

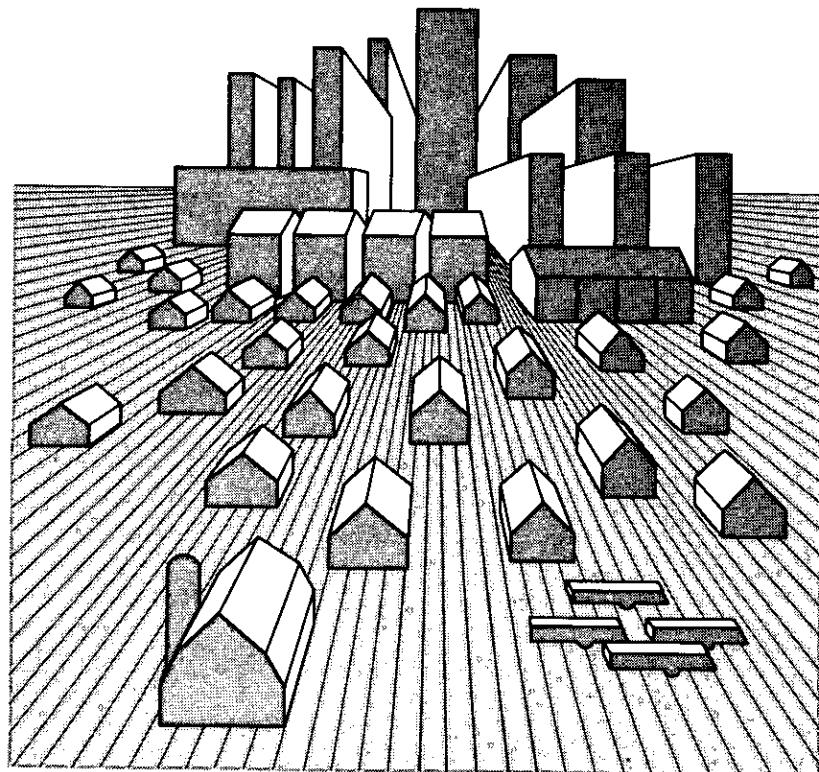
ANNUAL HOUSING SURVEY: 1978

United States
and Regions

Part F



Energy-Related Housing Characteristics



Issued August 1981



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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 David Yentis, Connie Casey, John Sneed, 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 Jane S. Maynard and Paul P. Harple, Jr. 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, Wallace Fraser, Sheryl H. Furman, Richard G. Kreinsen, Ruby E. Lewis, Stanley J. Rolark, Josephine Ruffin, Georgina Torres, Barbara Williams, Elizabeth Williams, and Jeanne M. Woodward. Important contributions were made by Elmo E. Beach in the planning and coordination of the survey.

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The operational aspects of the Annual Housing Survey were coordinated by the Demographic Surveys Division under the direction of Marvin M. Thompson, Chief, by Stanley Greene, Assistant Division Chief, and Edward F. Knowles, assisted by Maria A. Mochulski, Joan F. Garrett, 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, and James Dallmann. Angel Marshall, assisted by 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 McClintic, 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, Fay Nash, and Richard Frazier. Reinterview design and analysis were conducted under the supervision of Irwin Schreiner, by Phillip Sanchez, and the programming was conducted under the supervision of David Diskin, by Mindi Schautz and Mary Carstensen.

Data collection activities were administered by the Field Division under the supervision of Forrest P. Cawley, Jr., Chief, by Leo C. Schilling, Assistant Division Chief, Kenneth A. Frait, and William J. Phalen, as well as the 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, and Kurt Legait.

Within the Publications 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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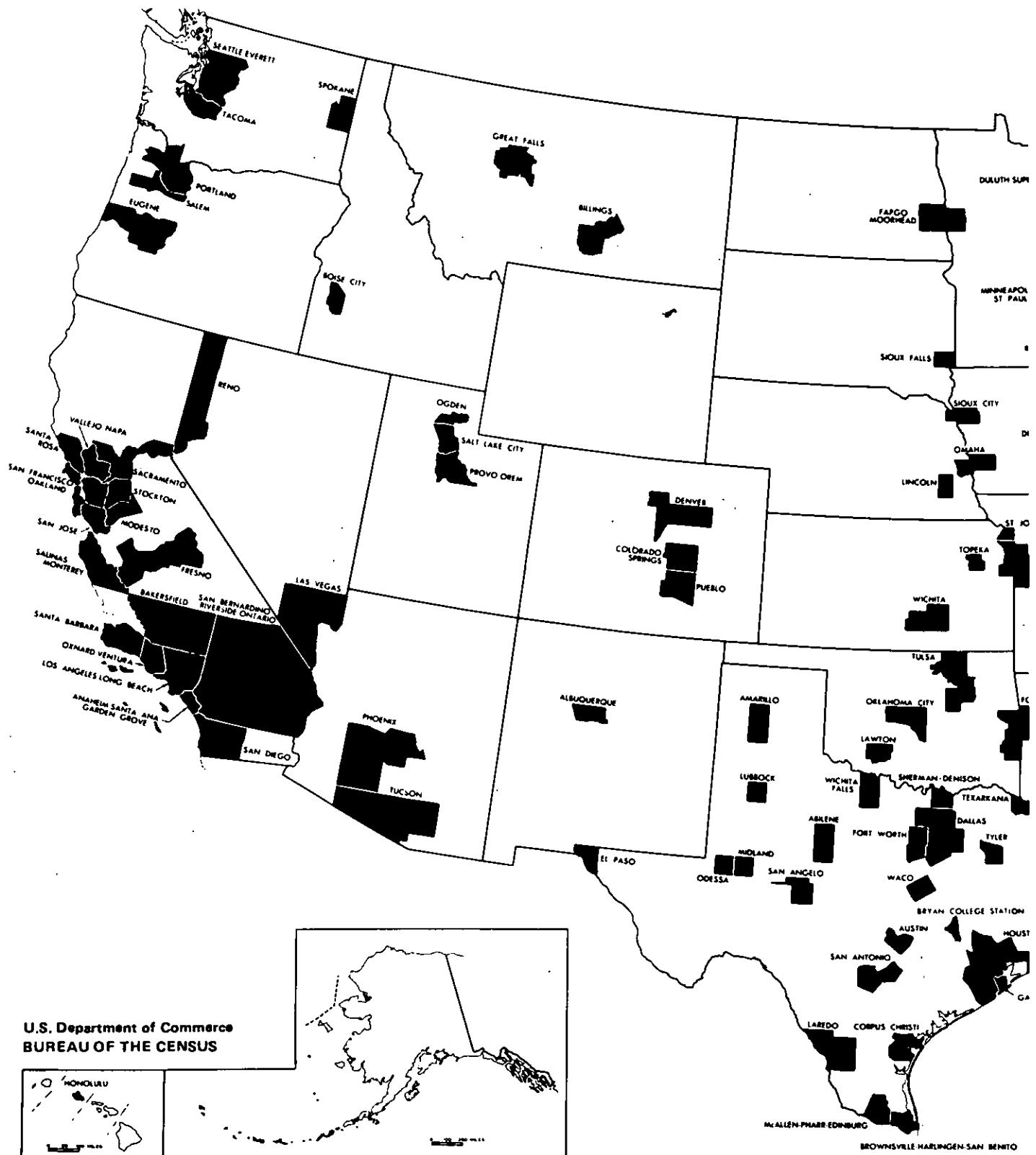
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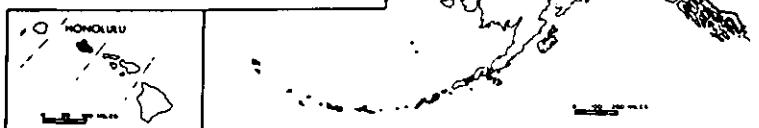
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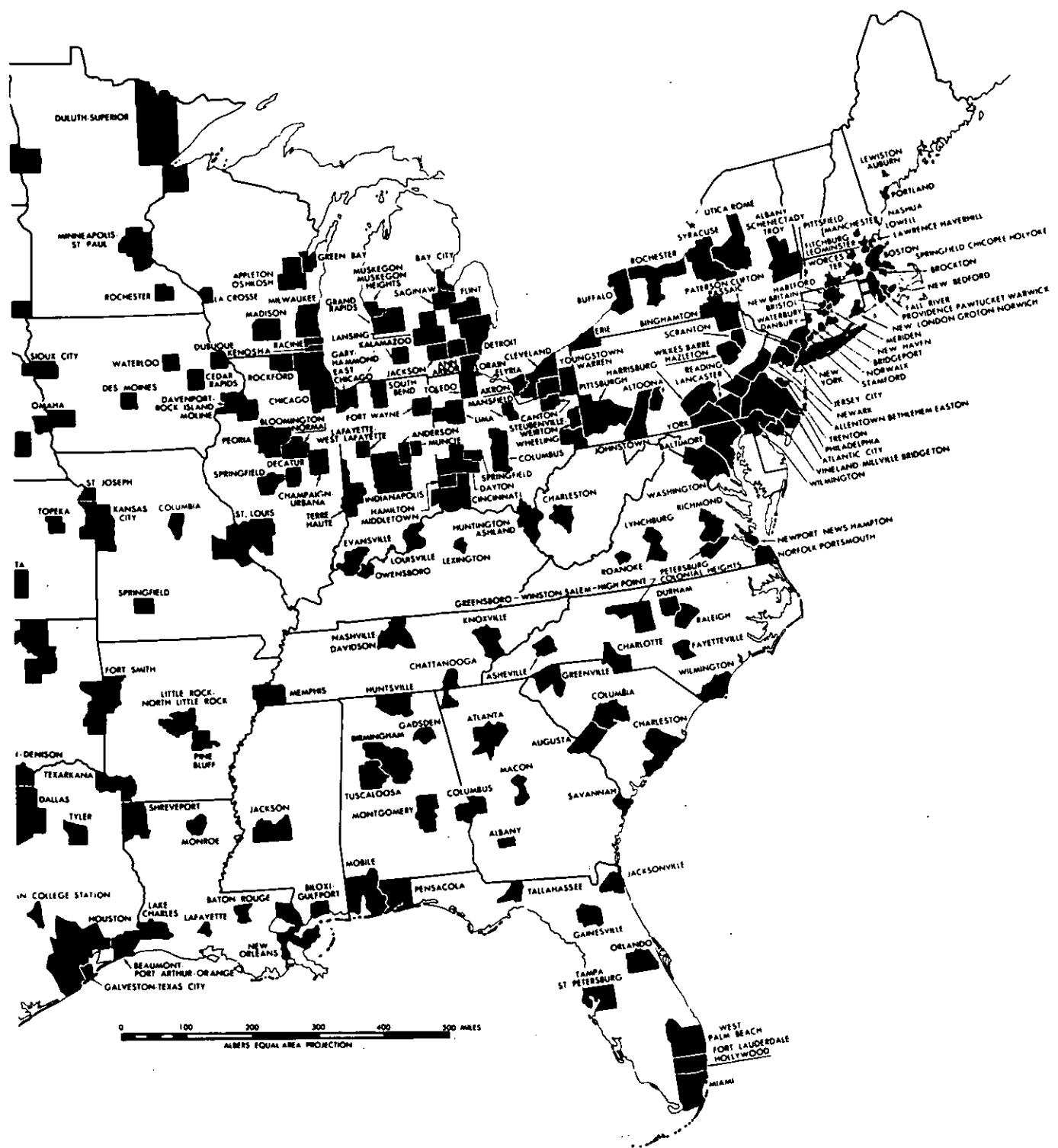
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(Areas defined by the Office of Management and Budget as of February 1971)

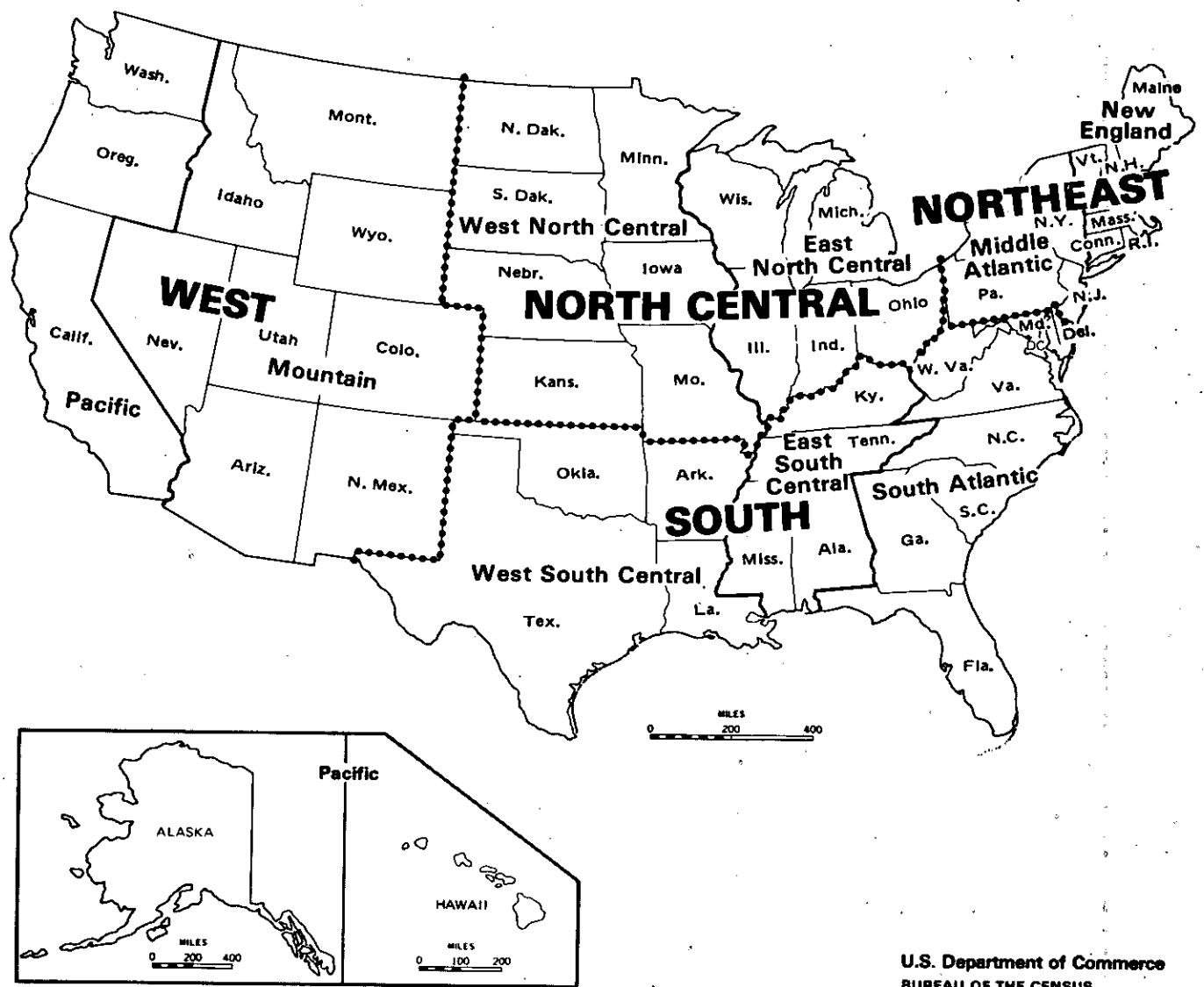


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Regions and Geographic Divisions of the United States





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GENERAL

This report presents statistics on energy-related housing characteristics from the 1978 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 October 1978 to January 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 78,000 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 \$5,000," it is shown as \$5,000—." 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 "\$35,000 or more," it is shown as "\$35,000+."

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 1978 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 October 1978 and extended through January 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 1978 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 1978 Annual Housing Survey were of the conventional type, on which the interviewer recorded the information by marking a pre-coded 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.

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

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

*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.

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 1978 survey and 1970 Census of Housing results, differences in the data may reflect such factors as the use of direct interview for 1978 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 1978 are measured in current dollars (the value at the time the data were collected). Therefore, a significant part of the increase between 1970 and 1978 reflects the 74.2 percent rise in the cost of living during the 8 1/2-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 interpretation of differences in the estimated counts of Spanish-origin households between 1970 and 1978. 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 1978 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: 1978
 (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.	77 167	52 722	23 436	29 286	24 445
HOUSE HEATING FUEL					
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892
BOTTLED, TANK, OR LP GAS.	28 187	20 814	8 476	12 339	7 372
FUEL OIL.	3 196	825	83	742	2 371
KEROSENE, ETC.	9 980	6 350	1 829	4 521	3 630
ELECTRICITY.	281	94	26	68	187
COAL OR COKE.	7 450	3 875	1 080	2 795	3 575
WOOD.	251	106	28	79	145
SOLAR HEAT.	696	121	26	94	576
OTHER FUEL.	3	-	-	-	3
NONE.	18	8	7	2	9
	222	198	77	121	24
RENTER OCCUPIED.	26 884	20 332	11 806	8 526	6 552
UTILITY GAS.	14 334	11 246	6 670	4 576	3 088
BOTTLED, TANK, OR LP GAS.	934	238	34	204	695
FUEL OIL.	5 669	4 549	2 882	1 667	1 119
KEROSENE, ETC.	143	41	12	29	101
ELECTRICITY.	4 808	3 705	1 897	1 808	1 103
COAL OR COKE.	151	57	22	35	94
WOOD.	370	76	15	61	294
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	101	94	89	5	7
NONE.	375	324	184	140	51
WATER HEATING FUEL					
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892
NO HOT PIPED WATER.	444	84	9	75	360
WITH HOT PIPED WATER.	49 837	32 305	11 621	20 684	17 532
FUEL USED:					
UTILITY GAS.	26 743	20 759	8 704	12 055	5 984
BOTTLED, TANK, OR LP GAS.	2 420	680	53	627	1 740
FUEL OIL.	3 572	2 742	789	1 953	830
KEROSENE, ETC.	27	10	-	10	17
ELECTRICITY.	16 956	8 063	2 055	6 009	8 892
COAL OR COKE.	35	18	7	11	17
WOOD.	35	5	2	4	30
SOLAR HEAT.	14	10	6	4	4
OTHER FUEL.	17	9	5	4	8
NONE.	17	9	2	7	9
NOT REPORTED.	2	2	-	2	1
RENTER OCCUPIED.	26 884	20 332	11 806	8 526	6 552
NO HOT PIPED WATER.	482	97	23	73	385
WITH HOT PIPED WATER.	26 402	20 235	11 783	8 453	6 167
FUEL USED:					
UTILITY GAS.	14 725	12 108	7 361	4 747	2 618
BOTTLED, TANK, OR LP GAS.	709	226	41	185	483
FUEL OIL.	3 430	3 053	2 066	988	377
KEROSENE, ETC.	10	5	-	5	5
ELECTRICITY.	7 339	4 704	2 205	2 499	2 635
COAL OR COKE.	33	13	7	6	20
WOOD.	11	4	-	4	8
SOLAR HEAT.	3	3	-	3	-
OTHER FUEL.	121	110	97	13	10
NONE.	20	10	6	3	10
NOT REPORTED.	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892
UTILITY GAS.	18 290	14 252	6 503	7 750	4 038
BOTTLED, TANK, OR LP GAS.	3 903	1 205	124	1 081	2 698
FUEL OIL.	62	37	8	29	25
KEROSENE, ETC.	14	3	-	3	10
ELECTRICITY.	27 839	16 854	4 987	11 867	10 985
COAL OR COKE.	22	10	2	8	12
WOOD.	133	17	2	15	116
OTHER FUEL.	6	3	-	3	3
NONE.	15	9	5	4	6
RENTER OCCUPIED.	26 884	20 332	11 806	8 526	6 552
UTILITY GAS.	14 286	12 155	8 088	4 066	2 132
BOTTLED, TANK, OR LP GAS.	1 322	416	58	358	906
FUEL OIL.	21	17	15	2	4
KEROSENE, ETC.	10	2	2	1	7
ELECTRICITY.	10 940	7 559	3 516	4 042	3 381
COAL OR COKE.	4	1	-	1	3
WOOD.	58	13	5	8	45
OTHER FUEL.	22	13	11	2	9
NONE.	221	156	111	45	66

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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	40 054	26 994	9 607	17 387	13 061		
LESS THAN \$10	707	490	270	220	217		
\$10 TO \$19.	5 980	4 056	1 774	2 281	1 924		
\$20 TO \$29.	9 222	6 320	2 312	4 008	2 902		
\$30 TO \$39.	8 071	5 495	1 893	3 602	2 576		
\$40 TO \$49.	5 036	3 388	1 086	2 303	1 648		
\$50 TO \$59.	3 917	2 598	820	1 778	1 319		
\$60 TO \$79.	3 972	2 616	777	1 838	1 356		
\$80 TO \$99.	1 518	980	292	689	538		
\$100 TO \$149.	1 290	839	320	519	451		
\$150 OR MORE.	316	203	60	142	113		
NO ELECTRICITY USED OR NOT REPORTED	26	9	2	7	17		
MEDIAN.	35	34	32	35	35		
SPECIFIED RENTER OCCUPIED ²	26 247	20 189	11 803	8 386	6 058		
LESS THAN \$10	2 510	2 057	1 219	838	452		
\$10 TO \$19.	6 877	5 426	3 139	2 287	1 451		
\$20 TO \$29.	4 988	3 741	2 150	1 592	1 247		
\$30 TO \$39.	2 867	2 045	1 071	974	822		
\$40 TO \$49.	1 402	999	511	488	403		
\$50 TO \$59.	874	615	308	308	258		
\$60 TO \$79.	707	498	224	278	209		
\$80 TO \$99.	189	139	46	93	50		
\$100 TO \$149.	151	108	47	61	43		
\$150 OR MORE.	44	32	13	19	12		
INCLUDED IN RENT.	5 562	4 474	3 048	1 426	1 088		
NO ELECTRICITY USED OR NOT REPORTED	75	53	28	26	22		
MEDIAN.	22	21	20	22	24		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED ¹	40 054	26 994	9 607	17 387	13 061		
LESS THAN \$10	2 867	2 099	825	1 274	768		
\$10 TO \$19.	3 098	2 382	998	1 385	716		
\$20 TO \$24.	3 049	2 112	896	1 216	937		
\$25 TO \$29.	3 293	2 212	1 016	1 196	1 081		
\$30 TO \$39.	2 961	1 956	833	1 122	1 005		
\$40 TO \$49.	5 851	4 151	1 524	2 626	1 700		
\$50 TO \$69.	3 853	2 781	932	1 849	1 072		
\$70 TO \$99.	3 474	2 494	873	1 621	980		
\$100 OR MORE.	993	765	283	482	229		
NO GAS USED OR NOT REPORTED	369	268	92	176	101		
MEDIAN.	10 246	5 774	1 334	4 440	4 472		
29	29	27	31	28	28		
SPECIFIED RENTER OCCUPIED ²	26 247	20 189	11 803	8 386	6 058		
LESS THAN \$10	4 321	3 694	2 315	1 379	626		
\$10 TO \$14.	2 277	1 826	1 169	657	450		
\$15 TO \$19.	1 565	1 132	700	432	433		
\$20 TO \$24.	1 098	741	427	315	357		
\$25 TO \$29.	899	602	373	229	296		
\$30 TO \$39.	1 378	937	553	385	440		
\$40 TO \$49.	710	506	298	208	204		
\$50 TO \$69.	613	435	256	179	178		
\$70 TO \$99.	199	144	97	47	55		
\$100 OR MORE.	90	53	26	26	38		
INCLUDED IN RENT.	7 715	6 287	3 785	2 503	1 427		
NO GAS USED OR NOT REPORTED	5 383	3 831	1 804	2 026	1 553		
MEDIAN.	14	13	13	13	20		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED ¹	40 054	26 994	9 607	17 387	13 061		
LESS THAN \$100.	1 425	941	330	610	485		
\$100 TO \$199.	792	418	160	258	374		
\$200 TO \$299.	953	464	143	321	489		
\$300 TO \$399.	1 317	782	263	519	536		
\$400 TO \$499.	1 262	815	197	618	447		
\$500 TO \$599.	1 115	741	173	569	374		
\$600 TO \$699.	947	692	150	542	255		
\$700 TO \$799.	677	533	111	422	143		
\$800 OR MORE.	1 277	974	190	784	303		
FUELS NOT USED, FREE, OR NOT REPORTED	30 288	20 633	7 889	12 744	9 655		
MEDIAN.	431	470	385	498	366		

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

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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	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	26 247	20 189	11 803	8 386	6 058		
LESS THAN \$100.	291	161	78	83	131		
\$100 TO \$199.	261	102	35	67	158		
\$200 TO \$299.	289	128	50	78	161		
\$300 TO \$399.	356	190	87	103	166		
\$400 TO \$499.	248	146	48	98	103		
\$500 TO \$599.	176	95	39	57	81		
\$600 TO \$699.	169	100	46	54	69		
\$700 TO \$799.	97	67	14	54	30		
\$800 OR MORE.	161	100	22	78	60		
INCLUDED IN RENT.	4 975	4 296	2 974	1 322	680		
FUELS NOT USED, FREE, OR NOT REPORTED	19 223	14 803	8 410	6 393	4 421		
MEDIAN.	351	380	353	404	317		
ALL OCCUPIED HOUSING UNITS.	77 167	52 722	23 436	29 286	24 445		
HEATING EQUIPMENT							
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892		
WARM-AIR FURNACE.	30 271	20 606	7 013	13 593	9 665		
HEAT PUMP.	899	527	119	408	372		
STEAM OR HOT WATER.	6 900	5 412	2 072	3 340	1 488		
BUILT-IN ELECTRIC UNITS	3 106	1 458	450	1 009	1 647		
FLOOR, WALL, OR PIPELESS FURNACE.	3 333	2 195	1 042	1 152	1 139		
ROOM HEATERS WITH FLUE.	2 323	906	403	503	1 417		
ROOM HEATERS WITHOUT FLUE	1 766	684	336	348	1 082		
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 463	403	117	286	1 059		
NONE.	222	198	77	121	24		
RENTER OCCUPIED	26 884	20 332	11 806	8 526	6 552		
WARM-AIR FURNACE.	9 575	7 279	3 752	3 527	2 295		
HEAT PUMP.	228	193	62	131	35		
STEAM OR HOT WATER.	7 025	6 220	4 277	1 943	805		
BUILT-IN ELECTRIC UNITS	2 493	1 840	927	913	652		
FLOOR, WALL, OR PIPELESS FURNACE.	2 840	2 225	1 195	1 030	615		
ROOM HEATERS WITH FLUE.	2 154	1 227	780	447	927		
ROOM HEATERS WITHOUT FLUE	1 384	720	498	222	664		
FIREPLACES, STOVES, OR PORTABLE HEATERS	811	303	130	173	508		
NONE.	375	324	184	140	51		
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892		
NO HEATING EQUIPMENT.	222	198	77	121	24		
WITH HEATING EQUIPMENT.	50 061	32 192	11 553	20 639	17 868		
NO THERMOSTAT CONTROL	5 658	2 619	1 317	1 302	3 039		
WITH THERMOSTAT CONTROL	44 256	29 491	10 204	19 286	14 765		
NOT CLOCK OPERATED.	38 310	25 359	8 339	17 020	12 950		
CONSTANT TEMPERATURE SETTING MAINTAINED	11 536	7 574	2 616	4 958	3 962		
TEMPERATURE SETTING IS CHANGED.	26 597	17 669	5 679	11 990	8 928		
OCCASIONALLY.	7 038	4 778	1 716	3 062	2 260		
REGULARLY.	19 282	12 683	3 892	8 792	6 599		
DON'T KNOW.	239	174	61	113	65		
NOT REPORTED.	38	34	10	24	4		
NOT REPORTED.	177	117	44	73	60		
CLOCK OPERATED.	5 741	3 999	1 816	2 183	1 741		
NOT REPORTED.	206	132	49	83	74		
NOT REPORTED.	146	83	32	50	64		
RENTER OCCUPIED	26 884	20 332	11 806	8 526	6 552		
NO HEATING EQUIPMENT.	375	324	184	140	51		
WITH HEATING EQUIPMENT.	26 509	20 008	11 622	8 386	6 501		
NO THERMOSTAT CONTROL	10 160	7 739	5 558	2 180	2 422		
WITH THERMOSTAT CONTROL	16 284	12 227	6 033	6 194	4 057		
NOT CLOCK OPERATED.	14 276	10 655	5 135	5 520	3 621		
CONSTANT TEMPERATURE SETTING MAINTAINED	4 659	3 482	1 705	1 776	1 177		
TEMPERATURE SETTING IS CHANGED.	9 469	7 059	3 371	3 689	2 410		
OCCASIONALLY.	3 010	2 334	1 193	1 140	676		
REGULARLY.	6 286	4 598	2 101	2 497	1 687		
DON'T KNOW.	162	121	69	51	41		
NOT REPORTED.	12	6	6	-	6		
CLOCK OPERATED.	1 905	1 505	864	641	400		
NOT REPORTED.	103	68	35	33	36		
NOT REPORTED.	65	42	30	12	23		

*EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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.	77 167	52 722	23 436	29 286	24 445
UNITS OCCUPIED LAST WINTER.	63 219	42 900	18 806	24 094	20 319
INSUFFICIENT HEAT					
CLOSURE OF ROOMS:					
OWNER OCCUPIED.	45 520	29 339	10 630	18 709	16 181
WITH HEATING EQUIPMENT.	45 315	29 150	10 554	18 596	16 165
NO ROOMS CLOSED.	43 013	27 904	10 060	17 844	15 109
CLOSED CERTAIN ROOMS.	1 886	996	414	582	889
LIVING ROOM ONLY.	78	35	15	20	43
DINING ROOM ONLY.	35	25	10	14	10
1 OR MORE BEDROOMS ONLY.	1 232	588	251	337	644
OTHER ROOMS OR COMBINATION OF ROOMS.	514	327	131	196	187
NOT REPORTED.	28	22	7	15	6
NOT REPORTED.	416	249	80	169	167
NO HEATING EQUIPMENT.	206	189	77	113	16
RENTER OCCUPIED.	17 698	13 561	8 175	5 386	4 137
WITH HEATING EQUIPMENT.	17 473	13 357	8 044	5 313	4 117
NO ROOMS CLOSED.	16 014	12 412	7 433	4 979	3 602
CLOSED CERTAIN ROOMS.	1 223	770	510	261	453
LIVING ROOM ONLY.	84	70	59	11	14
DINING ROOM ONLY.	17	6	3	3	11
1 OR MORE BEDROOMS ONLY.	837	507	330	176	330
OTHER ROOMS OR COMBINATION OF ROOMS.	276	181	115	65	96
NOT REPORTED.	8	7	2	5	1
NOT REPORTED.	236	174	102	73	62
NO HEATING EQUIPMENT.	225	204	131	73	21
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED.	45 520	29 339	10 630	18 709	16 181
WITH SPECIFIED HEATING EQUIPMENT ¹	42 258	28 112	10 117	17 995	14 146
NO ADDITIONAL HEAT SOURCE USED.	38 954	26 046	9 303	16 743	12 907
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE					
HEATER.	2 972	1 866	751	1 115	1 105
NOT REPORTED.	333	199	63	136	134
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	3 262	1 227	514	714	2 035
RENTER OCCUPIED.	17 698	13 561	8 175	5 386	4 137
WITH SPECIFIED HEATING EQUIPMENT ¹	15 896	12 628	7 605	5 023	3 267
NO ADDITIONAL HEAT SOURCE USED.	13 566	10 760	6 320	4 439	2 807
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE					
HEATER.	2 148	1 729	1 209	520	419
NOT REPORTED.	181	140	76	64	41
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	1 803	933	570	363	870
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED.	45 520	29 339	10 630	18 709	16 181
WITH SPECIFIED HEATING EQUIPMENT ¹	42 258	28 112	10 117	17 995	14 146
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	33 445	23 166	8 037	15 130	10 279
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.					
1 ROOM.	8 345	4 652	1 985	2 667	3 693
2 ROOMS.	2 468	1 511	624	886	958
3 ROOMS OR MORE.	2 157	1 155	542	613	1 002
NOT REPORTED.	3 719	1 986	819	1 168	1 733
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	3 262	1 227	514	714	2 035
RENTER OCCUPIED.	17 698	13 561	8 175	5 386	4 137
WITH SPECIFIED HEATING EQUIPMENT ¹	15 896	12 628	7 605	5 023	3 267
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	11 727	9 687	5 837	3 850	2 039
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.					
1 ROOM.	3 904	2 735	1 644	1 091	1 169
2 ROOMS.	1 305	1 020	618	402	285
3 ROOMS OR MORE.	1 268	890	509	381	378
NOT REPORTED.	1 331	824	517	307	507
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	265	207	124	83	59
	1 803	933	570	363	870

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

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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.	77 167	52 722	23 436	29 286	24 445
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 685	602	194	408	1 083
WITH SELECTED HEATING EQUIPMENT ¹	48 598	31 789	11 436	20 353	16 809
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	45 963	30 334	10 996	19 339	15 628
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	2 365	1 271	388	883	1 094
SOLAR HEATING EQUIPMENT	11	8	4	4	3
STOVE, BURNING WOOD OR COAL	895	359	53	306	536
FIREPLACE, BURNING WOOD OR COAL	312	167	46	120	145
PORTABLE ELECTRIC HEATER.	585	390	161	228	196
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	128	57	18	38	71
OTHER	398	262	90	172	137
NOT REPORTED.	45	33	16	17	12
NOT REPORTED.	270	184	53	131	87
RENTER OCCUPIED	26 884	20 332	11 806	8 526	6 552
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 185	627	314	313	559
WITH SELECTED HEATING EQUIPMENT ¹	25 698	19 705	11 492	8 213	5 993
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	24 604	18 909	10 984	7 925	5 695
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	929	665	432	233	264
SOLAR HEATING EQUIPMENT	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	81	17	3	14	63
FIREPLACE, BURNING WOOD OR COAL	18	7	3	4	11
PORTABLE ELECTRIC HEATER.	643	515	344	171	127
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	83	47	34	13	36
OTHER	95	71	41	30	24
NOT REPORTED.	16	12	10	2	4
NOT REPORTED.	165	131	76	55	34
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	5 774	2 192	934	1 258	3 582
WITH SELECTED HEATING EQUIPMENT ²	44 509	30 199	10 696	19 502	14 310
LESS THAN 4 YEARS	7 846	4 843	1 497	3 346	3 003
4 TO 9 YEARS.	11 939	7 333	2 203	5 130	4 606
10 TO 19 YEARS.	12 937	8 922	3 156	5 765	4 015
20 TO 39 YEARS.	7 981	6 126	2 253	3 872	1 856
40 YEARS OR MORE.	786	626	318	308	159
DON'T KNOW.	2 168	1 701	942	759	467
NOT REPORTED.	852	648	327	322	204
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	5 774	2 192	934	1 258	3 582
WITH SELECTED HEATING EQUIPMENT ²	44 509	30 199	10 696	19 502	14 310
NO MAINTENANCE OR MODIFICATION.	33 758	22 547	8 078	14 469	11 211
WITH MAINTENANCE OR MODIFICATION.	9 910	7 005	2 272	4 733	2 905
NOT REPORTED.	841	646	347	299	195
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	50 283	32 390	11 630	20 760	17 892
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	5 774	2 192	934	1 258	3 582
WITH SELECTED HEATING EQUIPMENT ²	44 509	30 199	10 696	19 502	14 310
NO MAINTENANCE CONTRACT.	37 986	25 133	9 040	16 094	12 852
WITH MAINTENANCE CONTRACT	5 553	4 326	1 280	3 046	1 227
NOT REPORTED.	970	739	376	363	231

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED
 (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	50 283	32 390	11 630	20 760	17 892		
NO HOT PIPED WATER	444	84	9	75	360		
WITH HOT PIPED WATER	49 837	32 305	11 621	20 684	17 532		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	48 785	31 610	11 371	20 239	17 174		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	256	175	51	124	81		
NOT REPORTED	764	501	191	310	264		
NOT REPORTED	2	2	-	2	1		
RENTER OCCUPIED	26 884	20 332	11 806	8 526	6 552		
NO HOT PIPED WATER	482	97	23	73	385		
WITH HOT PIPED WATER	26 402	20 235	11 783	8 453	6 167		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 730	19 709	11 449	8 260	6 021		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	113	90	57	32	24		
NOT REPORTED	536	424	270	154	112		
NOT REPORTED	-	-	-	-	-		
AIR CONDITIONING							
OWNER OCCUPIED	50 283	32 390	11 630	20 760	17 892		
WITH AIR CONDITIONING	29 231	19 517	7 037	12 480	9 714		
ROOM UNITS	15 320	9 881	3 993	5 888	5 439		
1	9 285	5 517	2 119	3 398	3 769		
2	4 329	3 026	1 285	1 741	1 304		
3	1 212	941	410	531	272		
4	352	286	122	163	67		
5 OR MORE	140	112	57	55	28		
CENTRAL SYSTEM	13 911	9 636	3 044	6 592	4 275		
WITH NO AIR CONDITIONING	21 052	12 874	4 593	8 280	8 178		
RENTER OCCUPIED	26 884	20 332	11 806	8 526	6 552		
WITH AIR CONDITIONING	12 053	9 507	4 905	4 602	2 546		
ROOM UNITS	7 474	5 681	3 040	2 641	1 792		
1	5 730	4 286	2 273	2 014	1 443		
2	1 470	1 170	631	539	300		
3	224	183	115	68	41		
4	38	33	16	16	5		
5 OR MORE	12	10	5	5	2		
CENTRAL SYSTEM	4 579	3 826	1 865	1 961	754		
WITH NO AIR CONDITIONING	14 831	10 825	6 901	3 924	4 006		
ALL OCCUPIED HOUSING UNITS	77 167	52 722	23 436	29 286	24 445		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS							
55 965	34 520	12 113	22 408	21 445			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	47 029	29 557	9 964	19 593	17 473		
ALL WINDOWS COVERED	24 717	15 269	4 461	10 808	9 448		
SOME WINDOWS COVERED	5 024	2 964	1 063	1 900	2 061		
NO WINDOWS COVERED	17 093	11 184	4 372	6 812	5 908		
NOT REPORTED	195	139	67	72	56		
RENTER OCCUPIED	8 936	4 964	2 149	2 815	3 972		
ALL WINDOWS COVERED	2 494	1 280	480	799	1 215		
SOME WINDOWS COVERED	1 080	523	238	285	557		
NO WINDOWS COVERED	4 992	2 900	1 305	1 595	2 092		
NOT REPORTED	369	261	126	135	108		
STORM DOORS							
OWNER OCCUPIED	47 029	29 557	9 964	19 593	17 473		
ALL DOORS COVERED	23 614	14 609	4 496	10 113	9 005		
SOME DOORS COVERED	6 648	3 903	1 376	2 526	2 745		
NO DOORS COVERED	16 513	10 869	4 019	6 850	5 644		
NOT REPORTED	254	176	72	104	78		
RENTER OCCUPIED	8 936	4 964	2 149	2 815	3 972		
ALL DOORS COVERED	2 385	1 250	515	735	1 134		
SOME DOORS COVERED	989	517	217	300	472		
NO DOORS COVERED	5 150	2 906	1 278	1 627	2 245		
NOT REPORTED	412	291	139	152	121		

¹LIMITED 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: 1978--CONTINUED
 (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:							
YES	47 029	29 557	9 964	19 593	17 473		
NO.	38 132	24 026	7 471	16 555	14 106		
DON'T KNOW.	6 836	4 098	1 888	2 211	2 738		
NOT REPORTED.	1 820	1 264	530	734	556		
	241	168	74	94	73		
RENTER OCCUPIED							
YES	8 936	4 964	2 149	2 815	3 972		
NO.	3 608	1 956	692	1 265	1 651		
DON'T KNOW.	2 783	1 452	719	733	1 331		
NOT REPORTED.	2 150	1 282	604	678	868		
	395	273	134	140	122		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED:							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:	47 029	29 557	9 964	19 593	17 473		
NO WINDOWS COVERED.	17 093	11 184	4 372	6 812	5 908		
SOME OR ALL WINDOWS COVERED	29 741	18 233	5 525	12 708	11 508		
NONE ADDED OR INSTALLED	25 605	15 838	4 828	11 010	9 767		
SOME OR ALL ADDED OR INSTALLED.	3 830	2 216	653	1 563	1 613		
NOT REPORTED.	307	179	44	135	128		
	195	139	67	72	56		
STORM DOORS:							
NO DOORS COVERED.	16 513	10 869	4 019	6 850	5 644		
SOME OR ALL DOORS COVERED	30 262	18 512	5 872	12 639	11 751		
NONE ADDED OR INSTALLED	26 763	16 440	5 187	11 253	10 323		
SOME OR ALL ADDED OR INSTALLED.	2 757	1 643	524	1 119	1 115		
NOT REPORTED.	742	429	161	267	313		
	254	176	72	104	78		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	6 836	4 098	1 888	2 211	2 738		
WITH ATTIC OR ROOF INSULATION	38 132	24 026	7 471	16 555	14 106		
NONE ADDED OR INSTALLED	33 293	20 988	6 546	14 443	12 305		
SOME OR ALL ADDED OR INSTALLED.	3 864	2 387	676	1 711	1 478		
LESS THAN 3 INCHES ADDED.	248	144	41	103	103		
3 TO 6 INCHES ADDED	1 638	1 047	307	740	591		
6 INCHES OR MORE ADDED.	1 520	930	258	672	590		
DON'T KNOW.	306	190	55	134	116		
NOT REPORTED.	153	75	14	61	78		
	974	651	250	402	323		
NOT REPORTED.	1 820	1 264	530	734	556		
	241	168	74	94	73		
WALL INSULATION:							
NONE ADDED OR INSTALLED	43 957	27 722	9 400	18 323	16 234		
SOME OR ALL ADDED OR INSTALLED.	2 790	1 633	475	1 158	1 158		
NOT REPORTED.	282	202	89	113	81		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	36 080	22 431	7 817	14 615	13 649		
SOME OR ALL ADDED OR INSTALLED.	10 360	6 731	2 007	4 724	3 629		
DON'T KNOW.	402	255	77	178	147		
NOT REPORTED.	187	138	63	76	49		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	44 487	28 079	9 547	18 532	16 407		
SOME OR ALL ADDED OR INSTALLED.	2 239	1 268	330	938	970		
NOT REPORTED.	304	209	86	123	95		

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED.	8 936	4 964	2 149	2 815	3 972		
SOME OR ALL WINDOWS COVERED	4 992	2 900	1 305	1 595	2 092		
NONE ADDED OR INSTALLED	3 575	1 803	718	1 085	1 772		
SOME OR ALL ADDED OR INSTALLED	2 877	1 514	594	919	1 363		
NOT REPORTED.	617	240	99	141	376		
NOT REPORTED.	81	49	25	24	32		
NOT REPORTED.	369	261	126	135	108		
STORM DOORS:							
NO DOORS COVERED.	5 150	2 906	1 278	1 627	2 245		
SOME OR ALL DOORS COVERED	3 374	1 767	732	1 035	1 607		
NONE ADDED OR INSTALLED	2 989	1 553	632	922	1 435		
SOME OR ALL ADDED OR INSTALLED	237	126	52	74	112		
NOT REPORTED.	148	88	49	40	60		
NOT REPORTED.	412	291	139	152	121		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	2 783	1 452	719	733	1 331		
WITH ATTIC OR ROOF INSULATION	3 608	1 956	692	1 265	1 651		
NONE ADDED OR INSTALLED	3 137	1 713	610	1 104	1 423		
SOME OR ALL ADDED OR INSTALLED	311	155	55	101	156		
LESS THAN 3 INCHES ADDED	19	10	2	8	9		
3 TO 6 INCHES ADDED	102	57	24	33	45		
6 INCHES OR MORE ADDED	68	32	10	22	37		
DON'T KNOW	100	49	14	36	51		
NOT REPORTED	22	7	5	2	15		
NOT REPORTED.	160	88	27	60	72		
DON'T KNOW	2 150	1 282	604	678	868		
NOT REPORTED.	395	273	134	140	122		
WALL INSULATION:							
NONE ADDED OR INSTALLED	8 222	4 516	1 952	2 564	3 706		
SOME OR ALL ADDED OR INSTALLED	184	94	27	67	90		
NOT REPORTED	530	353	170	184	177		
CAULKING OR WEATHER STRIPPING OF EXTERIOR							
DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	6 924	3 787	1 692	2 095	3 137		
SOME OR ALL ADDED OR INSTALLED	1 004	557	184	372	448		
DON'T KNOW	634	359	145	214	274		
NOT REPORTED	374	261	127	134	113		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	8 243	4 538	1 975	2 564	3 704		
SOME OR ALL ADDED OR INSTALLED	201	93	18	75	108		
NOT REPORTED	493	333	157	176	160		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	47 029	29 557	9 964	19 593	17 473		
NO INSULATION ADDED OR INSTALLED	29 880	18 666	6 571	12 095	11 214		
WITH INSULATION ADDED OR INSTALLED	15 384	9 748	2 959	6 789	5 636		
LESS THAN \$50	6 708	4 252	1 199	3 052	2 456		
\$50 TO \$99	1 547	935	284	651	612		
\$100 TO \$199	1 584	981	308	673	603		
\$200 TO \$399	1 461	917	252	665	544		
\$400 OR MORE	2 198	1 414	460	954	784		
DON'T KNOW	786	511	172	339	275		
NOT REPORTED	1 100	738	284	454	362		
MEDIAN	51	50-	59	50-	54		
NOT REPORTED OR DON'T KNOW	1 765	1 143	434	709	622		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER							
PROTECTIVE WINDOW COVERING	1 196	676	217	459	520		
LESS THAN \$50	486	226	54	172	260		
\$50 TO \$99	123	74	30	44	49		
\$100 TO \$199	141	77	33	44	64		
\$200 TO \$399	110	73	17	56	37		
\$400 OR MORE	130	92	31	61	38		
DON'T KNOW	47	33	8	25	15		
NOT REPORTED	157	100	43	57	57		
MEDIAN	54	80	97	69	50-		

TABLE A-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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	898	543	193	350	356		
LESS THAN \$50	147	77	27	50	70		
\$50 TO \$99.	314	173	58	115	142		
\$100 TO \$199.	232	161	59	102	71		
\$200 TO \$399.	65	40	13	27	25		
\$400 OR MORE.	34	26	12	14	8		
DON'T KNOW.	19	9	3	6	10		
NOT REPORTED.	86	57	20	36	29		
MEDIAN.	89	96	99	95	80		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	2 086	1 288	393	895	798		
LESS THAN \$50	304	201	51	150	103		
\$50 TO \$99.	276	176	55	121	99		
\$100 TO \$199.	328	189	62	126	139		
\$200 TO \$399.	408	251	74	177	158		
\$400 OR MORE.	401	243	76	166	158		
DON'T KNOW.	191	116	39	77	75		
NOT REPORTED.	179	113	35	78	66		
MEDIAN.	184	180	184	178	190		
ALL OCCUPIED HOUSING UNITS.	77 167	52 722	23 436	29 286	24 445		
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK ¹							
OWNER OCCUPIED.	35 469	23 559	7 933	15 625	11 911		
DRIVES SELF	26 911	18 298	5 987	12 311	8 613		
CARPOOL	5 258	3 182	1 013	2 169	2 077		
MASS TRANSPORTATION	1 121	1 063	570	493	58		
BICYCLE OR MOTORCYCLE	167	120	45	75	47		
TAXICAB	23	11	10	2	12		
WALKS ONLY.	769	397	177	220	372		
OTHER MEANS	131	73	16	58	57		
WORKS AT HOME	993	357	88	269	636		
NOT REPORTED.	96	58	28	30	38		
RENTER OCCUPIED	17 888	13 549	7 346	6 202	4 340		
DRIVES SELF	11 327	8 501	4 026	4 475	2 826		
CARPOOL	2 734	1 882	910	952	873		
MASS TRANSPORTATION	1 975	1 949	1 611	338	26		
BICYCLE OR MOTORCYCLE	160	120	58	63	40		
TAXICAB	53	32	27	5	20		
WALKS ONLY.	1 210	847	586	261	363		
OTHER MEANS	60	42	25	18	17		
WORKS AT HOME	322	156	80	76	166		
NOT REPORTED.	47	38	23	15	8		
DISTANCE FROM HOME TO WORK ¹							
OWNER OCCUPIED.	35 469	23 559	7 933	15 625	11 911		
LESS THAN 1 MILE.	2 378	1 062	401	661	1 316		
1 TO 4 MILES.	7 256	4 422	1 959	2 463	2 834		
5 TO 9 MILES.	6 784	5 014	2 091	2 923	1 770		
10 TO 19 MILES.	7 608	5 822	1 682	4 140	1 785		
20 TO 29 MILES.	3 042	2 151	444	1 707	891		
30 TO 49 MILES.	1 801	1 051	152	899	750		
50 MILES OR MORE.	602	286	74	212	316		
WORKS AT HOME	993	357	88	269	636		
NO FIXED PLACE OF WORK.	4 442	2 963	842	2 121	1 478		
NOT REPORTED.	565	430	200	230	135		
MEDIAN.	8.8	9.4	7.5	11.1	6.9		
RENTER OCCUPIED	17 888	13 549	7 346	6 202	4 340		
LESS THAN 1 MILE.	2 053	1 255	766	489	799		
1 TO 4 MILES.	4 682	3 429	2 138	1 291	1 253		
5 TO 9 MILES.	3 573	2 950	1 642	1 308	623		
10 TO 19 MILES.	3 384	2 809	1 328	1 481	575		
20 TO 29 MILES.	1 086	870	356	514	216		
30 TO 49 MILES.	543	391	120	270	152		
50 MILES OR MORE.	130	59	33	25	72		
WORKS AT HOME	322	156	80	76	166		
NO FIXED PLACE OF WORK.	1 656	1 217	602	615	440		
NOT REPORTED.	459	415	281	133	44		
MEDIAN.	6.4	7.0	5.9	8.5	4.3		

