes	2 ☐ No	(195) $ _____ . 00
(7) Workmen's compensation?	(196) 1 ☐ Yes	2 ☐ No	(197) $ _____ . 00
(8) Government employee pensions?	(198) 1 ☐ Yes	2 ☐ No	(199) $ _____ . 00
(9) Veterans payments?	(200) 1 ☐ Yes	2 ☐ No	(201) $ _____ . 00
(10) Private pensions or annuities?	(202) 1 ☐ Yes	2 ☐ No	(203) $ _____ . 00
(11) Alimony or child support?	(204) 1 ☐ Yes	2 ☐ No	(205) $ _____ . 00
(12) Regular contributions from persons not living in this household?	(206) 1 ☐ Yes	2 ☐ No	(207) $ _____ . 00
(13) Anything else?	(208) 1 ☐ Yes	2 ☐ No	(209) $ _____ . 00

NOTE – If "Yes" was answered for one or more of the categories in 35a, ask 35b. Exclude income previously reported in items 33 and 34. Probe if identical amounts are reported. Indicate that identical amounts are correct by marking this box ☐

CHECK ITEM H

(See Control Card item 11b)

☐ Household contains only family members – *Skip to Interviewer Instruction, page 25*

☐ Household contains persons 14+ NOT RELATED TO THE HEAD by blood, marriage or adoption – *Ask 36*

FORM AHS-2 (5-25-79)

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 14+ NOT RELATED TO HEAD 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 item 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 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 persons 14+ NOT RELATED TO HEAD 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?	(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

FORM AHS-2 (5-25-79)

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

(223) _____ Line No.	(242) _____ Line No.	(261) _____ Line No.	(280) _____ Line No.
36. (224) $ _____ . 00	36. (243) $ _____ . 00	36. (262) $ _____ . 00	36. (281) $ _____ . 00
37a. (225) $ _____ . 00 (226) 1 ☐ None 2 ☐ Lost money (Enter amount LOST on line above)	37a. (244) $ _____ . 00 (245) 1 ☐ None 2 ☐ Lost money (Enter amount LOST on line above)	37a. (263) $ _____ . 00 (264) 1 ☐ None 2 ☐ Lost money (Enter amount LOST on line above)	37a. (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)	b. (246) $ _____ . 00 (247) 1 ☐ None 2 ☐ Lost money (Enter amount LOST on line above)	b. (265) $ _____ . 00 (266) 1 ☐ None 2 ☐ Lost money (Enter amount LOST on line above)	b. (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?	38c. How much did . . . receive from (source of income) in the past 12 months?	38c. How much did . . . receive from (source of income) in the past 12 months?	38c. How much did . . . receive from (source of income) in the past 12 months?
(1) (229) $ _____ . 00	(1) (248) $ _____ . 00	(1) (267) $ _____ . 00	(1 (286) $ _____ . 00
(2) (230) $ _____ . 00	(2) (249) $ _____ . 00	(2) (268) $ _____ . 00	(2) (287) $ _____ . 00
(3) (231) $ _____ . 00	(3) (250) $ _____ . 00	(3) (269) $ _____ . 00	(3) (288) $ _____ . 00
(4) (232) $ _____ . 00	(4) (251) $ _____ . 00	(4) (270) $ _____ . 00	(4) (289) $ _____ . 00
(5) (233) $ _____ . 00	(5) (252) $ _____ . 00	(5) (271) $ _____ . 00	(5) (290) $ _____ . 00
(6) (234) $ _____ . 00	(6) (253) $ _____ . 00	(6) (272) $ _____ . 00	(6) (291) $ _____ . 00
(7) (235) $ _____ . 00	(7) (254) $ _____ . 00	(7) (273) $ _____ . 00	(7) (292) $ _____ . 00
(8) (236) $ _____ . 00	(8) (255) $ _____ . 00	(8) (274) $ _____ . 00	(8) (293) $ _____ . 00
(9) (237) $ _____ . 00	(9) (256) $ _____ . 00	(9) (275) $ _____ . 00	(9) (294) $ _____ . 00
(10) (238) $ _____ . 00	(10) (257) $ _____ . 00	(10) (276) $ _____ . 00	(10) (295) $ _____ . 00
(11) (239) $ _____ . 00	(11) (258) $ _____ . 00	(11) (277) $ _____ . 00	(11) (296) $ _____ . 00
(12) (240) $ _____ . 00	(12) (259) $ _____ . 00	(12) (278) $ _____ . 00	(12) (297) $ _____ . 00
(13) (241) $ _____ . 00	(13) (260) $ _____ . 00	(13) (279) $ _____ . 00	(13) (298) $ _____ . 00

NOTE – *Exclude income previously reported in items 36 and 37. Probe if identical amounts are reported for an individual. Indicate that identical amounts are correct by marking this box* ☐.

NOTES

FORM AHS-2 (5-25-79)

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FORM AHS-2 (5-25-79)

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Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

~ PGM 6 ↓

Section V – SUPPLEMENTAL ITEMS

INTERVIEWER INSTRUCTION ➡ *(Refer to Control Card item 12b)* *Enter line number of reference person* . . . . . (299) [ ][ ] Line number of reference person

CHECK ITEM I — *(See Control Card items 10, 11a–b, and 12b)*
Line number for reference person and household head is –
☐ Same – *Skip to Check Item J*
☐ Different – *Ask 39*

39. What is the highest grade (or year) of regular school which . . . (reference person) has COMPLETED? (300)
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

40. What is . . . 's (reference person) origin or descent?
SHOW FLASHCARD A (301)
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* _____

41. When did . . . (reference person) move into this house (apartment)?
After April 1, 1970
(302) Month (01–12) / Year
OR
(302) 1 ☐ 1965 to April 1, 1970
2 ☐ 1960 to 1964
3 ☐ 1950 to 1959
4 ☐ 1949 or earlier

Section V – SUPPLEMENTAL ITEMS – Continued

CHECK ITEM J — *(See item 8, page 1)*
☐ URE interview – *Skip to Check Item K*
☐ Regular interview – *Ask 42*

42. In what State was . . . (head) born?
_____ State
OR
(304) 0 ☐ Outside the United States
(304) [ ][ ]

43a. At age 16, did . . . (head) live in this (city/suburb/town/rural area) or a different place? (305)
1 ☐ Same place – *Skip to 44a*
2 ☐ Different place

b. Which of these categories best describes that place?
SHOW FLASHCARD E (306)
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
(307) 0 ☐ Outside the United States
(307) [ ][ ]