¹LIMITED 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: 1978--CONTINUED
 (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	35 469	23 559	7 933	15 625	11 911		
LESS THAN 15 MINUTES.	10 239	5 773	2 173	3 600	4 466		
15 TO 29 MINUTES.	11 084	8 205	3 038	5 168	2 879		
30 TO 44 MINUTES.	4 965	3 711	1 056	2 655	1 254		
45 TO 59 MINUTES.	1 741	1 227	341	866	514		
1 HOUR TO 1 HOUR AND 29 MINUTES	1 287	881	236	645	406		
1 HOUR AND 30 MINUTES OR MORE	416	250	80	170	166		
WORKS AT HOME	993	357	88	269	636		
NO FIXED PLACE OF WORK.	4 442	2 963	842	2 121	1 478		
NOT REPORTED.	303	191	79	112	111		
MEDIAN.	21.2	22.7	21.3	23.5	16.9		
RENTER OCCUPIED	17 888	13 549	7 346	6 202	4 340		
LESS THAN 15 MINUTES.	6 106	4 034	2 157	1 877	2 072		
15 TO 29 MINUTES.	5 643	4 616	2 524	2 091	1 028		
30 TO 44 MINUTES.	2 374	2 029	1 096	933	344		
45 TO 59 MINUTES.	833	708	397	311	124		
1 HOUR TO 1 HOUR AND 29 MINUTES	628	543	343	200	85		
1 HOUR AND 30 MINUTES OR MORE	161	114	68	46	47		
WORKS AT HOME	322	156	80	76	166		
NO FIXED PLACE OF WORK.	1 656	1 217	602	615	440		
NOT REPORTED.	166	132	79	53	34		
MEDIAN.	19.6	21.4	21.7	21.1	15.0-		

¹LIMITED 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: 1978

(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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS.	77 167	5 715	12 966	9 031	14 502	10 949	9 020	8 894	3 929	1 498	663	13700
HOUSE HEATING FUEL												
OWNER OCCUPIED.	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000
UTILITY GAS.	28 187	1 240	3 349	2 473	4 677	4 280	4 127	4 602	2 249	856	338	17700
BOTTLED, TANK, OR LP GAS.	3 196	321	646	393	665	431	327	261	91	37	29	16800
FUEL OIL.	9 980	431	1 306	951	1 818	1 561	1 454	1 471	609	248	131	16500
KEROSENE, ETC.	281	32	66	54	60	26	23	14	6	-	-	9400
ELECTRICITY.	7 450	261	633	648	1 302	1 304	1 171	1 231	551	228	123	18400
COAL OR COKE.	251	25	68	28	51	45	20	10	2	2	-	10400
WOOD.	696	106	146	95	145	93	53	45	10	2	1	10000
SOLAR HEAT.	3	-	-	-	-	-	2	1	-	-	-	---
OTHER FUEL.	18	-	3	2	2	7	-	-	2	1	-	---
NONE.	222	11	25	26	35	29	29	34	30	2	2	17400
RENTER OCCUPIED	26 884	3 288	6 723	4 361	5 748	3 174	1 816	1 225	379	121	49	9400
UTILITY GAS.	14 334	1 902	3 660	3 012	1 643	896	568	192	49	17	9000	9000
BOTTLED, TANK, OR LP GAS.	934	129	237	169	201	93	61	27	14	3	2	8800
FUEL OIL.	5 669	547	1 510	835	1 222	720	396	312	76	37	14	9800
KEROSENE, ETC.	143	20	48	27	27	10	5	5	-	1	-	7400
ELECTRICITY.	4 808	468	973	782	1 139	634	403	280	91	27	13	10800
COAL OR COKE.	151	35	43	17	29	14	8	4	1	-	-	6700
WOOD.	370	93	110	69	49	22	15	11	1	2	-	6300
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL.	101	23	35	8	12	5	11	1	2	3	-	6200
NONE.	375	69	109	61	58	33	21	17	4	-	3	7500
WATER HEATING FUEL												
OWNER OCCUPIED.	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000
NO HOT PIPED WATER.	444	132	167	51	58	16	9	8	2	1	-	5200
WITH HOT PIPED WATER.	49 837	2 294	6 076	4 619	8 695	7 759	7 195	7 661	3 548	1 376	615	17100
FUEL USED:												
UTILITY GAS.	26 743	1 091	3 039	2 281	4 407	4 101	3 999	4 476	2 179	845	326	18100
BOTTLED, TANK, OR LP GAS.	2 420	204	458	299	521	330	269	217	71	34	17	12400
FUEL OIL.	3 572	126	387	286	575	533	545	640	289	127	64	18900
KEROSENE, ETC.	27	7	2	3	6	2	3	2	2	-	-	---
ELECTRICITY.	16 956	848	2 170	1 740	3 162	2 774	2 368	2 317	1 002	368	207	16000
COAL OR COKE.	35	3	4	3	7	13	2	2	2	-	-	14800
WOOD.	35	3	8	3	10	3	7	1	1	-	-	11800
SOLAR HEAT.	14	3	3	3	2	2	2	4	2	-	-	---
OTHER FUEL.	17	2	2	2	3	2	1	2	2	-	-	---
NONE.	17	7	4	2	2	-	1	-	-	-	-	---
NOT REPORTED.	2	2	-	-	-	-	-	-	-	-	-	---
RENTER OCCUPIED	26 884	3 288	6 723	4 361	5 748	3 174	1 816	1 225	379	121	49	9400
NO HOT PIPED WATER.	482	196	161	65	39	14	4	2	1	-	4100	4100
WITH HOT PIPED WATER.	26 402	3 091	6 363	4 297	5 708	3 160	1 812	1 222	379	121	49	9500
FUEL USED:												
UTILITY GAS.	14 725	1 866	3 862	2 382	3 130	1 688	921	622	193	37	24	9100
BOTTLED, TANK, OR LP GAS.	709	74	185	139	140	77	63	22	5	2	2	9100
FUEL OIL.	3 430	282	894	519	733	433	256	199	66	38	10	10100
KEROSENE, ETC.	10	-	2	2	2	3	1	-	-	-	-	---
ELECTRICITY.	7 339	825	1 568	1 238	1 668	941	559	376	112	39	13	10100
COAL OR COKE.	33	4	7	4	8	6	2	2	2	-	-	---
WOOD.	11	2	5	1	2	-	-	-	1	-	-	---
SOLAR HEAT.	11	2	5	1	2	-	-	-	1	-	-	---
OTHER FUEL.	3	-	-	-	-	3	-	-	-	-	-	6700
NONE.	20	3	11	4	2	-	-	-	-	-	-	---
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	---
COOKING FUEL												
OWNER OCCUPIED.	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000
UTILITY GAS.	18 290	959	2 731	1 862	3 340	2 825	2 678	2 461	1 104	379	151	15400
BOTTLED, TANK, OR LP GAS.	3 903	392	799	515	856	532	387	283	88	34	16	11400
FUEL OIL.	62	4	9	5	23	4	10	3	3	-	1	12900
KEROSENE, ETC.	14	2	1	4	3	2	-	2	-	-	-	---
ELECTRICITY.	27 839	1 022	2 642	2 265	4 511	4 407	4 314	4 917	2 352	962	447	18900
COAL OR COKE.	22	2	6	2	4	3	4	3	-	-	-	4900
WOOD.	133	45	47	11	13	5	8	5	2	1	-	4900
OTHER FUEL.	6	-	2	2	2	-	1	-	-	-	-	---
NONE.	15	2	5	4	1	-	2	-	-	-	-	---
RENTER OCCUPIED	26 884	3 288	6 723	4 361	5 748	3 174	1 816	1 225	379	121	49	9400
UTILITY GAS.	14 286	1 845	3 962	2 339	2 957	1 558	855	528	163	58	24	8700
BOTTLED, TANK, OR LP GAS.	1 322	219	376	237	254	116	69	34	11	5	2	7800
FUEL OIL.	21	3	5	4	3	2	2	2	-	-	-	---
KEROSENE, ETC.	10	2	3	1	1	-	-	-	-	-	-	---
ELECTRICITY.	10 940	1 124	2 280	1 745	2 487	1 478	887	653	204	59	23	10600
COAL OR COKE.	4	1	2	1	1	-	-	-	-	-	-	3700
WOOD.	58	26	17	5	6	2	-	3	-	-	-	3700
OTHER FUEL.	22	2	10	3	5	-	2	-	-	-	-	---
NONE.	221	65	68	28	35	21	1	3	1	-	-	5700
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED ¹	40 054	1 749	4 385	3 435	6 647	6 273	6 075	6 729	3 097	1 171	494	18000
LESS THAN \$10.	707	128	237	68	96	76	39	39	14	7	3	6800
\$10 TO \$19.	5 980	522	1 310	786	1 070	800	626	599	175	75	18	11700
\$20 TO \$29.	9 222	435	1 213	975	1 693	1 467	1 345	1 365	527	153	49	16000
\$30 TO \$39.	8 071	253	739	613	1 443	1 348	1 337	1 436	644	193	65	18700
\$40 TO \$49.	5 036	125	360	345	791	603	682	651	805	438	177	20300
\$50 TO \$59.	3 917	98	227	273	-	-	-	-	-	-	-	---
\$60 TO \$79.	3 972	98	185	254	-	-	-	-	-	-	-	---
\$80 TO \$99.	1 518	36	54	70	192	243	282	346	179	89	27	22900
\$100 TO \$149.	1 290	36	41	37	166	162	177	299	190	109	72	25800
\$150 OR MORE.	316	11	14	12	30	26	43	49	55	38	39	29600
NO ELECTRICITY USED OR NOT REPORTED	26	7	6	2	2	1	-	-	-	2	2	---
MEDIAN.	35	25	25	28	33	35	37	39	44	48	57	---

¹LIMITED 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: 1978--CONTINUED

(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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED													
MONTHLY COST PAID FOR ELECTRICITY--CONTINUED													
SPECIFIED RENTER OCCUPIED ¹		26 247	3 199	6 588	4 264	5 620	3 097	1 765	1 186	366	115	49	9300
LESS THAN \$10		2 510	413	724	456	513	225	116	50	9	2	2	7800
\$10 TO \$19		6 877	838	1 875	1 119	1 474	812	405	264	61	19	10	8900
\$20 TO \$29		4 988	464	1 163	846	1 111	639	382	256	84	29	17	10100
\$30 TO \$39		2 867	252	596	452	684	409	228	172	50	18	6	11000
\$40 TO \$49		1 402	103	265	222	322	218	135	87	34	15	2	11700
\$50 TO \$59		874	48	132	132	203	152	115	64	22	3	2	13100
\$60 TO \$79		707	49	99	104	163	95	83	81	23	10	2	13100
\$80 TO \$99		189	12	22	29	48	30	22	17	9	1	-	13300
\$100 TO \$149		151	9	23	16	24	28	20	20	6	2	2	15600
\$150 OR MORE		44	5	11	4	5	5	5	5	5	-	2	12000
INCLUDED IN RENT		5 562	994	1 647	872	1 063	482	251	170	62	16	4	7500
NO ELECTRICITY USED OR NOT REPORTED		75	12	32	12	12	2	3	1	2	-	-	6200
MEDIAN		22	17	18	21	22	24	26	27	29	29	26	***
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS													
SPECIFIED OWNER OCCUPIED ²		40 054	1 749	4 385	3 435	6 647	6 273	6 075	6 729	3 097	1 171	494	18000
LESS THAN \$10		2 867	177	468	303	526	419	385	353	143	59	34	14600
\$10 TO \$19		3 098	161	432	275	551	482	426	485	205	64	19	16400
\$15 TO \$19		3 049	201	408	337	503	423	413	441	219	74	30	15900
\$20 TO \$29		3 293	184	428	348	547	506	444	518	218	71	29	16400
\$25 TO \$29		2 961	138	372	281	517	504	429	458	181	54	24	16700
\$30 TO \$39		5 851	213	603	458	914	939	996	1 055	467	152	55	18900
\$40 TO \$49		3 853	137	321	272	621	584	622	743	362	139	52	19900
\$50 TO \$69		3 474	127	279	224	519	472	555	656	414	161	67	21000
\$70 TO \$99		993	31	91	42	188	135	129	148	115	78	36	20300
\$100 OR MORE		369	16	39	18	44	46	40	57	51	31	24	22300
NO GAS USED OR NOT REPORTED		10 246	364	942	876	1 717	1 762	1 637	1 816	722	288	123	18500
MEDIAN		29	23	24	25	28	31	32	34	37	38	***	***
SPECIFIED RENTER OCCUPIED ¹		26 247	3 199	6 588	4 264	5 620	3 097	1 765	1 186	366	115	49	9300
LESS THAN \$10		4 321	456	1 179	717	939	506	276	173	53	15	5	9200
\$10 TO \$19		2 277	273	554	418	499	270	139	80	18	4	3	9000
\$15 TO \$19		1 565	202	393	281	331	169	97	65	20	4	3	9500
\$20 TO \$29		1 098	137	248	199	221	127	80	54	27	1	1	9700
\$25 TO \$29		899	111	225	126	207	122	55	41	9	2	-	10600
\$30 TO \$39		1 378	177	311	216	298	192	95	60	22	6	1	9800
\$40 TO \$49		710	64	168	104	166	97	48	46	11	5	-	11100
\$50 TO \$69		613	53	151	73	129	77	56	53	21	1	-	11400
\$70 TO \$99		199	14	45	25	52	30	14	6	11	2	-	6900
\$100 OR MORE		90	18	28	11	16	6	2	6	2	1	-	8500
INCLUDED IN RENT		7 715	1 118	2 138	1 241	1 536	825	434	295	84	30	14	10500
NO GAS USED OR NOT REPORTED		5 383	576	1 148	852	1 228	675	469	308	87	29	13	10500
MEDIAN		14	15	13	14	14	16	16	17	21	13	***	***
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.													
SPECIFIED OWNER OCCUPIED ²		40 054	1 749	4 385	3 435	6 647	6 273	6 075	6 729	3 097	1 171	494	18000
LESS THAN \$100		1 425	71	116	107	185	168	196	319	174	62	27	21700
\$100 TO \$199		792	50	98	76	131	105	106	109	77	25	16	17000
\$200 TO \$299		953	57	149	100	188	139	133	127	45	11	2	14500
\$300 TO \$399		1 317	80	176	130	223	236	200	174	70	19	9	16000
\$400 TO \$499		1 262	57	176	115	266	210	166	175	74	16	7	15400
\$500 TO \$599		1 115	43	136	94	175	196	173	197	74	20	9	17800
\$600 TO \$699		947	35	104	81	167	135	150	165	66	29	14	18200
\$700 TO \$799		677	24	77	42	81	99	126	137	64	15	12	20600
\$800 OR MORE		1 277	26	117	84	177	184	193	251	121	85	39	21300
FUELS NOT USED, FREE, OR NOT REPORTED		30 288	1 305	3 237	2 606	5 054	4 801	4 633	5 074	2 332	889	357	18100
MEDIAN		431	353	420	401	426	441	451	456	422	540	571	***
SPECIFIED RENTER OCCUPIED ¹		26 247	3 199	6 588	4 264	5 620	3 097	1 765	1 186	366	115	49	9300
LESS THAN \$100		291	53	79	43	51	24	21	14	7	5	-	7900
\$100 TO \$199		261	47	82	38	51	22	6	7	5	2	-	7200
\$200 TO \$299		289	40	74	56	67	23	16	11	2	-	-	8600
\$300 TO \$399		356	47	88	46	77	45	33	15	4	-	-	9800
\$400 TO \$499		248	30	48	33	55	36	25	17	4	1	-	11200
\$500 TO \$599		176	9	41	17	33	25	30	18	1	1	-	13100
\$600 TO \$699		165	12	35	25	45	30	10	9	2	-	-	11400
\$700 TO \$799		97	4	18	14	22	17	8	9	-	5	-	12800
\$800 OR MORE		161	8	29	19	33	33	18	12	7	2	-	13700
INCLUDED IN RENT		4 975	556	1 385	776	1 030	550	313	239	81	33	12	9100
FUELS NOT USED, FREE, OR NOT REPORTED		19 223	2 392	4 709	3 196	4 156	2 293	1 283	835	252	73	35	9400
MEDIAN		351	263	313	319	362	437	433	452	***	***	***	***
ALL OCCUPIED HOUSING UNITS		77 167	5 715	12 966	9 031	14 502	10 949	9 020	8 894	3 929	1 498	663	13700
HEATING EQUIPMENT													
OWNER OCCUPIED		50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000
WARM-AIR FURNACE		30 271	1 017	2 943	2 490	5 097	4 863	4 762	5 318	2 459	1 931	391	18700
HEAT PUMP		899	24	43	42	106	136	170	199	117	40	23	22900
STEAM OR HOT WATER		6 900	228	782	586	1 176	1 023	1 001	1 111	592	265	135	18300
BUILT-IN ELECTRIC UNITS		3 106	108	308	301	600	595	448	447	179	81	38	17000
FLOOR, WALL, OR PIPELESS FURNACE		3 333	227	632	427	687	509	391	319	90	37	15	12800
ROOM HEATERS WITH FLUE		2 323	339	666	526	425	246	179	90	35	12	4	8400
ROOM HEATERS WITHOUT FLUE		1 766	280	506	270	330	181	109	55	29	2	8	8100
FIREPLACES, STOVES, OR PORTABLE HEATERS		1 463	194	336	202	298	194	114	97	19	7	3	10000
NONE		222	11	25	26	35	29	29	34	30	2	2	17400

¹EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.²LIMITED 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: 1978--CONTINUED

(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			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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED													
HEATING EQUIPMENT--CONTINUED													
RENTER OCCUPIED	26 884	3 288	6 723	4 361	5 748	3 174	1 816	1 225	379	121	49	9400	
WARM-AIR FURNACE	9 575	860	1 919	1 490	2 293	1 358	796	594	205	45	15	11100	
HEAT PUMP	228	21	57	32	42	31	22	16	5	2	1	10600	
STEAM OR HOT WATER	7 025	756	1 968	1 095	1 449	794	492	324	88	45	14	9200	
BUILT-IN ELECTRIC UNITS	2 493	283	592	418	533	295	181	127	39	16	8	9700	
FLOOR, WALL, OR PIPELESS FURNACE	2 840	355	769	522	609	336	184	76	13	6	2	8700	
ROOM HEATERS WITH FLUE	2 154	411	653	397	385	171	76	40	18	2	1	7100	
ROOM HEATERS WITHOUT FLUE	1 384	333	421	218	254	95	37	17	3	2	4	6400	
FIREPLACES, STOVES, OR PORTABLE HEATERS	811	200	236	129	126	61	38	14	5	2	2	6500	
NONE.	375	69	109	61	58	33	21	17	4	-	3	7500	
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
OWNER OCCUPIED	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000	
NO HEATING EQUIPMENT	222	11	25	26	35	29	29	34	30	2	2	17400	
WITH HEATING EQUIPMENT	50 061	2 417	6 217	4 644	8 719	7 747	7 175	7 635	3 520	1 374	613	17000	
NO THERMOSTAT CONTROL	5 658	760	1 450	811	1 066	630	469	314	100	32	24	9300	
WITH THERMOSTAT CONTROL	44 256	1 623	4 780	3 811	7 634	7 108	6 695	7 312	3 412	1 336	586	18000	
NOT CLOCK OPERATED	38 310	1 357	4 036	3 245	6 690	6 226	5 869	6 407	2 914	1 146	471	18100	
CONSTANT TEMPERATURE SETTING MAINTAINED	11 536	440	1 323	980	2 162	1 962	1 784	2 749	261	126	17200		
TEMPERATURE SETTING IS CHANGED	26 597	907	2 696	2 247	4 452	4 235	4 062	4 627	2 150	878	343	18500	
OCCASIONALLY	7 038	290	778	635	1 229	1 133	1 056	1 097	541	205	75	17600	
REGULARLY	19 282	598	1 881	1 584	3 182	3 066	2 958	3 496	1 586	668	265	18900	
DON'T KNOW	239	17	34	22	35	30	47	31	16	5	1	16800	
NOT REPORTED	38	2	3	6	5	6	2	6	7	-	2	17800	
CLOCK OPERATED	177	10	17	19	27	28	23	31	14	7	2	18000	
NOT REPORTED	206	8	24	30	39	24	24	32	18	3	4	15400	
NOT REPORTED	146	33	27	22	19	8	11	9	8	6	3	8800	
RENTER OCCUPIED	26 884	3 288	6 723	4 361	5 748	3 174	1 816	1 225	379	121	49	9400	
NO HEATING EQUIPMENT	375	69	109	61	58	33	21	17	4	-	3	7500	
WITH HEATING EQUIPMENT	26 509	3 219	6 614	4 300	5 690	3 141	1 795	1 207	376	121	46	9400	
NO THERMOSTAT CONTROL	10 160	1 645	3 101	1 724	1 902	871	476	285	96	45	15	7800	
WITH THERMOSTAT CONTROL	16 284	1 564	3 499	2 565	3 772	2 262	1 316	920	280	76	31	10700	
NOT CLOCK OPERATED	14 276	1 330	3 032	2 242	3 347	2 013	1 157	816	252	64	24	10800	
CONSTANT TEMPERATURE SETTING MAINTAINED	4 659	499	1 065	735	1 074	626	346	223	62	22	6	10100	
TEMPERATURE SETTING IS CHANGED	9 469	818	1 929	1 483	2 234	1 373	795	588	189	42	18	11100	
OCCASIONALLY	3 010	255	670	456	743	419	239	167	53	7	1	10800	
REGULARLY	6 286	534	1 216	996	1 461	938	540	416	133	33	17	11400	
DON'T KNOW	162	28	40	29	27	14	16	3	2	-	-	8300	
NOT REPORTED	12	2	2	2	3	2	1	-	-	-	-	9800	
CLOCK OPERATED	148	12	39	24	39	13	15	5	-	-	-	9800	
NOT REPORTED	1 905	214	447	309	397	236	152	104	28	11	6	9800	
NOT REPORTED	103	20	19	13	28	13	7	1	-	-	1	9800	
NOT REPORTED	65	10	15	11	15	8	4	2	-	-	-	9100	
ALL OCCUPIED HOUSING UNITS	77 167	5 715	12 966	9 031	14 502	10 949	9 020	8 894	3 929	1 498	663	13700	
UNITS OCCUPIED LAST WINTER	63 219	4 473	10 509	6 978	11 568	9 011	7 631	7 727	3 433	1 321	568	14200	
INSUFFICIENT HEAT													
CLOSURE OF ROOMS:													
OWNER OCCUPIED	45 520	2 297	5 943	4 307	7 842	6 877	6 437	6 879	3 169	1 236	534	16700	
WITH HEATING EQUIPMENT	45 315	2 286	5 919	4 284	7 813	6 853	6 409	6 845	3 139	1 233	532	16700	
NO ROOMS CLOSED	43 013	1 983	5 403	4 012	7 414	6 588	6 200	6 665	3 085	1 187	498	17000	
CLOSED CERTAIN ROOMS	1 686	256	454	207	334	233	165	136	47	31	22	10400	
LIVING ROOM ONLY	78	12	17	8	16	14	4	5	2	-	1	10600	
DINING ROOM ONLY	35	6	5	1	6	3	6	5	3	-	1	9100	
1 OR MORE BEDROOMS ONLY	1 232	181	333	143	210	141	99	75	23	16	10	5900	
OTHER ROOMS OR COMBINATION OF ROOMS	514	53	96	55	96	72	52	48	34	15	12	12700	
NOT REPORTED	28	3	3	1	6	2	5	3	4	-	-	8000	
NOT REPORTED	416	47	62	65	66	35	44	44	27	16	12	12600	
NO HEATING EQUIPMENT	206	11	24	22	29	24	28	34	30	2	2	18400	
RENTER OCCUPIED	17 698	2 176	4 566	2 672	3 726	2 134	1 194	848	264	85	34	9400	
WITH HEATING EQUIPMENT	17 473	2 141	4 500	2 637	3 692	2 107	1 181	834	264	85	32	9400	
NO ROOMS CLOSED	16 014	1 904	4 046	2 413	3 419	1 960	1 111	793	254	83	31	9600	
CLOSED CERTAIN ROOMS	1 223	209	402	189	216	117	54	28	8	-	-	7000	
LIVING ROOM ONLY	84	15	37	10	15	6	-	1	-	-	-	5900	
DINING ROOM ONLY	17	2	4	5	4	1	-	-	-	-	-	6500	
1 OR MORE BEDROOMS ONLY	837	140	286	129	137	80	40	17	8	-	-	8000	
OTHER ROOMS OR COMBINATION OF ROOMS	276	51	73	44	57	30	12	10	-	-	-	10300	
NOT REPORTED	8	-	2	1	2	1	2	-	-	-	-	9100	
NO HEATING EQUIPMENT	236	28	52	36	57	31	16	12	2	2	2	10600	
225	35	66	34	34	27	13	14	-	-	-	-	9900	
ADDITIONAL HEAT SOURCE:													
OWNER OCCUPIED	45 520	2 297	5 943	4 307	7 842	6 877	6 437	6 879	3 169	1 236	534	16700	
WITH SPECIFIED HEATING EQUIPMENT	42 258	1 822	5 111	3 847	7 220	6 512	6 195	6 705	3 095	1 226	525	17800	
NO ADDITIONAL HEAT SOURCE USED	38 954	1 611	4 647	3 483	6 630	6 034	5 732	6 298	2 911	1 134	473	17600	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 972	179	411	310	531	449	429	374	167	81	41	15600	
NOT REPORTED	333	31	53	53	59	29	34	33	16	11	11	12400	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 262	475	832	460	622	365	242	174	74	10	9	9100	
RENTER OCCUPIED	17 698	2 176	4 566	2 672	3 726	2 134	1 194	848	264	85	34	9400	
WITH SPECIFIED HEATING EQUIPMENT	15 896	1 734	4 016	2 423	3 424	1 992	1 130	809	257	83	27	9700	
NO ADDITIONAL HEAT SOURCE USED	13 566	1 457	3 341	2 058	2 916	1 746	1 004	714	230	76	24	9900	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 148	262	634	335	463	224	112	83	26	6	3	8600	
NOT REPORTED	181	15	40	30	45	22	14	12	1	2	-	10600	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 803	442	550	249	301	142	64	38	7	2	7	6300	

*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: 1978--CONTINUED

(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 (DOL- LARS)	
ALL OCCUPIED HOUSING UNITS--CONTINUED													
UNITS OCCUPIED LAST WINTER--CONTINUED													
INSUFFICIENT HEAT--CONTINUED													
ROOMS LACKING SPECIFIED HEAT SOURCE:													
OWNER OCCUPIED.	45 520	2 297	5 943	4 307	7 842	6 877	6 437	6 879	3 169	1 236	534	16700	
WITH SPECIFIED HEATING EQUIPMENT.	42 258	1 822	5 111	3 847	7 220	6 512	6 195	6 705	3 095	1 226	525	17400	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	33 445	1 154	3 514	2 800	5 483	5 287	5 138	5 773	2 724	1 108	464	18600	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	8 345	625	1 530	971	1 657	1 185	1 004	887	335	104	48	13200	
1 ROOM.	2 468	141	367	224	455	361	346	357	155	39	23	15600	
2 ROOMS.	2 157	185	446	284	451	276	219	198	66	22	10	11800	
3 ROOMS OR MORE.	3 719	299	716	463	751	548	439	332	114	43	15	12500	
NOT REPORTED.	468	42	67	76	80	40	53	46	36	13	14	13000	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	3 262	475	832	460	622	365	242	174	74	10	9	9100	
RENTER OCCUPIED	17 698	2 176	4 566	2 672	3 726	2 134	1 194	848	264	85	34	9400	
WITH SPECIFIED HEATING EQUIPMENT.	15 896	1 734	4 016	2 423	3 424	1 992	1 130	809	257	83	27	9700	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	11 727	1 179	2 918	1 724	2 520	1 505	906	672	205	73	24	10100	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 904	528	1 046	660	836	450	203	117	51	9	2	8700	
1 ROOM.	1 305	145	379	225	279	145	59	38	25	7	2	8700	
2 ROOMS.	1 268	166	338	200	271	172	63	29	10	-	-	8700	
3 ROOMS OR MORE.	1 331	197	329	235	287	134	81	50	16	2	-	8800	
NOT REPORTED.	265	28	52	38	68	36	21	20	1	2	-	11100	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	1 803	442	550	249	301	142	64	38	7	2	7	6300	
ALL OCCUPIED HOUSING UNITS	77 167	5 715	12 966	9 031	14 502	10 949	9 020	8 894	3 929	1 498	663	13700	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
OWNER OCCUPIED	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 685	205	361	227	333	223	143	130	48	10	5	10700	
WITH SELECTED HEATING EQUIPMENT.	48 598	2 223	5 681	4 442	8 421	7 553	7 061	7 539	3 501	1 367	610	17200	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	45 963	2 116	5 672	4 223	7 980	7 123	6 607	7 083	3 291	1 297	571	17100	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	2 365	75	172	187	404	405	426	421	186	57	32	19300	
SOLAR HEATING EQUIPMENT	11	-	-	-	1	2	-	-	3	4	1	-	
STOVE, BURNING WOOD OR COAL.	895	25	54	65	163	167	181	164	46	22	9	19200	
FIREPLACE, BURNING WOOD OR COAL.	312	10	6	14	37	68	66	76	25	9	1	21600	
PORTABLE ELECTRIC HEATER.	585	25	56	61	110	86	88	87	54	9	10	17400	
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	128	8	16	13	26	23	21	13	5	1	2	15200	
OTHER.	398	6	33	29	60	57	66	77	50	13	8	21100	
NOT REPORTED.	45	1	7	5	9	6	6	4	3	2	2	15300	
NOT REPORTED.	270	32	37	32	36	25	28	34	24	13	8	14600	
RENTER OCCUPIED	26 884	3 288	6 723	4 361	5 748	3 174	1 816	1 225	370	121	49	9400	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 185	269	345	190	184	94	58	31	8	2	5	6800	
WITH SELECTED HEATING EQUIPMENT.	25 698	3 019	6 378	4 171	5 563	3 080	1 758	1 194	371	120	44	9500	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	24 604	2 895	6 092	3 985	5 316	2 957	1 691	1 156	351	118	42	9500	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	929	100	252	159	213	105	55	29	18	1	2	9100	
SOLAR HEATING EQUIPMENT	1	-	-	-	1	-	-	-	-	-	-	-	
STOVE, BURNING WOOD OR COAL.	81	9	16	14	18	10	6	5	2	1	-	10200	
FIREPLACE, BURNING WOOD OR COAL.	18	-	2	3	4	5	2	2	-	-	-	-	
PORTABLE ELECTRIC HEATER.	643	60	177	112	154	68	42	15	12	1	2	9200	
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	83	20	26	16	11	7	1	2	-	-	-	6300	
OTHER.	95	8	27	14	26	12	3	4	1	-	-	9800	
NOT REPORTED.	16	3	6	2	2	4	-	-	-	-	-	-	
NOT REPORTED.	165	24	35	27	34	19	12	9	6	-	-	9600	
AGE OF HEATING EQUIPMENT													
OWNER OCCUPIED	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	5 774	824	1 533	824	1 088	650	432	276	112	23	13	8900	
WITH SELECTED HEATING EQUIPMENT ³	44 509	1 604	4 709	3 846	7 666	7 126	6 772	7 393	3 437	1 353	602	18100	
LESS THAN 4 YEARS.	7 846	224	588	561	1 308	1 330	1 269	1 474	705	258	129	19700	
4 TO 9 YEARS.	11 939	387	1 153	1 023	2 119	1 993	1 877	2 019	2 019	869	368	131	18200
10 TO 19 YEARS.	12 937	427	1 347	1 080	2 155	1 965	2 019	2 01	1 201	1 125	425	194	18700
20 TO 39 YEARS.	7 981	308	1 070	764	1 291	1 247	1 149	1 290	550	218	93	17200	
40 YEARS OR MORE.	786	31	117	62	161	131	101	99	40	24	20	15800	
DON'T KNOW.	2 168	139	269	224	442	381	283	241	116	43	29	15100	
NOT REPORTED.	852	89	165	132	190	79	74	69	30	18	5	11000	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
OWNER OCCUPIED	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	5 774	824	1 533	824	1 088	650	432	276	112	23	13	8900	
WITH SELECTED HEATING EQUIPMENT ³	44 509	1 604	4 709	3 846	7 666	7 126	6 772	7 393	3 437	1 353	602	18100	
NO MAINTENANCE OR MODIFICATION.	33 758	1 218	3 568	2 956	5 906	5 473	5 155	5 553	2 562	948	419	18000	
WITH MAINTENANCE OR MODIFICATION.	9 910	305	984	759	1 581	1 570	1 539	1 766	851	386	170	19200	
NOT REPORTED.	841	81	158	132	179	83	78	75	25	19	13	11400	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
OWNER OCCUPIED	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	5 774	824	1 533	824	1 088	650	432	276	112	23	13	8900	
WITH SELECTED HEATING EQUIPMENT ³	44 509	1 604	4 709	3 846	7 666	7 126	6 772	7 393	3 437	1 353	602	18100	
NO MAINTENANCE CONTRACT.	37 986	1 354	3 993	3 280	6 581	6 174	5 806	6 292	2 901	1 118	488	18100	
WITH MAINTENANCE CONTRACT.	5 553	156	528	443	877	846	880	1 013	495	216	99	19600	
NOT REPORTED.	970	94	189	123	208	106	86	88	41	19	15	11400	

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

²EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

³EXCLUDES 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: 1978--CONTINUED

(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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
OWNER OCCUPIED.	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000
NO HOT PIPED WATER.	484	132	167	51	58	16	9	8	2	1	-	5200
WITH HOT PIPED WATER.	49 837	2 294	6 076	4 619	8 695	7 759	7 195	7 661	3 548	1 376	615	17100
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	48 785	2 191	5 924	4 507	8 510	7 647	7 076	7 526	3 459	1 348	598	17100
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹ .	256	15	18	20	29	38	43	45	35	8	5	20900
NOT REPORTED.	764	79	127	91	153	72	75	85	51	20	12	12800
NOT REPORTED.	2	2	-	-	1	-	-	-	-	-	-	---
RENTER OCCUPIED.	26 884	3 288	6 723	4 361	5 748	3 174	1 816	1 225	379	121	49	9400
NO HOT PIPED WATER.	482	196	161	65	39	18	4	2	1	-	-	4100
WITH HOT PIPED WATER.	26 402	3 091	6 563	4 297	5 708	3 160	1 812	1 222	379	121	49	9500
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	25 730	2 989	6 378	4 180	5 584	3 099	1 765	1 197	370	121	47	9500
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹ .	113	8	26	20	19	17	12	7	2	-	2	10600
NOT REPORTED.	536	92	148	93	103	40	35	18	6	-	-	7900
C AIR CONDITIONING												
OWNER OCCUPIED.	50 283	2 428	6 242	4 670	8 754	7 776	7 204	7 669	3 549	1 376	615	17000
WITH AIR CONDITIONING.	29 231	1 027	2 640	2 482	4 972	4 538	4 554	4 971	2 414	965	466	18600
ROOM UNITS.	15 320	672	1 985	1 578	2 950	2 547	2 224	2 085	858	298	123	15900
1	9 285	490	1 438	1 087	1 940	1 509	1 247	1 040	380	113	41	14200
2	4 329	139	416	383	799	797	672	680	297	110	37	17700
3	1 212	30	104	84	161	179	227	235	116	47	28	21000
4	352	8	14	15	32	53	61	95	43	22	11	24500
5 OR MORE.	140	5	11	8	17	9	19	35	22	7	7	25100
CENTRAL SYSTEM.	13 911	355	855	905	2 023	1 991	2 350	2 886	1 556	667	344	21800
WITH NO AIR CONDITIONING.	21 052	1 401	3 402	2 188	3 782	3 237	2 650	2 698	1 135	411	148	14700
RENTER OCCUPIED.	26 884	3 288	6 723	4 361	5 748	3 174	1 816	1 225	379	121	49	9400
WITH AIR CONDITIONING.	12 053	924	2 301	1 942	2 846	1 761	1 120	801	245	78	35	11500
ROOM UNITS.	7 474	624	1 634	1 222	1 727	1 059	633	416	105	38	16	10700
1	5 730	547	1 397	983	1 299	780	415	242	50	12	5	9800
.2	1 470	61	197	209	371	234	181	147	45	19	6	13600
.3	224	14	36	20	49	35	32	22	9	6	3	14400
4	38	2	-	9	5	8	5	6	-	2	2	16400
5 OR MORE.	12	-	5	-	3	2	2	-	1	-	-	---
CENTRAL SYSTEM.	4 579	300	667	720	1 120	703	487	385	140	40	19	12700
WITH NO AIR CONDITIONING.	14 831	2 364	4 922	2 420	2 901	1 413	696	423	134	43	14	7800
ALL OCCUPIED HOUSING UNITS.	77 167	5 715	12 966	9 031	14 502	10 949	9 020	8 894	3 929	1 498	663	13700
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS.	55 965	3 426	7 639	5 688	10 065	8 412	7 435	7 789	3 567	1 348	597	15700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED.	47 029	2 244	5 636	4 256	8 142	7 282	6 842	7 336	3 404	1 310	578	17200
ALL WINDOWS COVERED.	24 717	862	2 557	2 011	4 134	4 020	3 859	4 257	1 988	729	301	18500
SOME WINDOWS COVERED.	5 024	311	669	498	937	786	673	658	284	138	69	15600
NO WINDOWS COVERED.	17 093	1 089	2 385	1 725	3 036	2 450	2 286	2 401	1 122	438	201	15700
NOT REPORTED.	195	22	24	23	35	25	23	21	11	5	7	14200
RENTER OCCUPIED.	8 936	1 182	2 003	1 432	1 923	1 130	593	453	163	38	19	9700
ALL WINDOWS COVERED.	2 494	240	467	368	564	366	215	187	65	17	5	11500
SOME WINDOWS COVERED.	1 080	104	258	164	247	161	73	55	13	5	-	10300
NO WINDOWS COVERED.	4 992	777	1 182	849	1 037	557	287	193	80	16	14	8900
NOT REPORTED.	369	61	96	52	75	46	18	17	5	-	-	8600
STORM DOORS												
OWNER OCCUPIED.	47 029	2 244	5 636	4 256	8 142	7 282	6 842	7 336	3 404	1 310	578	17200
ALL DOORS COVERED.	23 614	873	2 668	2 056	4 066	3 868	3 623	3 906	1 688	610	249	17800
SOME DOORS COVERED.	6 648	359	731	557	1 226	1 088	1 010	936	487	184	68	17100
NO DOORS COVERED.	16 513	981	2 209	1 600	2 811	2 300	2 173	2 459	1 217	509	254	16400
NOT REPORTED.	254	30	33	39	25	37	34	15	7	7	7	14600
RENTER OCCUPIED.	8 936	1 182	2 003	1 432	1 923	1 130	593	453	163	38	19	9700
ALL DOORS COVERED.	2 385	215	477	335	530	350	209	192	57	16	3	11600
SOME DOORS COVERED.	989	110	188	151	265	146	62	42	20	3	2	10900
NO DOORS COVERED.	5 150	794	1 222	887	1 045	588	304	199	79	18	15	8900
NOT REPORTED.	412	62	117	58	83	46	19	20	6	-	-	8400
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED.	47 029	2 244	5 636	4 256	8 142	7 282	6 842	7 336	3 404	1 310	578	17200
YES.	38 132	1 377	3 724	3 145	6 474	6 156	5 981	6 531	3 039	1 196	509	18500
NO.	6 836	720	1 570	846	1 246	849	633	604	251	77	40	11100
DON'T KNOW.	1 820	118	308	235	380	252	198	186	99	27	19	13300
NOT REPORTED.	241	29	35	30	42	25	30	16	15	10	10	13200
RENTER OCCUPIED.	8 936	1 182	2 003	1 432	1 923	1 130	593	453	163	38	19	9700
YES.	3 608	317	656	538	847	563	309	245	95	22	15	11700
NO.	2 783	532	735	471	510	269	123	99	35	8	2	7800
DON'T KNOW.	2 150	268	511	368	487	250	139	91	27	8	2	9800
NOT REPORTED.	395	66	102	54	79	48	22	18	6	-	-	8700

¹LIMITED 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: 1978--CONTINUED

(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 (DOL- LARS)	
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.													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS:	47 029	2 244	5 636	4 256	6 142	7 282	6 842	7 336	3 404	1 310	578	17200	
NO WINDOWS COVERED	17 093	1 049	2 385	1 725	3 036	2 450	2 286	2 401	1 122	438	201	15700	
SOME OR ALL WINDOWS COVERED	29 741	1 173	3 226	2 509	5 070	4 807	4 532	4 916	2 271	867	370	18000	
NONE ADDED OR INSTALLED	25 605	1 006	2 828	2 186	4 306	4 103	3 926	4 247	1 948	743	311	18000	
SOME OR ALL ADDED OR INSTALLED	3 830	153	367	286	708	661	570	618	303	109	54	18000	
NOT REPORTED	307	14	31	37	57	43	36	50	20	15	5	16800	
NOT REPORTED	195	22	24	23	35	25	23	21	11	5	7	14200	
STORM DOORS:													
NO DOORS COVERED	16 513	981	2 209	1 600	2 811	2 300	2 173	2 459	1 217	509	254	16400	
SOME OR ALL DOORS COVERED	30 262	1 232	3 399	2 623	5 292	4 957	4 632	4 843	2 173	795	317	17600	
NONE ADDED OR INSTALLED	26 763	1 082	3 127	2 369	4 695	4 327	4 073	4 224	1 887	699	280	17400	
SOME OR ALL ADDED OR INSTALLED	2 757	105	197	175	442	509	453	530	235	81	31	19500	
NOT REPORTED	742	45	75	80	155	121	107	89	50	15	6	15700	
NOT REPORTED	254	30	28	33	39	25	37	39	15	7	7	14600	
ATTIC OR ROOF INSULATION:													
NO ATTIC OR ROOF INSULATION	6 836	720	1 570	846	1 246	849	633	604	251	77	40	11100	
WITH ATTIC OR ROOF INSULATION	38 132	1 377	3 724	3 145	6 474	6 156	5 981	6 531	3 039	1 196	509	18500	
NONE ADDED OR INSTALLED	33 293	1 203	3 349	2 819	5 653	5 349	5 145	5 649	2 643	1 046	438	18400	
SOME OR ALL ADDED OR INSTALLED	3 864	131	276	238	636	662	689	739	333	116	46	19900	
LESS THAN 3 INCHES ADDED	248	8	21	20	46	37	41	54	14	5	1	19000	
3 TO 6 INCHES ADDED	1 638	43	127	118	257	291	291	311	124	56	20	19700	
6 INCHES OR MORE ADDED	1 520	47	83	63	263	249	284	314	152	47	19	21000	
DON'T KNOW	306	30	31	21	50	52	35	45	29	6	6	17000	
NOT REPORTED	153	2	14	16	20	33	37	14	14	2	1	18700	
NOT REPORTED	974	43	99	88	184	146	147	143	63	35	25	17500	
DON'T KNOW	1 820	118	308	235	380	252	198	186	99	27	19	13300	
NOT REPORTED	241	29	35	30	42	25	30	16	15	10	10	13200	
WALL INSULATION:													
NONE ADDED OR INSTALLED	43 957	2 134	5 419	4 085	7 577	6 727	6 329	6 765	3 142	1 245	534	17100	
SOME OR ALL ADDED OR INSTALLED	2 790	81	181	145	516	519	479	537	241	55	36	19500	
NOT REPORTED	282	29	35	27	49	36	34	34	21	10	8	15200	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:													
NONE ADDED OR INSTALLED	36 080	1 895	4 863	3 466	6 234	5 427	4 926	5 330	2 510	979	451	16500	
SOME OR ALL ADDED OR INSTALLED	10 360	302	717	728	1 794	1 775	1 832	1 934	854	310	112	19600	
DON'T KNOW	402	23	33	41	82	57	62	50	29	15	8	16900	
NOT REPORTED	187	24	22	21	32	22	21	22	11	6	7	14200	
OTHER INSULATION:													
NONE ADDED OR INSTALLED	44 487	2 151	5 462	4 056	7 690	6 815	6 440	6 890	3 210	1 240	532	17100	
SOME OR ALL ADDED OR INSTALLED	2 239	63	143	167	403	428	364	407	168	61	34	19000	
NOT REPORTED	304	29	31	48	39	37	40	26	8	12	16300		
RENTER OCCUPIED													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS:	8 936	1 182	2 003	1 432	1 923	1 130	593	453	163	38	19	9700	
NO WINDOWS COVERED	4 992	777	1 182	849	1 037	557	287	193	80	16	14	8900	
SOME OR ALL WINDOWS COVERED	3 575	344	725	532	811	527	289	243	78	22	5	11100	
NONE ADDED OR INSTALLED	2 877	278	574	417	651	415	244	207	71	17	3	11300	
SOME OR ALL ADDED OR INSTALLED	617	65	123	104	146	98	35	33	7	4	2	10600	
NOT REPORTED	81	1	28	11	14	14	9	3	-	1	-	10100	
NOT REPORTED	369	61	96	52	75	46	18	17	5	-	-	8600	
STORM DOORS:													
NO DOORS COVERED	5 150	794	1 222	887	1 045	588	304	199	79	18	15	8900	
SOME OR ALL DOORS COVERED	3 374	326	665	487	796	496	270	234	77	19	5	11300	
NONE ADDED OR INSTALLED	2 989	280	590	432	711	430	240	211	72	19	4	11300	
SOME OR ALL ADDED OR INSTALLED	237	28	42	32	59	39	20	14	4	-	-	11500	
NOT REPORTED	148	17	33	23	26	27	11	9	1	1	-	10200	
NOT REPORTED	412	62	117	58	83	46	19	20	6	-	-	8400	
ATTIC OR ROOF INSULATION:													
NO ATTIC OR ROOF INSULATION	2 783	532	735	471	510	269	123	99	35	8	2	7800	
WITH ATTIC OR ROOF INSULATION	3 608	317	656	538	847	563	309	245	95	22	15	11700	
NONE ADDED OR INSTALLED	3 137	290	572	463	719	484	277	221	81	17	15	11700	
SOME OR ALL ADDED OR INSTALLED	311	22	59	46	80	46	21	19	12	6	1	11800	
LESS THAN 3 INCHES ADDED	19	1	2	4	4	5	1	1	-	2	-	---	
3 TO 6 INCHES ADDED	102	7	26	13	32	10	7	2	4	2	2	10900	
6 INCHES OR MORE ADDED	68	2	11	5	19	11	11	8	1	1	1	14200	
DON'T KNOW	100	11	18	16	20	17	3	7	2	-	-	11400	
NOT REPORTED	22	1	3	8	5	3	1	1	-	-	-	---	
NOT REPORTED	160	5	25	29	49	33	11	5	2	-	-	12100	
DON'T KNOW	2 150	268	511	368	487	250	139	91	27	8	2	9400	
NOT REPORTED	395	66	102	54	79	48	22	18	6	-	-	8700	
WALL INSULATION:													
NONE ADDED OR INSTALLED	8 222	1 088	1 855	1 325	1 766	1 035	543	414	143	35	19	9600	
SOME OR ALL ADDED OR INSTALLED	184	18	25	31	50	21	17	11	8	2	1	11800	
NOT REPORTED	530	75	124	76	107	73	33	28	12	2	-	9600	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:													
NONE ADDED OR INSTALLED	6 924	952	1 618	1 104	1 480	808	436	354	122	29	19	9400	
SOME OR ALL ADDED OR INSTALLED	1 004	86	153	171	236	185	82	57	27	8	-	12000	
DON'T KNOW	634	81	133	105	133	92	55	24	9	1	-	9900	
NOT REPORTED	374	62	100	52	74	45	19	18	5	-	-	8500	
OTHER INSULATION:													
NONE ADDED OR INSTALLED	8 243	1 095	1 848	1 314	1 779	1 034	549	419	151	35	19	9700	
SOME OR ALL ADDED OR INSTALLED	201	19	30	40	46	36	13	8	5	2	1	11200	
NOT REPORTED	493	68	125	78	98	59	31	26	8	-	-	9100	