44a. Five years from now, would . . . (head) prefer to be living in this (city/suburb/town/rural area) or someplace else? (308)
1 ☐ Same place – *Skip to Check Item K*
2 ☐ Someplace else

b. In what State would . . . (head) prefer to be living 5 years from now?
_____ State
OR
(309) 0 ☐ Outside the United States – *Skip to Check Item K*
(309) [ ][ ]

c. Which of these categories best describes the place . . . (head) would prefer to live 5 years from now?
SHOW FLASHCARD E (310)
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 . . . (head) to move to the place just indicated – very likely, likely, not very likely, or no chance at all? (311)
1 ☐ Very likely
2 ☐ Likely
3 ☐ Not very likely
4 ☐ No chance at all
5 ☐ Don't know

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section V – SUPPLEMENTAL ITEMS – Continued

CHECK ITEM K

(See item 7a and 7b, page 14)

OWNED (Regular ownership)

(See items 22 and 23, page 17)
- ☐ Unit mortgaged – *Ask 45*
- ☐ Unit owned free and clear – *Skip to Check Item L*

☐ Owned as a cooperative – *Skip to Check Item L*

☐ Owned as a condominium – *Ask 45*

☐ Rented for cash or occupied without payment of cash rent – *Skip to 46*

45. What kind of mortgage (loan) do you have?

SHOW FLASHCARD F

(312)
1 ☐ Federal Housing Administration
2 ☐ Veterans Administration
3 ☐ Farmers Home Administration
4 ☐ Other mortgage
5 ☐ No mortgage

Skip to Check Item L

46. Is this house (apartment) part of a condominium?

(313)
1 ☐ Yes, part of a condominium
2 ☐ No

CHECK ITEM L

Mark all 3 parts (See cc 21)

(1) Household head lived here last 90 days . . . . . (314) 1 ☐ Yes 2 ☐ No

(2) Household head lived here last winter . . . . . (315) 1 ☐ Yes 2 ☐ No

(3) Household head MOVED here during the last 12 months . . . (316) 1 ☐ Yes 2 ☐ No

NOTES

~ PGM 6 ↓

Section VI – RECENT MOVERS SUPPLEMENT

CHECK ITEM M

☐ URE Interview *(See item 8 page 1) – Go to Section VIII, page 39*

(1) *(See Check Item L, page 27)*
- ☐ Head moved here during the last 12 months – *Go to Check Item M (2) below*
- ☐ Head did not move here during the last 12 months – *Skip to Section VIIA, page 35*

(2) *(See item 8a, page 14)*
- ☐ Mobile home or trailer – *Go to Check Item N*
- ☐ All others – *Go to Check Item M (3) below*

(3) *(See Check Item C, page 16)*
- ☐ Owned or being bought (Regular or condominium ownership) – *Ask 47a*
- ☐ Cooperative ownership – *Skip to 50a*
- ☐ Rented for cash or occupied without payment of cash – *Skip to 51*

47a. Was this property purchased in the past 12 months?

(401) 1 ☐ Yes
2 ☐ No – *Skip to Check Item N*

b. When this house and lot (condominium unit) was acquired, what was the purchase price? Do not include closing costs.

(402) $ _____ . 00

48. 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 N

(See item 45, page 27)

☐ Box 1 through 4 marked – *Ask 49a*

☐ Box 5 marked or item 45 blank – *Skip to 50a*

49a. 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 50a*

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

50a. Is this the first home . . . *(head)* has ever owned as (his/her) usual residence? *(Do not include vacation homes, or homes purchased for commercial or rental purposes.)*

(406)
1 ☐ Yes – *Skip to 51*
2 ☐ No – *Ask 50b*
3 ☐ Head is not the owner – *Skip to 51*

b. Including . . .'s *(head's)* present home, how many homes has . . . *(head)* owned altogether? *(Do not include vacation homes, or homes purchased for commercial or rental purposes.)*

(407)
1 ☐ Two
2 ☐ Three or more

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section VI – RECENT MOVERS SUPPLEMENT – Continued

51. Were you (was (head)) the first occupant(s) of this house (apartment) or did someone else live here before you (head)?

(408) 1 ☐ First occupants
2 ☐ Previously occupied

52. The following questions are about the place where . . . (head) lived before moving here. What was the address of . . .'s (head) previous residence?

Address (Number and street)

City or town

County | State | ZIP code

OR

(409) 1 ☐ Outside the United States – *Skip to Section VIIA page 35*

(409) ☐☐☐☐☐

53. Why did . . . (head) move from the previous residence?

(Mark all that apply)

SHOW FLASHCARD G

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
6 ☐ Commuting reasons
(411) 7 ☐ To attend school
8 ☐ Other employment reasons – *Specify*

FAMILY

9 ☐ Needed larger house or apartment
(412) 10 ☐ Divorced or separated
11 ☐ Widowed
12 ☐ To be closer to relatives
(413) 13 ☐ Newly married
14 ☐ Family increased
15 ☐ Family decreased
(414) 16 ☐ To establish own household
17 ☐ Other family reasons – *Specify*

OTHER

18 ☐ Neighborhood overcrowded
(415) 19 ☐ Change in racial or ethnic composition of neighborhood
20 ☐ Crime
21 ☐ Wanted neighborhood with children
(416) 22 ☐ Wanted neighborhood without children
23 ☐ Wanted better neighborhood
24 ☐ Wanted more expensive place or better investment
(417) 25 ☐ Wanted to own residence
26 ☐ Wanted better house
27 ☐ Wanted to rent residence
(418) 28 ☐ Wanted residence with more conveniences
29 ☐ Lower rent or less expensive house
30 ☐ Wanted change of climate
(419) 31 ☐ Displaced by urban renewal, highway construction or other public activity
32 ☐ Displaced by private action
33 ☐ Schools
(420) 34 ☐ Natural disaster
35 ☐ Other – *Specify*

FORM AHS-2 (5-25-79)

Section VI – RECENT MOVERS SUPPLEMENT – Continued

INTERVIEWER INSTRUCTION
Two or more boxes marked in item 53 – *Ask 54*
If only ONE box is marked in item 53 – *Transcribe code to item 54 and fill Check Item O*

54. What was the MAIN reason . . . (head) moved from previous residence?

(421) ☐☐ Box number of MAIN reason

CHECK ITEM O

(See item 54, page 30)
☐ If 29 entered in item 54 – *Ask 55a*
☐ If 32 entered in item 54 – *Skip to 55b*
☐ All others – *Skip to 56*

55a. Was this because . . .'s (head) income was reduced, . . .'s (head) housing costs greatly increased, or some other reason?