TABLE A-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED

(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		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 (DOL- LARS)
	TOTAL	\$3,000	\$6,999	\$9,999	\$14,999	\$19,999	\$24,999	\$34,999	\$49,999	\$74,999		
ALL OCCUPIED HOUSING UNITS--CONTINUED												
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED												
C OWNER OCCUPIED												
NO INSULATION ADDED OR INSTALLED.	47 029	2 244	5 636	4 256	8 142	7 282	6 842	7 336	3 404	1 310	578	17200
WITH INSULATION ADDED OR INSTALLED.	29 680	1 625	4 219	2 974	5 103	4 412	4 032	4 288	2 061	806	360	16200
LESS THAN \$50.	15 384	511	1 210	1 108	2 689	2 618	2 565	2 821	1 240	445	178	19200
\$50 TO \$99.	6 708	241	569	529	1 202	1 170	1 114	1 163	496	163	61	18500
\$100 TO \$199.	1 547	46	108	128	277	273	268	269	290	104	36	18900
\$200 TO \$399.	1 584	48	102	113	280	282	256	256	295	126	38	12 19400
\$400 OR MORE.	2 198	64	145	119	331	371	375	438	234	84	40	20900
DON'T KNOW.	786	34	72	58	144	109	123	117	77	35	17	18900
NOT REPORTED.	1 100	51	109	80	201	174	160	203	75	36	12	18100
MEDIAN.	51	50-	50-	50-	50-	50-	55	65	73	82	86	..
NOT REPORTED OR DON'T KNOW.	1 765	108	207	175	350	252	245	227	103	58	40	15900
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
LESS THAN \$50.	1 196	62	169	112	265	183	133	156	73	28	16	14800
\$50 TO \$99.	486	34	84	46	116	72	44	61	14	10	6	13500
\$100 TO \$199.	123	6	12	11	26	20	9	20	14	3	2	16600
\$200 TO \$399.	141	6	13	20	32	20	13	13	15	3	3	14700
\$400 OR MORE.	110	2	11	12	21	21	17	12	9	5	1	17200
DON'T KNOW.	47	3	7	6	6	18	25	20	9	6	2	19400
NOT REPORTED.	157	6	27	11	39	20	20	22	9	2	2	14400
MEDIAN.	54	50-	50-	57	50-	59	108	55	117	..	..	..
ONLY ADDED OR INSTALLED STORM DOORS												
LESS THAN \$50.	898	46	62	71	138	172	136	178	61	27	7	16800
\$50 TO \$99.	147	9	10	9	27	42	24	18	8	-	-	17200
\$100 TO \$199.	314	12	25	30	52	62	44	67	14	7	2	18100
\$200 TO \$399.	232	13	11	13	40	35	38	45	28	8	2	20400
\$400 OR MORE.	65	2	5	6	6	9	13	18	5	2	2	22400
DON'T KNOW.	34	-	2	3	3	5	6	6	4	3	2	..
NOT REPORTED.	19	1	2	4	2	1	2	5	-	2	2	..
MEDIAN.	86	9	7	7	8	18	8	20	12	4	1	18100
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION												
LESS THAN \$50.	2 086	68	178	149	357	341	328	409	176	55	25	19300
\$50 TO \$99.	304	18	23	16	67	47	48	60	18	5	2	17900
\$100 TO \$199.	276	6	19	24	49	51	39	61	20	7	-	18900
\$200 TO \$399.	328	9	22	22	50	65	51	82	23	2	2	19600
\$400 OR MORE.	408	8	45	25	60	56	70	80	44	16	4	20800
DON'T KNOW.	401	11	32	28	70	59	61	77	36	13	14	20100
NOT REPORTED.	191	7	14	12	45	28	35	20	19	7	3	18100
MEDIAN.	179	7	22	22	18	35	24	28	16	6	-	17900
184	123	228	177	163	162	193	172	242	297	..	..	..
ALL OCCUPIED HOUSING UNITS												
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK ¹												
OWNER OCCUPIED												
DRIVES SELF	35 469	669	1 492	2 262	6 183	6 406	6 431	6 969	3 244	1 260	553	20600
CARPOOL	26 911	432	953	1 636	4 694	4 932	4 973	5 382	2 505	995	406	20800
MASS TRANSPORTATION	5 258	78	199	331	897	995	1 017	1 106	441	141	54	20600
BICYCLE OR MOTORCYCLE	1 121	28	81	85	186	164	163	197	132	47	40	20500
TAXICAB	167	2	5	15	31	29	34	39	8	2	3	20300
WALKS ONLY	23	4	-	5	6	-	-	-	-	3	2	..
OTHER MEANS	769	24	103	78	162	135	98	90	44	22	13	15600
WORKS AT HOME	131	5	3	10	15	12	23	22	30	6	5	24400
NOT REPORTED	993	89	137	97	171	123	111	116	79	41	27	15100
RENTER OCCUPIED	17 888	821	2 804	3 326	4 864	2 830	1 649	1 085	349	114	45	12000
DRIVES SELF	11 327	396	1 404	2 015	3 263	1 981	1 173	760	238	68	30	12800
CARPOOL	2 734	145	478	532	726	409	248	136	45	11	5	11500
MASS TRANSPORTATION	1 975	121	415	439	460	252	128	101	30	20	8	10100
BICYCLE OR MOTORCYCLE	160	18	20	33	46	17	16	7	3	-	-	11000
TAXICAB	53	2	28	7	7	4	2	-	3	-	-	6600
WALKS ONLY	1 210	104	370	231	253	119	50	59	15	9	1	8700
OTHER MEANS	60	10	13	3	15	8	2	4	2	2	-	11200
WORKS AT HOME	322	22	69	57	79	38	21	16	12	5	1	10800
NOT REPORTED	47	2	7	9	14	2	10	1	-	-	-	11600
DISTANCE FROM HOME TO WORK ¹												
OWNER OCCUPIED												
LESS THAN 1 MILE.	35 469	669	1 492	2 262	6 183	6 406	6 431	6 969	3 244	1 260	553	20600
1 TO 4 MILES.	2 378	70	227	263	490	435	361	300	156	58	28	16600
5 TO 9 MILES.	7 256	115	378	544	1 395	1 380	1 246	1 276	586	214	122	19300
10 TO 19 MILES.	6 784	101	241	430	1 232	1 236	1 242	1 363	603	243	93	20600
20 TO 29 MILES.	7 608	84	200	405	1 264	1 445	1 487	1 632	733	258	100	21800
30 TO 49 MILES.	3 042	49	55	119	463	520	625	739	316	124	31	22500
50 MILES OR MORE.	1 801	23	39	75	293	333	368	412	178	51	30	21900
WORKS AT HOME.	602	12	10	29	93	111	136	137	50	16	8	21700
NO FIXED PLACE OF WORK.	993	89	137	97	171	123	111	116	79	41	27	15100
NOT REPORTED.	4 442	102	180	248	666	723	777	901	496	242	107	21900
MEDIAN.	565	24	26	52	115	101	88	93	45	13	8	18300
RENTER OCCUPIED	8.8	7.1	4.7	6.5	8.0	6.7	9.5	10.0	9.7	9.3	8.0	..
LESS THAN 1 MILE.	17 888	821	2 804	3 326	4 864	2 830	1 649	1 085	349	114	45	12000
1 TO 4 MILES.	2 053	124	505	417	504	238	106	112	35	10	2	9900
5 TO 9 MILES.	4 682	253	835	1 016	1 305	639	347	192	59	26	11	10900
10 TO 19 MILES.	3 573	143	511	696	1 004	580	335	206	71	19	8	11200
20 TO 29 MILES.	3 384	124	429	552	989	612	368	228	54	22	7	13000
30 TO 49 MILES.	1 086	31	101	153	308	232	133	90	31	5	3	14200
50 MILES OR MORE.	543	12	52	80	139	112	70	52	20	3	2	14600
WORKS AT HOME.	130	1	13	23	53	13	14	8	3	2	-	12800
NO FIXED PLACE OF WORK.	322	22	69	57	79	38	21	16	12	5	1	10800
NOT REPORTED.	1 656	86	233	230	370	299	214	161	42	14	9	13800
MEDIAN.	459	26	55	101	113	68	42	20	21	10	2	12100

¹LIMITED 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: 1978--CONTINUED

(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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
TRAVEL TIME FROM HOME TO WORK ¹												
OWNER OCCUPIED.												
LESS THAN 15 MINUTES.	35 469	669	1 492	2 262	6 183	6 406	6 431	6 969	3 244	1 260	553	20600
15 TO 29 MINUTES.	10 239	185	526	776	1 901	1 888	1 790	1 788	856	353	174	19600
30 TO 44 MINUTES.	11 084	129	400	668	2 028	2 111	2 096	2 224	959	346	124	20500
45 TO 59 MINUTES.	4 065	96	142	264	833	908	926	1 089	478	163	65	21300
1 HOUR TO 1 HOUR AND 29 MINUTES.	1 741	22	57	88	273	300	348	419	167	48	19	21900
1 HOUR AND 30 MINUTES OR MORE	416	9	12	20	58	74	73	97	138	45	21	22000
WORKS AT HOME	993	89	137	97	171	123	111	116	49	17	8	22500
NO FIXED PLACE OF WORK.	4 442	102	180	248	666	723	777	901	496	242	107	21500
NOT REPORTED.	303	12	11	31	53	56	52	51	21	8	7	18900
MEDIAN.	21.2	20.5	17.1	18.6	20.5	21.1	21.8	22.6	22.3	20.7	18.6	...
RENTER OCCUPIED												
LESS THAN 15 MINUTES.	17 888	821	2 804	3 326	4 864	2 830	1 649	1 085	349	114	45	12000
15 TO 29 MINUTES.	6 106	306	1 103	1 246	1 709	871	440	308	83	28	12	11200
30 TO 44 MINUTES.	5 643	285	863	1 033	1 573	905	555	313	110	34	12	12200
45 TO 59 MINUTES.	2 374	91	315	414	663	419	244	158	48	18	4	12800
1 HOUR TO 1 HOUR AND 29 MINUTES.	833	20	92	155	206	156	93	57	39	10	4	13600
1 HOUR AND 30 MINUTES OR MORE	161	6	19	35	44	29	14	50	5	-	3	12100
WORKS AT HOME	322	22	69	57	79	38	21	16	12	2	-	12300
NO FIXED PLACE OF WORK.	1 656	86	233	230	370	299	214	161	42	14	1	10800
NOT REPORTED.	166	16	19	36	39	21	11	12	6	5	9	13800
MEDIAN.	19.6	17.5	17.4	18.7	19.5	21.0	22.0	21.6	23.3	22.6	-	11400

¹LIMITED 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: 1978
(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	LESS THAN \$10,000	\$10,000 TO \$20,000	\$20,000 TO \$30,000	\$30,000 TO \$40,000	\$40,000 TO \$50,000	\$50,000 TO \$60,000	\$60,000 TO \$75,000	\$75,000 TO \$100,000	\$100,000 TO \$200,000	\$200,000 OR MORE	MEDIAN (DOL- LARS)
TOTAL	\$10,000	\$19,999	\$20,000	\$29,999	\$30,000	\$39,999	\$40,000	\$59,999	\$74,999	\$99,999	\$199,999
SPECIFIED OWNER OCCUPIED¹											
HOUSE HEATING FUEL											
UTILITY GAS	24 428	767	2 461	3 661	4 512	3 646	2 683	2 903	2 207	1 415	173
BOTTLED, TANK, OR LP GAS.	1 572	190	343	331	271	160	115	82	37	40	4
FUEL OIL	7 572	171	708	1 172	1 646	1 414	901	772	464	270	53
KEROSENE, ETC											40600
ELECTRICITY	5 590	46	231	696	1 224	1 022	782	758	501	289	41
COAL OR COKE	156	18	54	37	25	12	4	4	-	1	21600
WOOD	168	25	47	43	21	12	11	3	5	2	45800
SOLAR HEAT	390	69	86	75	74	40	19	15	9	3	22800
OTHER FUEL	3	-	-	-	-	-	-	2	1	-	25400
NONE	168	5	16	23	14	8	12	21	30	39	2
											65000
WATER HEATING FUEL											
NO HOT PIPED WATER	282	141	68	38	16	8	4	5	2	-	-
WITH HOT PIPED WATER	39 770	1 152	3 878	6 001	7 772	6 306	4 523	4 556	3 254	2 056	272
FUEL USED											10000-41700
UTILITY GAS	23 314	656	2 289	3 383	4 332	3 541	2 607	2 846	2 119	1 369	173
BOTTLED, TANK, OR LP GAS	1 268	125	270	270	236	130	105	64	33	30	5
FUEL OIL	2 732	15	108	249	561	629	435	345	230	134	25
KEROSENE, ETC											46900
ELECTRICITY	20	1	3	2	3	3	3	2	2	-	-
COAL OR COKE	12 365	345	1 196	2 077	2 631	1 998	1 366	1 295	866	522	68
WOOD	26	2	4	12	2	3	1	1	1	-	-
SOLAR HEAT	21	2	5	5	4	1	-	-	3	-	-
OTHER FUEL	12	-	-	2	-	2	1	2	2	1	-
NONE	6	-	1	-	-	1	2	-	-	-	-
NOT REPORTED	7	5	2	-	-	-	-	-	-	-	-
	2	-	1	-	2	-	-	-	-	-	***
COOKING FUEL											
UTILITY GAS	14 988	669	2 028	2 641	2 842	2 135	1 519	1 516	1 015	580	83
BOTTLED, TANK, OR LP GAS	1 923	243	432	439	323	193	129	88	45	27	6
FUEL OIL	48	3	9	6	5	6	7	7	4	1	-
KEROSENE, ETC											40100
ELECTRICITY	11	1	3	1	1	3	2	1	1	-	-
COAL OR COKE	23 001	350	1 456	2 934	4 608	3 976	2 868	2 948	2 188	1 490	182
WOOD	13	3	-	7	1	-	1	-	2	-	-
OTHER FUEL	60	20	17	9	8	3	1	1	-	-	-
NONE	1	-	17	-	-	1	-	-	-	-	15600
	8	3	1	3	-	-	-	1	1	-	-
MONTHLY COST PAID FOR ELECTRICITY											
LESS THAN \$10	707	82	150	121	135	71	51	49	32	15	-
\$10 TO \$19	5 980	439	903	1 117	1 088	840	517	565	325	207	19
\$20 TO \$29	9 222	343	1 152	1 549	1 940	1 402	982	939	590	301	24
\$30 TO \$39	8 071	206	773	1 249	1 701	1 333	912	893	636	328	38
\$40 TO \$49	5 036	115	398	748	1 010	854	629	559	435	253	36
\$50 TO \$59	3 917	50	276	527	752	662	482	510	379	249	29
\$60 TO \$79	3 972	34	189	483	745	689	533	530	414	312	42
\$80 TO \$99	1 518	4	55	145	271	268	211	217	196	140	11
\$100 TO \$149	1 290	9	33	88	159	170	173	241	197	188	32
\$150 OR MORE	316	3	10	10	26	26	34	55	50	64	38
NO ELECTRICITY USED OR NOT REPORTED	26	9	7	3	-	1	2	2	2	-	-
MEDIAN	35	23	27	32	34	36	37	41	46	55	***
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
LESS THAN \$10	2 867	135	347	465	469	446	339	331	210	109	17
\$10 TO \$14	3 098	130	325	461	504	415	315	402	302	212	33
\$15 TO \$19	3 049	163	403	511	487	404	280	344	263	178	16
\$20 TO \$24	3 293	119	432	576	665	511	329	294	197	149	21
\$25 TO \$29	2 961	113	390	552	660	424	254	279	173	101	14
\$30 TO \$39	5 851	192	607	888	1 225	1 000	685	653	395	172	33
\$40 TO \$49	3 853	101	381	561	736	607	466	445	345	197	14
\$50 TO \$69	3 474	114	273	462	595	518	406	441	385	250	30
\$70 TO \$99	993	29	107	119	138	131	119	89	116	131	15
\$100 OR MORE	369	12	32	37	42	31	29	45	44	78	18
NO GAS USED OR NOT REPORTED	10 246	187	649	1 406	2 266	1 829	1 304	1 238	824	481	62
MEDIAN	29	25	26	27	29	30	31	30	32	32	31
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.											
LESS THAN \$100	1 425	62	99	123	173	215	217	237	162	126	11
\$100 TO \$199	792	36	76	136	126	119	94	88	75	39	3
\$200 TO \$299	953	52	155	195	211	139	83	66	35	18	-
\$300 TO \$399	1 317	60	188	279	287	223	116	92	37	30	4
\$400 TO \$499	1 262	35	156	208	301	226	134	106	70	23	3
\$500 TO \$599	1 115	28	107	178	241	201	141	115	69	25	11
\$600 TO \$699	947	19	59	115	206	186	138	124	49	49	2
\$700 TO \$799	677	5	35	63	153	132	115	87	53	30	3
\$800 OR MORE	1 277	8	63	111	216	246	172	177	148	112	23
FUELS NOT USED; FREE; OR NOT REPORTED	30 288	989	3 008	4 631	5 873	4 629	3 316	3 469	2 556	1 605	211
MEDIAN	431	303	373	388	453	465	470	459	456	589	***
HEATING EQUIPMENT											
WARM-AIR FURNACE	24 540	282	1 633	3 424	5 079	4 160	2 975	3 071	2 275	1 429	214
HEAT PUMP	763	6	11	40	103	112	113	149	126	97	5
STEAM OR HOT WATER	5 232	40	315	577	983	1 042	764	699	466	309	35
BUILT-IN ELECTRIC UNITS	2 365	26	137	408	567	440	295	260	146	77	10
FLOOR, WALL, OR PIPELESS FURNACE	2 953	104	561	688	536	310	245	268	161	75	4
ROOM HEATERS WITH FLUE	1 708	336	533	404	201	116	41	41	22	12	32300
ROOM HEATERS WITHOUT FLUE	1 416	345	533	277	134	81	41	41	18	15	19700
FIREPLACES, STOVES, OR PORTABLE HEATERS	910	150	208	200	171	81	41	41	15	4	16800
NONE	168	5	16	23	14	8	12	21	30	39	2

¹LIMITED 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: 1978--CONTINUED
(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		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 (DOL- LARS)
SPECIFIED OWNER OCCUPIED¹--CONTINUED												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	168	5	16	23	14	8	12	21	30	39	2	65000
WITH HEATING EQUIPMENT	39 886	1 288	3 930	6 017	7 774	6 308	4 515	4 580	3 225	2 018	270	41500
NO THERMOSTAT CONTROL	3 996	724	1 090	830	584	294	176	183	89	58	9	22200
WITH THERMOSTAT CONTROL	35 781	557	2 832	5 165	7 169	5 999	4 328	4 391	3 122	1 959	259	43600
NOT CLOCK OPERATED	31 121	465	2 452	4 464	6 264	5 276	3 851	3 856	2 678	1 623	191	43600
CONSTANT TEMPERATURE SETTING MAINTAINED	9 381	179	817	1 514	2 003	1 600	1 178	1 007	661	378	44	41100
TEMPERATURE SETTING IS CHANGED	21 601	284	1 629	2 932	4 238	3 651	2 655	2 833	2 000	1 232	147	44700
OCCASIONALLY	5 659	100	517	817	1 151	927	671	680	487	272	37	42600
REGULARLY	15 734	181	1 086	2 074	3 045	2 688	1 968	2 144	1 491	950	107	45500
DON'T KNOW	183	3	24	34	36	30	16	9	19	8	3	38400
NOT REPORTED	26	-	2	7	6	7	-	-	2	2	-	..
CLOCK OPERATED	138	2	6	18	23	26	19	16	16	12	-	47900
NOT REPORTED	4 498	91	365	668	872	689	464	514	437	331	67	43700
NOT REPORTED	162	1	15	33	33	33	12	21	8	5	2	39900
NOT REPORTED	110	7	8	23	21	16	11	6	14	2	2	37900
SPECIFIED OWNER OCCUPIED¹	40 054	1 294	3 946	6 040	7 788	6 316	4 527	4 561	3 254	2 057	272	41500
UNITS OCCUPIED LAST WINTER.	36 532	1 238	3 757	5 621	7 265	5 689	4 010	4 040	2 902	1 769	241	40700
INSUFFICIENT HEAT												
CLOSURE OF ROOMS:												
WITH HEATING EQUIPMENT	36 380	1 235	3 743	5 605	7 253	5 682	4 000	4 021	2 872	1 730	240	50600
NO ROOMS CLOSED	34 579	1 030	3 370	5 267	6 962	5 476	3 860	3 917	2 793	1 681	223	51200
CLOSED CERTAIN ROOMS	1 489	191	349	282	243	149	109	75	52	28	11	27200
LIVING ROOM ONLY	63	7	11	21	6	6	7	2	1	1	-	25900
DINING ROOM ONLY	24	2	4	3	6	6	-	3	2	-	-	..
1 OR MORE BEDROOMS ONLY	966	137	251	186	146	91	67	39	31	14	3	25100
OTHER ROOMS OR COMBINATION OF ROOMS	412	43	79	70	79	40	35	29	18	11	8	31800
NOT REPORTED	26	2	4	2	6	7	-	1	-	3	-	..
NOT REPORTED	312	14	24	56	48	58	30	29	27	21	6	42500
NO HEATING EQUIPMENT	151	3	14	16	12	7	10	19	30	39	2	70600
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ²	34 171	759	3 032	5 153	6 971	5 562	3 921	3 973	2 845	1 715	239	42100
NO ADDITIONAL HEAT SOURCE USED	31 567	641	2 658	4 713	6 484	5 197	3 661	3 736	2 672	1 582	222	42500
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 362	107	354	396	448	319	240	214	152	119	13	37200
NOT REPORTED	243	11	20	44	39	47	21	23	21	15	4	41800
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 360	479	725	468	294	127	88	67	57	54	2	19700
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ³	34 171	759	3 032	5 153	6 971	5 562	3 921	3 973	2 845	1 715	239	42100
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	26 958	314	1 712	3 593	5 576	4 735	3 368	3 433	2 487	1 529	211	44800
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	6 875	432	1 290	1 506	1 337	771	520	505	325	165	24	31600
1 ROOM	2 049	89	283	355	458	284	201	186	122	62	9	36500
2 ROOMS	1 733	132	394	381	305	195	130	92	62	35	8	28900
3 ROOMS OR MORE	3 093	211	614	770	574	292	189	227	142	68	8	29400
NOT REPORTED	338	12	30	54	58	56	33	36	33	21	4	42500
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 360	479	725	468	294	127	88	67	57	54	2	19700
SPECIFIED OWNER OCCUPIED¹	40 054	1 294	3 946	6 040	7 788	6 316	4 527	4 561	3 254	2 057	272	41500
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 078	155	223	222	185	68	53	54	43	52	2	27200
WITH SELECTED HEATING EQUIPMENT ²	38 976	1 139	3 722	5 818	7 603	6 227	4 474	4 507	3 211	2 005	270	41900
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	36 872	1 081	3 520	5 508	7 181	5 884	4 222	4 242	3 066	1 916	251	41900
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 880	50	175	272	382	315	224	240	125	79	17	41900
SOLAR HEATING EQUIPMENT	6	-	-	-	-	2	2	2	1	2	2	..
STOVE, BURNING WOOD OR COAL	686	17	56	93	164	140	76	76	45	16	2	41000
FIREPLACE, BURNING WOOD OR COAL	249	-	10	19	50	49	49	44	22	7	-	49300
PORTABLE ELECTRIC HEATER	464	10	69	87	91	60	42	57	19	24	5	37200
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	105	15	12	23	15	14	11	6	7	-	2	31200
OTHER	343	7	25	49	51	45	43	58	32	28	5	48700
NOT REPORTED	33	1	4	1	12	7	2	3	1	2	1	..
NOT REPORTED	224	7	27	37	40	29	28	25	20	10	2	40300
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 202	836	1 289	903	520	253	134	113	80	69	4	19800
WITH SELECTED HEATING EQUIPMENT ²	35 853	456	2 657	5 137	7 268	6 063	4 393	4 488	3 174	1 988	267	44000
LESS THAN 4 YEARS	6 277	62	342	713	1 067	997	841	924	746	518	66	49600
5 TO 9 YEARS	8 609	132	623	1 348	1 694	1 458	1 089	1 131	826	460	46	44200
10 TO 19 YEARS	10 929	128	845	1 579	2 245	1 899	1 315	1 289	958	592	79	43500
20 TO 39 YEARS	7 081	69	490	1 022	1 660	1 283	883	836	514	278	45	42300
40 YEARS OR MORE	664	10	64	89	124	129	74	73	33	53	16	43600
DON'T KNOW	1 743	41	251	339	409	253	153	160	65	64	8	35900
NOT REPORTED	349	17	43	47	69	43	37	33	31	22	7	39900
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 202	836	1 289	903	520	253	134	113	80	69	4	19800
WITH SELECTED HEATING EQUIPMENT ²	35 853	456	2 657	5 137	7 268	6 063	4 393	4 488	3 174	1 988	267	44000
NO MAINTENANCE OR MODIFICATION	27 465	352	2 054	4 035	5 606	4 593	3 308	3 404	2 461	1 475	176	43700
WITH MAINTENANCE OR MODIFICATION	8 056	92	572	1 060	1 608	1 425	1 041	1 010	677	468	84	44900
NOT REPORTED	331	14	31	42	54	45	34	36	25	8	45700	

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

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

³EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

⁴EXCLUDES 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: 1978--CONTINUED
(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	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 (DOL- LARS)
SPECIFIED OWNER OCCUPIED³--CONTINUED											
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT											
WITHOUT SELECTED HEATING EQUIPMENT OR NONE											
WITH SELECTED HEATING EQUIPMENT ⁴	4 202	836	1 289	903	520	253	134	113	80	69	4 19800
NO MAINTENANCE CONTRACT	35 853	458	2 657	5 137	7 268	6 063	4 393	4 448	3 174	1 988	267 44000
WITH MAINTENANCE CONTRACT	30 965	416	2 403	4 605	6 372	5 105	3 684	3 793	2 715	1 658	213 43300
NOT REPORTED	4 457	27	216	474	824	901	661	595	416	294	49 47600
431	15	38	57	71	57	47	60	44	35	5	45800
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT											
NO HOT PIPED WATER											
WITH HOT PIPED WATER	282	141	68	38	16	8	4	5	-	2	-
39 770	1 152	3 878	6 001	7 772	6 306	4 523	4 556	3 254	2 056	272	10000- 41700
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	38 956	1 103	3 794	5 895	7 638	6 184	4 426	4 470	3 184	2 004	258 41700
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁵	220	7	11	29	37	30	21	28	30	18	8 48700
NOT REPORTED	575	36	71	75	97	92	72	55	38	32	5 40800
2	-	-	1	-	2	-	-	-	-	-	-
AIR CONDITIONING											
WITH AIR CONDITIONING											
ROOM UNITS	23 582	404	1 919	3 455	4 761	3 893	2 902	2 812	2 006	1 264	166 43200
12 221	355	1 693	2 539	2 761	1 865	1 182	1 000	533	270	24	35500
1 792	290	1 125	1 597	1 655	1 059	597	503	230	126	11	33500
2 583	55	478	744	809	558	388	290	186	70	5	36400
3 020	8	81	161	228	190	131	129	55	36	2	41700
4 297	1	6	30	54	45	44	58	39	20	2	53000
5 OR MORE	129	2	8	15	13	21	21	24	18	5	62100
CENTRAL SYSTEM	11 361	49	226	917	2 000	2 029	1 720	1 812	1 474	995	141 52700
WITH NO AIR CONDITIONING	16 472	890	2 027	2 585	3 027	2 423	1 625	1 749	1 248	793	106 39000
SPECIFIED OWNER OCCUPIED⁴											
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS											
40 054	1 294	3 946	6 040	7 788	6 316	4 527	4 561	3 254	2 057	272	41500
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING											
ALL WINDOWS COVERED											
21 284	377	1 747	3 089	4 526	3 807	2 699	2 384	1 667	897	90	42400
4 241	195	585	784	833	620	386	389	241	184	24	36700
NO WINDOWS COVERED	14 384	716	1 595	2 151	2 401	1 870	1 421	1 778	1 330	971	153 41800
NOT REPORTED	146	6	19	16	28	19	22	11	16	5	3 42000
STORM DOORS											
ALL DOORS COVERED											
20 849	408	1 929	3 429	4 709	3 767	2 524	2 069	1 325	638	52	39900
5 444	234	644	904	1 060	800	596	578	391	213	25	38900
NO DOORS COVERED	13 567	644	1 353	1 686	1 985	1 719	1 374	1 894	1 521	1 200	192 46500
NOT REPORTED	194	7	21	21	34	30	33	21	18	6	3 44700
ATTIC OR ROOF INSULATION											
YES											
32 702	515	2 458	4 656	6 596	5 526	4 035	4 042	2 864	1 780	230	43800
5 739	691	1 248	1 106	863	568	335	394	298	210	27	28400
DON'T KNOW	1 436	80	222	256	296	196	128	110	76	60	13 35400
NOT REPORTED	177	8	18	21	34	26	30	15	16	7	2 42900
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS											
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:											
NO WINDOWS COVERED											
14 384	716	1 595	2 151	2 401	1 870	1 421	1 778	1 330	971	153 41800	
25 525	572	2 332	3 874	5 359	4 427	3 085	2 772	1 908	1 081	115 41400	
21 977	446	1 950	3 308	4 650	3 881	2 637	2 398	1 679	929	99 41600	
3 283	122	363	533	655	492	412	342	211	140	14 39500	
NOT REPORTED	265	4	19	33	54	54	36	32	19	12	2 44100
146	6	19	16	28	19	22	11	16	5	3 42000	
STORM DOORS:											
NO DOORS COVERED											
13 567	644	1 353	1 686	1 985	1 719	1 374	1 894	1 521	1 200	192 46500	
26 293	642	2 573	4 333	5 769	4 567	3 120	2 646	1 716	851	76 39700	
23 188	552	2 271	3 868	5 084	4 043	2 711	2 343	1 503	742	70 39600	
2 483	66	229	362	553	415	337	260	178	76	5 40800	
NOT REPORTED	622	24	73	103	132	108	72	43	34	31	2 38400
194	7	21	21	34	30	33	21	18	6	3 44700	
ATTIC OR ROOF INSULATION:											
NO ATTIC OR ROOF INSULATION											
5 739	691	1 248	1 106	863	568	335	394	298	210	27	28400
WITH ATTIC OR ROOF INSULATION	32 702	515	2 458	4 656	6 596	5 526	4 035	4 042	2 864	1 780	230 43800
28 443	422	2 153	4 096	5 733	4 835	3 475	3 479	2 508	1 543	198 43800	
SOME OR ALL ADDED OR INSTALLED	3 460	76	245	461	709	573	457	455	285	179	21 44200
LESS THAN 3 INCHES ADDED	201	8	10	32	47	33	33	19	12	7	41000
3 TO 6 INCHES ADDED	1 489	34	119	190	320	274	166	191	121	66	9 43000
6 INCHES OR MORE ADDED	1 369	20	81	171	274	201	203	201	123	85	10 46900
DON'T KNOW	271	14	20	38	47	39	39	35	22	15	3 44300
NOT REPORTED	130	-	15	30	21	27	15	9	7	6	- 39300
800	17	59	99	154	118	103	108	72	59	11	6 46000
1 436	80	222	256	296	196	128	110	76	60	13 35400	
177	8	18	21	34	26	30	15	16	7	2 42900	
WALL INSULATION:											
NONE ADDED OR INSTALLED											
37 397	1 242	3 724	5 644	7 261	5 906	4 178	4 219	3 063	1 905	256 41400	
2 436	47	201	367	490	367	319	318	177	138	12 43100	
221	4	21	29	37	42	31	23	14	14	3 44400	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:											
NONE ADDED OR INSTALLED											
30 524	1 086	3 155	4 692	5 861	4 611	3 324	3 432	2 523	1 628	210 41000	
9 044	185	744	1 285	1 832	1 626	1 154	1 064	694	403	56 42900	
351	15	30	44	72	58	30	51	24	23	4 42600	
NOT REPORTED	136	5	16	19	23	20	19	14	13	3 44800	
OTHER INSULATION:											
NONE ADDED OR INSTALLED											
38 055	1 250	3 780	5 806	7 413	5 955	4 261	4 297	3 087	1 956	249 41300	
1 759	38	137	204	334	322	233	235	149</			

TABLE A-3. VALUE OF OWNER-OCCUPIED HOUSING UNITS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED
 (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	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000 OR MORE	MEDIAN (DOL- LARS)	
		\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999			
SPECIFIED OWNER OCCUPIED¹--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.	25 172	919	2 623	3 873	4 777	3 758	2 655	2 865	2 140	1 385	178	41000	
WITH INSULATION ADDED OR INSTALLED.	13 433	334	1 182	1 958	2 725	2 316	1 712	1 537	1 011	583	76	42200	
LESS THAN \$50.	5 744	184	542	881	1 133	1 013	702	633	397	234	26	41300	
\$50 TO \$99.	1 346	36	131	224	296	224	169	111	101	52	2	39600	
\$100 TO \$199.	1 408	27	117	207	300	272	169	162	95	54	6	41900	
\$200 TO \$399.	1 309	21	97	168	274	252	171	148	115	57	6	43800	
\$400 OR MORE.	1 961	22	153	258	408	291	264	281	171	92	20	44700	
DON'T KNOW.	701	16	39	91	132	106	114	91	59	47	7	46900	
NOT REPORTED.	964	28	103	129	181	158	124	112	72	48	9	42600	
MEDIAN.	55	50-	50-	50-	62	53	60	65	71	60	121	...	
NOT REPORTED OR DON'T KNOW.	1 449	41	141	210	286	242	160	159	104	89	18	41900	
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
LESS THAN \$50.	977	49	141	170	183	141	111	89	55	36	2	37000	
\$50 TO \$99.	367	32	76	76	60	39	34	33	12	3	2	30000	
\$100 TO \$199.	104	6	8	24	24	16	7	5	5	9	-	35800	
\$200 TO \$399.	121	3	17	20	21	18	21	10	7	5	-	40200	
\$400 OR MORE.	94	2	7	16	20	19	9	6	13	3	-	41300	
DON'T KNOW.	121	1	12	17	27	20	14	16	11	4	-	42100	
NOT REPORTED.	43	1	5	4	9	7	8	3	3	2	-	42900	
MEDIAN.	127	5	18	13	22	22	17	16	4	10	-	42400	
MEDIAN.	67	50-	50-	51	82	105	108	66	198	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS													
LESS THAN \$50.	820	27	83	123	177	144	109	77	56	23	1	40000	
\$50 TO \$99.	130	9	14	36	28	18	12	4	7	2	-	32300	
\$100 TO \$199.	283	10	36	50	57	46	39	20	18	7	-	37900	
\$200 TO \$399.	219	4	15	20	57	43	25	27	19	8	1	43100	
\$400 OR MORE.	61	1	3	6	9	15	12	5	6	4	-	47700	
DON'T KNOW.	19	1	2	2	6	2	4	2	2	2	-	...	
NOT REPORTED.	77	1	10	10	12	13	12	16	2	-	-	43700	
MEDIAN.	90	...	79	70	93	99	95	121	103	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION													
LESS THAN \$50.	1 847	46	150	274	368	286	247	218	158	88	11	43000	
\$50 TO \$99.	261	14	28	41	49	37	42	26	11	12	2	39700	
\$100 TO \$199.	253	7	24	45	54	34	31	25	23	9	-	39200	
\$200 TO \$399.	268	6	20	36	63	65	33	31	21	12	-	42700	
\$400 OR MORE.	367	4	20	50	66	65	65	41	38	21	1	46700	
DON'T KNOW.	351	3	35	47	72	43	31	60	46	10	5	44100	
NOT REPORTED.	169	5	10	27	34	21	19	22	18	10	4	44500	
MEDIAN.	159	6	14	28	30	22	25	19	9	13	-	41100	
MEDIAN.	185	79	159	164	177	178	184	250	266	190	...	...

¹LIMITED 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: 1978
(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 (DOL- LARS)
SPECIFIED RENTER OCCUPIED¹												
HOUSE HEATING FUEL												
UTILITY GAS	14 220	1 645	2 399	3 303	2 835	1 671	855	435	345	156	576	191
BOTTLED, TANK, OR LP GAS	760	98	176	155	101	38	21	9	3	1	159	159
FUEL OIL	5 519	436	870	1 178	1 255	746	391	153	138	78	274	205
KEROSENE, ETC	133	24	37	23	18	11	-	2	-	-	18	144
ELECTRICITY	4 759	370	349	824	1 223	992	409	206	166	64	154	230
COAL OR COKE	128	39	38	14	10	3	-	-	-	-	24	117
WOOD	259	114	30	39	9	6	2	-	1	-	57	100-
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	100	18	16	36	10	3	-	6	2	4	169	169
NONE	370	45	83	96	43	32	21	13	15	4	19	174
WATER HEATING FUEL												
NO HOT PIPED WATER	386	245	41	12	8	-	-	1	-	-	79	100-
WITH HOT PIPED WATER	25 861	2 544	3 958	5 654	5 496	3 502	1 698	824	670	309	1 206	202
FUEL USED:												
UTILITY GAS	14 656	1 554	2 471	3 380	2 978	1 817	918	467	352	166	552	194
BOTTLED, TANK, OR LP GAS	576	71	125	126	78	30	19	5	6	1	115	163
FUEL OIL	3 413	254	465	720	820	503	257	122	121	64	86	213
KEROSENE, ETC	10	3	1	4	-	-	-	-	-	-	2	2
ELECTRICITY	7 027	633	800	1 377	1 601	1 136	496	226	183	70	445	213
COAL OR COKE	32	3	13	6	3	5	-	-	-	-	2	2
WOOD	6	2	2	-	1	-	-	-	-	-	2	2
SOLAR HEAT	3	-	-	-	-	-	-	2	-	-	-	-
OTHER FUEL	121	19	15	42	10	11	6	3	8	7	180	180
NONE	17	5	6	-	4	-	-	-	-	-	3	---
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	14 236	1 579	2 573	3 435	2 881	1 660	847	377	271	127	487	189
BOTTLED, TANK, OR LP GAS	1 124	182	223	245	154	53	33	8	14	6	206	161
FUEL OIL	20	6	3	2	3	2	2	2	-	-	1	---
KEROSENE, ETC	9	1	5	1	-	-	-	-	-	-	3	---
ELECTRICITY	10 575	895	1 122	1 956	2 449	1 783	815	434	385	177	559	221
COAL OR COKE	3	1	1	6	-	-	-	-	-	-	2	---
WOOD	41	19	3	1	1	-	-	-	-	-	16	---
OTHER FUEL	21	3	10	4	1	-	-	2	-	-	2	---
NONE	217	103	60	23	15	4	-	2	1	-	10	101
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN \$10	2 810	426	459	713	485	211	100	49	14	2	51	174
\$10 TO \$19	6 877	657	1 165	1 656	1 589	889	348	170	120	45	238	194
\$20 TO \$29	4 988	271	746	1 128	1 187	757	371	143	130	61	195	210
\$30 TO \$39	2 867	104	355	537	730	467	270	94	122	39	150	224
\$40 TO \$49	1 402	33	117	270	334	293	159	65	50	17	63	236
\$50 TO \$59	874	15	36	130	209	204	82	68	50	29	52	255
\$60 TO \$79	707	5	26	77	147	153	105	62	52	35	45	275
\$80 TO \$99	189	-	3	12	23	38	36	19	18	23	309	23
\$100 TO \$149	151	-	2	2	17	26	23	15	31	20	15	346
\$150 OR MORE	44	-	-	-	-	2	8	8	7	18	3	450
INCLUDED IN RENT	5 562	1 249	1 073	1 135	778	461	196	130	73	26	442	160
NO ELECTRICITY USED OR NOT REPORTED	75	31	16	7	5	3	2	2	2	-	9	107
MEDIAN	22	15	18	18	22	25	27	28	32	37	26	---
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN \$10	4 321	348	631	1 152	1 029	535	279	122	90	27	108	198
\$10 TO \$14	2 277	211	368	497	517	283	140	59	78	34	91	202
\$15 TO \$19	1 565	151	324	346	318	174	90	27	42	16	76	188
\$20 TO \$24	1 098	75	223	255	217	114	55	39	36	18	67	192
\$25 TO \$29	899	60	203	210	174	86	56	19	25	8	57	187
\$30 TO \$39	1 378	76	263	323	282	150	94	51	29	23	85	197
\$40 TO \$49	710	21	95	182	156	96	45	21	33	16	43	211
\$50 TO \$69	613	7	68	150	131	74	53	31	28	29	41	223
\$70 TO \$99	199	-	4	42	62	36	22	8	6	3	16	236
\$100 OR MORE	90	-	3	20	23	17	5	3	9	10	287	287
INCLUDED IN RENT	7 715	1 311	1 252	1 524	1 381	988	425	237	133	49	416	185
NO GAS USED OR NOT REPORTED	5 383	529	566	980	1 219	943	423	204	166	78	275	219
MEDIAN	14	12	16	13	13	14	15	17	23	23	21	---
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN \$100	291	75	39	33	36	30	17	14	14	6	27	177
\$100 TO \$199	261	55	55	47	22	23	8	-	9	7	35	153
\$200 TO \$299	289	42	82	55	40	12	17	2	2	2	35	153
\$300 TO \$399	356	27	83	59	64	41	24	4	9	6	39	190
\$400 TO \$499	248	10	37	56	55	20	21	11	13	3	22	209
\$500 TO \$599	176	2	19	41	41	23	10	4	8	6	23	218
\$600 TO \$699	169	-	9	31	47	24	21	2	12	3	18	236
\$700 TO \$799	97	-	6	10	24	15	16	4	7	9	264	264
\$800 OR MORE	161	-	2	6	29	24	16	15	11	11	25	296
INCLUDED IN RENT	4 975	530	798	1 109	1 083	692	337	141	99	50	136	198
FUELS NOT USED, FREE, OR NOT REPORTED	19 223	2 047	2 869	4 219	4 063	2 589	1 205	624	481	210	917	200
MEDIAN	351	155	287	358	430	425	463	473	474	531	348	---
HEATING EQUIPMENT												
WARM-AIR FURNACE	9 377	513	895	1 831	2 239	1 607	838	406	360	184	504	226
HEAT PUMP	226	17	4	39	50	42	22	17	24	11	247	247
STEAM OR HOT WATER	6 997	733	1 053	1 598	1 601	963	434	210	160	77	169	201
BUILT-IN ELECTRIC UNITS	2 459	270	256	500	593	437	158	88	66	22	68	214
FLOOR, WALL, OR PIPELESS FURNACE	2 809	239	501	783	592	282	173	74	38	15	113	188
ROOM HEATERS WITH FLUE	2 050	376	659	480	252	78	33	12	8	3	148	143
ROOM HEATERS WITHOUT FLUE	1 310	395	399	221	95	44	13	4	-	-	141	123
FIRESPLACES, STOVES, OR PORTABLE HEATERS	648	202	150	118	40	18	7	-	2	2	111	122
NONE	370	45	83	96	43	32	21	13	15	4	19	174

¹EXCLUDES 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: 1978--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 (DOL- LARS)
SPECIFIED RENTER OCCUPIED¹--CONTINUED												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT	370	45	83	96	43	32	21	13	15	4	19	174
WITH HEATING EQUIPMENT	25 877	2 744	3 916	5 570	5 462	3 470	1 678	811	655	305	1 265	201
NO THERMOSTAT CONTROL	9 850	1 672	2 250	2 380	1 620	806	357	173	96	53	443	166
WITH THERMOSTAT CONTROL	15 970	1 063	1 660	3 173	3 829	2 661	1 320	636	559	252	816	222
NOT CLOCK OPERATED	13 981	907	1 467	2 780	3 385	2 306	1 183	568	480	197	709	221
CONSTANT TEMPERATURE SETTING MAINTAINED	4 571	350	490	944	1 102	700	392	163	145	45	239	217
TEMPERATURE SETTING IS CHANGED	9 266	548	985	1 812	2 239	1 571	782	401	331	180	468	224
OCCASIONALLY	2 943	174	346	589	726	512	256	99	87	33	120	220
REGULARLY	6 150	353	603	1 180	1 483	1 044	503	296	240	113	335	225
DON'T KNOW	161	18	16	38	26	15	22	6	4	3	11	204
NOT REPORTED	12	2	-	5	4	-	-	-	-	-	2	..
CLOCK OPERATED	1 886	144	184	364	419	343	137	66	78	53	97	224
NOT REPORTED	102	12	9	30	25	11	-	2	2	2	10	192
NOT REPORTED	57	9	6	17	13	3	1	2	-	-	6	180
SPECIFIED RENTER OCCUPIED¹.												
UNITS OCCUPIED LAST WINTER.												
INSUFFICIENT HEAT												
CLOSURE OF ROOMS:												
WITH HEATING EQUIPMENT	16 971	2 226	2 862	3 584	3 307	2 062	958	438	374	148	1 012	190
NO ROOMS CLOSED	15 601	2 067	2 564	3 293	3 056	1 916	914	404	346	141	899	190
CLOSED CERTAIN ROOMS	1 138	145	266	237	196	111	39	31	20	2	92	173
LIVING ROOM ONLY	83	7	28	20	16	-	-	2	-	-	10	153
DINING ROOM ONLY	17	2	4	6	3	-	-	1	2	-	-	..
1 OR MORE BEDROOMS ONLY	771	110	165	168	121	85	30	12	11	2	68	172
OTHER ROOMS OR COMBINATION OF ROOMS	260	27	66	43	54	25	9	14	7	-	15	184
NOT REPORTED	8	-	2	-	2	-	2	-	1	-	-	..
NOT REPORTED	231	14	32	55	55	35	5	3	8	5	20	205
NO HEATING EQUIPMENT	224	29	49	57	29	20	11	8	8	1	10	174
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ²	15 586	1 747	2 489	3 378	3 240	2 023	947	438	373	148	804	196
NO ADDITIONAL HEAT SOURCE USED	13 312	1 495	2 072	2 812	2 774	1 763	839	380	343	131	703	198
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 095	246	401	523	417	227	103	54	23	11	90	183
NOT REPORTED	179	7	16	43	49	33	5	3	8	5	10	219
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 608	508	422	264	96	59	22	8	9	1	218	122
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ²	15 586	1 747	2 489	3 378	3 240	2 023	947	438	373	148	804	196
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 572	1 308	1 551	2 397	2 499	1 675	806	354	317	126	539	205
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	3 752	421	916	919	672	305	133	73	46	17	251	172
1 ROOM	1 279	154	286	340	248	98	39	23	20	8	64	174
2 ROOMS	1 224	129	317	279	226	101	47	25	10	5	88	172
3 ROOMS OR MORE	1 249	137	314	299	198	105	47	25	17	4	103	170
NOT REPORTED	262	19	22	62	69	42	8	10	9	5	14	215
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 608	508	422	264	96	59	22	8	9	1	218	122
SPECIFIED RENTER OCCUPIED¹.												
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 018	247	233	214	82	50	28	13	15	6	130	141
WITH SELECTED HEATING EQUIPMENT ³	25 229	2 542	3 766	5 453	5 422	3 482	1 671	811	655	303	1 154	202
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 184	2 436	3 565	5 197	5 206	3 325	1 626	784	644	295	1 104	203
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	884	68	167	227	182	103	35	24	10	6	41	186
SOLAR HEATING EQUIPMENT	1	-	1	-	-	-	-	-	-	-	-	..
STOVE, BURNING WOOD OR COAL	58	11	13	15	3	3	5	1	2	-	6	158
FIREPLACE, BURNING WOOD OR COAL	16	-	2	5	5	2	-	-	-	2	-	..
PORTABLE ELECTRIC HEATER	632	49	121	164	143	83	21	19	7	6	17	191
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	78	21	19	22	5	4	2	2	-	-	3	143
OTHER	89	6	11	20	17	11	8	2	2	-	13	203
NOT REPORTED	15	1	2	2	2	2	-	1	1	-	-	..
NOT REPORTED	161	18	34	28	34	24	10	3	-	2	9	192
AIR CONDITIONING												
WITH AIR CONDITIONING	11 849	621	1 185	2 125	2 921	2 203	1 076	520	413	208	577	229
ROOM UNITS	7 310	495	1 052	1 588	1 685	1 119	535	234	136	60	404	209
1	5 611	456	911	1 298	1 338	817	312	124	64	19	272	200
2	1 433	31	125	260	314	261	189	86	44	24	99	239
3	217	8	13	27	24	39	26	23	19	14	23	280
4	37	-	2	2	8	2	6	2	5	3	7	..
5 OR MORE	12	-	-	2	2	-	2	-	3	-	4	..
CENTRAL SYSTEM	4 539	125	133	537	1 236	1 083	541	286	277	147	173	257
WITH NO AIR CONDITIONING	14 398	2 169	2 815	3 541	2 583	1 299	622	304	257	101	708	176

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

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

³EXCLUDES 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: 1976--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 (DOL- LARS)
SPECIFIED RENTER OCCUPIED ¹	26 247	2 789	3 999	5 666	5 504	3 502	1 698	824	670	309	1 285	200
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 299	862	1 409	1 613	1 268	844	533	286	336	179	969	192
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	2 266	107	338	449	375	250	160	90	103	57	341	209
SOME WINDOWS COVERED	967	65	155	208	169	93	72	39	30	19	118	198
NO WINDOWS COVERED	4 704	641	854	870	677	448	280	138	194	102	500	184
NOT REPORTED	362	50	66	86	47	54	20	19	8	1	11	184
STORM DOORS												
ALL DOORS COVERED	2 170	99	318	450	364	236	162	71	80	44	345	206
SOME DOORS COVERED	895	55	150	180	157	78	58	36	23	27	131	198
NO DOORS COVERED	4 831	651	872	892	695	473	291	158	217	104	478	186
NOT REPORTED	403	57	70	91	53	57	22	20	16	3	16	186
ATTIC OR ROOF INSULATION												
YES	3 319	150	464	576	533	377	281	145	178	101	512	220
NO	2 516	487	536	470	306	177	93	53	58	25	311	158
DON'T KNOW	2 076	171	340	475	379	235	137	66	92	51	131	198
NOT REPORTED	388	54	70	92	50	54	21	22	8	1	15	183

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

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978
(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						MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE		
ALL OCCUPIED HOUSING UNITS.	77 167	52 294	9 743	3 594	2 853	5 012		3 671
HOUSE HEATING FUEL								
OWNER OCCUPIED.	50 283	43 997	2 317	292	162	483		3 032
UTILITY GAS.	28 187	25 369	1 356	144	60	108		1 150
BOTTLED, TANK, OR LP GAS.	3 196	2 410	24	2	3	-		757
FUEL OIL.	9 980	8 613	682	47	38	137		462
KEROSENE, ETC.	281	185	5	2	-			89
ELECTRICITY.	7 450	6 325	228	93	58	213		534
COAL OR COKE.	251	243	7	1	-	-		1
WOOD.	696	661	9	2	-	-		24
SOLAR HEAT.	3	3	-	-	-	-		-
OTHER FUEL.	18	14	-	-	2	2		-
NONE.	222	174	7	2	2	23		15
RENTER OCCUPIED.	26 884	8 297	7 426	3 302	2 691	4 530		639
UTILITY GAS.	14 334	4 812	4 590	1 737	1 364	1 605		227
BOTTLED, TANK, OR LP GAS.	934	671	78	7	5	5		168
FUEL OIL.	5 669	1 275	1 596	640	457	1 589		112
KEROSENE, ETC.	143	93	22	3	2	2		21
ELECTRICITY.	4 808	845	1 007	868	830	1 160		98
COAL OR COKE.	151	102	26	2	5	16		-
WOOD.	370	335	26	3	-	-		5
SOLAR HEAT.	-	-	-	-	-	-		-
OTHER FUEL.	101	3	2	6	2	87		-
NONE.	375	160	79	34	27	67		7
WATER HEATING FUEL								
OWNER OCCUPIED.	50 283	43 997	2 317	292	162	483		3 032
NO HOT PIPED WATER.	444	412	3	-	-	-		29
WITH HOT PIPED WATER.	49 837	43 583	2 314	292	162	483		3 003
FUEL USED:								
UTILITY GAS.	26 743	24 025	1 497	162	66	123		870
BOTTLED, TANK, OR LP GAS.	2 420	1 930	32	-	3	-		455
FUEL OIL.	3 572	2 942	394	36	29	147		24
KEROSENE, ETC.	27	23	1	-	-	-		3
ELECTRICITY.	16 956	14 560	385	94	64	207		1 645
COAL OR COKE.	35	34	-	-	-	-		1
WOOD.	35	33	2	-	-	-		-
SOLAR HEAT.	14	13	2	-	-	-		-
OTHER FUEL.	17	10	-	-	-	-		5
NONE.	17	13	2	-	-	-		2
NOT REPORTED.	2	2	-	-	-	-		3
RENTER OCCUPIED.	26 884	8 297	7 426	3 302	2 691	4 530		639
NO HOT PIPED WATER.	482	409	36	5	16	6		10
WITH HOT PIPED WATER.	26 402	7 888	7 390	3 297	2 675	4 523		629
FUEL USED:								
UTILITY GAS.	14 725	4 466	4 841	1 903	1 480	1 889		145
BOTTLED, TANK, OR LP GAS.	709	493	80	12	8	18		99
FUEL OIL.	3 430	276	982	467	353	1 348		5
KEROSENE, ETC.	10	6	4	-	-	-		1
ELECTRICITY.	7 339	2 614	1 468	902	812	1 164		378
COAL OR COKE.	33	6	-	-	11	10		-
WOOD.	11	11	5	-	-	-		-
SOLAR HEAT.	3	2	-	-	-	2		-
OTHER FUEL.	121	5	5	11	10	91		-
NONE.	20	11	4	2	1	2		-
NOT REPORTED.	-	-	-	-	-	-		-
COOKING FUEL								
OWNER OCCUPIED.	50 283	43 997	2 317	292	162	483		3 032
UTILITY GAS.	18 290	15 435	1 434	129	55	192		1 044
BOTTLED, TANK, OR LP GAS.	3 903	2 730	46	1	3	-		1 122
FUEL OIL.	62	56	5	-	-	-		1
KEROSENE, ETC.	14	14	-	-	-	-		-
ELECTRICITY.	27 839	25 597	828	162	104	288		859
COAL OR COKE.	22	22	-	-	-	-		-
WOOD.	133	129	2	-	-	-		2
OTHER FUEL.	6	3	-	-	-	-		3
NONE.	15	11	2	-	-	-		1
RENTER OCCUPIED.	26 884	8 297	7 426	3 302	2 691	4 530		639
UTILITY GAS.	14 286	3 742	4 699	1 867	1 295	2 464		220
BOTTLED, TANK, OR LP GAS.	1 322	630	163	34	8	7		280
FUEL OIL.	21	7	5	3	-	5		-
KEROSENE, ETC.	10	7	3	-	-	-		-
ELECTRICITY.	10 940	3 620	2 519	1 371	1 349	1 942		140
COAL OR COKE.	4	4	-	-	-	-		-
WOOD.	58	54	3	-	-	2		-
OTHER FUEL.	22	5	6	-	3	7		-
NONE.	221	28	28	26	36	104		-

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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					MOBILE HOME OR TRAILER		
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE			
ALL OCCUPIED HOUSING UNITS--CONTINUED									
MONTHLY COST PAID FOR ELECTRICITY									
SPECIFIED OWNER OCCUPIED ¹	40 054	40 054	NA	NA	NA	NA	NA		
LESS THAN \$10	707	707	NA	NA	NA	NA	NA		
\$10 TO \$19.	5 980	5 980	NA	NA	NA	NA	NA		
\$20 TO \$29.	9 222	9 222	NA	NA	NA	NA	NA		
\$30 TO \$39.	8 071	8 071	NA	NA	NA	NA	NA		
\$40 TO \$49.	5 036	5 036	NA	NA	NA	NA	NA		
\$50 TO \$59.	3 917	3 917	NA	NA	NA	NA	NA		
\$60 TO \$79.	3 972	3 972	NA	NA	NA	NA	NA		
\$80 TO \$99.	1 518	1 518	NA	NA	NA	NA	NA		
\$100 TO \$149.	1 290	1 290	NA	NA	NA	NA	NA		
\$150 OR MORE.	316	316	NA	NA	NA	NA	NA		
NO ELECTRICITY USED OR NOT REPORTED	26	26	NA	NA	NA	NA	NA		
MEDIAN.	35	35	NA	NA	NA	NA	NA		
SPECIFIED RENTER OCCUPIED ²	26 247	7 660	7 426	3 302	2 691	4 530	639		
LESS THAN \$10	2 510	437	908	398	332	404	30		
\$10 TO \$19.	6 877	1 903	2 303	768	737	1 047	119		
\$20 TO \$29.	4 988	1 813	1 421	544	408	666	137		
\$30 TO \$39.	2 867	1 193	758	285	238	295	98		
\$40 TO \$49.	1 402	576	357	143	140	146	40		
\$50 TO \$59.	874	404	181	101	69	86	32		
\$60 TO \$79.	707	392	131	52	54	49	31		
\$80 TO \$99.	189	110	23	17	10	16	13		
\$100 TO \$149.	151	89	19	12	8	8	16		
\$150 OR MORE.	44	24	15	2	2	-	1		
INCLUDED IN RENT.	5 562	702	1 288	972	686	1 795	119		
NO ELECTRICITY USED OR NOT REPORTED	75	17	21	10	6	17	3		
MEDIAN.	22	26	18	19	18	18	27		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹	40 054	40 054	NA	NA	NA	NA	NA		
LESS THAN \$10	2 867	2 867	NA	NA	NA	NA	NA		
\$10 TO \$14.	3 098	3 098	NA	NA	NA	NA	NA		
\$15 TO \$19.	3 049	3 049	NA	NA	NA	NA	NA		
\$20 TO \$24.	3 293	3 293	NA	NA	NA	NA	NA		
\$25 TO \$29.	2 961	2 961	NA	NA	NA	NA	NA		
\$30 TO \$39.	5 851	5 851	NA	NA	NA	NA	NA		
\$40 TO \$49.	3 853	3 853	NA	NA	NA	NA	NA		
\$50 TO \$69.	3 474	3 474	NA	NA	NA	NA	NA		
\$70 TO \$99.	993	993	NA	NA	NA	NA	NA		
\$100 OR MORE.	369	369	NA	NA	NA	NA	NA		
NO GAS USED OR NOT REPORTED	10 246	10 246	NA	NA	NA	NA	NA		
MEDIAN.	29	29	NA	NA	NA	NA	NA		
SPECIFIED RENTER OCCUPIED ²	26 247	7 660	7 426	3 302	2 691	4 530	639		
LESS THAN \$10	4 321	915	1 459	629	449	743	126		
\$10 TO \$14.	2 277	873	794	223	133	217	37		
\$15 TO \$19.	1 565	710	507	131	51	99	66		
\$20 TO \$24.	1 098	583	353	58	30	31	43		
\$25 TO \$29.	899	464	335	32	15	26	27		
\$30 TO \$39.	1 378	788	461	53	21	8	47		
\$40 TO \$49.	710	406	233	36	9	4	21		
\$50 TO \$69.	613	371	198	14	5	2	24		
\$70 TO \$99.	199	124	62	9	-	3	2		
\$100 OR MORE.	90	61	24	2	-	-	4		
INCLUDED IN RENT.	7 715	930	1 797	1 358	1 208	2 278	144		
NO GAS USED OR NOT REPORTED	5 383	1 435	1 203	757	769	1 119	99		
MEDIAN.	14	21	14	10-	10-	10-	17		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹	40 054	40 054	NA	NA	NA	NA	NA		
LESS THAN \$100.	1 425	1 425	NA	NA	NA	NA	NA		
\$100 TO \$199.	792	792	NA	NA	NA	NA	NA		
\$200 TO \$299.	953	953	NA	NA	NA	NA	NA		
\$300 TO \$399.	1 317	1 317	NA	NA	NA	NA	NA		
\$400 TO \$499.	1 262	1 262	NA	NA	NA	NA	NA		
\$500 TO \$599.	1 115	1 115	NA	NA	NA	NA	NA		
\$600 TO \$699.	947	947	NA	NA	NA	NA	NA		
\$700 TO \$799.	677	677	NA	NA	NA	NA	NA		
\$800 OR MORE.	1 277	1 277	NA	NA	NA	NA	NA		
FUELS NOT USED, FREE, OR NOT REPORTED	30 288	30 288	NA	NA	NA	NA	NA		
MEDIAN.	431	431	NA	NA	NA	NA	NA		

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS¹ 1978--CONTINUED
 (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								
LESS THAN \$100.	26 247	7 660	7 426	3 302	2 691	4 530	639	
\$100 TO \$199.	291	199	56	7	10	13	7	
\$200 TO \$299.	261	199	30	4	2	1	25	
\$300 TO \$399.	289	198	55	2	-	-	33	
\$400 TO \$499.	356	249	68	3	2	2	32	
\$500 TO \$599.	248	168	65	2	-	-	14	
\$600 TO \$699.	176	125	43	2	-	-	6	
\$700 TO \$799.	169	121	44	1	-	-	4	
\$800 OR MORE.	97	66	29	-	-	-	1	
INCLUDED IN RENT.	161	117	41	1	-	-	1	
FUELS NOT USED, FREE, OR NOT REPORTED	4 975	481	1 540	729	562	1 652	51	
MEDIAN.	19 223	5 777	5 454	2 551	2 116	2 861	464	
	351	349	411	---	---	---	290	
ALL OCCUPIED HOUSING UNITS.	77 167	52 294	9 743	3 594	2 853	5 012	3 671	
HEATING EQUIPMENT								
OWNER OCCUPIED								
WARM-AIR FURNACE.	50 283	43 997	2 317	292	162	483	3 032	
HEAT PUMP.	30 271	26 353	910	136	60	182	2 630	
STEAM OR HOT WATER.	899	850	18	8	1	15	7	
BUILT-IN ELECTRIC UNITS	6 900	5 619	970	70	54	176	11	
FLOOR, WALL, OR PIPELESS FURNACE.	3 106	2 722	117	52	34	81	100	
ROOM HEATERS WITH FLUE.	3 333	3 139	77	5	10	3	99	
ROOM HEATERS WITHOUT FLUE	2 323	2 100	134	13	-	-	75	
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 766	1 686	45	4	-	-	31	
NONE.	1 463	1 353	38	4	2	2	64	
	222	174	7	2	2	23	15	
RENTER OCCUPIED								
WARM-AIR FURNACE.	26 884	8 297	7 426	3 302	2 691	4 530	639	
HEAT PUMP.	9 575	3 181	2 503	1 207	1 045	1 148	491	
STEAM OR HOT WATER.	228	39	53	32	36	65	2	
BUILT-IN ELECTRIC UNITS	7 025	521	2 173	1 067	672	2 389	2	
FLOOR, WALL, OR PIPELESS FURNACE.	2 493	435	607	394	414	610	33	
ROOM HEATERS WITH FLUE.	2 840	1 291	793	320	215	192	29	
ROOM HEATERS WITHOUT FLUE	2 154	1 090	747	187	57	42	32	
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 384	947	350	44	15	4	24	
NONE.	811	632	120	17	9	13	20	
	375	160	79	34	27	67	7	
THERMOSTAT CONTROLLED HEATING EQUIPMENT								
OWNER OCCUPIED								
NO HEATING EQUIPMENT.	50 283	43 997	2 317	292	162	483	3 032	
WITH HEATING EQUIPMENT.	222	174	7	2	2	23	15	
NO THERMOSTAT CONTROL	50 061	43 823	2 310	290	160	460	3 017	
WITH THERMOSTAT CONTROL	5 658	4 921	322	57	40	186	132	
NOT CLOCK OPERATED	44 256	38 770	1 983	230	120	274	2 879	
CONSTANT TEMPERATURE SETTING MAINTAINED	38 310	33 769	1 577	192	104	217	2 451	
TEMPERATURE SETTING IS CHANGED	11 536	10 142	532	59	34	50	720	
OCCASIONALLY	26 597	23 479	1 036	130	69	162	1 721	
REGULARLY	7 038	6 173	350	47	25	55	388	
DON'T KNOW	19 282	17 074	660	82	42	104	1 319	
NOT REPORTED	239	201	25	-	2	2	10	
NOT REPORTED	38	31	2	1	-	-	3	
CLOCK OPERATED	177	148	9	3	1	5	10	
NOT REPORTED	5 741	4 825	402	38	16	57	402	
NOT REPORTED	206	176	4	-	-	-	26	
NOT REPORTED	146	132	5	3	-	-	6	
RENTER OCCUPIED								
NO HEATING EQUIPMENT.	26 884	8 297	7 426	3 302	2 691	4 530	639	
WITH HEATING EQUIPMENT.	375	160	79	34	27	67	7	
NO THERMOSTAT CONTROL	26 509	8 136	7 347	3 268	2 664	4 463	632	
WITH THERMOSTAT CONTROL	10 160	2 801	2 924	1 245	822	2 298	71	
NOT CLOCK OPERATED	16 284	5 310	4 412	2 013	1 833	2 155	560	
CONSTANT TEMPERATURE SETTING MAINTAINED	14 276	4 691	3 845	1 761	1 633	1 880	465	
TEMPERATURE SETTING IS CHANGED	4 659	1 486	1 179	614	560	664	157	
OCCASIONALLY	9 469	3 157	2 623	1 137	1 062	1 187	304	
REGULARLY	3 010	846	869	373	382	460	80	
DON'T KNOW	6 286	2 249	1 707	739	669	702	219	
NOT REPORTED	162	53	46	24	11	23	4	
NOT REPORTED	12	8	-	2	-	2	1	
CLOCK OPERATED	1 905	580	544	237	186	265	93	
NOT REPORTED	103	39	23	15	14	10	2	
NOT REPORTED	65	25	11	9	9	9	1	

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

TABLE A-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
 (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						MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE		
ALL OCCUPIED HOUSING UNITS	77 167	52 294	9 743	3 594	2 853	5 012	3 671	
UNITS OCCUPIED LAST WINTER	63 219	45 890	7 073	2 255	1 740	3 520	2 742	
INSUFFICIENT HEAT								
CLOSURE OF ROOMS:								
OWNER OCCUPIED	45 520	40 213	2 083	227	117	401	2 479	
WITH HEATING EQUIPMENT	45 315	40 056	2 075	225	115	379	2 464	
NO ROOMS CLOSED	43 013	37 951	1 983	218	113	362	2 386	
CLOSED CERTAIN ROOMS	1 886	1 764	68	4	3	5	42	
LIVING ROOM ONLY	78	75	2	-	-	-	1	
DINING ROOM ONLY	35	29	3	-	-	2	1	
1 OR MORE BEDROOMS ONLY	1 232	1 152	40	4	3	2	32	
OTHER ROOMS OR COMBINATION OF ROOMS	514	480	23	-	-	2	9	
NOT REPORTED	28	28	-	-	-	-	-	
NOT REPORTED	416	341	24	3	-	12	36	
NO HEATING EQUIPMENT	206	157	7	2	2	23	15	
RENTER OCCUPIED	17 698	5 677	4 990	2 027	1 623	3 119	263	
WITH HEATING EQUIPMENT	17 473	5 585	4 941	2 003	1 603	3 079	261	
NO ROOMS CLOSED	16 014	4 860	4 518	1 884	1 544	2 958	251	
CLOSED CERTAIN ROOMS	1 223	655	338	90	42	88	8	
LIVING ROOM ONLY	84	20	43	15	4	2	1	
DINING ROOM ONLY	17	9	8	1	-	-	-	
1 OR MORE BEDROOMS ONLY	837	473	199	57	31	69	8	
OTHER ROOMS OR COMBINATION OF ROOMS	276	153	84	16	7	16	-	
NOT REPORTED	8	1	4	2	-	1	-	
NOT REPORTED	236	71	85	29	17	33	2	
NO HEATING EQUIPMENT	225	91	49	24	20	39	2	
ADDITIONAL HEAT SOURCE:								
OWNER OCCUPIED	45 520	40 213	2 083	227	117	401	2 479	
WITH SPECIFIED HEATING EQUIPMENT ¹	42 258	37 171	1 996	218	113	377	2 383	
NO ADDITIONAL HEAT SOURCE USED	38 954	34 260	1 858	198	103	329	2 205	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE								
HEATER	2 972	2 646	115	18	10	37	146	
NOT REPORTED	333	264	24	2	-	10	33	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 262	3 043	86	9	3	24	96	
RENTER OCCUPIED	17 698	5 677	4 990	2 027	1 623	3 119	263	
WITH SPECIFIED HEATING EQUIPMENT ¹	15 896	4 402	4 634	1 961	1 593	3 067	239	
NO ADDITIONAL HEAT SOURCE USED	13 566	3 767	3 942	1 681	1 388	2 574	215	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE								
HEATER	2 148	588	635	251	188	464	22	
NOT REPORTED	181	47	57	29	17	29	2	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 803	1 275	356	66	30	51	24	
ROOMS LACKING SPECIFIED HEAT SOURCE:								
OWNER OCCUPIED	45 520	40 213	2 083	227	117	401	2 479	
WITH SPECIFIED HEATING EQUIPMENT ¹	42 258	37 171	1 996	218	113	377	2 383	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS								
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	33 445	28 971	1 614	196	99	346	2 221	
1 ROOM	8 345	7 830	353	21	13	19	109	
2 ROOMS	2 468	2 257	131	7	3	10	60	
3 ROOMS OR MORE	2 157	2 011	103	10	5	3	26	
NOT REPORTED	3 719	3 563	119	4	5	5	24	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 262	3 043	86	9	3	24	96	
RENTER OCCUPIED	17 698	5 677	4 990	2 027	1 623	3 119	263	
WITH SPECIFIED HEATING EQUIPMENT ¹	15 896	4 402	4 634	1 961	1 593	3 067	239	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS								
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	11 727	2 504	3 296	1 546	1 345	2 816	220	
1 ROOM	3 904	1 832	1 248	375	222	210	17	
2 ROOMS	1 305	429	466	158	123	121	8	
3 ROOMS OR MORE	1 268	603	424	115	65	56	5	
NOT REPORTED	1 331	799	358	102	34	34	4	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 803	1 275	356	66	30	51	24	

¹EXCLUDES 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: 1978--CONTINUED
 (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.	77 167	52 294	9 743	3 594	2 853	5 012	3 671
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED.	50 283	43 997	2 317	292	162	483	3 032
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 685	1 527	45	5	3	24	79
WITH SELECTED HEATING EQUIPMENT ¹	48 598	42 469	2 271	287	159	458	2 953
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	45 963	40 047	2 205	275	156	454	2 825
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	2 365	2 173	60	10	2	5	115
SOLAR HEATING EQUIPMENT.	11	8	2	-	-	2	-
STOVE, BURNING WOOD OR COAL.	895	861	10	-	-	-	25
FIREPLACE, BURNING WOOD OR COAL.	312	292	5	3	-	-	12
PORTABLE ELECTRIC HEATER.	585	499	21	5	2	5	54
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	128	116	2	-	-	-	10
OTHER.	398	371	17	2	-	-	9
NOT REPORTED.	45	37	4	-	-	-	4
NOT REPORTED.	270	249	7	2	-	-	13
RENTER OCCUPIED.	26 884	8 297	7 426	3 302	2 691	4 530	639
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 185	792	199	51	36	80	27
WITH SELECTED HEATING EQUIPMENT ¹	25 698	7 505	7 227	3 250	2 655	4 450	612
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	24 604	7 112	6 939	3 120	2 576	4 274	584
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	929	346	242	100	63	154	25
SOLAR HEATING EQUIPMENT.	1	1	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	81	72	7	-	-	-	2
FIREPLACE, BURNING WOOD OR COAL.	18	12	2	-	-	2	3
PORTABLE ELECTRIC HEATER.	643	174	183	88	47	135	16
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	83	54	17	5	2	3	2
OTHER.	95	35	27	6	12	14	1
NOT REPORTED.	16	3	7	2	3	2	-
NOT REPORTED.	165	47	46	30	15	22	4
AIR CONDITIONING							
OWNER OCCUPIED.	50 283	43 997	2 317	292	162	483	3 032
WITH AIR CONDITIONING.	29 231	25 455	1 201	188	118	397	1 872
ROOM UNITS.	15 320	13 252	897	63	60	156	891
1.	9 285	7 859	538	44	31	83	730
2.	4 329	3 838	266	16	19	44	146
3.	1 212	1 099	65	-	10	27	11
4.	352	325	22	3	-	-	2
5 OR MORE.	140	132	6	-	-	2	1
CENTRAL SYSTEM.	13 911	12 203	304	125	58	240	981
WITH NO AIR CONDITIONING.	21 052	18 542	1 116	104	44	86	1 160
RENTER OCCUPIED.	26 884	8 297	7 426	3 302	2 691	4 530	639
WITH AIR CONDITIONING.	12 053	3 115	2 749	1 624	1 683	2 548	334
ROOM UNITS.	7 474	2 260	1 988	804	787	1 420	216
1.	5 730	1 643	1 560	659	662	1 036	170
2.	1 470	502	376	119	103	324	45
3.	224	89	46	20	18	51	1
4.	38	20	2	5	3	7	1
5 OR MORE.	12	5	3	2	-	2	-
CENTRAL SYSTEM.	4 579	855	761	820	897	1 129	118
WITH NO AIR CONDITIONING.	14 831	5 182	4 677	1 678	1 008	1 982	305

¹EXCLUDES 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: 1978

(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.	77 167	1 141	2 077	7 779	15 089	18 553	15 874	16 653	5.2
HOUSE HEATING FUEL									
OWNER OCCUPIED.	50 283	108	304	1 293	6 433	13 466	13 402	15 277	5.8
UTILITY GAS.	28 187	41	103	534	3 331	7 634	7 893	8 651	5.8
BOTTLED, TANK, OR LP GAS.	3 196	18	59	204	692	981	680	562	5.1
FUEL OIL.	9 980	10	47	229	1 126	2 329	2 678	3 559	6.0
KEROSENE, ETC.	281	-	2	20	90	89	47	34	4.8
ELECTRICITY.	7 450	30	61	235	965	2 099	1 837	2 222	5.7
COAL OR COKE.	251	-	4	6	34	61	80	66	5.8
WOOD.	696	6	14	45	144	213	146	127	5.1
SOLAR HEAT.	3	-	-	-	-	-	2	1	...
OTHER FUEL.	18	-	2	-	3	2	3	8	...
NONE.	222	2	13	19	49	58	35	47	5.0
RENTER OCCUPIED	26 884	1 034	1 773	6 486	8 655	5 088	2 473	1 376	4.0
UTILITY GAS.	14 334	419	899	3 324	4 663	2 933	1 417	679	4.0
BOTTLED, TANK, OR LP GAS.	934	15	24	132	289	227	141	106	4.5
FUEL OIL.	5 669	272	363	1 436	1 610	1 056	540	391	4.0
KEROSENE, ETC.	143	1	7	19	42	34	29	11	4.6
ELECTRICITY.	4 808	209	392	1 376	1 778	665	251	137	3.7
COAL OR COKE.	151	4	18	24	44	29	18	14	4.2
WOOD.	370	9	14	52	127	81	56	31	4.4
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	101	55	7	17	14	7	-	1	1.5-
NONE.	375	50	49	106	87	56	21	6	3.3
WATER HEATING FUEL									
OWNER OCCUPIED.	50 283	108	304	1 293	6 433	13 466	13 402	15 277	5.8
NO HOT PIPED WATER.	444	11	25	65	132	101	67	44	4.4
WITH HOT PIPED WATER.	49 837	97	280	1 226	6 302	13 365	13 334	15 233	5.8
FUEL USED:									
UTILITY GAS.	26 743	43	97	465	3 011	7 178	7 622	8 328	5.8
BOTTLED, TANK, OR LP GAS.	2 420	13	38	122	471	759	554	463	5.2
FUEL OIL.	3 572	3	24	105	317	697	961	1 466	6.2
KEROSENE, ETC.	27	-	2	-	3	6	4	12	...
ELECTRICITY.	16 956	33	117	528	2 486	4 702	4 156	4 932	5.6
COAL OR COKE.	35	-	-	-	4	6	17	8	5.9
WOOD.	35	1	1	4	2	4	11	12	6.0
SOLAR HEAT.	14	-	-	-	4	1	3	7	...
OTHER FUEL.	17	2	-	-	2	7	3	4	...
NONE.	17	2	1	2	3	5	2	2	...
NOT REPORTED.	2	-	-	2	-	-	1	-	...
RENTER OCCUPIED	26 884	1 034	1 773	6 486	8 655	5 088	2 473	1 376	4.0
NO HOT PIPED WATER.	482	42	40	93	169	69	49	21	3.9
WITH HOT PIPED WATER.	26 402	992	1 733	6 393	8 487	5 018	2 424	1 355	4.0
FUEL USED:									
UTILITY GAS	14 725	448	987	3 501	4 713	2 977	1 437	662	4.0
BOTTLED, TANK, OR LP GAS.	709	19	15	86	216	188	106	80	4.6
FUEL OIL.	3 430	212	277	1 029	1 066	535	204	108	3.7
KEROSENE, ETC.	10	-	1	-	2	2	3	2	...
ELECTRICITY.	7 339	249	435	1 742	2 459	1 296	666	492	4.0
COAL OR COKE.	33	3	7	4	3	8	4	3	...
WOOD.	11	-	-	2	5	2	1	2	...
SOLAR HEAT.	3	-	-	-	2	2	-	-	...
OTHER FUEL.	121	57	12	21	17	6	1	5	1.8
NONE.	20	4	-	7	5	2	1	1	...
NOT REPORTED.	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED.	50 283	108	304	1 293	6 433	13 466	13 402	15 277	5.8
UTILITY GAS	18 290	24	89	522	2 707	5 280	5 159	4 509	5.6
BOTTLED, TANK, OR LP GAS.	3 903	22	88	290	949	1 134	759	662	5.0
FUEL OIL.	62	1	-	1	9	13	17	21	5.9
KEROSENE, ETC.	14	-	-	3	1	6	4	4	...
ELECTRICITY.	27 839	57	122	468	2 731	6 995	7 426	10 041	6.0
COAL OR COKE.	22	1	-	-	1	6	7	8	...
WOOD.	133	1	3	11	31	32	24	30	5.1
OTHER FUEL.	6	-	2	-	1	1	2	2	...
NONE.	15	3	1	2	2	4	3	-	...
RENTER OCCUPIED	26 884	1 034	1 773	6 486	8 655	5 088	2 473	1 376	4.0
UTILITY GAS	14 286	380	1 067	3 629	4 590	2 843	1 274	503	3.9
BOTTLED, TANK, OR LP GAS.	1 322	20	45	223	454	294	152	133	4.3
FUEL OIL.	21	-	1	7	8	3	2	2	...
KEROSENE, ETC.	10	-	-	1	3	-	-	-	...
ELECTRICITY.	10 940	442	642	2 603	3 561	1 930	1 032	731	4.0
COAL OR COKE.	4	-	-	-	3	-	-	1	...
WOOD.	58	1	4	9	21	11	7	5	4.2
OTHER FUEL.	22	2	5	7	6	2	-	1	...
NONE.	221	189	9	7	12	2	3	-	1.5-

TABLE A-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$10	40 054	47	128	437	3 639	10 711	11 625	13 467	5.9
\$10 TO \$19.	707	2	11	51	173	206	157	107	5.1
\$20 TO \$29.	5 980	6	24	173	987	1 934	1 640	1 215	5.4
\$30 TO \$39.	9 222	11	30	106	1 046	2 781	2 764	2 485	5.7
\$40 TO \$49.	8 071	13	27	45	648	2 127	2 451	2 760	6.0
\$50 TO \$59.	5 036	4	20	29	323	1 283	1 508	1 869	6.1
\$60 TO \$79.	3 917	7	5	13	224	977	1 119	1 571	6.1
\$80 TO \$99.	3 972	1	7	10	145	894	1 185	1 730	6.3
\$100 TO \$149.	1 518	1	2	4	45	284	443	740	6.4
\$150 OR MORE.	1 290	-	1	2	32	187	293	774	6.5+
NO ELECTRICITY USED OR NOT REPORTED	316	-	2	2	10	32	60	211	6.5+
MEDIAN.	26	3	-	1	6	5	6	4	...
	35	32	29	19	26	32	35	41	...
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	26 247	1 028	1 764	6 460	8 534	4 940	2 322	1 199	3.9
\$10 TO \$19.	2 510	54	302	970	811	265	85	24	3.4
\$20 TO \$29.	6 877	105	368	1 958	2 479	1 299	465	204	3.9
\$30 TO \$39.	4 988	33	200	1 014	1 759	1 164	594	224	4.2
\$40 TO \$49.	2 867	16	74	487	981	684	424	202	4.4
\$50 TO \$59.	1 402	9	33	218	482	347	196	116	4.4
\$60 TO \$79.	874	5	11	124	300	234	109	91	4.5
\$80 TO \$99.	707	2	8	67	209	201	122	98	4.8
\$100 TO \$149.	189	-	-	12	65	47	31	33	4.9
\$150 OR MORE.	151	1	2	12	29	40	34	33	5.3
INCLUDED IN RENT.	44	-	-	4	10	13	5	12	5.0
NO ELECTRICITY USED OR NOT REPORTED	5 562	788	751	1 583	1 383	640	258	159	3.3
MEDIAN.	75	15	14	11	25	7	-	3	3.3
	22	15	15	17	21	25	27	33	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$10	40 054	47	128	437	3 639	10 711	11 625	13 467	5.9
\$10 TO \$14.	2 867	3	17	79	418	802	832	714	5.6
\$15 TO \$19.	3 098	4	9	55	375	1 017	879	760	5.6
\$20 TO \$24.	3 049	3	16	51	376	939	872	793	5.7
\$25 TO \$29.	3 293	1	8	35	381	968	974	927	5.8
\$30 TO \$39.	2 961	8	17	28	329	883	883	813	5.7
\$40 TO \$49.	5 851	4	12	57	462	1 639	1 881	1 794	5.9
\$50 TO \$69.	3 853	5	9	13	242	875	1 191	1 517	6.1
\$70 TO \$99.	3 474	5	4	16	148	614	928	1 759	6.5+
\$100 OR MORE.	993	-	1	5	30	158	267	533	6.5+
NO GAS USED OR NOT REPORTED	369	-	-	3	16	52	57	241	6.5+
MEDIAN.	10 246	14	35	95	861	2 764	2 861	3 616	6.0
	29	...	22	18	22	26	29	35	...
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	26 247	1 028	1 764	6 460	8 534	4 940	2 322	1 199	3.9
\$10 TO \$14.	4 321	83	330	1 394	1 479	656	282	97	3.7
\$15 TO \$19.	2 277	15	85	495	851	494	233	105	4.1
\$20 TO \$24.	1 565	15	39	323	562	401	150	76	4.2
\$25 TO \$29.	1 098	-	10	170	377	297	191	53	4.5
\$30 TO \$39.	899	2	12	133	291	266	123	72	4.5
\$40 TO \$49.	1 378	-	20	145	450	410	237	116	4.7
\$50 TO \$69.	710	3	6	65	166	226	167	77	5.0
\$70 TO \$99.	613	-	2	39	134	205	140	92	5.1
\$100 OR MORE.	199	-	1	4	45	63	44	41	5.3
INCLUDED IN RENT.	90	-	-	5	22	20	16	27	5.4
NO GAS USED OR NOT REPORTED	7 715	626	892	2 289	2 323	1 038	351	195	3.5
MEDIAN.	5 383	284	367	1 397	1 832	865	388	250	3.8
	14	10-	10-	10-	13	19	23	28	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$100.	40 054	47	128	437	3 639	10 711	11 625	13 467	5.9
\$100 TO \$199.	1 425	-	7	15	121	278	376	628	6.3
\$200 TO \$299.	792	2	8	11	98	195	208	271	5.9
\$300 TO \$399.	953	2	-	15	145	288	281	222	5.6
\$400 TO \$499.	1 317	2	1	20	154	431	371	339	5.6
\$500 TO \$599.	1 262	1	7	17	129	307	409	392	5.9
\$600 TO \$699.	1 115	1	3	7	68	259	347	430	6.1
\$700 TO \$799.	947	-	2	6	45	173	310	412	6.3
\$800 OR MORE.	677	1	2	-	34	103	201	337	6.5
FUELS NOT USED, FREE, OR NOT REPORTED	1 277	-	-	2	23	135	324	793	6.5+
MEDIAN.	30 288	39	99	343	2 821	8 543	8 800	9 642	5.9
	431	...	...	330	329	374	443	514	...

¹LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.²EXCLUDES 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: 1978--CONTINUED

(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 OCCUPIED¹									
LESS THAN \$100.	26 247	1 028	1 764	6 460	8 534	4 940	2 322	1 199	3.9
\$100 TO \$199.	291	6	14	48	77	63	38	44	4.5
\$200 TO \$299.	261	2	4	40	89	68	39	19	4.4
\$300 TO \$399.	289	-	7	44	107	62	43	25	4.4
\$400 TO \$499.	356	-	4	26	89	106	78	54	5.1
\$500 TO \$599.	248	2	3	13	53	84	59	35	5.1
\$600 TO \$699.	176	2	-	5	35	54	50	30	5.3
\$700 TO \$799.	169	-	1	13	29	41	51	33	5.5
\$800 OR MORE.	97	-	-	2	19	28	27	21	5.5
INCLUDED IN RENT.	161	-	-	3	17	47	42	52	5.8
FUELS NOT USED, FREE, OR NOT REPORTED	4 975	324	431	1 528	1 479	820	298	95	3.6
MEDIAN.	19 223	693	1 300	4 737	6 538	3 567	1 599	789	3.9
	351	---	---	220	284	378	425	442	---
ALL OCCUPIED HOUSING UNITS									
HEATING EQUIPMENT									
OWNER OCCUPIED									
WARM-AIR FURNACE.	50 283	108	304	1 293	6 433	13 466	13 402	15 277	5.8
HEAT PUMP.	30 271	38	127	560	3 476	7 960	8 256	9 854	5.9
STEAM OR HOT WATER.	899	-	5	9	159	180	240	406	6.3
BUILT-IN ELECTRIC UNITS	6 900	11	26	159	548	1 298	1 976	2 882	6.2
FLOOR, WALL, OR PIPELESS FURNACE.	3 106	18	28	120	401	964	760	815	5.5
ROOM HEATERS WITH FLUE.	3 333	7	23	99	677	1 237	847	444	5.2
ROOM HEATERS WITHOUT FLUE	2 323	12	28	151	504	726	550	351	5.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 766	8	19	91	422	593	409	225	5.1
NONE.	1 463	12	36	84	298	450	328	254	5.2
	222	2	13	19	49	58	35	47	5.0
RENTER OCCUPIED									
WARM-AIR FURNACE.	26 884	1 034	1 773	6 486	8 655	5 088	2 473	1 376	4.0
HEAT PUMP.	9 575	125	365	1 888	3 158	2 143	1 164	732	4.3
STEAM OR HOT WATER.	228	9	20	62	78	35	10	14	3.8
BUILT-IN ELECTRIC UNITS	7 025	521	617	1 996	2 053	1 113	470	256	3.7
FLOOR, WALL, OR PIPELESS FURNACE.	2 493	162	267	742	877	287	101	57	3.6
ROOM HEATERS WITH FLUE.	2 840	50	188	771	1 042	513	199	77	3.9
ROOM HEATERS WITHOUT FLUE	2 154	44	139	438	690	483	240	121	4.2
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 384	42	76	345	401	289	170	61	4.1
NONE.	811	30	51	139	270	169	99	53	4.2
	375	50	49	106	87	56	21	6	3.3
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED									
NO HEATING EQUIPMENT.	50 283	108	304	1 293	6 433	13 466	13 402	15 277	5.8
WITH HEATING EQUIPMENT.	222	2	13	19	49	58	35	47	5.0
NO THERMOSTAT CONTROL	50 061	106	292	1 274	6 385	13 408	13 366	15 230	5.8
WITH THERMOSTAT CONTROL	5 658	38	88	394	1 220	1 828	1 255	836	5.1
NOT CLOCK OPERATED	44 256	66	201	877	5 143	11 535	12 070	14 363	5.8
CONSTANT TEMPERATURE SETTING MAINTAINED	38 310	53	174	749	4 454	9 972	10 413	12 494	5.9
TEMPERATURE SETTING IS CHANGED	11 536	11	49	242	1 409	3 207	3 236	3 382	5.8
OCCASIONALLY.	26 597	43	123	498	3 021	6 723	7 126	9 063	5.9
REGULARLY.	7 038	8	19	138	745	1 778	2 011	2 339	5.9
DON'T KNOW.	19 282	35	104	352	2 233	4 872	5 046	6 640	5.9
NOT REPORTED.	239	-	-	5	37	66	53	77	5.7
NOT REPORTED.	38	-	-	2	6	6	17	7	5.8
CLOCK OPERATED.	177	-	2	10	24	42	51	49	5.7
NOT REPORTED.	5 741	13	25	123	658	1 493	1 615	1 813	5.8
NOT REPORTED.	206	-	2	5	31	71	42	56	5.4
NOT REPORTED.	146	2	3	3	21	45	42	31	5.5
RENTER OCCUPIED									
NO HEATING EQUIPMENT.	26 884	1 034	1 773	6 486	8 655	5 088	2 473	1 376	4.0
WITH HEATING EQUIPMENT.	375	50	49	106	87	56	21	6	3.3
NO THERMOSTAT CONTROL	26 509	984	1 724	6 379	8 569	5 032	2 452	1 370	4.0
WITH THERMOSTAT CONTROL	10 160	657	1 048	2 870	3 038	1 580	714	253	3.7
NOT CLOCK OPERATED	16 284	324	667	3 495	5 514	3 442	1 730	1 112	4.2
CONSTANT TEMPERATURE SETTING MAINTAINED	14 276	293	613	3 066	4 819	2 994	1 509	981	4.1
TEMPERATURE SETTING IS CHANGED.	4 659	107	237	1 069	1 510	974	453	309	4.1
OCCASIONALLY.	9 469	184	371	1 981	3 259	1 993	1 039	663	4.2
REGULARLY.	3 010	49	118	684	1 072	608	293	186	4.1
DON'T KNOW.	6 286	126	247	1 240	2 124	1 354	727	467	4.2
NOT REPORTED.	162	8	7	36	55	28	17	11	4.0
NOT REPORTED.	12	-	-	2	7	1	2	-	..
CLOCK OPERATED.	148	3	4	36	50	28	18	9	4.1
NOT REPORTED.	1 905	50	49	402	668	417	209	128	4.2
NOT REPORTED.	103	-	5	27	28	30	11	2	4.2
NOT REPORTED.	65	3	9	14	16	10	7	5	3.9

¹EXCLUDES 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: 1978--CONTINUED

(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.	77 167	1 141	2 077	7 779	15 089	18 553	15 874	16 653	5.2
UNITS OCCUPIED LAST WINTER.	63 219	689	1 297	5 365	11 357	15 689	14 065	14 756	5.3
INSUFFICIENT HEAT									
CLOSURE OF ROOMS:									
OWNER OCCUPIED.	45 520	80	253	1 089	5 667	12 282	12 337	13 812	5.8
WITH HEATING EQUIPMENT.	45 315	79	244	1 070	5 622	12 231	12 304	13 766	5.8
NO ROOMS CLOSED.	43 013	77	236	1 014	5 294	11 587	11 678	13 127	5.8
CLOSED CERTAIN ROOMS.	1 886	-	5	42	250	521	519	549	5.7
LIVING ROOM ONLY.	78	-	1	4	7	17	24	25	5.9
DINING ROOM ONLY.	35	-	-	3	5	5	11	12	..
1 OR MORE BEDROOMS ONLY.	1 232	-	2	27	194	375	340	293	5.5
OTHER ROOMS OR COMBINATION OF ROOMS	514	-	2	8	41	114	138	211	6.2
NOT REPORTED.	28	-	-	-	3	10	6	8	..
NOT REPORTED.	416	2	2	14	78	122	107	90	5.4
NO HEATING EQUIPMENT.	206	1	10	19	45	52	34	46	5.0
RENTER OCCUPIED	17 698	609	1 044	4 277	5 690	3 406	1 728	945	4.0
WITH HEATING EQUIPMENT.	17 473	578	1 027	4 210	5 635	3 367	1 715	941	4.0
NO ROOMS CLOSED.	16 014	571	997	3 998	5 160	2 999	1 486	803	4.0
CLOSED CERTAIN ROOMS.	1 223	5	13	151	383	334	215	121	4.7
LIVING ROOM ONLY.	84	3	-	21	29	20	7	3	4.1
DINING ROOM ONLY.	17	-	-	5	4	2	4	2	..
1 OR MORE BEDROOMS ONLY.	837	-	7	86	295	234	140	76	4.6
OTHER ROOMS OR COMBINATION OF ROOMS	276	2	6	37	53	76	63	40	5.0
NOT REPORTED.	8	-	-	2	3	2	1	-	..
NOT REPORTED.	236	2	17	60	91	35	13	17	3.9
NO HEATING EQUIPMENT.	225	31	17	67	55	39	13	3	3.5
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED.	45 520	80	253	1 089	5 667	12 282	12 337	13 812	5.8
WITH SPECIFIED HEATING EQUIPMENT ¹ .	42 258	63	198	914	4 954	11 234	11 590	13 306	5.8
NO ADDITIONAL HEAT SOURCE USED.	38 954	62	177	832	4 529	10 393	10 745	12 215	5.8
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 972	1	18	72	353	744	764	1 020	5.9
NOT REPORTED.	333	-	2	10	71	97	81	71	5.3
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 262	17	55	175	714	1 048	748	505	5.1
RENTER OCCUPIED	17 698	609	1 044	4 277	5 690	3 406	1 728	945	4.0
WITH SPECIFIED HEATING EQUIPMENT ¹ .	15 896	535	947	3 862	5 143	3 029	1 522	857	4.0
NO ADDITIONAL HEAT SOURCE USED.	13 566	486	821	3 304	4 399	2 550	1 292	714	4.0
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	2 148	48	117	509	671	456	219	129	4.1
NOT REPORTED.	181	2	10	49	73	23	11	14	3.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 803	73	97	415	547	378	206	87	4.1
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED.	45 520	80	253	1 089	5 667	12 282	12 337	13 812	5.8
WITH SPECIFIED HEATING EQUIPMENT ¹ .	42 258	63	198	914	4 954	11 234	11 590	13 306	5.8
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	33 445	55	156	700	3 672	8 842	9 257	10 763	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	8 345	8	39	198	1 193	2 257	2 223	2 426	5.7
1 ROOM.	2 468	7	24	84	258	493	688	914	6.0
2 ROOMS.	2 157	1	8	74	524	535	483	531	5.4
3 ROOMS OR MORE.	3 719	1	7	40	411	1 228	1 053	981	5.7
NOT REPORTED.	468	-	3	16	88	135	109	117	5.4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	3 262	17	55	175	714	1 048	748	505	5.1
RENTER OCCUPIED	17 698	609	1 044	4 277	5 690	3 406	1 728	945	4.0
WITH SPECIFIED HEATING EQUIPMENT ¹ .	15 896	535	947	3 862	5 143	3 029	1 522	857	4.0
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	11 727	515	825	3 003	3 668	2 146	1 019	550	3.9
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 904	18	103	793	1 375	842	479	293	4.3
1 ROOM.	1 305	6	70	521	321	199	122	65	3.7
2 ROOMS.	1 268	5	20	193	694	195	101	60	4.1
3 ROOMS OR MORE.	1 331	7	12	79	360	449	255	168	5.0
NOT REPORTED.	265	2	20	66	99	41	24	14	3.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 803	73	97	415	547	378	206	87	4.1