(Mark all that apply)

(422) 1 ☐ Income reduced
2 ☐ Housing costs greatly increased
3 ☐ Other – *Specify*

Skip to 56

b. Was this because –

(Read answer categories and mark all that apply)

SHOW FLASHCARD H

(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 (5-25-79)

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section VI – RECENT MOVERS SUPPLEMENT – Continued

56. Why did . . . *(head)* move to this particular residence or neighborhood?

(Mark all that apply)

SHOW FLASHCARD I

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

9 ☐ Needed larger house or apartment
(427) 10 ☐ To be closer to relatives
11 ☐ Other family reasons – *Specify* ↙

OTHER

12 ☐ Neighborhood less crowded
(428) 13 ☐ Racial or ethnic composition of neighborhood
14 ☐ Low crime rate
15 ☐ Wanted neighborhood with children
(429) 16 ☐ Wanted neighborhood without children
17 ☐ Wanted better neighborhood
18 ☐ Wanted more expensive place or better investment
(430) 19 ☐ Residence with more conveniences
20 ☐ Lower rent or less expensive house
21 ☐ Change of climate
(431) 22 ☐ Schools
23 ☐ Other – *Specify* ↙

INTERVIEWER INSTRUCTIONS ➡ Two or more boxes marked in item 56 – *Ask 57*

If only ONE box is marked in item 56 – *Transcribe code to item 57 and skip to 58a*

57. What is the MAIN reason . . . *(head)* moved to this particular residence or neighborhood?

(432) ☐☐ Box number of MAIN reason

FORM AHS-2 (5-29-79)

Section VI – RECENT MOVERS SUPPLEMENT – Continued

58a. Was . . . *(head)* the head of the household in his (her) previous residence at the time he (she) moved?

(433) ☐ Yes ↙
1 ☐ Respondent is the head – *Skip to INTERVIEWER INSTRUCTION*
2 ☐ Respondent is not the head – *Ask 58b*
3 ☐ No – *Skip to Section VIIA, page 35*

b. Were you also a member of . . .'s *(head)* household in the previous residence?

(434) 1 ☐ Yes
2 ☐ No

INTERVIEWER INSTRUCTION ➡ If the respondent is the head, or if "Yes" was marked in 58b – *Ask questions 59–72 in terms of "your" previous residence.* If "No" was marked in 58b – *Ask questions 59–72 in terms of "head's" previous residence.*

59. How many rooms were in . . .'s (your) *(head)* previous residence? Do not count bathrooms, porches, balconies, halls, foyers, or half-rooms.

(435) _____ Number

60. How many bedrooms were in . . .'s (your) *(head)* previous residence? Count rooms used mainly for sleeping, even if used for other purposes.

(436) _____ Number
0 ☐ None

61. How many persons were in . . .'s (your) *(head)* previous residence at the time . . . (you) *(head)* moved?

(437) _____ Number

62. Did . . . (you) *(head)* have complete plumbing facilities in . . .'s (your) *(head)* previous residence (building); that is, hot and cold piped water, a flush toilet, and a bathtub or shower?

☐ Yes ⟶ **Were these facilities used by . . .'s (your) *(head)* household only?**
(438) 1 ☐ Yes – Used for that household only
2 ☐ No – Also used by another household
3 ☐ No

63. How many living quarters, both occupied and vacant, were in the building where . . .'s (your) *(head)* 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

64a. Was . . .'s (your) *(head)* previous residence owned or being bought by someone in the household?

☐ Yes ↙
Was it owned as a cooperative or condominium?
(440) 1 ☐ No – *Skip to Check Item P, page 33*
2 ☐ Yes, a cooperative – *Skip to Section VIIA, page 35*
3 ☐ Yes, a condominium – *Skip to 66*
☐ No – *Ask 64b*

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 (5-29-79)

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section VI – RECENT MOVERS SUPPLEMENT – Continued

CHECK ITEM P

TENURE OF PREVIOUS RESIDENCE *(See item 64, page 32)*

OWNED OR BEING BOUGHT *("Yes" marked in 64a)*

(See item 63, page 32)
- ☐ One-unit structure – *Ask 65a*
- ☐ Two-or-more unit structure, or a mobile home or trailer – *Skip to Section VIIA, page 35*

RENTED FOR CASH OR OCCUPIED WITHOUT PAYMENT OF CASH RENT *(Box 4 or 5 marked in 64b)*

(See item 63, page 32)
- ☐ One-unit structure – *Skip to 67*
- ☐ Two-or-more unit structure, or a mobile home or trailer – *Skip to Check Item Q*

65a. Was that house on a place of 10 acres or more? (441)
1 ☐ Yes – *Skip to Section VIIA, page 35*
2 ☐ No

b. Was there a commercial establishment or medical or dental office on the property? (442)
1 ☐ Yes – *Skip to Section VIIA, page 35*
2 ☐ No

66. What was the value of that property when . . . (you) *(head)* moved; that is, about how much did that property (house and lot) (condominium unit), sell for, or would it 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 Section VIIA, page 35

67. Was that house on a place of 10 acres or more? (444)
1 ☐ Yes – *Skip to Section VIIA, page 35*
2 ☐ No

CHECK ITEM Q

(See item 64b, page 32)
- ☐ Rented for cash – *Ask 68*
- ☐ Occupied without payment of cash rent – *Skip to 69, page 34)*

68. What was the MONTHLY rent for . . .'s (your) *(head)* 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

FORM AHS-2 (5-26-79)

Section VI – RECENT MOVERS SUPPLEMENT – Continued

69. 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 71a*
2 ☐ No

70. Did . . . (you) *(head)* pay a lower rent because the Federal, State, or local Government was paying part of the cost? (447)
1 ☐ Yes
2 ☐ No