¹EXCLUDES 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: 1978--CONTINUED

(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.	77 167	1 141	2 077	7 779	15 089	18 553	15 874	16 653	5.2
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED.	50 283	108	304	1 293	6 433	13 466	13 402	15 277	5.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 685	14	49	103	347	508	364	301	5.1
WITH SELECTED HEATING EQUIPMENT ¹	48 598	94	256	1 190	6 086	12 958	13 038	14 976	5.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	45 963	81	238	1 146	5 822	12 334	12 311	14 030	5.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	2 365	13	12	38	234	542	652	873	6.0
SOLAR HEATING EQUIPMENT.	11	-	-	-	3	1	4	3	..
STOVE, BURNING WOOD OR COAL.	895	2	3	6	76	209	259	340	6.1
FIREPLACE, BURNING WOOD OR COAL.	312	1	-	1	24	69	97	120	6.1
PORTABLE ELECTRIC HEATER.	585	4	4	19	80	143	144	191	5.8
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	128	-	1	5	17	31	34	39	5.8
OTHER.	398	6	4	7	30	80	101	170	6.2
NOT REPORTED.	45	-	-	-	6	9	15	15	6.0
NOT REPORTED.	270	-	6	5	30	81	75	73	5.7
RENTER OCCUPIED.	26 884	1 034	1 773	6 486	8 655	5 088	2 473	1 376	4.0
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 185	80	101	246	356	225	119	58	4.0
WITH SELECTED HEATING EQUIPMENT ¹	25 698	953	1 672	6 240	8 299	4 863	2 353	1 318	4.0
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	24 604	915	1 608	6 023	7 989	4 620	2 210	1 239	4.0
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	929	27	56	178	263	215	126	64	4.3
SOLAR HEATING EQUIPMENT.	1	-	-	-	-	1	-	-	..
STOVE, BURNING WOOD OR COAL.	81	-	-	2	9	29	19	23	5.5
FIREPLACE, BURNING WOOD OR COAL.	18	-	-	4	4	2	5	3	..
PORTABLE ELECTRIC HEATER.	643	22	46	137	197	144	71	26	4.1
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	83	-	5	17	26	14	15	5	4.2
OTHER.	95	5	5	18	20	23	16	8	4.4
NOT REPORTED.	16	-	-	2	8	6	1	-	..
NOT REPORTED.	165	12	8	39	46	28	16	14	4.0
AIR CONDITIONING									
OWNER OCCUPIED.	50 283	108	304	1 293	6 433	13 466	13 402	15 277	5.8
WITH AIR CONDITIONING.	29 231	48	154	652	3 461	7 721	7 905	9 289	5.8
ROOM UNITS.	15 320	21	89	423	2 205	4 433	4 207	3 941	5.6
1.	9 285	16	76	348	1 604	2 897	2 427	1 916	5.4
2.	4 329	3	11	67	485	1 224	1 280	1 260	5.8
3.	1 212	-	2	6	100	264	375	466	6.1
4.	352	2	-	2	14	37	97	200	6.5+
5 OR MORE.	140	-	-	-	3	10	27	99	6.5+
CENTRAL SYSTEM.	13 911	26	65	230	1 256	3 289	3 698	5 348	6.1
WITH NO AIR CONDITIONING.	21 052	60	151	641	2 972	5 744	5 497	5 987	5.7
RENTER OCCUPIED.	26 884	1 034	1 773	6 486	8 655	5 088	2 473	1 376	4.0
WITH AIR CONDITIONING.	12 053	313	687	3 113	4 132	2 212	1 021	576	4.0
ROOM UNITS.	7 474	231	465	1 976	2 399	1 392	653	357	3.9
1.	5 730	215	436	1 648	1 820	961	429	219	3.8
2.	1 470	11	26	304	501	351	180	98	4.3
3.	224	3	3	24	67	66	34	27	4.7
4.	38	2	-	-	9	11	8	9	5.3
5 OR MORE.	12	-	-	-	2	3	2	5	..
CENTRAL SYSTEM.	4 579	81	221	1 138	1 733	820	368	218	4.0
WITH NO AIR CONDITIONING.	14 831	721	1 086	3 372	4 524	2 876	1 452	800	4.0
ALL OCCUPIED HOUSING UNITS.	77 167	1 141	2 077	7 779	15 089	18 553	15 874	16 653	5.2
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS.	55 965	161	459	1 906	7 871	14 945	14 444	16 179	5.7
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED.	47 029	77	248	889	5 452	12 519	12 836	15 007	5.8
ALL WINDOWS COVERED.	24 717	29	73	265	2 519	6 180	6 931	8 721	6.0
SOME WINDOWS COVERED.	5 024	2	26	100	480	1 169	1 334	1 912	6.0
NO WINDOWS COVERED.	17 093	46	150	518	2 421	5 110	4 520	4 328	5.6
NOT REPORTED.	195	1	-	6	32	61	51	45	5.5
RENTER OCCUPIED.	8 936	83	211	1 016	2 420	2 425	1 608	1 172	4.8
ALL WINDOWS COVERED.	2 494	9	29	137	629	700	507	483	5.1
SOME WINDOWS COVERED.	1 080	3	19	80	224	284	248	223	5.3
NO WINDOWS COVERED.	4 992	57	151	683	1 462	1 363	821	456	4.6
NOT REPORTED.	369	14	13	115	105	79	33	11	3.9

¹EXCLUDES 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: 1978--CONTINUED

(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	47 029	77	248	889	5 452	12 519	12 836	15 007	5.8
ALL DOORS COVERED	23 614	27	59	198	2 244	6 194	6 924	7 968	5.9
SOME DOORS COVERED	6 648	6	24	83	752	1 797	1 688	2 298	5.9
NO DOORS COVERED	16 513	44	166	600	2 416	4 458	4 154	4 675	5.6
NOT REPORTED	254	1	-	8	39	70	70	66	5.6
RENTER OCCUPIED	8 936	83	211	1 016	2 420	2 425	1 608	1 172	4.8
ALL DOORS COVERED	2 385	6	26	118	565	679	510	481	5.2
SOME DOORS COVERED	989	1	9	53	227	297	202	200	5.2
NO DOORS COVERED	5 150	62	163	721	1 516	1 356	855	478	4.6
NOT REPORTED	412	14	13	124	112	94	42	13	4.0
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	47 029	77	248	889	5 452	12 519	12 836	15 007	5.8
YES	38 132	59	178	557	3 913	10 031	10 483	12 911	5.9
NO	6 836	14	52	245	1 171	1 907	1 816	1 630	5.5
DON'T KNOW	1 820	3	17	81	324	506	480	409	5.4
NOT REPORTED	241	1	1	7	45	75	57	56	5.4
RENTER OCCUPIED	8 936	83	211	1 016	2 420	2 425	1 608	1 172	4.8
YES	3 608	21	59	276	827	1 072	728	623	5.1
NO	2 783	33	84	368	813	709	476	300	4.6
DON'T KNOW	2 150	16	53	254	673	559	363	232	4.6
NOT REPORTED	395	14	14	118	107	85	41	17	4.0

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978

(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	APRIL 1970 OR LATER	YEAR STRUCTURE BUILT					
		MARCH 1970 OR EARLIER					
		TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER	
ALL OCCUPIED HOUSING UNITS.	77 167	15 192	61 974	16 628	13 231	7 476	24 640
HOUSE HEATING FUEL							
OWNER OCCUPIED.	50 283	10 576	39 707	11 121	9 972	4 884	13 730
UTILITY GAS	28 187	4 428	23 758	6 588	6 350	3 009	7 812
BOTTLED, TANK, OR LP GAS.	3 196	896	2 300	749	438	317	796
FUEL OIL	9 980	979	9 000	1 693	2 136	1 086	4 086
KEROSENE, ETC	281	53	228	87	45	27	69
ELECTRICITY	7 450	4 030	3 420	1 799	828	299	494
COAL OR COKE	251	11	240	16	24	37	164
WOOD	696	127	570	121	92	88	268
SOLAR HEAT	3	1	2	2	-	-	-
OTHER FUEL	18	2	15	4	-	2	9
NONE	222	49	174	63	60	20	31
RENTER OCCUPIED	26 884	4 616	22 268	5 507	3 259	2 591	10 910
UTILITY GAS	14 334	1 788	12 547	2 973	2 006	1 608	5 960
BOTTLED, TANK, OR LP GAS	934	100	834	177	138	111	409
FUEL OIL	5 669	321	5 348	717	667	574	3 389
KEROSENE, ETC	143	4	139	25	26	14	74
ELECTRICITY	4 808	2 352	2 456	1 503	295	164	493
COAL OR COKE	151	2	149	4	13	12	120
WOOD	370	7	363	29	38	56	240
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	101	8	93	10	2	3	78
NONE	375	34	341	68	76	49	148
WATER HEATING FUEL							
OWNER OCCUPIED	50 283	10 576	39 707	11 121	9 972	4 884	13 730
NO HOT PIPED WATER	444	43	400	60	59	94	187
WITH HOT PIPED WATER	49 837	10 533	39 304	11 059	9 912	4 790	13 542
FUEL USED:							
UTILITY GAS	26 743	4 071	22 673	6 106	6 032	2 810	7 724
BOTTLED, TANK, OR LP GAS	2 420	633	1 788	490	336	243	717
FUEL OIL	3 572	346	3 226	632	753	376	1 465
KEROSENE, ETC	27	7	19	2	3	1	14
ELECTRICITY	16 956	5 461	11 495	3 810	2 779	1 353	3 554
COAL OR COKE	35	-	35	2	-	5	29
WOOD	35	6	29	9	1	1	18
SOLAR HEAT	14	7	8	1	4	-	3
OTHER FUEL	17	2	15	6	2	1	6
NONE	17	-	17	2	4	1	11
NOT REPORTED	2	-	2	2	-	-	1
RENTER OCCUPIED	26 884	4 616	22 268	5 507	3 259	2 591	10 910
NO HOT PIPED WATER	482	7	475	33	56	72	314
WITH HOT PIPED WATER	26 402	4 609	21 793	5 474	3 203	2 520	10 596
FUEL USED:							
UTILITY GAS	14 725	1 903	12 822	3 035	1 943	1 555	6 288
BOTTLED, TANK, OR LP GAS	709	74	635	127	95	79	334
FUEL OIL	3 430	175	3 256	456	390	350	2 059
KEROSENE, ETC	10	-	10	1	1	1	7
ELECTRICITY	7 339	2 439	4 900	1 832	752	519	1 796
COAL OR COKE	33	-	33	2	11	2	18
WOOD	11	-	11	2	2	1	6
SOLAR HEAT	3	2	-	-	2	-	-
OTHER FUEL	121	15	105	18	4	7	76
NONE	20	1	19	1	2	5	12
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	50 283	10 576	39 707	11 121	9 972	4 884	13 730
UTILITY GAS	18 290	2 077	16 213	3 298	3 926	2 227	6 761
BOTTLED, TANK, OR LP GAS	3 903	1 015	2 888	904	510	358	1 116
FUEL OIL	62	6	56	5	9	7	35
KEROSENE, ETC	14	2	12	2	2	-	9
ELECTRICITY	27 839	7 460	20 379	6 895	5 513	2 272	5 698
COAL OR COKE	22	1	21	2	1	2	17
WOOD	133	10	123	13	9	18	83
OTHER FUEL	6	1	6	2	2	-	2
NONE	15	6	10	-	1	-	9
RENTER OCCUPIED	26 884	4 616	22 268	5 507	3 259	2 591	10 910
UTILITY GAS	14 286	1 210	13 076	2 304	1 896	1 723	7 154
BOTTLED, TANK, OR LP GAS	1 322	117	1 205	258	161	149	638
FUEL OIL	21	-	21	4	1	3	13
KEROSENE, ETC	10	-	10	1	-	1	7
ELECTRICITY	10 940	3 288	7 652	2 924	1 173	704	2 851
COAL OR COKE	4	-	4	-	1	-	3
WOOD	58	1	58	6	4	5	43
OTHER FUEL	22	1	21	5	2	-	14
NONE	221	-	221	6	21	6	189

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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						
			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									
LESS THAN \$10	40 054	7 373	32 682	8 936	9 096	4 325	10 325		
\$10 TO \$19.	707	31	676	49	112	101	414		
\$20 TO \$29.	5 980	530	5 450	747	1 340	937	2 426		
\$30 TO \$39.	9 222	1 125	8 096	1 829	2 262	1 230	2 777		
\$40 TO \$49.	8 071	1 194	6 877	1 867	2 044	845	2 120		
\$50 TO \$59.	5 036	882	4 155	1 346	1 195	478	1 136		
\$60 TO \$79.	3 917	949	2 969	1 073	923	312	661		
\$80 TO \$99.	3 972	1 308	2 664	1 135	752	261	516		
\$100 TO \$149.	1 518	628	891	444	230	81	137		
\$150 OR MORE.	1 290	587	702	364	186	58	94		
NO ELECTRICITY USED OR NOT REPORTED	316	132	184	81	50	19	34		
MEDIAN.	26	8	18	3	2	4	9		
35	48	33	39	34	28	28	28		
SPECIFIED RENTER OCCUPIED ²	26 247	4 592	21 655	5 449	3 193	2 526	10 487		
LESS THAN \$10	2 510	243	2 267	513	335	250	1 170		
\$10 TO \$19.	6 877	872	6 005	1 430	822	688	3 065		
\$20 TO \$29.	4 988	775	4 213	959	617	494	2 144		
\$30 TO \$39.	2 867	562	2 305	606	375	276	1 048		
\$40 TO \$49.	1 402	408	994	335	146	128	385		
\$50 TO \$59.	874	294	579	183	111	58	227		
\$60 TO \$79.	707	268	440	144	84	59	152		
\$80 TO \$99.	189	67	122	58	21	9	35		
\$100 TO \$149.	151	64	87	32	15	11	28		
\$150 OR MORE.	44	12	33	16	2	-	14		
INCLUDED IN RENT.	5 562	1 022	4 540	1 156	660	550	2 174		
NO ELECTRICITY USED OR NOT REPORTED	75	5	69	16	7	3	44		
MEDIAN.	22	28	21	22	22	21	19		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$10	40 054	7 373	32 682	8 936	9 096	4 325	10 325		
\$10 TO \$14.	2 867	334	2 533	479	654	422	978		
\$15 TO \$19.	3 098	449	2 650	558	844	415	832		
\$20 TO \$24.	3 049	436	2 614	680	741	398	795		
\$25 TO \$29.	3 293	500	2 793	809	792	430	763		
\$30 TO \$39.	2 961	395	2 566	661	741	360	804		
\$40 TO \$49.	5 851	765	5 086	1 378	1 422	658	1 628		
\$50 TO \$69.	3 853	482	3 371	918	923	355	1 174		
\$70 TO \$99.	3 474	459	3 015	875	673	328	1 140		
\$100 OR MORE.	993	122	871	253	166	81	371		
NO GAS USED OR NOT REPORTED	369	52	317	85	60	37	135		
MEDIAN.	10 246	3 379	6 867	2 240	2 081	841	1 705		
29	28	29	31	28	26	31	31		
SPECIFIED RENTER OCCUPIED ²	26 247	4 592	21 655	5 449	3 193	2 526	10 487		
LESS THAN \$10	4 321	354	3 967	725	589	482	2 172		
\$10 TO \$14.	2 277	188	2 089	365	368	294	1 061		
\$15 TO \$19.	1 565	141	1 424	256	221	212	735		
\$20 TO \$24.	1 098	83	1 016	184	198	122	512		
\$25 TO \$29.	899	59	840	147	136	112	444		
\$30 TO \$39.	1 378	101	1 277	174	197	155	751		
\$40 TO \$49.	710	51	659	80	83	74	423		
\$50 TO \$69.	613	47	566	71	50	58	387		
\$70 TO \$99.	199	5	194	11	13	19	152		
\$100 OR MORE.	90	2	88	11	7	8	63		
INCLUDED IN RENT.	7 715	1 548	6 166	2 026	896	676	2 568		
NO GAS USED OR NOT REPORTED	5 383	2 014	3 369	1 399	435	313	1 222		
14	13	15	13	13	14	14	16		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$100.	40 054	7 373	32 682	8 936	9 096	4 325	10 325		
\$100 TO \$199.	1 425	428	997	382	277	101	238		
\$200 TO \$299.	792	196	596	196	154	81	165		
\$300 TO \$399.	953	100	853	198	252	136	267		
\$400 TO \$499.	1 317	102	1 216	218	360	201	437		
\$500 TO \$599.	1 262	108	1 154	190	319	144	501		
\$600 TO \$699.	1 115	93	1 022	184	231	139	469		
\$700 TO \$799.	947	70	877	164	203	137	373		
\$800 OR MORE.	677	47	630	116	165	71	278		
FUELS NOT USED, FREE, OR NOT REPORTED	1 277	103	1 174	170	254	128	622		
MEDIAN.	30 288	6 125	24 162	7 119	6 881	3 186	6 975		
431	199	451	360	420	435	514			

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.--CONTINUED									
SPECIFIED RENTER OCCUPIED ¹	26 247	4 592	21 655	5 449	3 193	2 526	10 487		
LESS THAN \$100.	291	33	259	39	50	43	127		
\$100 TO \$199.	261	19	242	43	36	39	124		
\$200 TO \$299.	289	14	275	43	34	38	160		
\$300 TO \$399.	356	14	342	49	54	35	204		
\$400 TO \$499.	248	6	242	23	34	25	161		
\$500 TO \$599.	176	7	169	17	21	19	113		
\$600 TO \$699.	169	4	165	13	16	15	121		
\$700 TO \$799.	97	1	96	11	4	10	71		
\$800 OR MORE.	161	5	155	11	14	15	116		
INCLUDED IN RENT.	4 975	432	4 544	783	563	474	2 724		
FUELS NOT USED, FREE, OR NOT REPORTED	19 223	4 056	15 167	4 418	2 368	1 815	6 566		
MEDIAN.	351	205	357	298	320	297	391		
ALL OCCUPIED HOUSING UNITS.	77 167	15 192	61 974	16 628	13 231	7 476	24 640		
HEATING EQUIPMENT									
OWNER OCCUPIED.	50 283	10 576	39 707	11 121	9 972	4 884	13 730		
WARM-AIR FURNACE.	30 271	7 668	22 603	7 623	6 155	2 331	6 494		
HEAT PUMP	899	632	267	132	80	23	32		
STEAM OR HOT WATER.	6 900	492	6 407	1 156	1 120	633	3 499		
BUILT-IN ELECTRIC UNITS	3 106	1 261	1 845	942	419	178	307		
FLOOR, WALL, OR PIPELESS FURNACE.	3 333	105	3 229	441	1 103	721	965		
ROOM HEATERS WITH FLUE.	2 323	74	2 248	241	407	335	1 265		
ROOM HEATERS WITHOUT FLUE	1 766	72	1 695	246	364	449	636		
FIREPLACES, STOVES, OR PORTABLE HEATERS	1 463	224	1 239	278	264	196	501		
NONE.	222	49	174	63	60	20	31		
RENTER OCCUPIED	26 884	4 616	22 268	5 507	3 259	2 591	10 910		
WARM-AIR FURNACE.	9 575	2 741	6 834	2 487	1 031	584	2 732		
HEAT PUMP	228	100	128	59	26	7	37		
STEAM OR HOT WATER.	7 025	548	6 477	1 013	613	626	4 225		
BUILT-IN ELECTRIC UNITS	2 493	987	1 506	846	172	121	368		
FLOOR, WALL, OR PIPELESS FURNACE.	2 840	148	2 692	652	751	528	760		
ROOM HEATERS WITH FLUE.	2 154	27	2 128	163	286	263	1 415		
ROOM HEATERS WITHOUT FLUE	1 384	12	1 371	139	216	293	723		
FIREPLACES, STOVES, OR PORTABLE HEATERS	811	20	791	79	89	120	503		
NONE.	375	34	341	68	76	49	148		
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED.	50 283	10 576	39 707	11 121	9 972	4 884	13 730		
NO HEATING EQUIPMENT.	222	49	174	63	60	20	31		
WITH HEATING EQUIPMENT.	50 061	10 528	39 533	11 058	9 912	4 865	13 699		
NO THERMOSTAT CONTROL	5 658	395	5 263	857	1 191	982	2 234		
WITH THERMOSTAT CONTROL	44 256	10 109	34 147	10 171	8 704	3 859	11 413		
NOT CLOCK OPERATED.	38 310	8 829	29 481	8 833	7 553	3 273	9 822		
CONSTANT TEMPERATURE SETTING MAINTAINED	11 536	2 680	8 856	2 576	2 160	990	3 129		
TEMPERATURE SETTING IS CHANGED	26 597	6 085	20 512	6 235	5 362	2 265	6 650		
OCCASIONALLY.	7 038	1 563	5 475	1 614	1 324	627	1 911		
REGULARLY.	19 282	4 455	14 827	4 557	3 989	1 615	4 666		
DON'T KNOW.	239	55	184	60	41	22	61		
NOT REPORTED.	38	12	26	4	7	2	13		
NOT REPORTED.	177	63	114	22	31	18	43		
CLOCK OPERATED.	5 741	1 244	4 497	1 287	1 114	565	1 531		
NOT REPORTED.	206	37	169	52	38	21	59		
NOT REPORTED.	146	24	123	29	17	24	52		
RENTER OCCUPIED	26 884	4 616	22 268	5 507	3 259	2 591	10 910		
NO HEATING EQUIPMENT.	375	34	341	68	76	49	148		
WITH HEATING EQUIPMENT.	26 509	4 582	21 927	5 438	3 184	2 542	10 763		
NO THERMOSTAT CONTROL	10 160	389	9 771	1 110	1 353	1 358	5 950		
WITH THERMOSTAT CONTROL	16 284	4 187	12 097	4 322	1 827	1 179	4 768		
NOT CLOCK OPERATED.	14 276	3 647	10 629	3 807	1 581	1 034	4 206		
CONSTANT TEMPERATURE SETTING MAINTAINED	4 659	1 207	3 452	1 252	491	286	1 423		
TEMPERATURE SETTING IS CHANGED.	9 469	2 392	7 078	2 525	1 073	741	2 739		
OCCASIONALLY.	3 010	792	2 218	815	328	216	859		
REGULARLY.	6 286	1 552	4 734	1 663	730	516	1 825		
DON'T KNOW.	162	45	117	44	14	8	50		
NOT REPORTED.	12	3	9	2	1	1	5		
NOT REPORTED.	148	48	100	31	17	8	44		
CLOCK OPERATED.	1 905	513	1 392	491	232	136	533		
NOT REPORTED.	103	28	76	24	13	9	29		
NOT REPORTED.	65	6	59	6	4	5	44		

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

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	APRIL 1970 OR LATER	YEAR STRUCTURE BUILT					
		MARCH 1970 OR EARLIER					
		TOTAL	MARCH 1970	1960 TO	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS.	77 167	15 192	61 974	16 628	13 231	7 476	24 640
UNITS OCCUPIED LAST WINTER.	63 219	10 633	52 586	13 818	11 600	6 513	20 656
INSUFFICIENT HEAT							
CLOSURE OF ROOMS:							
OWNER OCCUPIED.	45 520	8 204	37 316	10 338	9 411	4 634	12 933
WITH HEATING EQUIPMENT.	45 315	8 162	37 152	10 279	9 354	4 616	12 903
NO ROOMS CLOSED.	43 013	7 936	35 077	9 935	8 965	4 290	11 887
CLOSED CERTAIN ROOMS.	1 886	136	1 750	255	318	277	900
LIVING ROOM ONLY.	78	5	72	12	10	7	43
DINING ROOM ONLY.	35	4	31	10	8	4	8
1 OR MORE BEDROOMS ONLY.	1 232	95	1 137	156	202	197	581
OTHER ROOMS OR COMBINATION OF ROOMS.	514	32	482	69	95	64	254
NOT REPORTED.	28	-	28	7	3	5	13
NOT REPORTED.	416	90	326	89	71	50	116
NO HEATING EQUIPMENT.	206	42	164	59	57	18	30
RENTER OCCUPIED.	17 698	2 429	15 270	3 480	2 188	1 878	7 723
WITH HEATING EQUIPMENT.	17 473	2 411	15 063	3 437	2 144	1 853	7 628
NO ROOMS CLOSED.	16 014	2 334	13 680	3 296	1 961	1 674	6 749
CLOSED CERTAIN ROOMS.	1 223	46	1 177	100	159	152	766
LIVING ROOM ONLY.	84	3	81	4	2	12	62
DINING ROOM ONLY.	17	4	14	1	3	2	8
1 OR MORE BEDROOMS ONLY.	837	30	806	83	126	107	491
OTHER ROOMS OR COMBINATION OF ROOMS.	276	7	269	12	25	30	201
NOT REPORTED.	8	1	7	-	3	-	3
NOT REPORTED.	236	31	206	42	24	28	112
NO HEATING EQUIPMENT.	225	18	207	43	44	25	95
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED.	45 520	8 204	37 316	10 338	9 411	4 634	12 933
WITH SPECIFIED HEATING EQUIPMENT ¹	42 258	7 913	34 345	9 780	8 749	3 999	11 817
NO ADDITIONAL HEAT SOURCE USED.	38 954	7 456	31 498	9 125	8 092	3 633	10 648
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	2 972	383	2 589	585	599	331	1 074
NOT REPORTED.	333	74	258	71	58	35	95
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	3 262	291	2 971	558	662	635	1 116
RENTER OCCUPIED.	17 698	2 429	15 270	3 480	2 188	1 878	7 723
WITH SPECIFIED HEATING EQUIPMENT ¹	15 896	2 390	13 506	3 288	1 941	1 551	6 726
NO ADDITIONAL HEAT SOURCE USED.	13 566	2 234	11 333	2 984	1 637	1 283	5 429
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	2 148	129	2 020	270	282	251	1 217
NOT REPORTED.	181	28	153	34	21	18	80
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	1 803	39	1 764	192	248	327	997
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED.	45 520	8 204	37 316	10 338	9 411	4 634	12 933
WITH SPECIFIED HEATING EQUIPMENT ¹	42 258	7 913	34 345	9 780	8 749	3 999	11 817
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	33 445	7 435	26 011	8 625	6 905	2 747	7 733
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	8 345	373	7 972	1 045	1 766	1 207	3 955
1 ROOM.	2 468	188	2 280	419	407	282	1 172
2 ROOMS.	2 157	67	2 090	180	415	334	1 160
3 ROOMS OR MORE.	3 719	117	3 602	446	943	591	1 623
NOT REPORTED.	468	106	362	110	79	45	129
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	3 262	291	2 971	558	662	635	1 116
RENTER OCCUPIED.	17 698	2 429	15 270	3 480	2 188	1 878	7 723
WITH SPECIFIED HEATING EQUIPMENT ¹	15 896	2 390	13 506	3 288	1 941	1 551	6 726
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	11 727	2 227	9 500	2 715	1 311	980	4 493
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 904	132	3 772	523	599	545	2 105
1 ROOM.	1 305	59	1 246	148	170	164	764
2 ROOMS.	1 268	39	1 229	218	202	179	630
3 ROOMS OR MORE.	1 331	34	1 297	157	227	203	711
NOT REPORTED.	265	31	234	50	30	26	128
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	1 803	39	1 764	192	248	327	997

¹EXCLUDES 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: 1978--CONTINUED

(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.	77 167	15 192	61 974	16 628	13 231	7 476	24 640
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED.							
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	50 283	10 576	39 707	11 121	9 972	4 884	13 730
WITH SELECTED HEATING EQUIPMENT ¹ .	1 685	272	1 413	342	324	216	532
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	48 598	10 304	38 294	10 779	9 647	4 669	13 198
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	45 963	9 713	36 250	10 224	9 149	4 413	12 463
SOLAR HEATING EQUIPMENT.	11	2	9	5	2	-	2
STOVE, BURNING WOOD OR COAL.	895	226	670	189	139	66	276
FIREPLACE, BURNING WOOD OR COAL.	312	114	198	67	63	20	49
PORTABLE ELECTRIC HEATER.	585	112	474	118	121	67	168
ROOM HEATER WITHOUT FLUE OR VENT,							
BURNING GAS, OIL, OR KEROSENE.	128	16	112	29	21	15	47
OTHER.	398	82	316	68	87	47	114
NOT REPORTED.	45	8	37	7	9	9	12
NOT REPORTED.	270	35	235	74	59	34	69
RENTER OCCUPIED							
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	26 884	4 616	22 268	5 507	3 259	2 591	10 910
WITH SELECTED HEATING EQUIPMENT ¹ .	1 185	54	1 132	147	165	169	650
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	25 698	4 562	21 136	5 359	3 095	2 422	10 260
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	24 604	4 481	20 124	5 200	2 975	2 296	9 652
SOLAR HEATING EQUIPMENT.	1	-	1	-	-	-	1
STOVE, BURNING WOOD OR COAL.	81	4	76	7	4	5	61
FIREPLACE, BURNING WOOD OR COAL.	18	4	14	3	3	-	8
PORTABLE ELECTRIC HEATER.	643	45	598	96	83	71	347
ROOM HEATER WITHOUT FLUE OR VENT,							
BURNING GAS, OIL, OR KEROSENE.	83	5	78	5	9	19	45
OTHER.	95	2	92	11	10	12	59
NOT REPORTED.	16	1	14	3	-	3	8
NOT REPORTED.	165	20	145	36	9	17	82
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED.							
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	50 283	10 576	39 707	11 121	9 972	4 884	13 730
WITH SELECTED HEATING EQUIPMENT ² .	5 774	418	5 356	828	1 095	999	2 433
LESS THAN 4 YEARS.	44 509	10 158	34 351	10 293	8 876	3 885	11 296
4 TO 9 YEARS.	7 846	4 418	3 429	781	964	425	1 258
10 TO 19 YEARS.	11 939	5 457	6 481	2 126	1 428	716	2 212
20 TO 39 YEARS.	12 937	78	12 858	6 615	2 120	948	3 175
40 YEARS OR MORE.	7 981	2	7 979	264	3 802	1 330	2 584
DON'T KNOW.	786	1	785	3	9	57	717
NOT REPORTED.	2 168	59	2 109	312	442	330	1 024
	852	143	709	193	111	79	326
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED.							
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	50 283	10 576	39 707	11 121	9 972	4 884	13 730
WITH SELECTED HEATING EQUIPMENT ² .	5 774	418	5 356	828	1 095	999	2 433
NO MAINTENANCE OR MODIFICATION.	44 509	10 158	34 351	10 293	8 876	3 885	11 296
WITH MAINTENANCE OR MODIFICATION.	33 758	8 440	25 318	7 760	6 592	2 923	8 043
NOT REPORTED.	9 910	1 563	8 346	2 325	2 168	897	2 956
	841	155	686	208	116	65	297
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED.							
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	50 283	10 576	39 707	11 121	9 972	4 884	13 730
WITH SELECTED HEATING EQUIPMENT ² .	5 774	418	5 356	828	1 095	999	2 433
NO MAINTENANCE CONTRACT.	44 509	10 158	34 351	10 293	8 876	3 885	11 296
WITH MAINTENANCE CONTRACT.	37 986	8 936	29 050	9 136	7 583	3 269	9 063
NOT REPORTED.	5 553	1 032	4 521	929	1 166	535	1 890
	970	191	780	228	128	80	343

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED

(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	MARCH 1970	1960 TO 1970	1950 TO 1959	1940 TO 1949		
ALL OCCUPIED HOUSING UNITS--CONTINUED									
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT									
OWNER OCCUPIED.	50 283	10 576	39 707	11 121	9 972	4 884	13 730		
NO HOT PIPED WATER.	444	43	400	60	59	94	187		
WITH HOT PIPED WATER.	49 837	10 533	39 304	11 059	9 912	4 790	13 542		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	48 785	10 365	38 419	10 826	9 688	4 681	13 224		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹ .	256	63	193	60	54	17	62		
NOT REPORTED.	764	98	666	170	163	91	242		
NOT REPORTED.	2	-	2	2	-	-	1		
RENTER OCCUPIED	26 884	4 616	22 268	5 507	3 259	2 591	10 910		
NO HOT PIPED WATER.	482	7	475	33	56	72	314		
WITH HOT PIPED WATER.	26 402	4 609	21 793	5 474	3 203	2 520	10 596		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	25 730	4 515	21 215	5 367	3 124	2 433	10 292		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹ .	113	30	84	19	12	13	40		
NOT REPORTED.	536	62	473	88	63	69	253		
NOT REPORTED.	-	-	-	-	-	-	-		
AIR CONDITIONING									
OWNER OCCUPIED.	50 283	10 576	39 707	11 121	9 972	4 884	13 730		
WITH AIR CONDITIONING	29 231	7 147	22 084	7 236	6 198	2 625	6 026		
ROOM UNITS.	15 320	1 488	13 831	3 028	3 759	1 948	5 096		
1	9 285	1 092	8 194	1 910	2 087	1 139	3 058		
2	4 329	335	3 994	828	1 186	579	1 401		
3	1 212	48	1 164	224	361	152	427		
4	352	10	342	48	72	68	155		
5 OR MORE	140	3	137	18	52	11	56		
CENTRAL SYSTEM.	13 911	5 659	8 252	4 207	2 439	676	930		
WITH NO AIR CONDITIONING.	21 052	3 429	17 623	3 885	3 774	2 260	7 704		
RENTER OCCUPIED	26 884	4 616	22 268	5 507	3 259	2 591	10 910		
WITH AIR CONDITIONING	12 053	3 460	8 593	3 442	1 444	900	2 807		
ROOM UNITS.	7 474	1 035	6 439	1 890	1 129	796	2 624		
1	5 730	826	4 904	1 480	812	591	2 022		
2	1 470	180	1 290	349	269	164	507		
3	224	26	198	52	38	36	72		
4	38	3	35	7	9	3	15		
5 OR MORE	12	-	12	2	1	2	8		
CENTRAL SYSTEM.	4 579	2 425	2 154	1 552	315	104	183		
WITH NO AIR CONDITIONING.	14 831	1 156	13 675	2 065	1 815	1 692	8 104		
ALL OCCUPIED HOUSING UNITS.	77 167	15 192	61 974	16 628	13 231	7 476	24 640		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	55 965	10 816	45 149	12 014	11 223	5 995	15 917		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED.	47 029	9 965	37 064	10 573	9 698	4 714	12 079		
ALL WINDOWS COVERED	24 717	5 176	19 541	5 257	4 924	2 365	6 994		
SOME WINDOWS COVERED.	5 024	504	4 520	783	946	557	2 235		
NO WINDOWS COVERED.	17 093	4 237	12 855	4 494	3 802	1 778	2 781		
NOT REPORTED.	195	47	148	39	26	14	69		
RENTER OCCUPIED	8 936	852	8 084	1 441	1 525	1 280	3 838		
ALL WINDOWS COVERED	2 494	261	2 233	376	351	268	1 238		
SOME WINDOWS COVERED.	1 080	45	1 036	115	123	107	690		
NO WINDOWS COVERED.	4 992	471	4 521	857	988	875	1 801		
NOT REPORTED.	369	75	294	93	62	31	108		
STORM DOORS									
OWNER OCCUPIED.	47 029	9 965	37 064	10 573	9 698	4 714	12 079		
ALL DOORS COVERED.	23 614	3 465	20 149	4 940	5 266	2 532	7 411		
SOME DOORS COVERED.	6 648	1 731	4 917	1 441	1 075	559	1 842		
NO DOORS COVERED.	16 513	4 702	11 811	4 140	3 317	1 603	2 751		
NOT REPORTED.	254	66	188	52	41	20	75		
RENTER OCCUPIED	8 936	852	8 084	1 441	1 525	1 280	3 838		
ALL DOORS COVERED.	2 385	156	2 229	304	398	278	1 248		
SOME DOORS COVERED.	989	106	884	119	139	120	506		
NO DOORS COVERED.	5 150	509	4 642	919	915	845	1 963		
NOT REPORTED.	412	81	330	100	72	38	121		

¹LIMITED 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: 1978--CONTINUED

(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									
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED.									
YES	47 029	9 965	37 064	10 573	9 698	4 714	12 079		
NO	38 132	9 234	28 898	9 309	8 133	3 502	7 955		
DON'T KNOW	6 836	386	6 450	818	1 219	1 011	3 402		
NOT REPORTED	1 820	294	1 526	393	314	181	639		
	241	51	190	53	33	21	83		
RENTER OCCUPIED									
YES	8 936	852	8 084	1 441	1 525	1 280	3 838		
NO	3 608	515	3 093	709	691	412	1 281		
DON'T KNOW	2 783	86	2 697	252	405	477	1 563		
NOT REPORTED	2 150	177	1 973	381	361	356	875		
	395	75	320	99	67	35	119		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED.									
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	47 029	9 965	37 064	10 573	9 698	4 714	12 079		
NO WINDOWS COVERED	17 093	4 237	12 855	4 494	3 802	1 778	2 781		
SOME OR ALL WINDOWS COVERED	29 741	5 680	24 061	6 040	5 870	2 922	9 229		
NONE ADDED OR INSTALLED	25 605	4 790	20 815	5 333	5 124	2 524	7 834		
SOME OR ALL ADDED OR INSTALLED	3 830	810	3 020	640	688	372	1 321		
NOT REPORTED	307	81	226	67	58	26	74		
NOT REPORTED	195	47	148	39	26	14	69		
STORM DOORS:									
NO DOORS COVERED	16 513	4 702	11 811	4 140	3 317	1 603	2 751		
SOME OR ALL DOORS COVERED	30 262	5 197	25 065	6 381	6 340	3 091	9 253		
NONE ADDED OR INSTALLED	26 763	4 243	22 521	5 724	5 695	2 773	8 328		
SOME OR ALL ADDED OR INSTALLED	2 757	788	1 969	514	502	252	702		
NOT REPORTED	742	166	576	144	143	66	223		
NOT REPORTED	254	66	188	52	41	20	75		
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION	6 836	386	6 450	818	1 219	1 011	3 402		
WITH ATTIC OR ROOF INSULATION	38 132	9 234	28 898	9 309	8 133	3 502	7 955		
NONE ADDED OR INSTALLED	33 293	7 982	25 311	8 269	7 139	3 058	6 845		
SOME OR ALL ADDED OR INSTALLED	3 864	951	2 913	781	803	373	957		
LESS THAN 3 INCHES ADDED	248	54	194	68	49	21	56		
3 TO 6 INCHES ADDED	1 638	311	1 327	355	373	177	421		
6 INCHES OR MORE ADDED	1 520	457	1 063	271	294	135	364		
DON'T KNOW	306	91	215	57	61	19	79		
NOT REPORTED	153	39	114	31	25	21	36		
NOT REPORTED	974	300	674	259	192	71	153		
DON'T KNOW	1 820	294	1 526	393	314	181	639		
NOT REPORTED	241	51	190	53	33	21	83		
WALL INSULATION:									
NONE ADDED OR INSTALLED	43 957	9 094	34 863	10 078	9 239	4 452	11 094		
SOME OR ALL ADDED OR INSTALLED	2 790	785	2 005	443	417	243	901		
NOT REPORTED	282	85	197	52	42	19	84		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:									
NONE ADDED OR INSTALLED	36 080	7 717	28 363	8 180	7 477	3 706	9 000		
SOME OR ALL ADDED OR INSTALLED	10 360	2 105	8 255	2 265	2 121	987	2 912		
DON'T KNOW	402	93	309	97	68	34	110		
NOT REPORTED	187	49	138	32	32	17	57		
OTHER INSULATION:									
NONE ADDED OR INSTALLED	44 487	9 157	35 330	10 062	9 312	4 529	11 426		
SOME OR ALL ADDED OR INSTALLED	2 239	724	1 514	455	333	162	564		
NOT REPORTED	304	83	220	56	53	23	89		

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	8 936	852	8 084	1 441	1 525	1 280	3 838		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS:									
NO WINDOWS COVERED	4 992	471	4 521	857	988	875	1 801		
SOME OR ALL WINDOWS COVERED	3 575	306	3 269	491	474	375	1 929		
NONE ADDED OR INSTALLED	2 877	255	2 622	424	388	304	1 507		
SOME OR ALL ADDED OR INSTALLED	617	38	579	55	78	61	385		
NOT REPORTED	81	13	68	12	9	10	37		
NOT REPORTED	369	75	294	93	62	31	108		
STORM DOORS:									
NO DOORS COVERED	5 150	509	4 642	919	915	845	1 963		
SOME OR ALL DOORS COVERED	3 374	262	3 112	423	537	398	1 754		
NONE ADDED OR INSTALLED	2 989	226	2 762	367	474	349	1 573		
SOME OR ALL ADDED OR INSTALLED	237	26	212	27	36	32	117		
NOT REPORTED	148	10	138	30	27	18	64		
NOT REPORTED	412	81	330	100	72	38	121		
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION	2 783	86	2 697	252	405	477	1 563		
WITH ATTIC OR ROOF INSULATION	3 608	515	3 093	709	691	412	1 281		
NONE ADDED OR INSTALLED	3 137	458	2 678	632	607	363	1 077		
SOME OR ALL ADDED OR INSTALLED	311	39	272	32	46	33	161		
LESS THAN 3 INCHES ADDED	19	1	18	1	3	2	12		
3 TO 6 INCHES ADDED	102	8	94	6	16	13	59		
6 INCHES OR MORE ADDED	68	7	61	8	9	9	36		
DON'T KNOW	100	20	80	13	17	8	42		
NOT REPORTED	22	3	19	5	-	2	12		
NOT REPORTED	160	17	143	45	39	16	43		
DON'T KNOW	2 150	177	1 973	381	361	356	875		
NOT REPORTED	395	75	320	99	67	35	119		
WALL INSULATION:									
NONE ADDED OR INSTALLED	8 222	744	7 478	1 291	1 409	1 202	3 576		
SOME OR ALL ADDED OR INSTALLED	184	18	165	12	27	23	103		
NOT REPORTED	530	89	441	139	88	55	159		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:									
NONE ADDED OR INSTALLED	6 924	637	6 286	1 090	1 178	1 044	2 975		
SOME OR ALL ADDED OR INSTALLED	1 004	56	948	106	185	116	541		
DON'T KNOW	634	82	551	148	101	90	212		
NOT REPORTED	374	76	299	97	61	31	110		
OTHER INSULATION:									
NONE ADDED OR INSTALLED	8 243	745	7 497	1 275	1 415	1 216	3 592		
SOME OR ALL ADDED OR INSTALLED	201	21	180	32	25	20	102		
NOT REPORTED	493	85	407	134	85	45	144		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED	47 029	9 965	37 064	10 573	9 698	4 714	12 079		
NO INSULATION ADDED OR INSTALLED	29 880	6 322	23 558	6 834	6 260	3 118	7 347		
WITH INSULATION ADDED OR INSTALLED	15 384	3 175	12 209	3 328	3 094	1 447	4 380		
LESS THAN \$50	6 708	1 287	5 421	1 580	1 326	624	1 890		
\$50 TO \$99	1 547	334	1 213	312	295	156	449		
\$100 TO \$199	1 584	351	1 234	350	301	146	436		
\$200 TO \$399	1 461	295	1 166	316	335	148	368		
\$400 OR MORE	2 198	465	1 733	405	462	197	669		
DON'T KNOW	786	245	541	145	133	77	186		
NOT REPORTED	1 100	199	901	220	242	98	341		
MEDIAN	51	62	50-	50-	56	54	52		
NOT REPORTED OR DON'T KNOW	1 765	467	1 298	412	344	150	392		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 196	185	1 011	209	236	122	444		
LESS THAN \$50	486	78	408	80	78	49	201		
\$50 TO \$99	123	15	108	25	29	14	41		
\$100 TO \$199	141	23	118	27	25	11	55		
\$200 TO \$399	110	22	89	16	29	16	28		
\$400 OR MORE	130	18	112	25	29	16	42		
DON'T KNOW	47	10	38	11	11	2	13		
NOT REPORTED	157	19	139	24	36	15	64		
MEDIAN	54	50	54	63	79	64	50-		

TABLE A-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	MARCH 1970	1960 TO 1959	1950 TO 1959	1940 TO 1949		
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	898	243	655	198	158	94	205		
LESS THAN \$50	147	25	122	39	23	24	36		
\$50 TO \$99.	314	92	223	56	57	39	70		
\$100 TO \$199.	232	77	156	59	43	17	36		
\$200 TO \$399.	65	19	46	15	11	-	21		
\$400 OR MORE.	34	7	27	10	7	2	8		
DON'T KNOW.	19	5	15	5	4	2	3		
NOT REPORTED.	86	20	66	14	13	9	30		
MEDIAN.	89	95	86	94	91	72	85		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	2 086	413	1 673	508	434	201	530		
LESS THAN \$50	304	75	229	64	55	29	81		
\$50 TO \$99.	276	55	221	68	46	34	73		
\$100 TO \$199.	328	57	270	84	71	40	76		
\$200 TO \$399.	408	64	344	111	113	40	81		
\$400 OR MORE.	401	59	341	103	81	25	132		
DON'T KNOW.	191	62	128	43	29	20	36		
NOT REPORTED.	179	40	139	36	38	13	52		
MEDIAN.	184	144	193	198	219	151	188		

TABLE A-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978
(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													NO ELEC- TRICITY USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)
		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					
SPECIFIED OWNER OCCUPIED ²	40 054	707	5 980	9 222	8 071	5 036	3 917	3 972	1 518	1 290	316	26	35			
HOUSE HEATING FUEL																
ELECTRICITY	5 590	20	189	420	535	603	812	1 391	734	711	174	-	63			
OTHER THAN ELECTRICITY	34 297	685	5 782	8 772	7 501	4 393	3 090	2 552	781	575	142	25	32			
UTILITY GAS	24 428	540	4 442	6 383	5 258	2 907	2 092	1 736	546	421	95	8	31			
BOTTLED, TANK, OR LP GAS	1 572	27	240	381	326	230	154	130	44	30	5	4	34			
FUEL OIL	7 572	96	955	1 828	1 766	1 164	782	633	183	120	40	2	35			
KEROSENE, ETC	156	2	30	36	37	18	15	14	1	2	2	-	32			
COAL OR COKE	168	8	29	47	31	23	11	15	1	-	-	-	29			
WOOD	390	10	86	95	79	48	33	23	5	2	2	-	29			
SOLAR HEAT	3	-	-	-	-	-	2	-	1	-	-	-	33			
OTHER FUEL	9	-	-	1	4	3	1	-	-	-	-	-	33			
NONE	168	2	9	31	35	40	15	28	3	3	-	2	42			
WATER HEATING FUEL ³																
ELECTRICITY	12 365	90	903	1 856	2 056	1 767	1 598	2 120	953	823	199	-	47			
OTHER FUEL	27 399	582	4 960	7 293	5 985	3 254	2 315	1 848	563	467	116	16	31			
NONE	7	1	1	4	1	-	-	-	-	-	-	1	33			
COOKING FUEL																
ELECTRICITY	23 001	166	2 272	4 629	4 632	3 119	2 635	3 002	1 226	1 057	263	-	39			
OTHER FUEL	17 044	536	3 708	4 592	3 439	1 916	1 282	3 969	293	233	53	25	28			
NONE	8	5	-	2	-	1	-	-	-	-	-	2	33			
ALL ELECTRIC HOUSING UNITS																
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	4 947	9	144	314	424	517	746	1 289	687	685	161	-	65			
ALL OTHER FUEL COMBINATIONS OR NONE	35 107	698	5 836	8 907	7 647	4 519	3 171	2 683	831	634	155	26	33			
HEATING EQUIPMENT																
WARM-AIR FURNACE	24 540	309	3 270	5 802	5 083	3 213	2 480	2 445	919	812	204	5	35			
HEAT PUMP	763	6	9	25	42	75	124	209	111	137	26	-	69			
STEAM OR HOT WATER	5 232	64	739	1 359	1 343	701	490	338	110	62	24	2	33			
BUILT-IN ELECTRIC UNITS	2 365	8	121	225	263	290	349	583	269	209	47	-	57			
FLOOR, WALL, OR PIPELESS FURNACE	2 953	151	891	752	531	266	153	139	40	22	7	-	25			
ROOM HEATERS WITH FLUE	1 708	96	440	442	328	163	113	82	27	10	2	4	26			
ROOM HEATERS WITHOUT FLUE	1 416	43	343	364	272	167	116	70	20	15	5	2	28			
FIREPLACES, STOVES, OR PORTABLE HEATERS	910	27	159	222	174	121	77	78	18	19	2	12	32			
NONE	168	2	9	31	35	40	15	28	3	3	-	2	42			
THERMOSTAT CONTROLLED HEATING EQUIPMENT																
NO HEATING EQUIPMENT	168	2	9	31	35	40	15	28	3	3	-	2	42			
WITH HEATING EQUIPMENT	39 886	705	5 971	9 191	8 036	4 996	3 902	3 943	1 515	1 286	316	25	35			
NO THERMOSTAT CONTROL	3 996	178	947	964	716	420	322	267	96	58	11	18	28			
WITH THERMOSTAT CONTROL	35 781	524	5 004	8 203	7 298	4 562	3 571	3 667	1 418	1 225	304	6	35			
NOT CLOCK OPERATED	31 121	463	4 368	7 309	6 409	3 917	3 072	3 146	1 192	1 002	281	2	35			
CONSTANT TEMPERATURE SETTING MAINTAINED	9 381	149	1 266	2 014	2 013	1 194	985	989	411	319	62	-	36			
TEMPERATURE SETTING IS CHANGED	21 601	309	3 088	5 264	4 364	2 712	2 089	2 141	779	675	178	2	34			
OCCASIONALLY	5 659	76	713	1 291	1 155	731	551	628	255	204	56	-	36			
REGULARLY	15 734	230	2 353	3 916	3 165	1 948	1 519	1 499	515	468	117	2	34			
DON'T KNOW	183	3	16	51	40	25	16	13	9	3	6	-	35			
NOT REPORTED	26	-	7	8	2	8	1	1	-	-	-	-	35			
NOT REPORTED	138	5	14	31	32	11	18	17	2	8	-	-	35			
CLOCK OPERATED	4 498	58	607	858	866	617	489	505	220	215	60	-	36			
NOT REPORTED	162	3	29	35	24	28	11	16	6	6	3	3	36			
NOT REPORTED	110	3	20	25	21	15	8	9	1	4	2	-	32			
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 078	29	168	253	209	161	93	106	22	23	2	14	34			
WITH SELECTED HEATING EQUIPMENT	38 976	678	5 812	8 969	7 862	4 875	3 824	3 866	1 497	1 267	314	12	35			
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	36 872	653	5 599	8 492	7 412	4 579	3 609	3 631	1 397	1 206	294	12	34			
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 880	20	188	421	395	266	194	220	92	57	26	1	37			
SOLAR HEATING EQUIPMENT	6	-	-	1	2	4	-	-	-	-	-	-	37			
STOVE, BURNING WOOD OR COAL	666	1	68	151	157	93	65	84	34	25	8	1	37			
FIREPLACE, BURNING WOOD OR COAL	289	-	14	38	58	46	28	39	12	13	2	-	43			
PORTABLE ELECTRIC HEATER	464	7	65	118	93	61	49	40	19	6	7	-	34			
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	105	5	8	26	18	21	12	8	6	1	1	-	37			
OTHER	343	6	31	75	64	41	38	48	18	12	10	-	38			
NOT REPORTED	33	1	2	14	4	3	3	2	3	-	-	-	34			
NOT REPORTED	224	5	25	57	54	30	22	15	8	5	5	-	34			
AGE OF HEATING EQUIPMENT																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 202	168	950	1 059	808	491	322	258	69	48	9	20	28			
WITH SELECTED HEATING EQUIPMENT ⁴	35 853	539	5 029	8 163	7 262	4 546	3 595	3 713	1 450	1 242	307	6	35			
LESS THAN 4 YEARS	6 277	58	617	1 188	1 096	771	741	959	405	358	84	-	42			
4 TO 9 YEARS	8 809	75	879	1 733	1 666	1 144	1 054	1 158	505	488	111	4	40			
10 TO 19 YEARS	10 929	144	1 445	2 552	2 427	1 473	1 074	1 067	371	311	66	1	35			
20 TO 39 YEARS	7 081	177	1 540	1 975	1 479	806	536	369	112	57	31	2	28			
40 YEARS OR MORE	664	39	169	179	135	67	38	23	12	1	2	-	26			
DON'T KNOW	1 743	38	336	446	378	240	130	114	34	20	6	1	31			
NOT REPORTED	349	8	43	89	80	45	34	23	11	7	6	-	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: 1978--CONTINUED
 (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												MEDIAN (DOL- LARS)		
		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 ELEC- TRICITY USED OR NOT REPORTED ¹				
SPECIFIED OWNER OCCUPIED²--CONTINUED																
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	4 202	168	950	1 059	808	491	322	258	69	1 48	9	20	28			
WITH SELECTED HEATING EQUIPMENT?	35 853	539	5 029	8 163	7 262	4 546	3 595	3 713	1 450	1 242	307	6	35			
NO MAINTENANCE OR MODIFICATION.	27 465	445	3 869	6 198	5 489	3 398	2 770	2 937	1 145	1 993	217	5	35			
WITH MAINTENANCE OR MODIFICATION.	8 056	85	1 116	1 883	1 711	1 105	794	753	287	241	81	2	35			
NOT REPORTED.	331	10	45	82	63	42	32	24	17	8	10	-	34			
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	4 202	168	950	1 059	808	491	322	258	69	1 48	9	20	28			
WITH SELECTED HEATING EQUIPMENT?	35 853	539	5 029	8 163	7 262	4 546	3 595	3 713	1 450	1 242	307	6	35			
NO MAINTENANCE CONTRACT.	30 965	477	4 430	7 129	6 201	3 866	3 038	3 215	1 252	1 096	254	6	35			
WITH MAINTENANCE CONTRACT.	4 457	51	535	925	975	633	516	463	183	132	45	-	37			
NOT REPORTED.	431	11	65	108	86	48	41	35	15	14	8	-	33			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																
NO HOT PIPED WATER.	282	34	115	68	27	15	5	4	2	-	1	10	18			
WITH HOT PIPED WATER.	39 770	673	5 864	9 152	8 042	5 021	3 912	3 968	1 516	1 290	315	16	35			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	38 956	647	5 737	8 960	7 882	4 911	3 827	3 923	1 493	1 265	299	12	35			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	220	2	28	54	52	27	18	12	8	13	6	-	34			
NOT REPORTED.	575	23	99	133	106	79	66	31	12	12	11	3	33			
NOT REPORTED.	2	-	-	2	1	-	-	-	-	-	-	-	-			
AIR CONDITIONING																
WITH AIR CONDITIONING.	23 582	128	1 901	4 333	4 823	3 423	2 990	3 294	1 284	1 146	258	1	42			
ROOM UNITS.	12 221	99	1 517	2 979	2 934	1 763	1 221	1 110	341	226	30	1	35			
1.	7 192	86	1 143	1 903	1 747	944	572	529	152	105	10	1	32			
2.	3 583	8	299	847	864	558	415	386	126	73	7	-	37			
3.	1 020	4	57	176	231	189	165	117	37	34	11	-	42			
4.	297	2	15	39	66	51	51	48	14	9	2	-	45			
5 OR MORE.	129	-	3	15	26	20	19	30	12	5	-	-	51			
CENTRAL SYSTEM.	11 361	29	384	1 353	1 890	1 661	1 769	2 185	943	920	228	-	52			
WITH NO AIR CONDITIONING.	16 472	579	4 079	4 889	3 247	1 613	927	677	234	144	59	25	27			
PERSONS																
1 PERSON.	5 233	387	1 855	1 444	685	323	235	213	37	37	7	9	22			
2 PERSONS.	12 272	208	2 254	3 352	2 538	1 380	1 002	938	315	225	57	4	31			
3 PERSONS.	7 351	59	834	1 671	1 570	984	787	844	305	251	45	1	36			
4 PERSONS.	7 980	33	637	1 559	1 630	1 192	983	1 050	430	378	84	6	41			
5 PERSONS.	4 209	14	243	740	939	628	548	545	260	224	63	4	42			
6 PERSONS.	1 846	2	104	279	423	316	220	259	90	121	33	1	43			
7 PERSONS OR MORE.	1 163	5	53	177	286	214	142	123	81	54	27	1	43			
MEDIAN.	2.8	1.5-	2.0	2.4	3.0	3.3	3.4	3.5	3.7	3.8	4.1	-	-			
SPECIFIED OWNER OCCUPIED ²																
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS.	40 054	707	5 980	9 222	8 071	5 036	3 917	3 972	1 518	1 290	316	26	35			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	40 054	707	5 980	9 222	8 071	5 036	3 917	3 972	1 518	1 290	316	26	35			
ALL WINDOWS COVERED.	21 284	258	2 801	5 165	4 701	2 885	2 077	1 961	721	593	154	8	35			
SOME WINDOWS COVERED.	4 241	97	675	1 041	885	544	363	382	120	91	38	4	33			
NO WINDOWS COVERED.	14 384	350	2 480	2 982	2 432	1 629	1 463	1 617	672	601	124	14	35			
NOT REPORTED.	146	2	23	33	33	18	14	12	6	5	-	-	34			
STORM DOORS																
ALL DOORS COVERED.	20 849	274	2 900	5 263	4 705	2 813	1 983	1 735	590	466	110	9	34			
SOME DOORS COVERED.	5 444	99	674	1 167	1 069	717	572	642	267	200	36	2	37			
NO DOORS COVERED.	13 567	330	2 375	2 743	2 260	1 489	1 342	1 578	653	613	166	16	35			
NOT REPORTED.	194	3	31	49	36	17	20	16	8	11	3	-	33			
ATTIC OR ROOF INSULATION																
YES.	32 702	386	4 123	7 268	6 687	4 316	3 481	3 583	1 366	1 197	285	10	36			
NO.	5 739	275	1 530	1 497	1 069	537	330	292	109	63	20	17	26			
DON'T KNOW.	1 436	40	296	411	282	164	89	84	38	22	11	-	28			
NOT REPORTED.	177	6	30	45	32	20	17	12	6	8	-	-	32			
SPECIFIED RENTER OCCUPIED ²																
HOUSE HEATING FUEL	26 247	2 510	6 877	4 988	2 867	1 402	874	707	189	151	44	5 636	22			
ELECTRICITY OTHER THAN ELECTRICITY.	4 759	217	640	766	653	519	365	328	89	63	19	1 079	33			
UTILITY GAS.	21 118	2 262	6 163	4 160	2 167	862	499	370	99	68	26	4 441	19			
BOTTLED, TANK, OR LP GAS.	14 220	1 756	4 353	2 701	1 371	534	307	248	68	44	22	2 816	18			
FUEL OIL.	5 519	400	1 472	1 165	582	224	128	79	17	14	4	1 414	27			
KEROSENE, ETC.	133	12	25	32	22	18	7	6	2	1	-	10	27			
COAL OR COKE.	128	20	42	18	21	8	3	-	-	-	-	15	18			
WOOD.	259	27	87	51	40	15	9	5	2	1	-	21	21			
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-	-	-	-			
OTHER FUEL.	100	15	10	2	2	2	-	-	-	-	-	70	-			
NONE.	370	31	74	61	48	20	10	9	1	-	-	116	23			

¹RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

⁴LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

⁵EXCLUDES 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: 1978--CONTINUED
(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												NO ELECTRICITY USED OR NOT REPORTED ¹	MEDIAN (DOLLARS)			
		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	\$100 OR MORE	\$100 OR MORE					
		\$10	\$19	\$29	\$39	\$49	\$59	\$79	\$99	\$149	\$149	\$149	\$149					
SPECIFIED RENTER OCCUPIED²--CONTINUED																		
WATER+HEATING FUEL³																		
ELECTRICITY	7 027	284	1 101	1 281	1 149	752	478	428	120	101	17	1 314	31					
OTHER FUEL	18 817	2 162	5 619	3 628	1 685	644	392	278	68	48	28	4 265	18					
NONE.	17	3	4	3	2	2	-	-	-	-	-	4	4	***				
COOKING FUEL																		
ELECTRICITY	10 575	810	2 176	1 899	1 457	868	581	477	125	110	30	2 042	26					
OTHER FUEL	15 454	1 696	4 693	3 081	1 409	534	293	230	65	90	15	3 399	18					
NONE.	217	3	9	8	1	-	-	1	-	1	-	195	***					
ALL ELECTRIC HOUSING UNITS																		
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL.	3 762	117	460	629	553	448	314	286	83	73	17	782	35					
ALL OTHER FUEL COMBINATIONS OR NONE	22 485	2 393	6 417	4 360	2 315	954	559	422	106	79	28	4 855	20					
HEATING EQUIPMENT																		
WARM-AIR FURNACE.	9 377	579	2 051	1 889	1 159	662	441	386	105	97	22	1 985	25					
HEAT PUMP	226	6	23	24	33	36	19	30	10	3	-	42	41					
STEAM OR HOT WATER.	6 997	734	2 094	1 264	533	150	93	32	9	6	5	2 076	17					
BUILT-IN ELECTRIC UNITS.	2 459	169	449	446	347	218	143	109	30	21	10	516	27					
FLOOR, WALL, OR PIPELESS FURNACE.	2 809	525	987	466	248	98	52	45	18	6	3	366	16					
ROOM HEATERS WITH FLUE.	2 050	258	611	413	240	103	43	39	9	5	2	328	19					
ROOM HEATERS WITHOUT FLUE.	1 310	135	399	306	156	75	54	39	7	10	-	129	22					
FIRESIDES, STOVES, OR PORTABLE HEATERS	648	70	191	120	104	39	19	19	3	4	2	78	22					
NONE.	370	31	74	61	48	20	10	9	1	-	-	116	23					
THERMOSTAT CONTROLLED HEATING EQUIPMENT																		
NO HEATING EQUIPMENT.	370	31	74	61	48	20	10	9	1	-	-	116	23					
WITH HEATING EQUIPMENT.	25 877	2 478	6 804	4 927	2 820	1 382	864	699	189	151	44	5 520	22					
NO THERMOSTAT CONTROL	9 850	1 201	2 746	1 768	848	332	194	127	30	21	6	2 576	18					
WITH THERMOSTAT CONTROL	15 970	1 274	4 042	3 147	1 968	1 047	669	571	158	130	39	2 925	23					
NOT CLOCK OPERATED.	13 981	1 166	3 596	2 735	1 721	905	562	483	124	107	27	2 555	23					
CONSTANT TEMPERATURE SETTING MAINTAINED	4 571	376	1 124	827	544	282	160	176	48	44	8	982	23					
TEMPERATURE SETTING IS CHANGED	9 266	779	2 935	1 887	1 155	612	396	299	74	62	19	1 549	23					
OCCASIONALLY.	2 943	265	765	569	350	183	125	87	25	16	5	552	23					
REGULARLY.	6 150	503	1 638	1 294	784	412	260	202	47	45	15	952	23					
DON'T KNOW.	161	11	30	22	18	17	10	10	2	1	-	42	28					
NOT REPORTED.	12	-	3	2	1	-	-	-	-	-	-	3	**					
CLOCK OPERATED.	1 886	106	425	386	234	134	102	86	36	22	11	345	26					
NOT REPORTED.	102	2	20	26	13	9	5	2	-	-	-	25	26					
NOT REPORTED.	57	3	16	11	4	2	-	2	-	-	-	19	20					
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 018	102	264	181	152	60	29	28	4	4	2	194	22					
WITH SELECTED HEATING EQUIPMENT*.	25 229	2 408	6 613	4 807	2 716	1 342	845	679	185	147	43	5 442	22					
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	24 184	2 327	6 314	4 565	2 596	1 303	809	648	180	145	42	5 254	22					
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	884	72	261	212	94	37	31	27	3	2	1	142	22					
SOLAR HEATING EQUIPMENT.	1	-	1	-	-	-	-	-	-	-	-	-	-	-				
STOVE, BURNING WOOD OR COAL.	58	1	11	16	13	8	3	2	-	-	-	4	28					
FIREFPLACE, BURNING WOOD OR COAL.	16	-	5	5	2	1	-	2	-	-	-	1	**					
PORTABLE ELECTRIC HEATER.	632	57	189	148	58	17	27	19	1	2	1	114	21					
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	78	8	28	23	8	5	1	2	-	-	-	4	21					
OTHER.	89	5	28	16	14	4	1	2	2	-	-	17	22					
NOT REPORTED.	15	2	2	4	2	4	4	-	-	-	-	3	**					
NOT REPORTED.	161	8	38	30	26	2	5	4	3	-	-	46	23					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																		
NO HOT PIPED WATER.	386	60	153	75	31	5	4	2	1	1	-	53	16					
WITH HOT PIPED WATER.	25 861	2 450	6 724	4 913	2 836	1 397	870	706	188	149	44	5 583	22					
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	25 206	2 385	6 569	4 781	2 755	1 368	854	697	181	146	44	5 424	22					
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	112	18	30	20	11	3	3	3	-	3	2	21	18					
NOT REPORTED.	523	43	120	108	66	24	12	8	4	2	-	134	23					
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
AIR CONDITIONING																		
WITH AIR CONDITIONING	11 849	644	2 582	2 282	1 674	969	636	548	167	132	25	2 188	26					
ROOM UNITS.	7 310	535	1 972	1 581	1 092	497	287	202	65	41	4	1 034	24					
1.	5 611	482	1 643	1 158	788	341	181	131	32	22	2	831	22					
2.	1 433	50	282	362	254	129	90	60	27	15	-	164	28					
3.	217	3	34	54	38	26	15	8	4	3	2	30	31					
4.	37	-	11	5	11	-	-	2	2	1	-	5	**					
5 OR MORE.	12	-	2	2	2	-	1	-	-	-	-	5	**					
CENTRAL SYSTEM.	4 539	109	610	702	582	472	350	346	102	91	21	1 154	34					
WITH NO AIR CONDITIONING.	14 398	1 866	4 295	2 706	1 193	433	237	159	22	19	19	3 449	18					
PERSONS																		
1 PERSON.	9 484	1 510	2 756	1 300	652	264	129	88	9	17	9	2 749	16					
2 PERSONS.	7 613	603	2 166	1 635	848	460	287	176	38	33	4	1 365	22					
3 PERSONS.	4 184	213	1 007	913	610	276	198	169	47	26	4	721	25					
4 PERSONS.	2 697	101	556	628	396	218	141	132	58	38	16	413	27					
5 PERSONS.	1 206	44	223	266	195	90	56	75	17	22	9	209	28					
6 PERSONS.	538	15	95	126	83	49	36	32	13	8	2	79	28					
7 PERSONS OR MORE.	525	23	74	120	84	46	27	36	7	8	7	100	29					
MEDIAN.	2.0	1.5	1.8	2.2	2.4	2.4	2.6	3.0	3.5	3.5	3.5	3.5	1.5	**				

*RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

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

²LIMITED TO HEATING UNITS WITH HOT PIPED WATER.

³EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

⁴LIMITED 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: 1978--CONTINUED
 (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												MEDIAN (DOL- LARS)
		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 ELEC- TRICITY USED OR NOT REPORTED ¹		
SPECIFIED RENTER OCCUPIED ²	26 247	2 510	6 877	4 988	2 867	1 402	874	707	189	151	44	5 636	22	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 299	468	2 022	1 949	1 291	617	436	422	123	105	26	842	26	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED	2 266	62	474	570	393	197	137	118	30	25	5	255	27	
SOME WINDOWS COVERED	967	50	217	255	165	68	50	46	14	12	4	85	26	
NO WINDOWS COVERED	4 704	322	1 249	1 051	701	334	237	248	77	66	15	405	25	
NOT REPORTED	362	33	82	73	32	18	12	10	3	2	2	96	22	
STORM DOORS														
ALL DOORS COVERED	2 170	61	458	556	409	184	119	100	20	20	6	236	27	
SOME DOORS COVERED	895	33	219	213	133	75	60	47	22	8	5	80	27	
NO DOORS COVERED	4 831	335	1 260	1 093	712	339	243	260	76	73	13	427	25	
NOT REPORTED	403	38	85	88	37	19	14	15	5	3	2	98	23	
ATTIC OR ROOF INSULATION														
YES	3 319	115	648	744	587	315	236	231	67	66	11	337	29	
NO	2 516	185	743	625	375	142	105	94	26	21	7	193	23	
DON'T KNOW	2 076	132	538	504	335	137	83	86	27	16	6	213	25	
NOT REPORTED	388	36	92	76	34	23	12	11	3	2	2	98	22	

¹RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)
		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				
SPECIFIED OWNER OCCUPIED ²	40 054	2 867	3 098	3 049	3 293	2 961	5 851	3 853	3 474	993	369	10 246	29		
HOUSE HEATING FUEL															
GAS	26 000	1 586	2 335	2 569	2 958	2 742	5 567	3 671	3 292	941	339	-	31		
UTILITY GAS	24 428	1 481	2 228	2 435	2 785	2 600	5 294	3 471	3 026	834	273	-	31		
BOTTLED, TANK, OR LP GAS.	1 572	105	106	134	173	142	273	200	266	107	66	-	34		
OTHER THAN GAS	13 887	1 261	748	472	326	215	279	182	182	52	30	10 139	13		
FUEL OIL	7 572	959	535	382	221	125	170	110	109	29	20	4 952	13		
KEROSENE, ETC.	156	18	20	12	8	4	3	1	3	3	1	84	14		
ELECTRICITY	5 590	221	149	81	77	81	86	57	58	17	7	4 756	17		
COAL OR COKE	168	25	14	10	7	1	7	2	3	-	1	98	13		
WOOD	390	39	31	26	14	5	13	10	7	3	2	243	16		
SOLAR HEAT	3	-	-	2	-	-	-	-	-	-	-	1	1		
OTHER FUEL	9	-	-	-	-	1	-	2	2	-	-	5	1		
NONE	168	20	15	8	9	3	5	-	-	-	-	108	13		
WATER HEATING FUEL ³															
GAS	24 582	1 704	2 517	2 558	2 774	2 513	5 047	3 312	2 993	859	305	-	30		
UTILITY GAS	23 314	1 606	2 391	2 405	2 637	2 401	4 857	3 168	2 808	785	254	-	30		
BOTTLED, TANK, OR LP GAS	1 268	98	126	152	137	112	190	148	188	74	51	-	30		
OTHER FUEL	15 181	1 119	547	453	501	435	778	522	462	132	63	10 170	3	23	***
NONE	7	1	1	1	-	-	2	-	-	-	-	-	-	-	
COOKING FUEL															
GAS	16 911	1 927	1 992	1 782	1 807	1 532	3 036	2 089	1 956	581	207	-	27		
UTILITY GAS	14 988	1 427	1 754	1 563	1 625	1 415	2 817	1 946	1 768	516	162	-	28		
BOTTLED, TANK, OR LP GAS	1 923	500	238	218	182	118	219	143	198	66	45	-	20		
OTHER FUEL	23 135	940	1 105	1 267	1 486	1 428	2 815	1 762	1 516	412	162	10 242	5	31	***
NONE	8	-	1	1	-	-	2	2	-	-	-	-	-	-	
ALL GAS HOUSING UNITS															
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	13 336	899	1 367	1 308	1 456	1 281	2 711	1 876	1 731	529	177	-	31		
ALL OTHER FUEL COMBINATIONS OR NONE	26 718	1 968	1 732	1 741	1 837	1 680	3 139	1 977	1 743	464	192	10 246	28		
HEATING EQUIPMENT															
WARM-AIR FURNACE	24 540	1 270	1 631	1 840	2 219	2 143	4 570	2 966	2 540	629	199	4 535	32		
HEAT PUMP	763	21	23	3	6	6	8	8	14	2	3	669	19		
STEAM OR HOT WATER	5 232	552	320	221	215	196	447	448	614	263	120	1 835	34		
BUILT-IN ELECTRIC UNITS	2 365	97	40	22	20	23	19	10	15	6	2	2 126	13		
FLOOR, WALL, OR PIPELESS FURNACE	2 953	471	614	446	360	256	340	152	77	32	14	190	18		
ROOM HEATERS WITH FLUE	1 708	174	183	178	194	155	208	134	108	38	18	320	23		
ROOM HEATERS WITHOUT FLUE	1 416	149	184	268	225	203	209	103	83	10	16	462	16		
FIREPLACES, STOVES, OR PORTABLE HEATERS	910	112	88	63	46	25	45	33	24	8	4	462	16		
NONE	168	20	15	8	9	3	5	-	-	-	-	108	13		
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT	168	20	15	8	9	3	5	-	-	-	-	108	13		
WITH HEATING EQUIPMENT	39 886	2 847	3 083	3 041	3 284	2 957	5 846	3 853	3 474	993	369	10 139	29		
NO THERMOSTAT CONTROL	3 996	514	546	527	404	295	413	193	175	43	27	858	19		
WITH THERMOSTAT CONTROL	35 781	2 318	2 528	2 507	2 874	2 656	5 411	3 684	3 287	945	380	9 261	31		
NOT CLOCK OPERATED	31 121	2 021	2 105	2 123	2 447	2 322	4 625	3 235	2 880	759	271	8 132	31		
CONSTANT TEMPERATURE SETTING MAINTAINED	9 381	673	583	595	664	691	1 523	1 035	866	203	73	2 475	31		
TEMPERATURE SETTING IS CHANGED OCCASIONALLY	21 601	1 330	1 505	1 521	1 778	1 627	3 289	2 185	1 995	555	198	5 619	31		
REGULARLY	5 659	361	391	353	456	392	857	613	578	179	49	1 430	32		
DON'T KNOW	15 734	957	1 090	1 148	1 313	1 218	2 412	1 561	1 390	372	146	4 126	30		
NOT REPORTED	183	12	19	17	7	16	17	12	23	3	3	56	27		
CLOCK OPERATED	4 498	279	402	369	411	319	561	409	398	182	68	1 100	28		
NOT REPORTED	162	18	21	16	16	15	25	10	9	3	2	23	20		
NOT REPORTED	110	15	10	7	6	6	22	6	12	6	2	20	31		
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 078	132	103	71	55	28	49	33	24	8	4	570	16		
WITH SELECTED HEATING EQUIPMENT ⁴	38 976	2 735	2 995	2 978	3 238	2 933	5 801	3 820	3 450	985	365	9 676	29		
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	36 872	2 597	2 844	2 831	3 114	2 782	5 525	3 649	3 286	939	340	8 965	29		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	1 880	113	134	129	110	139	233	160	137	36	22	667	28		
SOLAR HEATING EQUIPMENT	6	-	1	-	1	-	2	1	-	-	-	2	2		
STOVE, BURNING WOOD OR COAL	686	34	35	39	24	35	60	52	44	8	8	347	30		
Fireplace, Burning Wood or Coal	249	13	16	8	11	11	41	24	15	7	3	100	33		
PORTABLE ELECTRIC HEATER	464	27	42	43	39	43	77	39	41	11	4	99	28		
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	105	9	7	8	11	10	15	14	10	2	1	18	28		
OTHER	343	28	30	26	21	39	29	31	27	8	7	97	27		
NOT REPORTED	33	3	4	4	2	3	7	-	-	-	-	8	8		
NOT REPORTED	224	24	17	18	14	12	44	12	27	11	2	44	31		
AGE OF HEATING EQUIPMENT															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 202	456	470	517	474	336	466	270	214	61	32	905	22		
WITH SELECTED HEATING EQUIPMENT ³	35 853	2 411	2 628	2 532	2 819	2 625	5 384	3 583	3 259	932	337	9 341	30		
LESS THAN 4 YEARS	6 277	389	415	394	425	396	761	456	393	117	54	2 476	28		
4 TO 9 YEARS	8 809	462	500	568	669	648	1 355	823	858	240	89	2 595	32		
10 TO 19 YEARS	10 929	611	658	811	936	871	1 855	1 270	1 145	328	106	2 327	32		
20 TO 39 YEARS	7 081	674	762	523	570	496	1 019	704	569	163	58	1 593	27		
40 YEARS OR MORE	664	87	104	52	44	34	82	86	60	19	9	86	25		
DON'T KNOW	1 743	169	163	153	152	143	244	215	196	47	15	297	28		
NOT REPORTED	349	18	17	30	22	36	68	29	38	17	5	67	32		

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: 1978--CONTINUED
 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												MEDIAN (DOL- LARS)		
		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				
SPECIFIED OWNER OCCUPIED²--CONTINUED																
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	4 202	456	470	517	474	336	466	270	214	61	32	905	22			
WITH SELECTED HEATING EQUIPMENT ³	35 853	2 411	2 628	2 532	2 819	2 625	5 384	3 583	3 259	932	337	9 341	30			
NO MAINTENANCE OR MODIFICATION.	27 465	1 778	2 110	2 023	2 309	2 076	4 215	2 812	2 478	702	237	6 727	30			
WITH MAINTENANCE OR MODIFICATION.	8 056	605	998	484	496	511	1 114	747	746	216	97	2 543	31			
NOT REPORTED.	331	28	21	26	14	37	56	25	36	15	3	72	31			
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	4 202	456	470	517	474	336	466	270	214	61	32	905	22			
WITH SELECTED HEATING EQUIPMENT ³	35 853	2 411	2 628	2 532	2 819	2 625	5 384	3 583	3 259	932	337	9 341	30			
NO MAINTENANCE CONTRACT.	30 965	1 843	2 246	2 558	2 378	4 962	3 296	2 913	817	296	7 424	31				
WITH MAINTENANCE CONTRACT.	4 457	535	360	252	227	203	354	249	305	103	35	1 835	23			
NOT REPORTED.	431	34	38	33	43	68	38	42	12	6	82	28				
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																
NO HOT PIPED WATER.	282	43	33	37	19	13	24	19	19	2	1	72	18			
WITH HOT PIPED WATER.	39 770	2 824	3 065	3 011	3 275	2 998	5 827	3 034	3 455	991	368	10 173	29			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	38 956	2 751	2 970	2 947	3 210	2 886	5 728	3 761	3 393	969	357	9 985	29			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴	220	18	22	16	18	19	27	18	16	3	6	56	27			
NOT REPORTED.	575	52	70	47	47	42	70	55	46	19	5	121	26			
NOT REPORTED.	2	-	-	2	-	-	-	-	-	-	-	1	---			
AIR CONDITIONING																
WITH AIR CONDITIONING.	23 582	1 422	1 553	1 644	2 032	1 791	3 604	2 397	2 217	609	234	6 079	31			
ROOM UNITS.	12 221	916	915	922	1 065	994	1 815	1 178	1 045	328	102	2 940	28			
1.	7 192	544	549	566	629	606	1 069	671	529	189	46	1 813	28			
2.	3 583	254	264	251	319	275	583	361	358	838	27	838	30			
3.	1 020	83	79	78	74	157	114	87	45	19	19	204	31			
4.	297	27	16	20	23	31	34	24	45	13	5	59	30			
5 OR MORE.	129	8	7	7	14	8	12	9	26	7	27	36	36			
CENTRAL SYSTEM.	11 361	506	638	723	968	797	1 789	1 218	1 172	280	131	3 139	32			
WITH NO AIR CONDITIONING.	16 472	1 445	1 545	1 405	1 261	1 170	2 246	1 456	1 257	385	135	4 167	27			
PERSONS																
1 PERSON.	5 233	617	541	532	536	477	664	350	273	78	36	1 128	23			
2 PERSONS.	12 272	987	1 030	987	1 008	992	1 820	1 095	857	201	71	3 228	27			
3 PERSONS.	7 351	478	559	551	621	494	1 080	677	651	197	62	1 979	29			
4 PERSONS.	7 980	416	561	547	608	525	1 213	875	770	222	76	2 168	32			
5 PERSONS.	4 209	224	224	221	247	308	262	647	493	173	66	1 056	34			
6 PERSONS.	1 846	91	118	125	122	116	263	236	251	71	27	426	35			
7 PERSONS OR MORE.	1 163	54	68	61	95	75	163	127	179	50	32	260	35			
MEDIAN.	2.8	2.3	2.5	2.5	2.7	2.5	2.9	3.2	3.4	3.6	3.7	2.9	---			
SPECIFIED OWNER OCCUPIED²																
40 054	2 867	3 098	3 049	3 293	2 961	5 851	3 853	3 474	993	369	10 246	29				
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS																
40 054	2 867	3 098	3 049	3 293	2 961	5 851	3 853	3 474	993	369	10 246	29				
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING																
ALL WINDOWS COVERED.	21 284	1 124	864	928	1 343	1 547	3 649	2 601	2 337	661	242	5 987	35			
SOME WINDOWS COVERED.	4 241	268	260	256	319	289	660	424	417	156	56	1 134	32			
NO WINDOWS COVERED.	14 384	1 457	1 966	1 849	1 628	1 114	1 517	816	702	167	69	3 098	21			
NOT REPORTED.	146	17	9	15	2	10	24	12	18	9	2	28	32			
STORM DOORS																
ALL DOORS COVERED.	20 849	1 105	885	982	1 384	1 590	3 727	2 600	2 314	619	212	5 431	34			
SOME DOORS COVERED.	5 444	274	302	369	479	437	779	502	506	182	74	1 540	31			
NO DOORS COVERED.	13 567	1 471	1 896	1 675	1 421	923	1 318	736	639	181	81	3 224	20			
NOT REPORTED.	194	17	19	24	9	11	26	14	15	10	2	51	27			
ATTIC OR ROOF INSULATION																
YES.	32 702	1 999	2 204	2 211	2 631	2 418	4 916	3 259	2 901	792	291	9 079	31			
NO.	5 739	670	761	674	502	417	720	467	418	145	53	912	22			
DON'T KNOW.	1 436	179	123	146	152	109	194	109	133	48	23	220	25			
NOT REPORTED.	177	18	10	18	8	17	21	19	21	8	2	35	30			
SPECIFIED RENTER OCCUPIED³																
26 247	4 321	2 277	1 565	1 098	899	1 378	710	613	199	90	13 098	14				
HOUSE HEATING FUEL																
GAS.	14 980	2 514	1 625	1 201	923	796	1 286	660	564	192	79	5 139	18			
UTILITY GAS.	14 220	2 440	1 560	1 127	849	733	1 185	588	483	172	57	5 026	17			
BOTTLED, TANK, OR LP GAS.	760	74	65	74	73	63	101	72	82	20	22	113	27			
OTHER THAN GAS.	10 897	1 740	622	351	167	95	86	47	48	7	11	7 721	10-			
FUEL OIL.	5 519	1 405	501	265	121	66	98	33	28	4	8	3 029	10-			
KEROSENE, ETC.	133	26	6	10	7	2	3	2	1	-	-	75	12			
ELECTRICITY.	4 759	239	83	55	29	18	18	12	13	3	1	4 286	10-			
COAL OR COKE.	128	24	10	6	3	2	2	2	2	-	-	81	10-			
WOOD.	259	35	20	14	7	8	6	1	5	-	-	163	13			
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-	-	-	-			
OTHER FUEL.	100	11	2	-	-	-	-	-	-	2	-	85	10-			
NONE.	370	67	29	12	8	7	6	2	1	-	-	238	10-			

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: 1978--CONTINUED
(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)			
		LESS THAN \$10 \$14	\$10 TO \$19	\$15 TO \$24	\$20 TO \$29	\$25 TO \$39	\$30 TO \$49	\$40 TO \$49	\$50 TO \$69	\$70 TO \$99	\$100 OR MORE							
SPECIFIED RENTER OCCUPIED²--CONTINUED																		
WATER HEATING FUEL³																		
GAS																		
UTILITY GAS	15 232	2 786	1 700	1 181	888	722	1 146	587	496	173	70	5 484	16					
BOTTLED, TANK, OR LP GAS.	14 656	2 731	1 651	1 108	835	687	1 073	544	452	156	55	5 365	16					
OTHER FUEL	576	55	50	73	53	35	73	42	44	17	15	118	24					
NONE	10 612	1 479	537	342	190	161	208	112	107	25	19	7 434	11					
	17	2	2	2	-	2	-	-	-	-	-	10	***					
COOKING FUEL																		
GAS																		
UTILITY GAS	15 360	3 736	1 799	1 203	808	654	994	532	461	159	65	4 950	13					
BOTTLED, TANK, OR LP GAS.	14 236	3 435	1 683	1 059	725	596	889	467	392	144	45	4 801	13					
OTHER FUEL	1 124	300	116	144	82	58	105	65	69	15	20	150	17					
NONE	10 669	585	475	361	290	242	383	178	152	40	26	7 937	18					
	217	-	2	1	1	2	1	-	-	-	-	211	***					
ALL GAS HOUSING UNITS																		
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	9 831	1 866	1 124	794	588	507	846	446	380	145	49	3 087	17					
ALL OTHER FUEL COMBINATIONS OR NONE	16 416	2 455	1 153	770	510	392	532	264	233	54	42	10 012	13					
HEATING EQUIPMENT																		
WARM-AIR FURNACE	9 377	922	646	560	475	407	731	373	324	102	52	4 785	21					
HEAT PUMP	226	31	6	8	-	-	1	-	3	-	-	176	10-					
STEAM OR HOT WATER	6 997	1 713	571	263	138	93	116	86	89	24	7	3 895	10-					
BUILT-IN ELECTRIC UNITS	2 459	132	28	29	14	6	8	2	5	1	1	2 233	10-					
FLOOR, WALL, OR PIPELESS FURNACE	2 809	899	501	294	165	94	132	56	41	12	5	610	12					
ROOM HEATERS WITH FLUE	2 050	261	213	168	154	173	216	112	90	45	20	598	22					
ROOM HEATERS WITHOUT FLUE	1 310	210	219	189	120	99	142	70	52	14	2	194	18					
FIREPLACES, STOVES, OR PORTABLE HEATERS	648	86	64	41	23	18	26	10	6	2	3	369	13					
NONE	370	67	29	12	8	7	6	2	1	-	-	238	10-					
THERMOSTAT CONTROLLED HEATING EQUIPMENT																		
NO HEATING EQUIPMENT	370	67	29	12	8	7	6	2	1	-	-	238	10-					
WITH HEATING EQUIPMENT	25 877	4 254	2 248	1 552	1 090	891	1 372	708	612	199	90	12 860	15					
NO THERMOSTAT CONTROL	9 850	2 373	1 033	620	357	278	354	174	129	48	22	4 462	11					
WITH THERMOSTAT CONTROL	15 970	1 872	1 209	927	733	609	1 018	533	480	151	68	8 368	18					
NOT CLOCK OPERATED	13 981	1 621	1 029	805	629	543	904	478	417	136	59	7 360	18					
CONSTANT TEMPERATURE SETTING MAINTAINED	4 571	544	320	275	175	156	271	144	127	47	18	2 495	18					
TEMPERATURE SETTING IS CHANGED	9 266	1 057	697	525	448	379	632	335	290	84	40	4 780	19					
OCCASIONALLY	2 943	322	205	150	124	103	188	105	102	43	18	1 582	20					
REGULARLY	6 150	719	474	371	314	274	429	221	183	39	22	3 105	19					
DON'T KNOW	161	16	15	3	7	2	14	9	4	2	1	87	21					
NOT REPORTED	12	-	3	-	2	-	1	-	1	-	-	6	..					
CLOCK OPERATED	1 886	241	172	116	97	63	106	54	63	14	9	950	17					
NOT REPORTED	102	10	9	6	7	3	6	1	1	2	-	58	17					
NOT REPORTED	57	9	5	6	-	4	-	1	2	-	-	30	..					
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	1 018	152	93	53	32	26	32	12	7	2	3	607	12					
WITH SELECTED HEATING EQUIPMENT ⁴	25 229	4 169	2 184	1 511	1 067	873	1 346	698	606	197	88	12 491	15					
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	24 184	4 001	2 073	1 434	1 008	825	1 277	659	563	182	84	12 078	14					
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	884	134	99	70	53	40	59	37	41	15	4	330	17					
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	-	..					
STOVE, BURNING WOOD OR COAL	58	10	4	2	5	-	8	3	2	-	1	22	21					
FIREPLACE, BURNING WOOD OR COAL	16	-	3	1	2	2	-	-	2	2	2	4	..					
PORTABLE ELECTRIC HEATER	632	102	79	48	34	24	36	24	23	12	3	245	16					
ROOM HEATER WITHOUT FLUE OR VENT	78	9	5	10	8	9	6	6	8	-	-	17	23					
BURNING GAS, OIL, OR KEROSENE	89	10	6	7	5	6	8	5	5	2	-	35	23					
OTHER	15	3	2	2	-	-	1	-	-	-	-	8	..					
NOT REPORTED	161	34	12	7	6	8	9	2	2	-	-	83	12					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																		
NO HOT PIPED WATER	386	54	38	41	21	16	21	11	11	1	2	171	17					
WITH HOT PIPED WATER	25 861	4 267	2 239	1 524	1 077	883	1 356	698	602	198	89	12 928	14					
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 206	4 154	2 176	1 483	1 064	863	1 321	673	592	193	87	12 599	14					
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁵	112	18	11	5	2	5	11	6	3	-	1	50	16					
NOT REPORTED	523	91	50	34	12	15	22	19	7	5	2	266	13					
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-					
AIR CONDITIONING																		
WITH AIR CONDITIONING	11 849	1 593	883	614	424	337	564	281	240	60	31	6 821	15					
ROOM UNITS	7 310	1 327	622	429	314	247	428	195	177	47	23	3 502	14					
1	5 611	1 034	479	312	231	174	310	141	98	36	17	2 779	13					
2	1 433	238	117	109	70	59	107	49	66	10	5	602	17					
3	217	46	21	6	8	9	10	4	12	1	1	99	12					
4	37	5	3	1	5	3	-	-	2	-	-	18	..					
5 OR MORE	12	3	2	-	-	2	1	-	2	-	-	5	..					
CENTRAL SYSTEM	4 539	266	261	186	110	90	137	86	63	13	8	3 319	17					
WITH NO AIR CONDITIONING	14 398	2 727	1 393	950	675	562	813	429	373	139	60	6 277	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 A-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978--CONTINUED
(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 (DOL- LARS)	
SPECIFIED RENTER OCCUPIED²--CONTINUED														
PERSONS														
1 PERSON	9 484	1 829	655	418	284	217	287	121	77	29	18	5 549	11	
2 PERSONS	7 613	1 240	706	481	308	253	388	180	132	41	15	3 868	14	
3 PERSONS	4 188	640	427	270	197	155	293	159	154	40	24	1 826	17	
4 PERSONS	2 697	342	270	206	161	148	242	125	116	33	17	1 036	20	
5 PERSONS	1 206	159	110	93	78	70	81	59	62	29	9	456	21	
6 PERSONS	538	59	62	63	35	25	39	29	29	11	2	185	19	
7 PERSONS OR MORE	525	53	47	33	35	31	48	37	44	15	7	177	26	
MEDIAN.	2.0	1.8	2.2	2.3	2.4	2.4	2.5	2.8	3.1	3.2	3.0	1.8	...	
SPECIFIED RENTER OCCUPIED².														
26 247	4 321	2 277	1 565	1 098	899	1 378	710	613	199	90	13 098	14		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS														
8 299	1 042	910	776	626	491	834	427	395	125	65	2 608	21		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED	2 266	193	143	156	157	145	312	156	139	40	31	793	27	
SOME WINDOWS COVERED.	967	91	51	84	60	57	118	68	75	36	18	310	28	
NO WINDOWS COVERED.	4 704	707	677	513	390	273	385	195	172	48	14	1 329	17	
NOT REPORTED.	362	51	39	23	19	16	19	8	9	2	2	176	16	
STORM DOORS														
ALL DOORS COVERED	2 170	160	124	157	143	144	302	155	161	50	31	744	29	
SOME DOORS COVERED.	895	78	61	71	67	65	138	53	56	24	11	272	27	
NO DOORS COVERED.	4 831	748	680	518	392	265	372	211	167	49	20	1 410	17	
NOT REPORTED.	403	56	44	30	24	18	23	9	11	2	3	183	16	
ATTIC OR ROOF INSULATION														
YES	3 319	319	289	285	264	219	358	172	160	50	29	1 174	23	
NO.	2 516	369	319	256	187	123	265	149	136	41	21	650	19	
DON'T KNOW.	2 076	301	264	206	152	131	189	95	90	32	14	604	18	
NOT REPORTED.	388	53	39	28	22	19	22	12	9	2	2	181	17	

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

UNITED STATES TOTAL		YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.											
		TOTAL	LESS THAN \$100	\$100 TO \$199	\$200 TO \$299	\$300 TO \$399	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED ¹	MEDIAN (DOL- LARS)
SPECIFIED OWNER OCCUPIED ²	40 054	1 425	792	953	1 317	1 262	1 115	947	677	1 277	30 288	431	
HOUSE HEATING FUEL													
OIL, COAL, KEROSENE, WOOD, ETC.	8 285	275	389	786	1 202	1 186	1 058	894	651	1 232	613	499	
FUEL OIL	7 572	213	296	687	1 136	1 129	1 031	873	639	1 223	345	515	
COAL OR COKE	168	9	14	33	31	26	16	8	8	3	19	360	
KEROSENE, ETC.	156	17	28	31	23	16	9	10	2	6	14	282	
WOOD	390	36	50	36	13	14	2	2	1	-	235	182	
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC.	31 601	1 148	803	167	115	76	57	54	26	45	29 510	100-	
UTILITY GAS	24 628	844	253	100	64	49	34	36	23	27	22 999	100-	
BOTTLED, TANK, OR LP GAS	1 572	51	35	17	22	9	9	4	1	3	1 422	168	
ELECTRICITY	5 590	252	114	51	28	17	15	14	2	16	5 080	102	
SOLAR HEAT	3	-	-	-	-	-	-	-	-	-	3	-	
OTHER FUEL	9	-	-	-	1	2	-	-	-	-	6	-	
NONE	168	2	1	-	-	1	-	-	-	-	164	---	
HEATING EQUIPMENT													
WARM-AIR FURNACE	24 540	939	425	596	860	735	580	399	210	327	19 470	366	
HEAT PUMP	763	49	19	15	2	4	1	4	3	3	665	100-	
STEAM OR HOT WATER	5 232	90	50	83	237	364	468	501	443	926	2 071	657	
BUILT-IN ELECTRIC UNITS	2 365	78	49	17	12	7	10	2	2	6	2 182	127	
FLOOR, WALL, OR PIPELESS FURNACE	2 953	74	67	52	52	39	13	6	12	5	2 635	236	
ROOM HEATERS WITH FLUE	1 708	82	87	121	106	84	34	29	9	9	1 147	291	
ROOM HEATERS WITHOUT FLUE	1 416	39	13	2	6	3	2	3	-	-	1 347	100-	
FIREPLACES, STOVES, OR PORTABLE HEATERS	910	72	81	67	41	25	8	3	1	3	607	197	
NONE	168	2	1	-	-	1	-	-	-	-	164	---	
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	168	2	1	-	-	1	-	-	-	-	164	431	
WITH HEATING EQUIPMENT	39 886	1 423	791	953	1 317	1 261	1 115	947	677	1 277	30 124	431	
NO THERMOSTAT CONTROL	3 996	162	144	152	120	103	48	33	10	12	3 212	256	
WITH THERMOSTAT CONTROL	35 781	1 255	646	755	1 194	1 157	1 065	914	665	1 261	26 829	450	
NOT CLOCK OPERATED	31 121	1 121	563	693	1 062	1 031	924	810	577	1 046	23 293	446	
CONSTANT TEMPERATURE SETTING MAINTAINED	9 381	291	154	206	302	324	258	227	161	312	7 147	450	
TEMPERATURE SETTING IS CHANGED	21 601	830	405	486	758	706	662	578	414	726	16 037	443	
OCCASIONALLY	5 659	203	103	118	163	168	159	132	101	165	4 346	441	
REGULARLY	15 734	618	294	363	589	534	498	443	309	554	11 531	444	
DON'T KNOW	183	8	5	5	6	2	5	3	2	3	143	330	
NOT REPORTED	26	1	2	-	-	2	-	-	2	3	16	---	
NOT REPORTED	138	-	4	1	2	2	4	5	2	9	110	---	
CLOCK OPERATED	4 498	127	79	100	125	118	128	100	87	206	3 429	488	
NOT REPORTED	162	8	4	2	7	8	14	3	2	8	106	492	
NOT REPORTED	110	6	2	7	4	1	1	1	1	4	83	---	
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 202	195	182	191	154	113	44	35	10	12	3 265	247	
WITH SELECTED HEATING EQUIPMENT ³	35 853	1 230	610	763	1 163	1 149	1 072	912	666	1 265	27 022	456	
LESS THAN 4 YEARS	6 277	260	132	93	153	169	116	107	86	143	5 016	393	
4 TO 9 YEARS	8 809	374	148	176	203	203	191	149	71	155	7 138	367	
10 TO 19 YEARS	10 929	377	204	290	364	335	328	254	189	338	8 251	431	
20 TO 39 YEARS	7 081	154	86	158	344	352	328	310	237	450	4 663	535	
40 YEARS OR MORE	664	17	9	12	20	24	35	38	29	82	399	641	
DON'T KNOW	1 743	38	20	27	65	52	58	49	48	84	1 302	531	
NOT REPORTED	349	10	10	6	16	13	16	6	7	13	232	453	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 202	195	182	191	154	113	44	35	10	12	3 265	247	
WITH SELECTED HEATING EQUIPMENT ³	35 853	1 230	610	763	1 163	1 149	1 072	912	666	1 265	27 022	456	
NO MAINTENANCE OR MODIFICATION	27 465	909	479	525	727	664	591	486	351	696	22 037	411	
WITH MAINTENANCE OR MODIFICATION	8 056	309	122	231	424	477	467	420	306	552	4 748	519	
NOT REPORTED	331	12	8	7	12	8	14	6	9	17	237	493	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	4 202	195	182	191	154	113	44	35	10	12	3 265	247	
WITH SELECTED HEATING EQUIPMENT ³	35 853	1 230	610	763	1 163	1 149	1 072	912	666	1 265	27 022	456	
NO MAINTENANCE CONTRACT	30 965	1 100	553	618	846	823	659	528	326	567	24 944	387	
WITH MAINTENANCE CONTRACT	4 457	111	50	135	302	316	393	372	333	683	1 763	611	
NOT REPORTED	431	19	7	10	15	10	20	12	8	15	315	468	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	282	30	12	31	16	12	5	5	6	8	157	266	
WITH HOT PIPED WATER	39 770	1 396	780	922	1 302	1 250	1 111	942	671	1 269	30 128	433	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	38 956	1 360	757	899	1 267	1 227	1 094	928	662	1 237	29 526	435	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	220	9	5	3	6	9	4	-	-	3	181	349	
NOT REPORTED	575	25	16	21	28	14	13	14	8	29	406	380	
NOT REPORTED	2	-	-	-	-	-	-	-	-	-	2	-	
AIR CONDITIONING													
WITH AIR CONDITIONING	23 582	868	455	415	611	531	516	465	340	657	18 724	415	
ROOM UNITS	12 221	300	229	261	439	411	402	376	295	580	8 927	501	
1	7 192	180	151	164	277	270	243	211	148	244	5 303	463	
2	3 583	69	57	71	118	109	119	111	96	166	2 667	529	
3	1 020	30	12	24	33	19	23	44	33	106	695	647	
4	297	13	5	2	9	10	10	7	12	41	187	672	
5 OR MORE	129	8	4	-	2	7	7	2	7	22	75	721	
CENTRAL SYSTEM	11 361	568	226	153	172	120	114	89	45	77	9 797	198	
WITH NO AIR CONDITIONING	16 472	557	327	539	707	731	600	482	336	620	11 564	443	

¹ RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

² LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³ EXCLUDES 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.