71a. (1) (In addition to rent), did . . . (you) *(head)* pay for electricity? (448)
1 ☐ Yes
2 ☐ No, included in rent or supplied free
3 ☐ No, electricity not used
Skip to b(1)

(2) What was the average MONTHLY cost? (449) $ _____ .

b. (1) (In addition to rent), did . . . (you) *(head)* pay for gas? (450)
1 ☐ Yes
2 ☐ No, included in rent or supplied free
3 ☐ No, gas not used
Skip to c(1)

(2) What was the average MONTHLY cost? (451) $ _____ .

c. (1) (In addition to rent), did . . . (you) *(head)* pay for water? (452)
1 ☐ Yes
2 ☐ No, included in rent or no charge – *Skip to d(1)*

(2) What was the YEARLY cost? (453) $ _____ .

d. (1) (In addition to rent), did . . . (you) *(head)* pay for oil, coal, kerosene, wood, etc.? (454)
1 ☐ Yes
2 ☐ No, included in rent
3 ☐ No, these fuels not used or obtained free
Skip to e(1)

(2) What was the YEARLY cost? (455) $ _____ .

e. (1) (In addition to rent), did . . . (you) *(head)* pay for garbage (food waste) collection? (456)
1 ☐ Yes
2 ☐ No – *Skip to Check Item R*

(2) What was the YEARLY cost? (457) $ _____ .

CHECK ITEM R

(See item 64b, page 32)
- ☐ Rented for cash – *Ask 72*
- ☐ Occupied without payment of cash rent – *Skip to Section VIIA, page 35*

72. Did . . . (you) *(head)* rent the apartment (house) furnished or unfurnished? (458)
1 ☐ Furnished
2 ☐ Unfurnished
Go to Section VIIA, page 35

FORM AHS-2 (5-26-79)

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

~ PGM 7 ↓

Section VIIA – ENERGY CONSERVATION SUPPLEMENT

INTRODUCTION The following questions are concerned with types of fuel used, insulation, heating equipment, and . . .'s (head) means of transportation to work.

73. Which fuel is used most for cooking?

(501) 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

74a. Do you have hot piped water in this house (apartment)?

(502) 1 ☐ Yes
2 ☐ No – *Skip to Check Item S*

b. Which fuel is used most for heating the water?

(503) 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 S*
9 ☐ Other fuel – *Specify* _____
0 ☐ No fuel used – *Skip to Check Item S*

c. Do you have a solar water heating unit which you use in addition to your main water heating equipment?

(504) 1 ☐ Yes
2 ☐ No

CHECK ITEM S
(See item 12, page 15)
☐ Box 8 or 9 marked in item 12 – *Skip to Check Item T*
☐ All others – *Ask 75a*

75a. Earlier you told me you have *(Specify heating equipment marked in item 12 on page 15)*. **In the past 12 months, have you acquired any supplementary equipment or appliances to heat this house (apartment)?**

(505) 1 ☐ Yes
2 ☐ No – *Skip to Check Item T*

b. Which best describes it? *(Read answer categories.) (Mark all that apply)*

(506)
1 ☐ Solar heating equipment
2 ☐ A stove burning wood or coal
3 ☐ Fireplace burning wood or coal
4 ☐ Portable electric heater
5 ☐ Room heater WITHOUT flue or vent burning gas, oil, or kerosene
6 ☐ Something else – *Specify* _____

FORM AHS-2 (8-28-79)

Section VIIA – ENERGY CONSERVATION SUPPLEMENT – Continued

CHECK ITEM T
(See item 12, page 15)
☐ Box 9 marked in item 12 – *Skip to Check Item U*
☐ All others – *Ask 76a*

76a. Is there a thermostat in your living quarters which controls your heat?

(507) 1 ☐ Yes
2 ☐ No – *Skip to Check Item U*

b. Does this thermostat have a setting operated by a timer so that the temperature can be lowered automatically?

(508) 1 ☐ Yes – *Skip to Check Item U*
2 ☐ No

c. During the heating season do you ever change the temperature setting on the thermostat or do you keep the same setting all the time?

(509) 1 ☐ Change setting
2 ☐ Keep uniform setting all the time – *Skip to Check Item U*

d. Do you change it occasionally, that is, 3 or fewer days of the week, or do you change it regularly, that is, 4 or more days of the week?

(510) 1 ☐ Occasionally
2 ☐ Regularly
3 ☐ Don't know

CHECK ITEM U
(See item 8a, page 14)
☐ One-unit structure or mobile home or trailer – *Ask 77a*
☐ Two-or-more unit structure – *Skip to Check Item W, part 1, page 37*

77a. Does your house (mobile home or trailer) have storm windows, double-glazed glass or other protective covering over the window openings, such as closeable shutters, plastic, etc.?

(511) 1 ☐ Yes, all windows
2 ☐ Yes, some windows
3 ☐ No – *Skip to 78a*

b. During the past 12 months were any storm windows, double-glazed glass, or other protective covering, such as closeable shutters, plastic, etc., installed over the window openings on this house?

(512) 1 ☐ Yes
2 ☐ No

78a. Does your house (mobile home or trailer) have storm doors?

(513) 1 ☐ Yes, all doors
2 ☐ Yes, some doors
3 ☐ No – *Skip to 79a*

b. During the past 12 months were any storm doors installed on this house?

(514) 1 ☐ Yes
2 ☐ No

79a. Does your house (mobile home or trailer) have attic or roof insulation?

(515) 1 ☐ Yes
2 ☐ No } *Skip to 79d*
3 ☐ Don't know } *Skip to 79d*

b. During the past 12 months, was attic or roof insulation added or installed?

(516) 1 ☐ Yes
2 ☐ No – *Skip to 79d*

c. How much insulation was ADDED or INSTALLED to the attic or roof – was it less than 3 inches, 3 up to 6 inches, or 6 inches or more?

(517) 1 ☐ Less than 3 inches
2 ☐ 3 up to 6 inches
3 ☐ 6 inches or more
4 ☐ Don't know

d. During the past 12 months was any insulation added or installed in the exterior walls?

(518) 1 ☐ Yes
2 ☐ No

FORM AHS-2 (8-28-79)

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section VIIA – ENERGY CONSERVATION SUPPLEMENT – Continued

80. During the past 12 months was caulking or weatherstripping added to the exterior doors or windows?

(519) 1 ☐ Yes
2 ☐ No
3 ☐ Don't know

81. In addition to the types of thermal or heat insulation already asked about, was any other thermal or heat insulation added or installed in the house during the past 12 months, such as insulating hot water pipes or the hot water heater, or insulating floors or crawl spaces?