TABLE A-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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.										FUELS NOT USED, FREE, OR NOT REPORTED ¹	MEDIAN (DOL- LARS)	
		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				
SPECIFIED OWNER OCCUPIED²--CONTINUED														
PERSONS														
1 PERSON	5 233	174	96	136	232	207	147	112	86	135	3 908	411		
2 PERSONS	12 272	399	279	342	462	405	377	289	182	312	9 225	410		
3 PERSONS	7 351	258	145	178	233	229	189	186	132	233	5 568	434		
4 PERSONS	7 980	321	152	163	207	211	204	173	137	265	6 145	435		
5 PERSONS	4 209	179	70	84	112	114	116	105	75	170	3 184	459		
6 PERSONS	1 846	61	26	26	38	57	57	53	42	105	1 382	543		
7 PERSONS OR MORE	1 163	33	24	24	33	39	26	29	23	57	874	475		
MEDIAN	2.8	3.0	2.6	2.5	2.4	2.6	2.7	2.9	3.0	3.3	2.9	2.9	...	
SPECIFIED OWNER OCCUPIED²														
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	40 054	1 425	792	953	1 317	1 262	1 115	947	677	1 277	30 288	431		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED	21 284	683	352	513	897	920	830	726	538	947	14 878	482		
SOME WINDOWS COVERED	4 241	161	88	140	175	181	168	133	96	233	2 867	468		
NO WINDOWS COVERED	14 384	580	349	298	243	155	114	88	41	92	12 424	217		
NOT REPORTED	146	2	4	3	5	5	4	-	1	5	119	...		
STORM DOORS														
ALL DOORS COVERED	20 849	585	300	525	897	923	835	745	522	947	14 570	489		
SOME DOORS COVERED	5 444	216	124	161	214	199	145	111	112	193	3 968	411		
NO DOORS COVERED	13 567	613	362	262	201	134	131	90	41	133	11 600	203		
NOT REPORTED	194	11	6	6	5	6	3	1	1	5	149	278		
ATTIC OR ROOF INSULATION														
YES	32 702	1 211	647	777	1 070	1 030	923	782	550	1 047	24 666	430		
NO	5 739	155	118	142	204	191	140	138	98	179	4 374	433		
DON'T KNOW	1 436	54	20	31	38	35	48	24	26	44	1 116	447		
NOT REPORTED	177	5	7	3	6	6	4	3	3	7	133	420		
SPECIFIED RENTER OCCUPIED³														
HOUSE HEATING FUEL														
OIL, COAL, KEROSENE, WOOD, ETC.	6 038	124	189	252	309	228	165	159	95	146	4 370	386		
FUEL OIL	5 519	71	109	180	263	211	155	148	87	129	4 166	425		
COAL OR COKE	128	9	25	17	15	5	2	3	4	4	44	249		
KEROSENE, ETC	133	12	22	30	17	8	4	3	10	19	19	274		
WOOD	259	32	33	25	14	5	-	4	2	3	141	181		
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC.	19 839	167	71	38	47	20	11	9	2	14	19 460	131		
UTILITY GAS	14 220	104	52	20	37	17	8	6	1	6	13 969	140		
BOTTLED, TANK, OR LP GAS	760	22	7	11	4	3	2	2	1	1	6	704	181	
ELECTRICITY	4 759	38	12	7	6	-	-	2	-	2	4 689	100-		
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-		
OTHER FUEL	100	2	-	-	-	-	-	-	-	-	99	...		
NONE	370	-	1	-	-	-	-	-	1	-	369	...		
HEATING EQUIPMENT														
WARM-AIR FURNACE	9 377	100	89	126	183	138	75	73	29	56	8 508	365		
HEAT PUMP	226	1	-	2	-	-	2	2	-	-	222	...		
STEAM OR HOT WATER	6 997	26	9	24	50	62	54	59	49	85	6 579	571		
BUILT-IN ELECTRIC UNITS	2 459	21	8	4	2	-	2	-	-	1	2 422	100-		
FLOOR, WALL, OR PIPELESS FURNACE	2 809	19	20	17	18	7	8	4	3	-	2 712	251		
ROOM HEATERS WITH FLUE	2 050	48	67	67	66	34	32	24	12	13	1 688	297		
ROOM HEATERS WITHOUT FLUE	1 310	27	7	3	7	-	3	-	-	1	1 261	100-		
FIREPLACES, STOVES, OR PORTABLE HEATERS	648	49	60	47	29	7	2	5	4	5	439	192		
NONE	370	-	1	-	-	-	-	1	-	-	369	...		
THERMOSTAT CONTROLLED HEATING EQUIPMENT														
NO HEATING EQUIPMENT	370	-	1	-	-	-	-	1	-	-	369	...		
WITH HEATING EQUIPMENT	25 877	291	260	289	356	248	176	168	97	161	23 830	351		
NO THERMOSTAT CONTROL	9 850	124	128	111	100	35	33	28	7	20	9 264	237		
WITH THERMOSTAT CONTROL	15 970	167	131	178	254	212	143	140	90	141	14 515	398		
NOT CLOCK OPERATED	13 981	143	109	162	230	193	137	127	79	115	12 686	402		
CONSTANT TEMPERATURE SETTING MAINTAINED	4 571	44	32	50	80	65	39	24	33	44	4 179	386		
TEMPERATURE SETTING IS CHANGED	9 266	99	77	110	148	128	98	99	53	81	8 373	410		
OCCASIONALLY	2 943	17	23	26	38	35	27	32	18	18	2 709	437		
REGULARLY	6 150	79	51	80	108	93	71	67	35	63	5 503	406		
DON'T KNOW	161	2	3	4	2	-	-	-	-	-	149	...		
NOT REPORTED	12	-	-	-	3	1	-	-	-	-	11	...		
NOT REPORTED	143	-	-	-	2	3	1	-	4	2	134	...		
CLOCK OPERATED	1 886	24	21	15	23	19	5	11	10	26	1 733	374		
NOT REPORTED	102	-	1	1	2	1	-	2	-	-	95	...		
NOT REPORTED	57	1	2	1	2	1	1	-	-	-	52	...		
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT														
NO HOT PIPED WATER	386	45	46	27	17	8	5	6	1	8	223	179		
WITH HOT PIPED WATER	25 861	247	215	262	339	240	171	163	96	152	23 975	364		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	25 206	237	203	258	333	234	169	162	96	150	23 363	366		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT*	112	1	1	2	-	-	1	-	-	-	1	107	...	
NOT REPORTED	523	9	8	2	5	5	5	2	2	-	2	489	...	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-		

*RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

³LIMITED 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: 1978--CONTINUED

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

UNITED STATES TOTAL	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.											
		LESS THAN \$100	\$100 TO \$199	\$200 TO \$299	\$300 TO \$399	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED ¹	MEDIAN (DOL- LARS)	
SPECIFIED RENTER OCCUPIED²--CONTINUED													
AIR CONDITIONING													
WITH AIR CONDITIONING	11 849	93	64	69	93	75	46	46	36	48	11 278	363	
ROOM UNITS.	7 310	67	42	64	82	68	42	42	36	42	6 827	384	
1	5 611	50	39	44	64	54	31	35	27	26	5 241	381	
2	1 433	12	2	17	16	13	9	6	8	12	1 338	401	
3	217	4	-	2	2	1	-	1	1	1	207	***	
4	37	1	-	2	-	1	2	-	-	3	30	***	
5 OR MORE	12	-	-	-	-	-	-	-	-	-	12	-	
CENTRAL SYSTEM.	4 539	27	22	5	11	6	4	4	1	6	4 451	175	
WITH NO AIR CONDITIONING.	14 398	198	197	220	263	173	130	122	61	112	12 921	347	
PERSONS													
1 PERSON.	9 484	93	55	71	84	46	22	30	5	10	9 067	284	
2 PERSONS	7 613	80	83	83	111	82	65	45	27	49	6 988	359	
3 PERSONS	4 184	49	47	49	58	54	24	37	27	34	3 805	375	
4 PERSONS	2 697	41	46	31	53	30	31	29	18	33	2 385	370	
5 PERSONS	1 206	16	13	31	23	19	20	15	2	18	1 047	360	
6 PERSONS	538	6	6	12	20	12	8	6	10	8	1 451	396	
7 PERSONS OR MORE	525	5	10	12	7	6	6	7	9	8	1 456	408	
MEDIAN.	2.0	2.2	2.4	2.4	2.3	2.4	2.5	2.6	3.1	3.1	1.9	***	
SPECIFIED RENTER OCCUPIED²													
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	8 299	291	261	289	356	248	176	169	97	161	24 199	351	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	2 266	52	57	70	115	87	71	53	42	63	1 656	413	
SOME WINDOWS COVERED	967	29	33	42	58	40	30	26	10	25	674	374	
NO WINDOWS COVERED	4 704	125	133	120	106	51	29	43	14	29	4 053	256	
NOT REPORTED.	362	-	2	1	2	3	1	2	2	1	350	***	
STORM DOORS													
ALL DOORS COVERED	2 170	46	59	61	106	88	69	64	41	61	1 575	428	
SOME DOORS COVERED.	895	19	26	40	50	27	22	17	6	17	670	354	
NO DOORS COVERED.	4 831	141	134	130	122	63	40	42	20	39	4 100	269	
NOT REPORTED.	403	-	5	-	3	3	1	2	2	1	388	***	
ATTIC OR ROOF INSULATION													
YES	3 319	75	83	83	127	82	67	53	41	52	2 656	370	
NO.	2 516	78	93	92	84	56	34	48	11	46	1 974	310	
DON'T KNOW.	2 076	53	46	57	65	41	28	21	14	20	1 731	326	
NOT REPORTED.	388	-	2	-	5	3	2	2	2	1	373	***	

¹RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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							WORKS AT HOME OR NOT REPORTED
		DRIVES SELF	CARPOOL	MASS TRANS- PORTA- TION	BICYCLE OR MOTOR- CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	
HOUSING UNITS WITH EMPLOYED HEADS¹									
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	53 358	38 238	7 993	3 096	327	76	1 979	191	1 457
LESS THAN 1 MILE	35 469	26 911	5 258	1 121	167	23	769	131	1 089
1 TO 4 MILES	2 378	1 480	177	11	22	3	672	11	2
5 TO 9 MILES	7 256	6 129	782	159	79	10	80	17	1
10 TO 19 MILES	6 784	5 578	936	226	28	3	2	10	2
20 TO 29 MILES	7 608	6 045	1 275	263	17	-	1	5	4
30 TO 49 MILES	3 042	2 134	744	137	10	2	-	11	-
50 MILES OR MORE	1 801	1 132	518	142	4	-	-	8	1
WORKS AT HOME	602	337	198	58	-	-	-	5	-
NO FIXED PLACE OF WORK	993	-	-	-	-	-	-	-	993
NOT REPORTED	4 442	3 731	565	60	7	5	11	58	6
MEDIAN	565	346	63	66	1	-	4	8	78
8.8	8.4	13.3	13.9	3.9	...	1.0-	7.7	...	...
RENTER OCCUPIED	17 888	11 327	2 734	1 975	160	53	1 210	60	369
LESS THAN 1 MILE	2 053	841	144	43	34	11	965	13	3
1 TO 4 MILES	4 682	3 130	635	627	64	33	181	9	4
5 TO 9 MILES	3 573	2 531	541	455	29	4	3	8	2
10 TO 19 MILES	3 384	2 330	590	436	15	3	-	7	3
20 TO 29 MILES	1 086	726	233	116	8	-	-	2	-
30 TO 49 MILES	543	323	161	52	2	-	-	2	2
50 MILES OR MORE	130	77	46	5	1	-	-	-	-
WORKS AT HOME	322	-	-	-	-	-	-	-	-
NO FIXED PLACE OF WORK	1 656	1 183	319	88	4	2	47	13	322
NOT REPORTED	459	187	64	194	3	-	14	5	2
MEDIAN	6.4	7.0	6.7	7.1	3.7	2.8	1.0-	4.8	31
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	35 469	26 911	5 258	1 121	167	23	769	131	1 089
LESS THAN 15 MINUTES	10 239	8 455	1 002	29	80	15	634	24	2
15 TO 29 MINUTES	11 084	9 065	1 679	189	51	3	87	8	2
30 TO 44 MINUTES	4 965	3 592	1 069	253	19	-	22	7	2
45 TO 59 MINUTES	1 741	1 074	462	191	7	-	-	6	-
1 HOUR TO 1 HOUR AND 29 MINUTES	1 287	651	347	274	3	-	2	8	2
1 HOUR AND 30 MINUTES OR MORE	416	182	108	119	-	2	-	7	-
WORKS AT HOME	993	-	-	-	-	-	-	-	-
NO FIXED PLACE OF WORK	4 442	3 731	565	60	7	5	11	58	6
NOT REPORTED	303	161	27	7	-	-	14	14	79
MEDIAN	21.2	20.0	26.8	49.4	15.0-	...	15.0-	26.0	...
RENTER OCCUPIED	17 888	11 327	2 734	1 975	160	53	1 210	60	369
LESS THAN 15 MINUTES	6 106	4 223	752	121	94	33	867	11	4
15 TO 29 MINUTES	5 643	3 938	906	476	45	18	246	12	4
30 TO 44 MINUTES	2 374	1 330	453	586	9	-	26	6	3
45 TO 59 MINUTES	833	371	151	299	2	-	6	2	2
1 HOUR TO 1 HOUR AND 29 MINUTES	628	156	101	352	5	-	6	6	1
1 HOUR AND 30 MINUTES OR MORE	161	50	35	71	1	-	-	2	-
WORKS AT HOME	322	-	-	-	-	-	-	-	-
NO FIXED PLACE OF WORK	1 656	1 183	319	88	4	2	47	13	322
NOT REPORTED	166	76	18	22	-	-	-	8	2
MEDIAN	19.6	18.0	22.4	39.2	15.0-	15.0-	15.0-	25.5	...

¹LIMITED 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: 1978

(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.	16 952	13 386	5 872	7 514	3 566
HOUSE HEATING FUEL					
OWNER OCCUPIED.					
UTILITY GAS.	10 155	7 562	2 235	5 328	2 593
BOTTLED, TANK, OR LP GAS.	4 008	3 264	1 140	2 123	744
FUEL OIL.	80	44	2	43	35
KEROSENE, ETC.	5 218	3 801	1 003	2 798	1 417
ELECTRICITY.	94	32	-	32	62
COAL OR COKE.	552	334	67	267	218
WOOD.	110	71	17	54	39
SOLAR HEAT.	88	12	2	10	76
OTHER FUEL.	2	2	2	-	-
NONE.	3	2	2	-	1
RENTER OCCUPIED	6 797	5 824	3 638	2 187	973
UTILITY GAS.	2 293	2 001	1 212	789	292
BOTTLED, TANK, OR LP GAS.	38	14	4	10	25
FUEL OIL.	3 902	3 386	2 243	1 143	516
KEROSENE, ETC.	39	15	3	12	23
ELECTRICITY.	447	361	154	207	87
COAL OR COKE.	38	30	9	21	9
WOOD.	24	4	2	2	20
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	12	10	8	2	2
NONE.	5	4	3	1	1
WATER HEATING FUEL					
OWNER OCCUPIED.					
NO HOT PIPED WATER.	10 155	7 562	2 235	5 328	2 593
WITH HOT PIPED WATER.	34	8	1	7	26
FUEL USED:					
UTILITY GAS.	10 121	7 554	2 234	5 320	2 567
BOTTLED, TANK, OR LP GAS.	4 501	3 778	1 376	2 401	724
FUEL OIL.	255	104	2	102	151
KEROSENE, ETC.	3 145	2 466	711	1 754	679
ELECTRICITY.	12	3	-	3	9
COAL OR COKE.	2 160	1 182	137	1 045	978
WOOD.	29	15	4	11	14
SOLAR HEAT.	13	2	-	2	11
OTHER FUEL.	5	5	4	2	-
NONE.	-	-	-	-	-
NOT REPORTED.	-	-	-	-	-
RENTER OCCUPIED	6 797	5 824	3 638	2 187	973
NO HOT PIPED WATER.	28	15	9	7	13
WITH HOT PIPED WATER.	6 769	5 809	3 629	2 180	960
FUEL USED:					
UTILITY GAS.	2 733	2 434	1 531	903	299
BOTTLED, TANK, OR LP GAS.	90	33	7	26	57
FUEL OIL.	3 073	2 771	1 930	842	301
KEROSENE, ETC.	6	4	-	4	2
ELECTRICITY.	827	537	142	396	289
COAL OR COKE.	18	9	5	4	9
WOOD.	2	-	-	-	2
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	16	18	15	3	-
NONE.	2	2	-	2	-
NOT REPORTED.	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED.					
UTILITY GAS.	10 155	7 562	2 235	5 328	2 593
BOTTLED, TANK, OR LP GAS.	4 424	3 810	1 668	2 142	613
FUEL OIL.	780	348	12	336	433
KEROSENE, ETC.	24	20	3	16	4
ELECTRICITY.	4	3	-	3	2
COAL OR COKE.	4 888	3 374	551	2 823	1 514
WOOD.	7	4	-	4	3
OTHER FUEL.	26	2	-	2	24
NONE.	2	2	-	2	-
RENTER OCCUPIED	6 797	5 824	3 638	2 187	973
UTILITY GAS.	4 761	4 421	3 164	1 256	340
BOTTLED, TANK, OR LP GAS.	258	104	5	99	154
FUEL OIL.	13	11	9	2	2
KEROSENE, ETC.	2	1	-	1	2
ELECTRICITY.	1 680	1 222	404	818	458
COAL OR COKE.	2	1	-	1	1
WOOD.	2	-	-	-	2
OTHER FUEL.	10	9	9	-	2
NONE.	69	56	47	9	13

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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							
LESS THAN \$10	7 980	6 006	1 425	4 581	1 973		
\$10 TO \$19.	89	71	34	36	19		
\$20 TO \$29.	1 078	789	252	537	289		
\$30 TO \$39.	2 093	1 507	388	1 119	586		
\$40 TO \$49.	1 848	1 392	331	1 061	455		
\$50 TO \$59.	1 082	858	175	683	224		
\$60 TO \$79.	723	577	103	474	146		
\$80 TO \$99.	596	452	80	371	144		
\$100 TO \$149.	226	183	36	147	43		
\$150 OR MORE.	192	141	21	120	51		
NO ELECTRICITY USED OR NOT REPORTED	48	36	3	33	12		
MEDIAN.	5	1	-	1	5		
	34	34	31	35	32		
SPECIFIED RENTER OCCUPIED ²							
LESS THAN \$10	6 744	5 805	3 638	2 167	939		
\$10 TO \$19.	450	379	217	163	71		
\$20 TO \$29.	1 962	1 726	1 063	663	236		
\$30 TO \$39.	1 476	1 295	831	464	181		
\$40 TO \$49.	708	591	347	243	117		
\$50 TO \$59.	215	183	91	91	32		
\$60 TO \$79.	159	138	54	84	21		
\$80 TO \$99.	66	44	15	29	22		
\$100 TO \$149.	20	14	4	11	5		
\$150 OR MORE.	12	11	2	10	1		
INCLUDED IN RENT.	16	12	4	9	4		
NO ELECTRICITY USED OR NOT REPORTED	1 636	1 392	999	394	244		
MEDIAN.	24	19	12	7	5		
	21	21	20	21	22		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED ¹							
LESS THAN \$10	7 980	6 006	1 425	4 581	1 973		
\$10 TO \$14.	697	508	121	387	189		
\$15 TO \$19.	451	353	94	259	98		
\$20 TO \$24.	324	251	75	176	73		
\$25 TO \$29.	295	245	94	151	50		
\$30 TO \$39.	323	264	103	161	59		
\$40 TO \$49.	797	648	203	444	150		
\$50 TO \$69.	1 729	570	134	435	160		
\$70 TO \$99.	1 045	857	237	621	188		
\$100 OR MORE.	381	330	96	234	51		
NO GAS USED OR NOT REPORTED	149	126	36	90	22		
MEDIAN.	2 789	1 855	233	1 621	934		
	36	36	35	37	33		
SPECIFIED RENTER OCCUPIED ²							
LESS THAN \$10	6 744	5 805	3 638	2 167	939		
\$10 TO \$14.	1 506	1 384	1 004	380	122		
\$15 TO \$19.	563	528	388	141	35		
\$20 TO \$24.	347	312	220	92	35		
\$25 TO \$29.	233	188	113	75	44		
\$30 TO \$39.	158	129	86	42	30		
\$40 TO \$49.	273	225	126	99	48		
\$50 TO \$69.	188	156	91	65	31		
\$70 TO \$99.	178	149	87	61	29		
\$100 OR MORE.	77	61	40	21	16		
INCLUDED IN RENT.	23	20	11	10	3		
NO GAS USED OR NOT REPORTED	2 185	1 935	1 246	689	249		
MEDIAN.	1 014	717	226	491	297		
	12	11	11	13	20		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED ¹							
LESS THAN \$100.	7 980	6 006	1 425	4 581	1 973		
\$100 TO \$199.	156	112	12	99	44		
\$200 TO \$299.	89	43	13	30	46		
\$300 TO \$399.	221	130	20	110	91		
\$400 TO \$499.	477	307	60	248	170		
\$500 TO \$599.	563	371	67	304	193		
\$600 TO \$699.	642	460	85	375	182		
\$700 TO \$799.	617	474	92	383	143		
\$800 OR MORE.	535	432	79	353	103		
FUELS NOT USED, FREE, OR NOT REPORTED	1 071	832	163	669	239		
MEDIAN.	3 609	2 846	835	2 011	763		
	606	633	642	631	533		

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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							
LESS THAN \$100.	6 744	5 805	3 638	2 167	939		
\$100 TO \$199.	30	18	7	11	13		
\$200 TO \$299.	39	19	3	16	20		
\$300 TO \$399.	63	31	9	23	31		
\$400 TO \$499.	114	75	22	52	39		
\$500 TO \$599.	118	82	29	53	37		
\$600 TO \$699.	90	59	27	32	31		
\$700 TO \$799.	89	61	26	35	28		
\$800 OR MORE.	68	48	10	38	20		
INCLUDED IN RENT.	108	80	21	60	28		
FUELS NOT USED, FREE, OR NOT REPORTED	3 507	3 228	2 317	911	280		
MEDIAN.	2 517	2 104	1 166	938	813		
	495	520	525	516	454		
ALL OCCUPIED HOUSING UNITS.	16 952	13 386	5 872	7 514	3 566		
HEATING EQUIPMENT							
OWNER OCCUPIED							
WARM-AIR FURNACE.	10 155	7 562	2 235	5 328	2 593		
HEAT PUMP.	4 366	3 108	738	2 370	1 258		
STEAM OR HOT WATER.	43	37	5	31	6		
BUILT-IN ELECTRIC UNITS	4 901	4 001	1 383	2 618	900		
FLOOR, WALL, OR PIPELESS FURNACE.	436	245	51	193	191		
ROOM HEATERS WITH FLUE.	102	53	14	40	49		
ROOM HEATERS WITHOUT FLUE	149	76	29	47	72		
FIREPLACES, STOVES, OR PORTABLE HEATERS	8	3	-	3	5		
NONE.	148	37	13	24	111		
	3	2	2	-	1		
RENTER OCCUPIED							
WARM-AIR FURNACE.	6 797	5 824	3 638	2 187	973		
HEAT PUMP.	1 486	1 150	515	635	336		
STEAM OR HOT WATER.	18	18	10	8	-		
BUILT-IN ELECTRIC UNITS	4 426	4 012	2 760	1 252	416		
FLOOR, WALL, OR PIPELESS FURNACE.	375	298	131	167	77		
ROOM HEATERS WITH FLUE.	37	21	3	17	16		
ROOM HEATERS WITHOUT FLUE	337	251	168	83	87		
FIREPLACES, STOVES, OR PORTABLE HEATERS	28	21	12	9	7		
NONE.	83	49	34	15	34		
	5	4	3	1	1		
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED							
NO HEATING EQUIPMENT.	10 155	7 562	2 235	5 328	2 593		
WITH HEATING EQUIPMENT.	3	2	2	-	1		
NO THERMOSTAT CONTROL	10 152	7 560	2 233	5 328	2 592		
WITH THERMOSTAT CONTROL	513	358	248	110	155		
NOT CLOCK OPERATED.	9 614	7 186	1 980	5 206	2 429		
CONSTANT TEMPERATURE SETTING MAINTAINED	8 254	6 023	1 432	4 591	2 231		
TEMPERATURE SETTING IS CHANGED	2 531	1 806	458	1 348	725		
OCCASIONALLY.	5 679	4 181	960	3 221	1 498		
REGULARLY.	1 499	1 177	356	821	322		
DON'T KNOW.	4 137	2 966	594	2 372	1 171		
NOT REPORTED.	34	31	8	23	3		
NOT REPORTED.	8	7	2	5	2		
CLOCK OPERATED.	44	36	14	22	8		
NOT REPORTED.	1 313	1 125	538	587	188		
NOT REPORTED.	47	38	9	29	9		
NOT REPORTED.	24	17	5	11	8		
RENTER OCCUPIED							
NO HEATING EQUIPMENT.	6 797	5 824	3 638	2 187	973		
WITH HEATING EQUIPMENT.	5	4	3	1	1		
NO THERMOSTAT CONTROL	6 792	5 820	3 634	2 186	972		
WITH THERMOSTAT CONTROL	3 588	3 321	2 623	698	266		
NOT CLOCK OPERATED.	3 180	2 477	994	1 483	704		
CONSTANT TEMPERATURE SETTING MAINTAINED	2 772	2 132	793	1 339	640		
TEMPERATURE SETTING IS CHANGED	895	694	258	436	201		
OCCASIONALLY.	1 850	1 414	524	891	436		
REGULARLY.	626	519	224	294	107		
DON'T KNOW.	1 201	875	291	584	326		
NOT REPORTED.	23	21	9	12	2		
NOT REPORTED.	1	-	-	-	1		
CLOCK OPERATED.	27	24	12	12	3		
NOT REPORTED.	387	329	191	138	59		
NOT REPORTED.	21	16	10	6	5		
NOT REPORTED.	24	22	17	5	2		

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

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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.	16 952	13 386	5 872	7 514	3 566
UNITS OCCUPIED LAST WINTER.	14 633	11 561	4 954	6 607	3 072
INSUFFICIENT HEAT					
CLOSURE OF ROOMS:					
OWNER OCCUPIED.	9 465	7 065	2 094	4 971	2 400
WITH HEATING EQUIPMENT.	9 463	7 063	2 092	4 971	2 400
NO ROOMS CLOSED	9 087	6 790	1 990	4 800	2 297
CLOSED CERTAIN ROOMS.	303	219	86	133	83
LIVING ROOM ONLY.	7	7	2	6	-
DINING ROOM ONLY.	5	4	2	2	2
1 OR MORE BEDROOMS ONLY	186	124	55	69	62
OTHER ROOMS OR COMBINATION OF ROOMS	98	79	27	51	19
NOT REPORTED.	6	5	-	5	1
NOT REPORTED.	74	54	16	38	20
NO HEATING EQUIPMENT.	2	2	2	-	-
RENTER OCCUPIED	5 168	4 497	2 860	1 636	672
WITH HEATING EQUIPMENT.	5 163	4 492	2 857	1 635	671
NO ROOMS CLOSED	4 798	4 178	2 625	1 553	620
CLOSED CERTAIN ROOMS.	306	259	192	67	47
LIVING ROOM ONLY.	19	17	15	2	2
DINING ROOM ONLY.	4	2	2	-	2
1 OR MORE BEDROOMS ONLY	196	167	131	36	29
OTHER ROOMS OR COMBINATION OF ROOMS	84	70	43	26	14
NOT REPORTED.	3	3	-	3	-
NOT REPORTED.	60	55	40	15	4
NO HEATING EQUIPMENT.	5	4	3	1	1
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED.	9 465	7 065	2 094	4 971	2 400
WITH SPECIFIED HEATING EQUIPMENT ¹	9 322	7 023	2 079	4 944	2 299
NO ADDITIONAL HEAT SOURCE USED.	8 659	6 522	1 916	4 606	2 137
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	600	456	154	302	143
NOT REPORTED.	63	45	9	37	18
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	143	42	15	27	101
RENTER OCCUPIED	5 168	4 497	2 860	1 636	672
WITH SPECIFIED HEATING EQUIPMENT ¹	5 085	4 442	2 827	1 616	642
NO ADDITIONAL HEAT SOURCE USED.	4 172	3 619	2 212	1 407	553
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	860	774	582	193	85
NOT REPORTED.	53	49	33	16	4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	84	54	34	20	30
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED.	9 465	7 065	2 094	4 971	2 400
WITH SPECIFIED HEATING EQUIPMENT ¹	9 322	7 023	2 079	4 944	2 299
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	8 033	6 271	1 831	4 439	1 763
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 199	686	232	454	514
1 ROOM.	502	336	121	215	166
2 ROOMS	315	183	67	116	132
3 ROOMS OR MORE	383	166	45	122	216
NOT REPORTED.	89	67	16	51	22
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	143	42	15	27	101
RENTER OCCUPIED	5 168	4 497	2 860	1 636	672
WITH SPECIFIED HEATING EQUIPMENT ¹	5 085	4 442	2 827	1 616	642
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	4 350	3 853	2 424	1 429	497
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	649	512	348	165	137
1 ROOM.	269	222	147	75	47
2 ROOMS	163	124	84	40	38
3 ROOMS OR MORE	218	166	117	49	52
NOT REPORTED.	85	77	55	23	8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	84	54	34	20	30

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

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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.	16 952	13 386	5 872	7 514	3 566
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED.	10 155	7 562	2 235	5 328	2 593
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	151	39	15	24	112
WITH SELECTED HEATING EQUIPMENT ¹	10 004	7 523	2 220	5 303	2 481
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	9 430	7 130	2 162	4 969	2 300
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	515	341	50	292	174
SOLAR HEATING EQUIPMENT	1	-	-	-	1
STOVE, BURNING WOOD OR COAL	290	161	15	146	129
FIREPLACE, BURNING WOOD OR COAL	60	41	5	36	19
PORTABLE ELECTRIC HEATER.	82	70	17	53	12
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	14	13	3	10	1
OTHER	63	52	7	45	11
NOT REPORTED.	5	4	2	2	2
NOT REPORTED.	59	52	9	43	8
RENTER OCCUPIED	6 797	5 824	3 638	2 187	973
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	88	53	38	15	35
WITH SELECTED HEATING EQUIPMENT ¹	6 710	5 771	3 600	2 171	938
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	6 349	5 455	3 370	2 085	894
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	320	281	210	71	40
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	22	8	3	5	14
FIREPLACE, BURNING WOOD OR COAL	-	-	-	-	-
PORTABLE ELECTRIC HEATER.	252	231	179	53	21
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	9	7	3	3	2
OTHER	34	31	21	10	3
NOT REPORTED.	5	5	5	-	-
NOT REPORTED.	40	36	20	16	4
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	10 155	7 562	2 235	5 328	2 593
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	307	119	43	75	189
WITH SELECTED HEATING EQUIPMENT ²	9 847	7 443	2 191	5 252	2 404
LESS THAN 4 YEARS	1 175	825	199	626	350
4 TO 9 YEARS.	1 937	1 283	300	983	654
10 TO 19 YEARS.	2 985	2 230	638	1 592	755
20 TO 39 YEARS.	2 587	2 136	601	1 534	452
40 YEARS OR MORE.	292	239	78	161	53
DON'T KNOW.	588	499	254	245	89
NOT REPORTED.	283	231	121	111	52
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED.	10 155	7 562	2 235	5 328	2 593
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	307	119	43	75	189
WITH SELECTED HEATING EQUIPMENT ²	9 847	7 443	2 191	5 252	2 404
NO MAINTENANCE OR MODIFICATION.	6 294	4 719	1 436	3 283	1 576
WITH MAINTENANCE OR MODIFICATION.	3 260	2 495	625	1 870	765
NOT REPORTED.	294	230	130	100	64
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	10 155	7 562	2 235	5 328	2 593
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	307	119	43	75	189
WITH SELECTED HEATING EQUIPMENT ²	9 847	7 443	2 191	5 252	2 404
NO MAINTENANCE CONTRACT	6 625	4 823	1 455	3 368	1 802
WITH MAINTENANCE CONTRACT	2 904	2 370	601	1 769	534
NOT REPORTED.	319	251	135	116	68

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED
(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.	10 155	7 562	2 235	5 328	2 593		
NO HOT PIPED WATER.	34	8	1	7	26		
WITH HOT PIPED WATER.	10 121	7 554	2 234	5 320	2 567		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 899	7 368	2 174	5 193	2 532		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	38	31	7	24	6		
NOT REPORTED.	184	155	53	103	29		
NOT REPORTED.	-	-	-	-	-		
RENTER OCCUPIED	6 797	5 824	3 638	2 187	973		
NO HOT PIPED WATER.	28	15	9	7	13		
WITH HOT PIPED WATER.	6 769	5 809	3 629	2 180	960		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 575	5 629	3 505	2 124	946		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	19	16	15	1	2		
NOT REPORTED.	174	162	109	53	12		
NOT REPORTED.	-	-	-	-	-		
AIR CONDITIONING							
OWNER OCCUPIED.	10 155	7 562	2 235	5 328	2 593		
WITH AIR CONDITIONING.	4 745	3 985	1 266	2 719	761		
ROOM UNITS.	3 880	3 276	1 115	2 161	604		
1	2 054	1 668	551	1 117	386		
2	1 181	1 018	356	662	163		
3	406	371	125	245	36		
4	171	156	56	100	15		
5 OR MORE	68	63	26	36	5		
CENTRAL SYSTEM.	865	709	151	558	156		
WITH NO AIR CONDITIONING.	5 410	3 577	969	2 609	1 832		
RENTER OCCUPIED	6 797	5 824	3 638	2 187	973		
WITH AIR CONDITIONING.	2 405	2 220	1 155	1 065	185		
ROOM UNITS.	2 073	1 905	1 036	870	168		
1	1 421	1 301	700	601	120		
2	554	514	274	239	40		
3	87	81	59	22	5		
4	7	7	3	3	1		
5 OR MORE	5	3	-	3	2		
CENTRAL SYSTEM.	332	314	119	195	17		
WITH NO AIR CONDITIONING.	4 393	3 605	2 483	1 122	788		
ALL OCCUPIED HOUSING UNITS.	16 952	13 386	5 872	7 514	3 566		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS							
9 820	7 054	1 688	5 367	2 765			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED.	8 800	6 382	1 472	4 911	2 418		
ALL WINDOWS COVERED.	7 154	5 218	1 163	4 055	1 936		
SOME WINDOWS COVERED.	1 202	845	233	612	357		
NO WINDOWS COVERED.	404	289	66	223	115		
NOT REPORTED.	40	30	10	20	10		
RENTER OCCUPIED	1 019	672	216	456	347		
ALL WINDOWS COVERED.	545	354	99	255	192		
SOME WINDOWS COVERED.	234	142	46	96	92		
NO WINDOWS COVERED.	192	134	60	74	59		
NOT REPORTED.	48	43	12	30	5		
STORM DOORS							
OWNER OCCUPIED.	8 800	6 382	1 472	4 911	2 418		
ALL DOORS COVERED.	6 989	5 149	1 162	3 987	1 840		
SOME DOORS COVERED.	1 155	817	208	609	339		
NO DOORS COVERED.	619	390	94	297	229		
NOT REPORTED.	36	26	8	18	10		
RENTER OCCUPIED	1 019	672	216	456	347		
ALL DOORS COVERED.	575	376	113	263	199		
SOME DOORS COVERED.	162	107	36	71	55		
NO DOORS COVERED.	232	146	54	92	86		
NOT REPORTED.	50	43	12	31	7		

¹LIMITED 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: 1978--CONTINUED
 (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		
		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						
YES	8 800	6 382	1 472	4 911		
NO	7 136	5 166	1 013	4 153		
DON'T KNOW	1 280	901	345	556		
NOT REPORTED	336	277	102	175		
	48	38	12	26		
RENTER OCCUPIED						
YES	1 019	672	216	456		
NO	479	302	63	239		
DON'T KNOW	268	171	91	80		
NOT REPORTED	223	154	49	105		
	49	44	12	32		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS						
OWNER OCCUPIED						
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:	8 800	6 382	1 472	4 911		
NO WINDOWS COVERED	404	289	66	223		
SOME OR ALL WINDOWS COVERED	8 356	6 063	1 396	4 667		
NONE ADDED OR INSTALLED	7 413	5 417	1 252	4 165		
SOME OR ALL ADDED OR INSTALLED	875	604	136	469		
NOT REPORTED	69	41	8	33		
NOT REPORTED	40	30	10	20		
STORM DOORS:						
NO DOORS COVERED	619	390	94	297		
SOME OR ALL DOORS COVERED	8 145	5 966	1 370	4 596		
NONE ADDED OR INSTALLED	7 415	5 437	1 246	4 191		
SOME OR ALL ADDED OR INSTALLED	577	418	92	327		
NOT REPORTED	153	110	32	79		
NOT REPORTED	36	26	8	18		
ATTIC OR ROOF INSULATION:						
NO ATTIC OR ROOF INSULATION	1 280	901	345	556		
WITH ATTIC OR ROOF INSULATION	7 136	5 166	1 013	4 153		
NONE ADDED OR INSTALLED	6 258	4 552	907	3 646		
SOME OR ALL ADDED OR INSTALLED	739	516	81	435		
LESS THAN 3 INCHES ADDED	45	31	5	26		
3 TO 6 INCHES ADDED	333	242	38	204		
6 INCHES OR MORE ADDED	272	183	25	158		
DON'T KNOW	60	44	10	34		
NOT REPORTED	28	17	3	14		
NOT REPORTED	139	98	26	72		
DON'T KNOW	336	277	102	175		
NOT REPORTED	48	38	12	26		
WALL INSULATION:						
NONE ADDED OR INSTALLED	8 081	5 909	1 374	4 535		
SOME OR ALL ADDED OR INSTALLED	668	438	87	351		
NOT REPORTED	51	35	10	25		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:						
NONE ADDED OR INSTALLED	6 298	4 553	1 087	3 467		
SOME OR ALL ADDED OR INSTALLED	2 394	1 747	359	1 388		
DON'T KNOW	70	55	17	38		
NOT REPORTED	38	27	8	19		
OTHER INSULATION:						
NONE ADDED OR INSTALLED	8 237	6 014	1 409	4 605		
SOME OR ALL ADDED OR INSTALLED	508	332	54	277		
NOT REPORTED	56	36	8	28		

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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	1 019	672	216	456	347		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED	192	134	60	74	59		
SOME OR ALL WINDOWS COVERED	779	496	144	351	284		
NONE ADDED OR INSTALLED	661	420	117	304	240		
SOME OR ALL ADDED OR INSTALLED	103	63	19	45	40		
NOT REPORTED	15	12	9	3	3		
NOT REPORTED	48	43	12	30	5		
STORM DOORS:							
NO DOORS COVERED	232	146	54	92	86		
SOME OR ALL DOORS COVERED	737	482	149	333	254		
NONE ADDED OR INSTALLED	661	427	119	308	234		
SOME OR ALL ADDED OR INSTALLED	41	27	10	17	14		
NOT REPORTED	34	28	20	8	7		
NOT REPORTED	50	43	12	31	7		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	268	171	91	80	97		
WITH ATTIC OR ROOF INSULATION	479	302	63	239	176		
NONE ADDED OR INSTALLED	412	257	55	203	155		
SOME OR ALL ADDED OR INSTALLED	48	31	5	25	17		
LESS THAN 3 INCHES ADDED	1	-	-	-	1		
3 TO 6 INCHES ADDED	6	3	-	3	3		
6 INCHES OR MORE ADDED	17	11	2	9	6		
DON'T KNOW	20	15	4	11	6		
NOT REPORTED	4	2	-	2	2		
NOT REPORTED	19	14	3	11	4		
DON'T KNOW	223	154	49	105	69		
NOT REPORTED	49	44	12	32	5		
WALL INSULATION:							
NONE ADDED OR INSTALLED	922	598	199	399	324		
SOME OR ALL ADDED OR INSTALLED	37	24	2	22	13		
NOT REPORTED	60	51	16	35	10		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	738	483	163	320	255		
SOME OR ALL ADDED OR INSTALLED	180	117	30	87	63		
DON'T KNOW	54	30	11	19	25		
NOT REPORTED	48	43	12	30	5		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	927	597	196	400	330		
SOME OR ALL ADDED OR INSTALLED	31	25	4	21	6		
NOT REPORTED	61	50	16	34	11		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	8 800	6 382	1 472	4 911	2 418		
NO INSULATION ADDED OR INSTALLED	5 110	3 696	886	2 810	1 414		
WITH INSULATION ADDED OR INSTALLED	3 393	2 463	522	1 941	930		
LESS THAN \$50	1 419	1 015	196	819	404		
\$50 TO \$99	345	243	55	188	101		
\$100 TO \$199	367	263	61	201	105		
\$200 TO \$399	337	244	43	201	92		
\$400 OR MORE	514	369	100	268	145		
DON'T KNOW	172	137	31	107	35		
NOT REPORTED	240	192	35	157	48		
MEDIAN	60	60	78	55	60		
NOT REPORTED OR DON'T KNOW	297	224	64	159	74		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	245	179	57	122	66		
LESS THAN \$50	86	56	12	45	30		
\$50 TO \$99	28	22	12	9	6		
\$100 TO \$199	31	22	12	10	9		
\$200 TO \$399	26	16	2	14	10		
\$400 OR MORE	28	26	10	16	2		
DON'T KNOW	14	11	3	8	3		
NOT REPORTED	31	25	5	20	6		
MEDIAN	74	83	98	63	50-		

TABLE B-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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	171	121	35	86	50		
LESS THAN \$50	6	3	2	2	2		
\$50 TO \$99.	53	34	7	27	19		
\$100 TO \$199.	54	40	12	28	13		
\$200 TO \$399.	21	15	4	12	6		
\$400 OR MORE.	9	8	5	3	1		
DON'T KNOW.	6	4	2	2	2		
NOT REPORTED.	23	15	3	12	7		
MEDIAN.	123	133	...	126	97		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	404	283	53	229	122		
LESS THAN \$50	67	50	8	41	17		
\$50 TO \$99.	70	48	12	36	22		
\$100 TO \$199.	67	40	8	32	27		
\$200 TO \$399.	66	49	5	44	17		
\$400 OR MORE.	66	46	12	33	20		
DON'T KNOW.	26	17	1	16	9		
NOT REPORTED.	43	33	5	27	11		
MEDIAN.	146	146	131	150	147		
ALL OCCUPIED HOUSING UNITS.	16 952	13 386	5 872	7 514	3 566		
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK¹							
OWNER OCCUPIED	7 222	5 407	1 413	3 993	1 815		
DRIVES SELF	5 222	3 899	863	3 037	1 323		
CARPOOL	1 014	698	166	532	316		
MASS TRANSPORTATION	536	508	281	227	28		
BICYCLE OR MOTORCYCLE	19	19	4	15	1		
TAXICAB	7	5	5	-	2		
WALKS ONLY.	234	160	69	91	74		
OTHER MEANS	24	18	3	14	6		
WORKS AT HOME	153	92	19	73	60		
NOT REPORTED.	13	8	3	4	5		
RENTER OCCUPIED	4 131	3 502	2 007	1 495	629		
DRIVES SELF	2 104	1 679	657	1 022	425		
CARPOOL	485	385	195	190	101		
MASS TRANSPORTATION	1 023	1 016	860	156	7		
BICYCLE OR MOTORCYCLE	13	6	5	1	7		
TAXICAB	10	9	7	2	1		
WALKS ONLY.	402	336	246	91	66		
OTHER MEANS	17	13	8	5	4		
WORKS AT HOME	61	44	22	22	16		
NOT REPORTED.	15	13	7	6	2		
DISTANCE FROM HOME TO WORK¹							
OWNER OCCUPIED	7 222	5 407	1 413	3 993	1 815		
LESS THAN 1 MILE.	516	343	122	221	173		
1 TO 4 MILES.	1 412	1 043	334	709	368		
5 TO 9 MILES.	1 257	987	265	722	270		
10 TO 19 MILES.	1 547	1 206	290	916	341		
20 TO 29 MILES.	673	513	117	396	160		
30 TO 49 MILES.	440	299	46	253	140		
50 MILES OR MORE.	173	110	16	94	63		
WORKS AT HOME	153	92	19	73	60		
NO FIXED PLACE OF WORK.	879	659	115	544	220		
NOT REPORTED.	173	153	88	66	20		
MEDIAN.	9.3	9.4	7.6	10.0	9.0		
RENTER OCCUPIED	4 131	3 502	2 007	1 495	629		
LESS THAN 1 MILE.	480	375	241	135	105		
1 TO 4 MILES.	1 018	847	520	327	171		
5 TO 9 MILES.	771	659	331	328	112		
10 TO 19 MILES.	829	739	422	317	90		
20 TO 29 MILES.	293	254	130	123	40		
30 TO 49 MILES.	134	107	39	68	28		
50 MILES OR MORE.	16	9	5	4	7		
WORKS AT HOME	61	44	22	22	16		
NO FIXED PLACE OF WORK.	326	265	129	136	61		
NOT REPORTED.	202	202	168	34	-		
MEDIAN.	6.8	7.1	6.3	7.9	5.0		

¹LIMITED 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: 1978--CONTINUED
 (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	7 222	5 407	1 413	3 993	1 815		
LESS THAN 15 MINUTES.	1 938	1 349	352	997	589		
15 TO 29 MINUTES.	2 084	1 604	422	1 182	480		
30 TO 44 MINUTES.	1 117	878	230	648	239		
45 TO 59 MINUTES.	421	328	104	224	92		
1 HOUR TO 1 HOUR AND 29 MINUTES	404	322	115	207	82		
1 HOUR AND 30 MINUTES OR MORE	172	136	44	92	36		
WORKS AT HOME	153	92	19	73	60		
NO FIXED PLACE OF WORK.	879	659	115	544	220		
NOT REPORTED.	55	38	12	26	16		
MEDIAN.	23.1	23.9	24.9	23.6	20.3		
RENTER OCCUPIED	4 131	3 502	2 007	1 495	629		
LESS THAN 15 MINUTES.	1 140	841	407	434	299		
15 TO 29 MINUTES.	1 248	1 095	581	515	153		
30 TO 44 MINUTES.	654	601	391	211	53		
45 TO 59 MINUTES.	315	291	205	86	24		
1 HOUR TO 1 HOUR AND 29 MINUTES	277	262	199	62	15		
1 HOUR AND 30 MINUTES OR MORE	58	52	40	12	6		
WORKS AT HOME	61	44	22	22	16		
NO FIXED PLACE OF WORK.	326	265	129	136	61		
NOT REPORTED.	52	51	34	17	2		
MEDIAN.	23.4	25.0	28.0	21.5	15.0-		

¹LIMITED 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: 1978

(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	\$6,999 TO \$9,999	\$9,999 TO \$14,999	\$14,999 TO \$19,999	\$19,999 TO \$24,999	\$24,999 TO \$34,999	\$34,999 TO \$49,999	\$49,999 TO \$74,999	\$74,999 TO \$100,000	\$100,000 OR MORE	MEDIAN (DOLLARS)
ALL OCCUPIED HOUSING UNITS.	16 952	1 033	3 039	1 858	3 242	2 431	2 015	1 991	865	336	143	13900		
HOUSE HEATING FUEL														
OWNER OCCUPIED.	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700		
UTILITY GAS.	4 008	154	418	317	700	620	598	667	356	122	54	18300		
BOTTLED, TANK, OR LP GAS.	80	6	15	6	20	11	13	8	2	1		13500		
FUEL OIL.	5 218	188	635	459	925	808	793	845	349	148	68	17500		
KEROSENE, ETC.	94	8	16	17	25	12	9	4	3			11300		
ELECTRICITY.	552	16	41	37	91	103	99	101	46	15	3	19400		
COAL OR COKE.	110	7	23	13	21	28	8	8	-	2		12900		
WOOD.	88	7	13	11	16	14	11	12	3	-		13800		
SOLAR HEAT.	-	-	-	-	-	2	-	-	-	-		-		
OTHER FUEL.	2	-	-	-	-	-	-	-	-	-		-		
NONE.	3	-	3	-	-	-	-	-	-	-		-		
RENTER OCCUPIED.	6 797	648	1 875	998	1 444	831	483	346	107	49	16	9600		
UTILITY GAS.	2 293	279	654	329	453	279	158	95	38	8	-	8900		
BOTTLED, TANK, OR LP GAS.	38	2	9	12	9	1	4	1	1	-		9000		
FUEL OIL.	3 902	320	1 067	574	862	486	274	217	55	33	13	9900		
KEROSENE, ETC.	39	5	16	5	7	6	1	-	-	-		6500		
ELECTRICITY.	447	38	101	71	95	52	42	30	11	5	3	10700		
COAL OR COKE.	38	-	14	2	11	5	2	3	1	-		11300		
WOOD.	24	3	8	3	5	2	2	-	-	-		-		
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-		-		
OTHER FUEL.	12	-	2	-	3	2	-	-	2	-		-		
NONE.	5	-	4	1	-	-	-	-	-	-		-		
WATER HEATING FUEL														
OWNER OCCUPIED.	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700		
NO HOT PIPED WATER.	34	5	14	6	6	1	-	-	-	-		-		
WITH HOT PIPED WATER.	10 121	380	1 149	854	1 792	1 599	1 531	1 645	759	286	127	17800		
FUEL USED:														
UTILITY GAS.	4 501	166	517	352	788	682	684	738	384	134	56	18100		
BOTTLED, TANK, OR LP GAS.	255	14	42	31	52	41	26	37	10	2	2	13900		
FUEL OIL.	3 185	112	340	255	507	467	488	561	249	111	54	18800		
KEROSENE, ETC.	12	5	-	3	3	1	-	-	-	-		-		
ELECTRICITY.	2 160	81	245	207	437	392	328	305	114	37	15	16400		
COAL OR COKE.	29	2	2	3	4	13	2	2	-	-		-		
WOOD.	13	-	3	3	2	2	2	1	1	-		-		
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-		-		
OTHER FUEL.	5	-	1	-	-	-	-	1	2	-		-		
NONE.	-	-	-	-	-	-	-	-	-	-		-		
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-		-		
RENTER OCCUPIED.	6 797	648	1 875	998	1 444	831	483	346	107	49	16	9600		
NO HOT PIPED WATER.	28	7	13	2	5	1	-	-	-	-		-		
WITH HOT PIPED WATER.	6 769	641	1 862	995	1 439	830	483	346	107	49	16	9700		
FUEL USED:														
UTILITY GAS.	2 733	292	838	379	551	338	174	115	39	5	2	8900		
BOTTLED, TANK, OR LP GAS.	90	9	23	19	16	8	12	3	-	-		9000		
FUEL OIL.	3 073	257	803	461	663	384	227	176	56	35	10	10100		
KEROSENE, ETC.	6	-	-	2	2	2	1	-	-	-		-		
ELECTRICITY.	827	83	186	131	195	95	68	50	9	5	5	10300		
COAL OR COKE.	18	-	3	2	7	3	2	2	-	-		-		
WOOD.	2	-	2	1	-	-	-	-	-	-		-		
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-		-		
OTHER FUEL.	18	-	5	-	6	1	-	-	-	-		-		
NONE.	2	-	2	-	-	-	-	-	-	-		-		
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-		-		
COOKING FUEL														
OWNER OCCUPIED.	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700		
UTILITY GAS.	4 424	199	629	401	773	660	624	643	338	106	51	16600		
BOTTLED, TANK, OR LP GAS.	780	44	133	104	181	126	88	74	22	6	4	13000		
FUEL OIL.	24	-	2	2	11	-	3	3	-	-		-		
KEROSENE, ETC.	4	-	1	2	2	-	-	-	-	-		-		
ELECTRICITY.	4 888	140	386	347	829	811	809	925	395	174	72	19600		
COAL OR COKE.	7	-	2	1	1	3	2	1	1	1	-	-		
WOOD.	26	2	11	4	1	1	5	1	-	-		-		
SOLAR HEAT.	26	-	1	-	-	-	-	-	-	-		-		
OTHER FUEL.	2	-	-	-	-	-	-	-	-	-		-		
NONE.	-	-	-	-	-	-	-	-	-	-		-		
RENTER OCCUPIED.	6 797	648	1 875	998	1 444	831	483	346	107	49	16	9600		
UTILITY GAS.	4 761	459	1 379	698	964	579	321	238	78	36	10	9300		
BOTTLED, TANK, OR LP GAS.	258	27	69	34	70	27	16	10	2	-		9900		
FUEL OIL.	13	5	3	3	2	2	-	-	-	-		-		
KEROSENE, ETC.	2	1	2	-	-	-	-	-	-	-		-		
ELECTRICITY.	1 680	141	392	252	390	220	147	96	26	11	6	10700		
COAL OR COKE.	2	-	1	1	1	-	-	-	-	-		-		
WOOD.	2	1	1	1	-	-	-	-	-	-		-		
OTHER FUEL.	10	-	6	2	2	-	-	-	-	-		-		
NONE.	69	20	20	8	14	4	-	2	-	-		5900		
MONTHLY COST PAID FOR ELECTRICITY														
SPECIFIED OWNER OCCUPIED ¹	7 980	263	806	594	1 333	1 260	1 268	1 425	673	250	108	18900		
LESS THAN \$10.	89	12	32	9	13	10	-	9	3	2	-	7200		
\$10 TO \$19.	1 078	74	264	129	218	142	94	118	26	10	3	11700		
\$20 TO \$29.	2 093	89	241	223	391	369	319	308	115	30	7	16400		
\$30 TO \$39.	1 848	45	137	111	342	324	324	357	153	36	19	19500		
\$40 TO \$49.	1 082	14	62	45	154	162	228	221	131	46	21	22300		
\$50 TO \$59.	723	16	27	29	100	107	111	179	96	35	23	23700		
\$60 TO \$79.	596	11	27	24	70	83	122	132	68	39	7	23400		
\$80 TO \$89.	226	-	8	12	31	31	38	55	26	18	7	24100		
\$100 TO \$149.	192	2	5	9	10	24	28	40	42	23	9	24900		
\$150 OR MORE.	48	2	1	4	2	7	2	6	13	10	2	35800		
NO ELECTRICITY USED OR NOT REPORTED.	5	-	3	-	1	1	-	-	-	-		-		
MEDIAN.	34	25	24	26	31	33	36	37	43	50	52	...		