(520) 1 ☐ Yes
2 ☐ No

CHECK ITEM V

(See items 7a and 7b, page 14)

Owned or being bought (first "Yes" box marked in item 7a) AND
☐ "Yes" marked in any of 77b, 78b, 79b, 79d, 80, or 81 above – *Ask 82*
☐ All others – *Skip to Check Item W, part (1)*

82. What was the total cost of the *(Specify "Yes" answers mentioned in items 77b, 78b, 79b, 79d, 80, and 81)* **which was(were) added or installed during the past 12 months?**

(521) 1 ☐ $ 1 – 49
2 ☐ 50 – 99
3 ☐ 100 – 199
4 ☐ 200 – 399
5 ☐ 400 or more
6 ☐ Don't know
7 ☐ No charge, or none
} *Skip to Check Item W, part (2)*

CHECK ITEM W

(1) *(See item 7, page 14)*
☐ Owned or being bought – *Go to Check Item W, part (2)*
☐ Rented for cash or occupied without payment of cash rent – *Skip to 85*

(2) *(See item 12, page 15)*
☐ Box 1, 2, 3, 4, 5, or 6 marked in item 12 – *Ask 83*
☐ Box 7, 8 or 9 marked in item 12 – *Skip to 85*

83. What is the age of your heating equipment?

(522) 1 ☐ 0–3 years
2 ☐ 4–9 years
3 ☐ 10–19 years
4 ☐ 20–39 years
5 ☐ 40 years or more
6 ☐ Don't know

84a. During the past 12 months, has any maintenance been done or modifications been made to your heating equipment?

(523) 1 ☐ Yes
2 ☐ No

b. Do you have a maintenance contract for your heating equipment?

(524) 1 ☐ Yes
2 ☐ No

~ PGM 8 ↓

Section VIIB – JOURNEY-TO-WORK SUPPLEMENT

85. Did . . . *(head)* have a job last week?

(525) 1 ☐ Yes
2 ☐ No – *Skip to Section VIII, page 39*

86. What is . . .'s *(head)* principal means of transportation to work?

(526) 1 ☐ Truck . . . . . .
2 ☐ Car or carpool
} ↓
(527) 1 ☐ Drives alone
2 ☐ Shares driving
3 ☐ Drives others
4 ☐ Rides with someone else
(527) 5 ☐ Walks only
6 ☐ Works at home – *Skip to Section VIII, page 39*
7 ☐ Railroad
8 ☐ Subway or elevated
9 ☐ Bus or streetcar
10 ☐ Taxicab
11 ☐ Motorcycle
13 ☐ Bicycle
12 ☐ Other means – *Specify* ↓

87. Does . . . *(head)* usually REPORT to the same location to begin work each day?

(528) 1 ☐ Yes
2 ☐ No – *Skip to Section VIII, page 39*

88. Does . . . *(head)* work in an incorporated city, town, borough or village?

(529) 1 ☐ Yes
2 ☐ No . . . . . .
3 ☐ Don't know
} *Skip to 90*

89. Does . . . *(head)* live in the same city, town, borough or village that he/she works in?

(530) 1 ☐ Yes
2 ☐ No

90. How long does it usually take . . . *(head)* to get from home to work?

(531) _____ Minutes

91. What is . . .'s *(head)* ONE-WAY distance from home to work?

(532) _____ Miles **OR**
0 ☐ Less than 1 mile
} *Go to Section VIII, page 39*

Notes

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

~ PGM 9 ↓

Section VIII – HOUSING QUALITY AND STATE OF REPAIR SUPPLEMENT

CHECK ITEM X

(1) Household head lived here last winter (See part (2), Check Item L, page 27)

☐ Yes – Go to part (2) below

☐ No – Skip to 95

(2) See item 12, page 15

☐ Box 7, 8, or 9 marked in item 12 – Ask 92

☐ All others – Skip to 93

92. During the winter of (year) was your house (apartment) so cold for 24 hours or more that it caused you discomfort? (533) 1 ☐ Yes 2 ☐ No } Skip to 95

93. During the winter of (year) 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.) (534) 1 ☐ Yes 2 ☐ No

94. How many rooms are there without hot air ducts or registers, radiators, or room heaters? Do not count kitchen or bathrooms. (535) 1 ☐ None 2 ☐ 1 room 3 ☐ 2 rooms 4 ☐ 3 or more rooms

NOTES

FORM AHS-2 (5-25-79)

Section VIII – HOUSING QUALITY AND STATE OF REPAIR SUPPLEMENT – Continued

95. Does each room in this house (apartment) have a working electric wall outlet (wall plug)? (601) 1 ☐ Yes 2 ☐ No

96. 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. (602) 1 ☐ Yes 2 ☐ No

97a. Is it necessary to go through anyone's bedroom to get to any bathroom? (603) 1 ☐ Yes 2 ☐ No

b. Is it necessary to go through anyone's bedroom to get to any other room? (604) 1 ☐ Yes 2 ☐ No

CHECK ITEM Y

(If VACANT, see item 1a, page 5; if OCCUPIED see item 8a, page 14)

☐ One-unit structure, or a mobile home or trailer – Skip to Check Item Z

☐ Two-or-more-unit structure – Ask 98a

OBSERVATION

98a. Do the public halls in this building have light fixtures? (605) 1 ☐ Yes 2 ☐ No . . . . . 3 ☐ No public halls } Skip to 99a

b. Are the light fixtures in working order? (606) 1 ☐ All in working order 2 ☐ Some in working order 3 ☐ None in working order

99a. Are there loose, broken, or missing steps on any common stairways inside this building or attached to this building? (607) 1 ☐ Yes 2 ☐ No 3 ☐ No common stairways – Skip to Check Item Z

b. Are all stair railings firmly attached? (608) 1 ☐ Yes 2 ☐ No 3 ☐ No stair railings

CHECK ITEM Z

☐ Vacant unit – Skip to Check Item BB, page 41

☐ Occupied unit – Go to Check Item AA

NOTES

FORM AHS-2 (5-25-79)

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section VIII – HOUSING QUALITY AND STATE OF REPAIR SUPPLEMENT – Continued

CHECK ITEM AA — Household head lived here last 90 days *(See part (1) Check Item L, page 27)*

- ☐ Yes – *Ask 100a*
- ☐ No – *Skip to Check Item BB*

100a. Have any electric fuses or breaker switches blown in your house (apartment) in the last 90 days? (609)
1 ☐ Yes
2 ☐ No
3 ☐ Don't know
} *Skip to 101a*

b. How many times did this happen? (610)
1 ☐ 1
2 ☐ 2
3 ☐ 3 or more

101a. 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)? (611)
1 ☐ Yes
2 ☐ No – *Skip to Check Item BB*

b. Is this house (building) serviced by an exterminator for mice or rats regularly, only when needed, irregularly, or not at all? (612)
1 ☐ Regularly
2 ☐ Only when needed
3 ☐ Irregularly
4 ☐ Not at all

CHECK ITEM BB — *(See cc item 40d)*

- ☐ Unit was Type A or B noninterview last enumeration period – *Ask 102*

(See item 7a, page 1)

- ☐ Unit in sample last enumeration period (first box marked in item 7a) – *Skip to Check Item CC*
- ☐ Unit in sample for first time this enumeration period (second box marked in item 7a) – *Ask 102*

102. 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.)* (613)
1 ☐ Yes
2 ☐ No

CHECK ITEM CC

- ☐ Vacant unit – *Go to Section X, page 44*
- ☐ Occupied unit – *Ask 103*

103. Does the roof of this house (building) leak? (614)
1 ☐ Yes
2 ☐ No
3 ☐ Don't know

104. 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? (615)
1 ☐ Excellent
2 ☐ Good
3 ☐ Fair
4 ☐ Poor
} *Go to Section IX, page 42*

~ PGM 0 ↓

Section IX – NEIGHBORHOOD QUALITY SUPPLEMENT

NOTE – Ask all categories in 105a before proceeding to 105b

NOTE – Ask 105b only for those categories in 105a which were answered "Yes."

105a. The following questions are concerned with different aspects of your PRESENT neighborhood. Here is a list of conditions which many people have on their streets. Which, if any, do you have?		b. Does the (condition) bother you?	c. Is it so objectionable that you would like to move from the neighborhood?
(1) Street (or highway) noise?	(616) 1 ☐ Yes 2 ☐ No	(1) 3 ☐ Yes – Ask c 4 ☐ No	5 ☐ Yes 6 ☐ No
(2) Streets or roads continually in need of repair, or open ditches?	(617) 1 ☐ Yes 2 ☐ No	(2) 3 ☐ Yes – Ask c 4 ☐ No	5 ☐ Yes 6 ☐ No
(3) Neighborhood crime?	(618) 1 ☐ Yes 2 ☐ No	(3) 3 ☐ Yes – Ask c 4 ☐ No	5 ☐ Yes 6 ☐ No
(4) Trash, litter, or junk in the streets (roads), or on empty lots, or on properties in this neighborhood?	(619) 1 ☐ Yes 2 ☐ No	(4) 3 ☐ Yes – Ask c 4 ☐ No	5 ☐ Yes 6 ☐ No
(5) Boarded-up or abandoned structures?	(620) 1 ☐ Yes 2 ☐ No	(5) 3 ☐ Yes – Ask c 4 ☐ No	5 ☐ Yes 6 ☐ No
(6) Industries, businesses, stores, or other nonresidential activities?	(621) 1 ☐ Yes 2 ☐ No	(6) 3 ☐ Yes – Ask c 4 ☐ No	5 ☐ Yes 6 ☐ No
(7) Odors, smoke, or gas?	(622) 1 ☐ Yes 2 ☐ No	(7) 3 ☐ Yes – Ask c 4 ☐ No	5 ☐ Yes 6 ☐ No

NOTE – If "Yes" was answered for one or more of the categories in 105a, ask 105b.

NOTE – Ask ALL categories in 106a before proceeding to 106b.

NOTE – Ask 106b only for those categories in 106a which were answered "No."

106a. The following questions are concerned with neighborhood services. Do you have satisfactory –		b. Is the (service) so unsatisfactory that you would like to move from the neighborhood?
(1) Police protection?	(623) 1 ☐ Yes 2 ☐ No 3 ☐ Don't know	(624) 1 ☐ Yes 2 ☐ No
(2) Outdoor recreation facilities such as parks, playgrounds, or swimming pools?	(625) 1 ☐ Yes 2 ☐ No 3 ☐ Don't know	(626) 1 ☐ Yes 2 ☐ No
(3) Hospitals or health clinics?	(627) 1 ☐ Yes 2 ☐ No 3 ☐ Don't know	(628) 1 ☐ Yes 2 ☐ No

NOTE – If "No" was answered for one or more categories in 106a, ask 106 b.

Facsimile of the Annual Housing Survey Questionnaire: 1979—Continued

Section IX – NEIGHBORHOOD QUALITY SUPPLEMENT – Continued

107a. Is there public transportation for this area?	(629) 1 ☐ Yes 2 ☐ No – *Skip to 108a*
b. Is it satisfactory?	(630) 1 ☐ Yes 2 ☐ No 3 ☐ Don't know
c. Does anyone in the household (Do you) use public transportation at least once a week?	(631) 1 ☐ Yes 2 ☐ No
108a. Do you have satisfactory neighborhood shopping, that is grocery stores or drug stores?	(632) 1 ☐ Yes 2 ☐ No . . . . . } *Skip to Check Item DD* 3 ☐ Don't know
b. Are any of these stores within one mile from here?	(633) 1 ☐ Yes 2 ☐ No
CHECK ITEM DD	*(See Control Card items 11c and 14)* ☐ Household members 5 through 13 years of age – *Ask 109a* ☐ No household members 5 through 13 years of age – *Skip to 109b*
109a. Does your child (Do your children) attend a public elementary school or a private elementary school? *Mark all that apply.*	(634) 1 ☐ Public elementary school 2 ☐ Private elementary school 3 ☐ Other school 4 ☐ Does not attend school
b. Is the public elementary school that children living at this address attend (would attend) satisfactory? *(If more than one public elementary school, ask about the closest one to the area)*	(635) 1 ☐ Yes 2 ☐ No 3 ☐ Don't know
c. Is that public elementary school within one mile of here?	(636) 1 ☐ Yes 2 ☐ No
110. In view of all the things we have talked about, how would you rate this neighborhood as a place to live – would you say it is excellent, good, fair, or poor?	(637) 1 ☐ Excellent 2 ☐ Good 3 ☐ Fair 4 ☐ Poor } *Go to Section X*

NOTES

FORM AHS-2 (5-25-79)

Section X – INTERVIEWER OBSERVATION ITEMS

CHECK ITEM EE	*(See item 8, page 1)* ☐ Regular, URE, or vacant – *Go to item 111* Noninterview *(See cc 40d)* ☐ Type A or Type B – *Go to item 111* ☐ Type C – *Go to Check List for Type B and C Noninterviews (AHS-397)*
OBSERVATION 111. Are there abandoned buildings on this street?	(638) 1 ☐ Yes, one 2 ☐ Yes, more than one 3 ☐ No
OBSERVATION 112. What is the condition of streets and roads in this neighborhood?	(639) 1 ☐ No repairs needed 2 ☐ Minor repairs needed 3 ☐ Major repairs needed
OBSERVATION 113. Is there trash, litter, or junk in the streets (roads), or on empty lots, or on properties in this neighborhood?	(640) 1 ☐ None 2 ☐ Minor accumulation 3 ☐ Moderate accumulation 4 ☐ Heavy accumulation
CHECK ITEM FF	*(See item 8, page 1)* ☐ Regular or URE – *Go to Control Card item 38a* ☐ Vacant – *Go to Control Card item 39* Noninterview *(See cc 40d)* ☐ Type A – *STOP* ☐ Type B – *Go to Check List for Type B and C Noninterviews (AHS-397)*

NOTES

FORM AHS-2 (5-25-79)

Appendix B

Source and Reliability of the Estimates

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SAMPLE DESIGN

The 1979 estimates are based on data collected in September 1979 through December 1979 for the Annual Housing Survey (AHS) national sample, which was conducted by the Bureau of the Census, acting as collection agent for the Department of Housing and Urban Development. Under the sponsorship of the Department of Energy (DOE), the 1979 AHS national sample questionnaire included a supplementary group of questions pertaining to energy conservation. 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 73,300 sample housing units (both occupied and vacant) were eligible for interview in the 1979 Annual Housing Survey. Of this number, 4,300 interviews were classified as "noninterview" 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 73,300 housing units which were eligible for interview, there were also 5,600 sample units which were visited but were ineligible for interview for the AHS in terms of collecting information relevant to the 1979 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 one PSU in sample with certainty. These 156 strata, mostly the larger SMSA's, 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 1979 survey—The sample housing units designated to be interviewed in the 1979 survey consisted of the following categories, which are described in detail in succeeding sections.

1. All sample housing units that were interviewed in the 1978 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 the survey, but which could become eligible in the future) in the 1978 survey. (For a list of reasons for type A and type B noninterviews, see the facsimile of the 1979 AHS questionnaire, App-20.)
3. All sample housing units that were selected from the list of building permits issued since the 1978 survey. (This sample represented the housing units built in permit-issuing areas, since the 1978 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 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:

$$\frac{\text{Number of HU's in the ED} + \dfrac{\text{Number of Group Quarters Persons in the ED}}{3}}{4}$$

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 interview 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 described 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; but the overall probability 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 parks that were 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 then 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 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

In 1979, 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 one category of conventional new construction units, i.e., one category of sample units built April 1, 1970, or later, to an independently derived current estimate where a known deficiency in the AHS sample exists (see the section on nonsampling error) for each of the four regions. This estimate was considered to be the best estimate available for the number of conventional new construction units in this category.

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 ratio 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 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 24 categories is a combination of the characteristics of residence, tenure, race of head, and sex of head.

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 (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 iterated 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 21 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 20 categories of new construction units for each of the four regions (i.e., 13 categories for conventional new construction units and 7 for new construction mobile homes) and, as before, of adjusting the AHS sample estimate of one category 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 iterative process were obtained from the weighted estimates for the AHS sample units after the previous stage of ratio estimation. The factors resulting from this iterative 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 head, and sex of head. 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 1979 AHS estimates.

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 questionnaires, 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 sampling error. One common measure of 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 these tabulations, 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 of this report.

TABLE I. Standard Errors of Estimated Numbers of National and Regional Housing Units: 1979 (Excluding Estimates of Housing Units for The West Regional and of Households With Head of Spanish Origin)

(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 . . .	69	70
10	4	4	5,000 . . .	96	102
25	7	7	10,000. . .	131	151
50	10	10	25,000. . .	184	271
100.	14	14	50,000. . .	196	–
250.	22	22	75,000. . .	115	–
500.	31	31			

TABLE II. Standard Errors of Estimated Numbers of Housing Units for the West Region and of Households With Head of Spanish Origin: 1979

(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		

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.

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—Tables A-1 of this report shows that in all occupied 1-unit detached housing units in the United States there were 9,061,000 renter-occupied, 1-unit structures (including mobile homes and trailers), in 1979. Interpolation in standard error table I shows that the standard error of an estimate of this size is approximately 124,000. 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	96
9,061	x
10,000	131

By vertically interpolating between 96 and 131, the entry for "x" is determined to be 124.

$$9{,}061 - 5{,}000 = 4{,}061$$
$$10{,}000 - 5{,}000 = 5{,}000$$

$$96 + \frac{4{,}061}{5{,}000}(131 - 96) = 124$$

Consequently, the 68-percent confidence interval, as shown by these data, is from 8,937,000 to 9,185,000 housing units. Therefore, a conclusion that the average estimate of 1979 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 8,863,000 to 9,259,000 housing units with 90 percent confidence; and that the average estimate lies within the interval from 8,813,000 to 9,309,000 housing units with 95-percent confidence.

Table A-1 also shows that of the 9,061,000 renter-occupied housing units in 1-unit structures (including mobile homes and trailers), in 1979, 2,598,000, or 28.7 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 0.7 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	28.7	50
5,000	0.9	a	1.0
9,061		p	
10,000	0.6	b	0.7

1. By horizontal interpolation between 0.9 and 1.0, the entry for cell "a" is determined to be 0.9.

$$28.7-25.0 = 3.7$$
$$50.0-25.0 = 25.0$$

$$0.9 + \frac{3.7}{25.0}(1.0-0.9) = 0.9$$

2. By horizontal interpolation 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 interpolation between 0.9 and 0.6, using the same procedure as in step 1, the entry for "p" is determined to be 0.7.

Consequently, the 68-percent confidence interval, as shown by these data, is from 28.0 to 29.4 percent; the 90-percent confidence interval is from 27.6 to 29.8 percent; and the 95-percent confidence interval is from 27.3 to 30.1 percent.

Illustration II—Table E-I of this report shows that in all occupied housing units of the West Region in 1979 there were 9,253,000 owner-occupied housing units. Interpolation in standard error table II shows that the standard error of an estimate of this size is approximately 201,000. Consequently, the 68-percent confidence interval is from 9,052,000 to 9,454,000 housing units. Therefore, a conclusion that the average estimate, derived from all possible samples, of 1979 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 8,931,000 to 9,575,000 housing units with 90 percent confidence; and that the average estimate lies within the interval from 8,851,000 to 9,655,000 housing units with 95 percent confidence.

Table E-I also shows that of the 9,253,000 owner-occupied housing units in the West Region, 2,204,000 or 23.8 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 23.1 to 24.5 percent; the 90-percent confidence interval is from 22.7 to 24.9 percent; and the 95-percent confidence interval is from 22.4 to 25.2 percent.

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 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, 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 1-unit detached housing units of the United States there were 5,121,000 renter-occupied housing units with no doors covered by storm doors. Thus, the apparent difference between the number of 1979 renter-occupied, 1-unit detached housing units with no doors covered and those with all doors covered is 2,523,000. Interpolation in standard error table I shows that the standard error of 2,598,000 is approximately 70,000 and that the standard error on an estimate of 5,121,000 is approximately 97,000. Therefore, the standard error of the estimated difference of 2,523,000 is about:

$$124{,}000 = \sqrt{(77{,}000)^2 + (97{,}000)^2}$$

Consequently, the 68-percent confidence interval for the 2,523,000 difference is from 2,399,000 to 2,647,000 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 2,325,000 to 2,721,000 housing units, and the 95-percent confidence interval is from 2,275,000 to 2,771,000. Thus, we can conclude with 95-percent confidence that the number of 1979 renter-occupied, 1-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.
3. Using the distribution of the characteristic, read off the confidence interval corresponding to the two points established in step 2.

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 of this report shows the median income of families and primary individuals in specified owner-occupied, 1-unit detached housing units was $19,400 in 1979. The base of the distribution, from which this median was determined is 41,336,000 housing units.

1. From standard error table III, the standard error of a 50-percent characteristic on the base of 41,336,000 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 4 categories that 15,399,000 owner-occupied housing units, or 37.3 percent, had income less than $15,000 and that an additional 5,998,000 specified owner-occupied housing units, or 14.5 percent, had income from $15,000 to less than $20,000. By linear interpolation, the lower limit of the 95-percent confidence interval is found to be about:

$$\$15{,}000 + (\$20{,}000 - \$15{,}000)\left(\frac{49.4-37.3}{14.5}\right) = \$19{,}200$$

Similarly, the upper limit of the 95-percent confidence interval is found to be about:

$$\$15{,}000 + (\$20{,}000 - \$15{,}000)\left(\frac{50.6-37.3}{14.5}\right) = \$19{,}600$$

Thus, the 95-percent confidence interval ranges from $19,200 to $19,600.

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,

TABLE III. Standard Errors of Estimated Percentages of Housing Units: 1979 (Excluding Estimated Percentages of Housing Units for the West Region and of Households With Head of Spanish Origin)

(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
75,000	–	0.05	0.07	0.11	0.2	0.2	0.2	0.3

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 1979 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 1979 reinterview study 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 question 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.

TABLE IV. Standard Errors of Estimated Percentages of Housing Units for the West Region and of Households With Head of Spanish Origin: 1979

(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	24.1
25	8.5	8.5	8.5	8.5	9.1	10.9	13.2	15.2
50	4.4	4.4	4.4	4.7	6.5	7.7	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

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 1979 AHS sample missed about 2.1 percent (i.e., about 340,000 units) of all conventional housing units built after April 1970 because the permits for these units, which were built before September 1979, 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 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 1979 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	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
All electric housing units	–	–	–	–
All gas housing units	–	–	–	–
Monthly cost paid for electricity				
Monthly cost paid for utility, bottled, tank, or LP gas	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
Yearly cost paid for fuel oil, kerosene, coal, wood, etc.				
HEATING AND AIR CONDITIONING				
Heating equipment				
Thermostat controlled 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
Insufficient heat:				
Housing unit uncomfortably cold				
Additional heat source	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
Rooms lacking specified heat source				
Supplemental heating equipment acquired during 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	A-4,B-4,C-4,D-4,E-4
Age of heating equipment				
Maintenance or modification of heating equipment during 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	–
Contracted maintenance of heating equipment				
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
INSULATION				
Storm windows or other protective window covering				
Storm doors	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
Attic or roof insulation				
Insulation items added or installed in last 12 months				
Cost of 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	–
JOURNEY TO WORK				
Head'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	–	–
Distance from home to work				
Travel time from home to work	A-1,B-1,C-1,D-1,E-1	A-2,B-2,C-2,D-2,E-2	–	–
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	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
Water heating fuel	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
Cooking fuel				A-8,B-8,C-8,D-8,E-8
All electric housing units	—	—	—	—
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	A-7,B-7,C-7,D-7,E-7	A-8,B-8,C-8,D-8,E-8
Thermostat controlled heating equipment				
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
Age of heating equipment				
Maintenance or modification of heating equipment during last 12 months	—	—	A-7,B-7,C-7,D-7,E-7	A-8*,B-8*,C-8*,D-8*,E-8*
Contracted maintenance of heating equipment				
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
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				
Head's principal means of transportation 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

*Data are presented for owner-occupied housing units only.

Subject	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.	Household head's principal means of transportation to work	Black household head	Spanish-origin head
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
Theromostat controlled heating equipment					
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
Age of 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
Maintenance or modification of heating equipment during last 12 months					
Contracted maintenance of heating equipment					
Supplemental solar water 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
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
INSULATION					
Storm windows or other protective windows 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					
Head's principal means of transportation to work	—	—	—	F-1	G-1
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	—	—	—

*Data are presented for owner-occupied housing units only.

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