¹LIMITED 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: 1978--CONTINUED

(NUMBERS IN THOUSANDS. DATA BASED ON SAMPLE; SEE TEXT FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)														
J. 3 1	NORTHEAST REGION		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 (DOL- LARS)	
ALL OCCUPIED HOUSING UNITS--CONTINUED														
MONTHLY COST PAID FOR ELECTRICITY--CONTINUED														
SPECIFIED RENTER OCCUPIED ¹			6 744	643	1 860	994	1 429	823	479	345	105	49	16	9600
LESS THAN \$10			450	69	151	71	99	36	17	8	-	-	-	7200
\$10 TO \$19			1 962	164	557	284	430	259	133	94	24	10	6	9700
\$20 TO \$29			1 476	97	318	248	337	212	140	81	23	15	5	11100
\$30 TO \$39			708	31	148	81	173	117	70	59	17	8	3	12700
\$40 TO \$49			215	8	50	31	35	35	19	16	15	6	-	12600
\$50 TO \$59			159	6	27	21	29	25	21	21	5	3	-	14400
\$60 TO \$79			66	2	11	9	17	8	11	5	-	3	-	13400
\$80 TO \$99			20	3	6	3	1	2	2	-	4	-	2	...
\$100 TO \$149			12	-	2	6	-	-	3	1	-	-	-	...
\$150 OR MORE			16	3	2	2	2	-	3	1	1	-	-	...
INCLUDED IN RENT			1 636	259	573	234	305	127	64	51	20	4	-	6900
NO ELECTRICITY USED OR NOT REPORTED			24	-	16	5	3	1	-	-	-	-	-	...
MEDIAN			21	17	18	21	21	22	24	25	27	28	***	***
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS														
SPECIFIED OWNER OCCUPIED ²			7 980	263	806	594	1 333	1 260	1 268	1 425	673	250	108	18900
LESS THAN \$10			697	28	122	85	117	114	81	83	40	14	13	14800
\$10 TO \$14			451	20	82	39	85	67	57	61	26	11	2	15000
\$15 TO \$19			324	22	30	23	68	56	52	49	17	8	-	16700
\$20 TO \$24			295	12	41	44	41	47	35	47	24	4	1	16100
\$25 TO \$29			323	17	35	32	52	70	41	47	22	4	1	16900
\$30 TO \$39			797	35	63	46	136	124	139	155	53	20	6	19000
\$40 TO \$49			729	19	73	68	127	108	122	133	57	13	11	18600
\$50 TO \$69			1 045	25	78	59	169	135	177	205	134	44	20	21600
\$70 TO \$99			381	5	22	12	75	53	53	71	53	22	15	22300
\$100 OR MORE			149	6	11	8	13	18	17	22	31	14	8	25200
NO GAS USED OR NOT REPORTED			2 769	74	231	179	450	467	495	553	216	97	28	19900
MEDIAN			36	28	26	27	35	33	38	47	51	54	***	...
SPECIFIED RENTER OCCUPIED ¹			6 744	643	1 860	994	1 429	823	479	345	105	49	16	9600
LESS THAN \$10			1 506	119	423	202	345	186	116	79	25	8	2	10100
\$10 TO \$14			563	51	150	94	104	78	38	24	10	11	3	9600
\$15 TO \$19			347	25	100	50	65	55	23	26	4	-	-	9900
\$20 TO \$24			233	25	47	43	45	30	15	15	11	2	-	10300
\$25 TO \$29			156	21	43	25	35	19	8	7	-	-	-	8800
\$30 TO \$39			273	27	72	46	50	43	16	17	3	-	-	9500
\$40 TO \$49			188	13	45	30	41	28	12	14	3	2	-	10800
\$50 TO \$69			178	7	47	18	45	27	20	12	3	-	-	11900
\$70 TO \$99			77	7	25	10	19	10	5	1	-	-	-	8800
\$100 OR MORE			23	6	11	4	2	1	-	-	-	-	...	...
INCLUDED IN RENT			2 185	265	669	309	435	229	136	89	31	17	5	8500
NO GAS USED OR NOT REPORTED			1 014	77	229	164	244	118	90	61	14	10	6	10800
MEDIAN			12	12	12	13	11	13	11	13	12	...	...	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.														
SPECIFIED OWNER OCCUPIED ²			7 980	263	806	594	1 333	1 260	1 268	1 425	673	250	108	18900
LESS THAN \$100			156	10	8	18	26	25	19	21	20	6	3	18300
\$100 TO \$199			89	2	12	5	20	14	14	15	3	3	-	16900
\$200 TO \$299			221	8	23	19	52	36	29	39	13	2	-	16300
\$300 TO \$399			477	24	54	52	77	85	80	74	22	6	2	16800
\$400 TO \$499			563	25	93	54	112	84	77	80	29	6	4	14900
\$500 TO \$599			642	21	69	55	89	131	98	120	44	13	2	18300
\$600 TO \$699			617	19	66	46	123	83	104	107	48	17	4	18300
\$700 TO \$799			535	15	57	31	70	79	102	105	55	12	8	20700
\$800 OR MORE			1 071	22	99	65	149	157	166	214	96	71	31	21300
FUELS NOT USED, FREE, OR NOT REPORTED			3 609	117	324	249	615	566	579	651	342	114	53	19400
MEDIAN			606	522	573	544	580	578	626	636	670	800+	800+	...
SPECIFIED RENTER OCCUPIED ¹			6 744	643	1 860	994	1 429	823	479	345	105	49	16	9600
LESS THAN \$100			30	4	12	5	3	2	-	4	1	-	-	...
\$100 TO \$199			39	1	17	8	8	3	1	2	-	-	-	7800
\$200 TO \$299			63	3	18	12	21	3	2	3	-	-	-	9500
\$300 TO \$399			114	10	28	14	29	15	14	4	2	-	-	10800
\$400 TO \$499			118	11	30	17	24	13	13	9	2	-	-	10300
\$500 TO \$599			90	4	23	7	16	11	15	12	-	-	-	13100
\$600 TO \$699			89	4	21	13	19	20	7	3	1	-	-	11600
\$700 TO \$799			68	1	15	10	16	10	8	3	-	-	-	12500
\$800 OR MORE			108	2	21	13	25	21	11	8	6	2	-	13600
INCLUDED IN RENT			3 507	326	977	524	734	423	236	185	64	27	11	9600
FUELS NOT USED, FREE, OR NOT REPORTED			2 517	276	690	372	533	303	173	111	29	16	5	9300
MEDIAN			495	417	459	463	481	617	535	521	...	...	-	...
ALL OCCUPIED HOUSING UNITS			16 952	1 033	3 039	1 858	3 242	2 431	2 015	1 991	865	336	143	13900
HEATING EQUIPMENT														
OWNER OCCUPIED			10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700
WARM-AIR FURNACE			4 366	159	479	362	790	726	680	701	315	114	41	17700
HEAT PUMP			43	2	5	-	6	5	4	8	12	1	-	24500
STEAM OR HOT WATER			4 901	165	552	418	854	722	729	827	392	180	82	18200
BUILT-IN ELECTRIC UNITS			436	12	29	31	79	85	75	79	31	11	3	18900
FLOOR, WALL, OR PIPELESS FURNACE			102	12	17	9	29	17	11	8	1	-	-	12500
ROOM HEATERS WITH FLUE			149	23	45	24	13	19	13	7	4	-	1	7800
ROOM HEATERS WITHOUT FLUE			8	1	4	-	2	2	-	-	-	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS			148	12	30	16	27	25	18	16	4	-	-	13000
NONE			3	-	3	-	-	-	-	-	-	-	-	...

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

²LIMITED 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: 1978--CONTINUED

(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	\$7,000	\$10,000	\$15,000	\$20,000	\$25,000	\$35,000	\$50,000	\$75,000	MEDIAN (DOL- LARS)	
		\$3,000	\$6,999	\$9,999	\$14,999	\$19,999	\$24,999	\$34,999	\$49,999	\$74,999	\$74,999		
ALL OCCUPIED HOUSING UNITS--CONTINUED													
HEATING EQUIPMENT--CONTINUED													
RENTER OCCUPIED	6 797	648	1 875	998	1 444	831	483	346	107	49	16	9600	
WARM-AIR FURNACE	1 486	148	358	219	331	198	105	94	25	8	-	10300	
HEAT PUMP	18	2	4	2	7	1	2	-	2	-	-	..	
STEAM OR HOT WATER	4 428	391	1 267	643	940	537	313	219	68	37	13	9600	
BUILT-IN ELECTRIC UNITS	375	32	89	61	73	41	36	26	9	5	3	10400	
FLOOR, WALL, OR PIPELESS FURNACE	37	8	2	4	14	6	3	-	-	-	-	11600	
ROOM HEATERS WITH FLUE	337	52	111	53	63	34	16	6	2	-	-	7300	
ROOM HEATERS WITHOUT FLUE	28	7	9	3	7	1	2	-	-	-	-	..	
FIREPLACES, STOVES, OR PORTABLE HEATERS	83	8	30	12	11	13	8	-	1	-	-	7900	
NONE	5	-	4	1	-	-	-	-	-	-	-	..	
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
OWNER OCCUPIED	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700	
NO HEATING EQUIPMENT	3	-	3	-	-	-	-	-	-	-	-	..	
WITH HEATING EQUIPMENT	10 152	385	1 161	860	1 798	1 600	1 531	1 645	759	286	127	17700	
NO THERMOSTAT CONTROL	513	61	126	68	84	59	47	39	12	9	8	10100	
WITH THERMOSTAT CONTROL	9 614	322	1 029	789	1 713	1 538	1 477	1 604	747	278	116	18100	
NOT CLOCK OPERATED	8 254	283	874	681	1 490	1 295	1 406	587	215	83	18000		
CONSTANT TEMPERATURE SETTING MAINTAINED	2 531	111	307	230	476	426	362	407	132	57	23	16700	
TEMPERATURE SETTING IS CHANGED	5 679	170	563	449	1 005	916	920	991	450	158	58	18600	
OCCASIONALLY	1 499	57	168	134	280	256	218	227	118	34	8	17200	
REGULARLY	4 137	110	391	308	717	655	698	758	326	124	50	19100	
DON'T KNOW	34	3	3	3	7	2	4	5	6	-	-	..	
NOT REPORTED	8	-	1	3	2	2	-	1	-	-	-	..	
NOT REPORTED	44	2	3	2	8	3	10	8	5	2	2	21600	
CLOCK OPERATED	1 313	39	147	106	212	189	177	193	153	61	36	19000	
NOT REPORTED	47	1	9	3	10	3	7	6	7	2	-	17000	
NOT REPORTED	24	2	7	2	1	3	7	1	-	-	-	..	
RENTER OCCUPIED	6 797	648	1 875	998	1 444	831	483	346	107	49	16	9600	
NO HEATING EQUIPMENT	5	-	4	1	-	-	-	-	-	-	-	..	
WITH HEATING EQUIPMENT	6 792	648	1 871	997	1 444	831	483	346	107	49	16	9600	
NO THERMOSTAT CONTROL	3 588	389	1 108	531	701	376	222	160	63	28	10	8700	
WITH THERMOSTAT CONTROL	3 180	256	757	463	738	450	259	187	43	21	6	10800	
NOT CLOCK OPERATED	2 772	216	658	409	639	394	226	169	39	17	5	10800	
CONSTANT TEMPERATURE SETTING MAINTAINED	895	88	242	129	192	111	71	47	9	5	-	9700	
TEMPERATURE SETTING IS CHANGED	1 850	127	411	271	441	282	152	120	31	12	5	11300	
OCCASIONALLY	626	36	161	82	151	102	51	33	8	3	-	11200	
REGULARLY	1 201	85	242	186	286	180	100	86	23	9	5	11500	
DON'T KNOW	23	7	6	3	4	-	-	1	-	-	-	..	
NOT REPORTED	1	-	-	-	-	-	-	1	-	-	-	..	
NOT REPORTED	27	-	5	9	5	1	5	2	-	-	-	..	
CLOCK OPERATED	387	38	99	50	91	53	29	18	4	5	2	10400	
NOT REPORTED	21	2	-	4	9	3	2	-	-	-	-	..	
NOT REPORTED	24	3	6	3	5	5	2	-	-	-	-	..	
ALL OCCUPIED HOUSING UNITS	16 952	1 033	3 039	1 858	3 242	2 431	2 015	1 991	865	336	143	13900	
UNITS OCCUPIED LAST WINTER	14 633	810	2 582	1 550	2 770	2 110	1 778	1 808	784	313	128	14300	
INSUFFICIENT HEAT													
CLOSURE OF ROOMS:													
OWNER OCCUPIED	9 465	356	1 123	823	1 677	1 460	1 401	1 534	698	276	117	17600	
WITH HEATING EQUIPMENT	9 463	356	1 121	823	1 677	1 460	1 401	1 534	698	276	117	17600	
NO ROOMS CLOSED	9 087	321	1 057	773	1 609	1 410	1 368	1 487	685	267	110	17800	
CLOSED CERTAIN ROOMS	303	31	52	41	55	43	23	42	8	4	3	12500	
LIVING ROOM ONLY	7	1	-	-	1	1	1	4	-	-	-	..	
DINING ROOM ONLY	5	-	-	-	4	4	1	-	-	-	-	..	
1 OR MORE BEDROOMS ONLY	186	22	43	27	28	28	13	20	2	1	2	10200	
OTHER ROOMS OR COMBINATION OF ROOMS	98	9	8	14	21	13	8	15	4	3	2	14300	
NOT REPORTED	6	-	-	1	2	-	-	2	-	-	-	..	
NOT REPORTED	74	4	12	9	13	7	10	6	5	4	3	14500	
NO HEATING EQUIPMENT	2	-	2	-	-	-	-	-	-	-	-	..	
RENTER OCCUPIED	5 168	454	1 459	727	1 093	650	377	273	86	37	11	9800	
WITH HEATING EQUIPMENT	5 163	454	1 455	726	1 093	650	377	273	86	37	11	9800	
NO ROOMS CLOSED	4 798	414	1 324	673	1 017	612	357	268	83	37	11	9900	
CLOSED CERTAIN ROOMS	306	28	112	44	64	36	13	6	2	-	-	7800	
LIVING ROOM ONLY	19	2	8	4	3	2	-	-	-	-	-	..	
DINING ROOM ONLY	4	-	-	2	2	-	-	-	-	-	-	..	
1 OR MORE BEDROOMS ONLY	196	19	79	26	39	24	7	-	2	-	-	7000	
OTHER ROOMS OR COMBINATION OF ROOMS	84	8	24	12	18	10	5	6	-	-	-	9400	
NOT REPORTED	3	-	-	2	-	-	-	-	-	-	-	..	
NOT REPORTED	60	11	19	9	12	2	7	-	-	-	-	6800	
NO HEATING EQUIPMENT	5	-	4	1	-	-	-	-	-	-	-	..	
ADDITIONAL HEAT SOURCE:													
OWNER OCCUPIED	9 465	356	1 123	823	1 677	1 460	1 401	1 534	698	276	117	17600	
WITH SPECIFIED HEATING EQUIPMENT	9 322	344	1 089	809	1 652	1 437	1 384	1 521	694	276	117	17700	
NO ADDITIONAL HEAT SOURCE USED	8 659	315	1 007	746	1 537	1 335	1 283	1 411	661	258	106	17700	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	600	27	72	54	104	94	93	103	30	15	8	17300	
NOT REPORTED	63	2	10	9	10	9	8	6	3	3	3	15200	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	143	12	34	15	25	23	17	14	4	-	-	12200	
RENTER OCCUPIED	5 168	454	1 459	727	1 093	650	377	273	86	37	11	9800	
WITH SPECIFIED HEATING EQUIPMENT	5 085	446	1 426	717	1 079	640	369	273	85	37	11	9800	
NO ADDITIONAL HEAT SOURCE USED	4 172	354	1 139	584	864	552	322	239	75	36	10	10100	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	860	85	271	124	206	86	40	35	11	2	2	8800	
NOT REPORTED	53	8	17	9	10	2	7	-	-	-	-	7600	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	84	6	33	10	13	11	8	-	1	-	-	7300	

*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: 1978--CONTINUED

(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	\$7,000	\$10,000	\$15,000	\$20,000	\$25,000	\$35,000	\$50,000	\$75,000	MEDIAN	
			\$3,000	\$6,999	\$9,999	\$14,999	\$19,999	\$24,999	\$34,999	\$49,999	\$74,999	\$74,999	(DOL- LARS)	
ALL OCCUPIED HOUSING UNITS--CONTINUED														
UNITS OCCUPIED LAST WINTER--CONTINUED														
INSUFFICIENT HEAT--CONTINUED														
ROOMS LACKING SPECIFIED HEAT SOURCE:														
OWNER OCCUPIED	9 465	356	1 123	823	1 677	1 460	1 401	1 534	698	276	117	17600		
WITH SPECIFIED HEATING EQUIPMENT	9 322	344	1 089	809	1 652	1 437	1 384	1 521	694	276	117	17700		
NO ROOMS LACKING AIR DUCTS, REGISTERS,														
RADIATORS, OR HEATERS	8 033	279	895	660	1 373	1 252	1 218	1 359	637	256	103	18200		
ROOMS LACKING AIR DUCTS, REGISTERS,														
RADIATORS, OR HEATERS	1 199	63	183	134	261	175	150	155	54	16	8	14200		
1 ROOM	502	19	71	46	102	68	80	72	33	7	4	16000		
2 ROOMS	315	19	50	35	67	40	34	48	15	5	1	14000		
3 ROOMS OR MORE	383	25	62	53	92	67	36	34	6	4	3	12800		
NOT REPORTED	89	2	11	14	18	10	15	7	3	3	5	14700		
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	143	12	34	15	25	23	17	14	4	-	-	12200		
RENTER OCCUPIED	5 168	454	1 459	727	1 093	650	377	273	86	37	11	9800		
WITH SPECIFIED HEATING EQUIPMENT	5 085	446	1 426	717	1 079	640	369	273	85	37	11	9800		
NO ROOMS LACKING AIR DUCTS, REGISTERS,														
RADIATORS, OR HEATERS	4 350	366	1 223	608	910	546	328	246	75	36	11	9900		
ROOMS LACKING AIR DUCTS, REGISTERS,														
RADIATORS, OR HEATERS	649	68	186	96	149	84	33	21	10	2	-	9200		
1 ROOM	269	30	76	32	63	40	13	7	6	2	-	9700		
2 ROOMS	163	18	48	27	31	25	3	10	1	-	-	8700		
3 ROOMS OR MORE	218	20	62	37	56	18	17	4	-	-	-	9100		
NOT REPORTED	85	11	17	13	20	10	8	6	-	-	-	10300		
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	84	8	33	10	13	11	8	-	1	-	-	7300		
ALL OCCUPIED HOUSING UNITS	16 952	1 033	3 039	1 858	3 242	2 431	2 015	1 991	865	336	143	13900		
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS														
OWNER OCCUPIED	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	151	12	32	16	27	25	18	16	4	-	1	12600		
WITH SELECTED HEATING EQUIPMENT	10 004	373	1 132	844	1 771	1 575	1 513	1 628	755	286	127	17800		
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 430	364	1 092	810	1 674	1 490	1 389	1 513	706	273	118	17600		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	515	5	30	29	90	77	116	105	43	12	9	21200		
SOLAR HEATING EQUIPMENT	1	-	-	-	1	-	-	-	-	-	-	-	...	
STOVE, BURNING WOOD OR COAL	290	3	12	20	57	46	71	58	13	5	5	20500		
FIREPLACE, BURNING WOOD OR COAL	60	-	-	-	9	10	18	15	9	-	-	23100		
PORTABLE ELECTRIC HEATER	82	2	7	8	16	6	11	17	13	2	-	20800		
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	14	-	-	-	4	6	-	3	1	-	-	23200		
OTHER	63	-	8	1	3	9	16	12	8	5	2	23200		
NOT REPORTED	5	-	2	-	1	1	-	-	-	-	-	2	...	
NOT REPORTED	59	4	10	5	7	9	8	10	6	1	1	17300		
RENTER OCCUPIED	6 797	648	1 875	998	1 444	831	983	346	107	49	16	9600		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	88	8	34	13	11	13	8	-	1	-	-	7400		
WITH SELECTED HEATING EQUIPMENT	6 710	640	1 841	985	1 434	818	475	346	106	49	16	9700		
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 349	609	1 733	939	1 337	781	457	331	99	49	15	9700		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	320	26	102	41	83	29	16	14	7	-	2	9300		
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	...	
STOVE, BURNING WOOD OR COAL	22	1	2	6	4	2	3	4	-	-	-	...		
FIREPLACE, BURNING WOOD OR COAL	-	-	-	-	-	-	-	-	-	-	-	...		
PORTABLE ELECTRIC HEATER	252	24	80	32	69	20	13	7	6	-	2	9100		
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	9	-	5	-	2	-	-	-	-	-	-	...		
OTHER	34	2	12	3	9	3	-	3	1	-	-	...		
NOT REPORTED	5	-	4	-	-	2	-	-	-	-	-	...		
NOT REPORTED	40	4	6	5	13	8	2	2	-	-	-	-	11800	
AGE OF HEATING EQUIPMENT														
OWNER OCCUPIED	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	307	36	81	40	41	45	32	23	8	-	1	9700		
WITH SELECTED HEATING EQUIPMENT	9 847	349	1 083	820	1 756	1 555	1 499	1 622	751	286	126	17900		
LESS THAN 4 YEARS	1 175	44	88	72	224	188	211	198	113	28	6	19200		
4 TO 9 YEARS	1 937	61	206	131	368	326	301	324	147	52	21	18100		
10 TO 19 YEARS	2 985	73	287	246	540	458	476	529	246	98	35	18800		
20 TO 39 YEARS	2 587	100	336	242	375	394	344	474	195	93	35	18100		
40 YEARS OR MORE	292	7	37	22	61	51	46	34	13	10	12	16900		
DON'T KNOW	586	40	69	55	128	107	91	47	30	9	12	15100		
NOT REPORTED	283	25	59	51	60	31	31	17	7	-	2	10400		
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS														
OWNER OCCUPIED	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	307	36	81	40	41	45	32	23	8	-	1	9700		
WITH SELECTED HEATING EQUIPMENT	9 847	349	1 083	820	1 756	1 555	1 499	1 622	751	286	126	17900		
NO MAINTENANCE OR MODIFICATION	6 294	223	658	520	1 155	1 020	1 001	1 017	476	149	76	17900		
WITH MAINTENANCE OR MODIFICATION	3 260	101	368	250	547	496	466	579	271	137	45	18700		
NOT REPORTED	294	25	57	50	55	39	32	26	3	-	5	11300		
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT														
OWNER OCCUPIED	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	307	36	81	40	41	45	32	23	8	-	1	9700		
WITH SELECTED HEATING EQUIPMENT	9 847	349	1 083	820	1 756	1 555	1 499	1 622	751	286	126	17900		
NO MAINTENANCE CONTRACT	6 625	236	713	536	1 257	1 073	1 012	1 075	486	159	78	17700		
WITH MAINTENANCE CONTRACT	2 904	85	304	236	436	438	455	523	259	125	44	19500		
NOT REPORTED	319	29	66	48	64	44	32	24	6	2	4	11300		

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

²EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

³EXCLUDES 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 CHARACTERISTICS¹ 1978--CONTINUED

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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED													
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
OWNER OCCUPIED	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700	
NO HOT PIPED WATER	34	5	14	6	6	1	-	-	-	-	-	-	-
WITH HOT PIPED WATER	10 121	380	1 149	854	1 792	1 599	1 531	1 645	759	286	127	17800	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 899	360	1 124	829	1 749	1 578	1 499	1 614	742	283	121	17800	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	38	3	2	8	4	5	7	8	2	-	-	-	-
NOT REPORTED	184	17	24	17	39	15	25	22	15	3	6	18300	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	6 797	648	1 875	998	1 444	831	483	346	107	49	16	9600	
NO HOT PIPED WATER	28	7	13	2	5	1	-	-	-	-	-	-	-
WITH HOT PIPED WATER	6 769	641	1 862	995	1 439	830	483	346	107	49	16	9700	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 575	626	1 811	963	1 392	811	464	340	104	49	15	9600	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	-	3	4	5	3	-	-	1	-	2	-	-
NOT REPORTED	174	15	46	28	42	16	19	6	2	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING													
OWNER OCCUPIED	10 155	385	1 164	860	1 798	1 600	1 531	1 645	759	286	127	17700	
WITH AIR CONDITIONING	4 745	109	350	323	758	717	791	921	474	211	91	20700	
ROOM UNITS	3 880	87	314	282	651	628	634	742	341	138	62	19800	
1	2 054	45	209	185	409	346	319	342	39	21	17600		
2	1 181	33	75	70	185	198	185	250	122	48	16	20800	
3	406	8	21	24	37	59	87	82	44	31	14	23100	
4	171	2	4	2	10	22	32	49	29	15	6	27900	
5 OR MORE	68	-	5	2	9	3	10	20	9	5	4	27100	
CENTRAL SYSTEM	865	21	36	40	107	89	158	179	133	73	30	24400	
WITH NO AIR CONDITIONING	5 410	277	813	537	1 040	883	740	724	285	75	36	15200	
RENTER OCCUPIED	6 797	648	1 875	998	1 444	831	483	346	107	49	16	9600	
WITH AIR CONDITIONING	2 405	124	436	311	560	377	259	219	67	37	15	13000	
ROOM UNITS	2 073	113	408	275	480	323	219	177	45	26	8	12500	
1	1 421	90	325	204	336	216	130	95	13	8	2	11400	
2	554	20	67	68	128	87	69	71	29	11	3	14800	
3	87	2	12	3	13	18	18	9	3	5	3	18700	
4	7	1	-	-	2	-	2	2	-	2	-	-	
5 OR MORE	5	-	3	-	2	-	-	-	-	-	-	-	
CENTRAL SYSTEM	332	11	28	36	80	53	40	43	22	11	7	16000	
WITH NO AIR CONDITIONING	4 393	524	1 439	687	885	454	224	127	39	12	2	8000	
ALL OCCUPIED HOUSING UNITS	16 952	1 033	3 039	1 858	3 242	2 431	2 015	1 991	865	336	143	13900	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	9 820	391	1 170	841	1 762	1 521	1 442	1 569	730	273	121	17500	
OWNER OCCUPIED	8 800	308	932	680	1 534	1 372	1 365	1 506	716	268	119	18400	
ALL WINDOWS COVERED	7 154	222	720	531	1 209	1 117	1 138	1 274	628	215	99	19000	
SOME WINDOWS COVERED	1 202	52	142	111	241	196	169	183	62	37	10	16400	
NO WINDOWS COVERED	404	29	60	34	75	51	56	47	25	16	9	15300	
NOT REPORTED	40	5	10	3	10	7	2	2	-	-	1	10700	
RENTER OCCUPIED	1 019	83	238	161	227	149	77	63	14	5	2	10600	
ALL WINDOWS COVERED	545	48	109	97	110	81	51	33	9	5	2	10800	
SOME WINDOWS COVERED	234	14	67	30	55	33	14	19	1	-	-	10500	
NO WINDOWS COVERED	192	18	53	25	48	27	8	10	3	-	-	9900	
NOT REPORTED	48	3	8	8	14	7	4	2	2	-	-	11700	
STORM DOORS	8 800	308	932	680	1 534	1 372	1 365	1 506	716	268	119	18400	
OWNER OCCUPIED	6 989	227	748	550	1 183	1 099	1 125	1 227	543	193	94	18600	
SOME DOORS COVERED	1 155	82	94	67	229	194	150	192	43	12	18200		
NO DOORS COVERED	619	34	80	39	115	74	88	85	61	31	12	17800	
NOT REPORTED	36	5	10	3	7	6	2	2	-	-	1	9300	
RENTER OCCUPIED	1 019	83	238	161	227	149	77	63	14	5	2	10600	
ALL DOORS COVERED	575	42	134	86	114	83	57	45	9	5	-	11100	
SOME DOORS COVERED	162	13	47	21	42	24	8	6	1	-	-	10000	
NO DOORS COVERED	232	24	48	47	55	34	8	10	2	-	2	9700	
NOT REPORTED	50	3	8	8	17	7	4	2	2	-	-	11800	
ATTIC OR ROOF INSULATION	8 800	308	932	680	1 534	1 372	1 365	1 506	716	268	119	18400	
OWNER OCCUPIED	7 136	192	622	501	1 193	1 125	1 184	1 319	639	240	101	19700	
NO	1 280	94	256	143	264	187	127	129	51	21	8	12800	
DON'T KNOW	336	17	42	29	68	55	49	38	24	4	10	16100	
NOT REPORTED	48	5	12	6	10	6	5	-	2	2	1	10700	
RENTER OCCUPIED	1 019	83	238	161	227	149	77	63	14	5	2	10600	
YES	879	32	93	77	103	78	46	40	5	3	2	11800	
NO	268	27	78	44	62	34	11	7	3	2	-	9000	
DON'T KNOW	223	22	59	32	49	29	16	14	2	-	-	9800	
NOT REPORTED	49	3	8	8	14	7	4	2	3	-	-	11900	

¹LIMITED 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: 1978--CONTINUED

(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 (DOL- LARS)	
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.														
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:		6 800	308	932	680	1 534	1 372	1,365	1 506	716	268	119	18400	
NO WINDOWS COVERED.		404	29	60	34	75	51	56	47	25	16	9	15300	
SOME OR ALL WINDOWS COVERED		8 356	274	862	642	1 449	1 318	1 307	1 457	690	252	109	18600	
NONE ADDED OR INSTALLED		7 413	254	783	576	1 273	1 144	1 169	1 295	595	227	98	18600	
SOME OR ALL ADDED OR INSTALLED		875	20	71	61	162	157	130	155	89	21	9	19000	
NOT REPORTED.		69	-	8	6	15	12	8	6	4	2	2	17200	
NOT REPORTED.		40	5	10	3	10	7	2	2	-	-	1	10700	
STORM DOORS:														
NO DOORS COVERED.		619	34	80	39	115	74	88	85	61	31	12	17800	
SOME OR ALL DOORS COVERED		8 185	269	892	638	1 412	1 293	1 275	1 419	655	237	106	18500	
NONE ADDED OR INSTALLED		7 415	252	783	587	1 287	1 155	1 161	1 294	590	206	99	18500	
SOME OR ALL ADDED OR INSTALLED		577	11	43	35	93	110	92	105	57	26	5	19800	
NOT REPORTED.		153	6	15	15	31	27	22	21	8	4	3	16600	
NOT REPORTED.		36	5	10	3	7	6	2	2	-	-	1	9300	
ATTIC OR ROOF INSULATION:														
NO ATTIC OR ROOF INSULATION		1 280	94	256	143	264	187	127	129	51	21	8	12800	
WITH ATTIC OR ROOF INSULATION		7 136	192	622	501	1 193	1 125	1 184	1 339	639	240	101	19700	
NONE ADDED OR INSTALLED		6 258	170	561	463	1 052	967	1 015	1 174	554	212	90	19600	
SOME OR ALL ADDED OR INSTALLED		739	20	45	27	122	136	148	140	70	24	7	20600	
LESS THAN 3 INCHES ADDED		45	2	3	4	13	3	10	7	2	1	1	15400	
3 TO 6 INCHES ADDED		333	5	23	13	45	46	64	63	34	16	2	21000	
6 INCHES OR MORE ADDED		272	7	10	7	42	51	60	61	27	6	1	21600	
DON'T KNOW		60	7	6	-	15	10	8	6	5	2	3	16400	
NOT REPORTED		28	-	2	2	6	6	6	3	3	-	-	20100	
NOT REPORTED		139	1	16	11	19	22	21	25	16	4	4	16100	
DON'T KNOW		336	17	42	29	68	55	49	38	24	2	2	10700	
NOT REPORTED		48	5	12	6	10	6	5	-	2	2	1	10700	
WALL INSULATION:														
NONE ADDED OR INSTALLED		8 081	281	884	640	1 399	1 243	1 216	1 385	666	257	109	18400	
SOME OR ALL ADDED OR INSTALLED		668	18	38	37	128	121	147	115	46	11	9	19700	
NOT REPORTED		51	8	10	3	7	8	2	7	3	-	1	12400	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:														
NONE ADDED OR INSTALLED		6 298	239	764	511	1 106	953	893	1 022	518	194	97	17800	
SOME OR ALL ADDED OR INSTALLED		2 394	57	153	161	409	401	456	472	192	72	22	20200	
DON'T KNOW		70	3	5	5	12	14	16	10	4	2	1	18600	
NOT REPORTED		38	8	10	3	7	5	-	2	2	-	1	7400	
OTHER INSULATION:														
NONE ADDED OR INSTALLED		8 237	292	898	648	1 432	1 254	1 268	1 405	674	256	110	18400	
SOME OR ALL ADDED OR INSTALLED		508	7	24	29	88	110	96	96	38	11	8	19800	
NOT REPORTED		56	8	10	3	14	8	2	5	4	-	1	12100	
RENTER OCCUPIED		1 019	83	238	161	227	149	77	63	14	5	2	10600	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:														
NO WINDOWS COVERED		192	18	53	25	48	27	8	10	3	-	-	9900	
SOME OR ALL WINDOWS COVERED		779	62	176	128	166	114	65	51	9	5	2	10700	
NONE ADDED OR INSTALLED		661	51	148	106	145	93	57	46	9	5	1	10900	
SOME OR ALL ADDED OR INSTALLED		103	11	22	19	21	16	7	6	3	2	2	9900	
NOT REPORTED		15	-	6	3	-	5	2	-	-	-	-	11700	
NOT REPORTED		48	3	8	8	14	7	4	2	2	-	-	11700	
STORM DOORS:														
NO DOORS COVERED		232	26	48	47	55	34	8	10	2	-	2	9700	
SOME OR ALL DOORS COVERED		737	55	181	106	156	107	65	51	10	5	5	10800	
NONE ADDED OR INSTALLED		661	48	93	93	145	96	58	48	10	5	1	11100	
SOME OR ALL ADDED OR INSTALLED		41	2	12	6	8	6	6	5	2	-	-	10400	
NOT REPORTED		34	4	13	7	2	5	2	1	2	-	-	11800	
NOT REPORTED		50	3	8	8	17	7	4	2	2	-	-	11800	
ATTIC OR ROOF INSULATION:														
NO ATTIC OR ROOF INSULATION		268	27	78	44	62	34	11	7	3	2	-	9000	
WITH ATTIC OR ROOF INSULATION		479	32	93	77	103	78	46	40	35	3	2	11800	
NONE ADDED OR INSTALLED		412	28	79	67	88	67	41	31	35	3	2	11800	
SOME OR ALL ADDED OR INSTALLED		48	3	7	9	11	5	4	7	-	-	-	11700	
LESS THAN 3 INCHES ADDED		1	-	-	-	-	-	-	-	-	-	-	...	
3 TO 6 INCHES ADDED		6	-	2	1	4	-	-	-	-	-	-	...	
6 INCHES OR MORE ADDED		17	-	1	2	6	2	3	3	3	-	-	...	
DON'T KNOW		20	-	3	3	4	1	3	1	3	-	-	...	
NOT REPORTED		4	-	2	2	3	-	-	-	-	-	-	...	
NOT REPORTED		19	-	6	1	4	6	1	1	1	-	-	...	
DON'T KNOW		223	22	59	32	49	29	16	14	2	2	-	9900	
NOT REPORTED		49	3	8	8	14	7	4	2	3	-	-	11900	
WALL INSULATION:														
NONE ADDED OR INSTALLED		922	77	223	146	200	135	68	57	10	5	2	10400	
SOME OR ALL ADDED OR INSTALLED		37	3	6	6	12	3	3	4	-	-	-	11500	
NOT REPORTED		60	3	9	9	15	10	7	3	4	-	-	12900	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:														
NONE ADDED OR INSTALLED		738	64	188	108	162	97	56	50	9	3	2	10300	
SOME OR ALL ADDED OR INSTALLED		180	11	31	38	38	38	11	8	3	2	-	11300	
DON'T KNOW		54	6	11	7	14	7	6	3	3	1	-	11400	
NOT REPORTED		48	3	8	8	14	7	4	2	2	-	-	11700	
OTHER INSULATION:														
NONE ADDED OR INSTALLED		927	77	219	140	208	133	72	58	13	5	2	10700	
SOME OR ALL ADDED OR INSTALLED		31	4	6	9	3	7	2	2	-	-	-	11000	
NOT REPORTED		61	3	13	12	16	8	5	3	2	-	-	11000	

TABLE B-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED

(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		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 (DOL- LARS)
	TOTAL											
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.												
NO INSULATION ADDED OR INSTALLED	8 800	308	932	680	1 534	1 372	1 365	1 506	716	268	119	18400
WITH INSULATION ADDED OR INSTALLED	5 110	213	643	425	905	743	726	799	407	160	80	17800
LESS THAN \$50	3 393	78	246	220	579	581	600	671	287	100	31	19900
\$50 TO \$99	345	5	24	26	55	66	59	75	25	8	12	19700
\$100 TO \$199	367	7	21	17	72	68	69	70	30	9	5	20000
\$200 TO \$399	337	3	13	19	64	71	48	70	34	12	3	19900
\$400 OR MORE	514	11	31	24	86	86	99	86	64	19	6	20900
DON'T KNOW	172	5	17	9	31	23	23	27	20	12	2	20000
NOT REPORTED	240	9	18	19	48	33	30	53	22	9	-	19100
MEDIAN.	60	50-	50-	50-	73	71	51	54	118	109	..	..
NOT REPORTED OR DON'T KNOW	297	17	43	25	50	49	39	36	22	8	8	16300
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
LESS THAN \$50	245	3	30	22	47	43	22	49	23	3	3	17400
\$50 TO \$99	86	3	11	7	18	15	8	20	2	2	-	16200
\$100 TO \$199	28	-	4	-	2	8	2	8	4	-	-	..
\$200 TO \$399	31	-	2	5	2	7	2	3	7	-	3	..
\$400 OR MORE	26	-	2	3	7	4	3	4	2	-	-	..
DON'T KNOW	28	-	3	-	10	2	3	4	6	1	-	..
NOT REPORTED	14	-	1	3	1	3	-	3	2	-	-	..
MEDIAN.	31	-	7	3	6	4	4	7	-	-	-	..
74	..	..	..	..	85	66	..	50-	..	..	..	..
ONLY ADDED OR INSTALLED STORM DOORS												
LESS THAN \$50	171	3	16	14	24	32	25	37	11	9	-	19400
\$50 TO \$99	6	-	-	-	2	1	2	-	-	-	-	..
\$100 TO \$199	53	-	5	6	8	12	8	11	1	2	-	17900
\$200 TO \$399	54	3	3	3	6	12	8	11	7	2	2	20200
\$400 OR MORE	21	-	2	2	2	5	1	7	-	-	-	..
DON'T KNOW	9	-	2	-	2	1	2	2	-	-	-	..
NOT REPORTED	23	1	2	3	2	2	4	6	2	2	-	..
MEDIAN.	123	..	..	..	..	..	..	..	..	..	-	..
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION												
LESS THAN \$50	404	9	29	17	67	75	68	84	41	11	3	20300
\$50 TO \$99	67	2	5	2	14	11	15	14	2	-	-	19400
\$100 TO \$199	70	2	5	3	8	13	10	18	9	2	-	22000
\$200 TO \$399	67	1	5	-	10	18	10	19	5	-	-	20000
\$400 OR MORE	66	1	1	4	14	10	7	13	13	3	-	22400
DON'T KNOW	66	4	2	3	6	11	15	12	8	2	3	22300
NOT REPORTED	26	-	4	-	9	1	8	1	3	-	-	..
MEDIAN.	43	-	7	5	7	10	4	5	2	3	-	16700
146	..	..	..	..	136	141	133	131	229	..	..	..
ALL OCCUPIED HOUSING UNITS												
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK¹												
OWNER OCCUPIED.												
DRIVES SELF	7 222	107	238	388	1 282	1 308	1 351	1 470	700	265	112	21100
CARPOOL	5 222	67	141	258	944	981	987	1 089	489	198	67	21100
MASS TRANSPORTATION	1 018	14	19	47	171	183	221	230	92	23	14	21600
BICYCLE OR MOTORCYCLE	536	9	37	44	80	75	75	83	79	31	23	21500
TAXICAB	19	-	2	2	2	2	6	4	2	-	-	..
WALKS ONLY	7	-	2	-	3	-	-	-	-	2	-	..
OTHER MEANS	24	1	1	-	1	1	5	3	11	4	2	17300
WORKS AT HOME	153	12	11	15	30	17	14	26	16	7	4	17400
NOT REPORTED	13	-	2	-	7	3	-	-	-	-	-	..
RENTER OCCUPIED												
DRIVES SELF	4 131	120	538	730	1 155	707	427	292	99	49	15	12900
CARPOOL	2 106	38	213	323	625	408	264	157	51	20	6	13800
MASS TRANSPORTATION	485	11	56	83	186	78	53	42	11	3	13	13100
BICYCLE OR MOTORCYCLE	1 023	51	131	220	262	155	90	69	20	18	8	12100
TAXICAB	13	-	6	2	2	1	2	2	-	-	-	..
WALKS ONLY	402	12	117	82	94	45	15	22	10	6	-	..
OTHER MEANS	17	4	-	1	5	6	6	2	-	-	-	9600
WORKS AT HOME	61	2	15	10	16	13	1	-	2	-	-	11000
NOT REPORTED	15	2	-	5	4	-	3	-	-	-	-	..
DISTANCE FROM HOME TO WORK¹												
OWNER OCCUPIED.												
LESS THAN 1 MILE	7 222	107	238	388	1 282	1 308	1 351	1 470	700	265	112	21100
1 TO 4 MILES	516	7	37	62	106	113	84	65	32	9	2	17000
5 TO 9 MILES	1 412	7	76	79	280	272	257	268	104	39	29	19800
10 TO 19 MILES	1 257	14	26	61	240	219	231	272	130	50	13	21500
20 TO 29 MILES	1 587	15	34	84	276	289	308	313	155	56	16	21200
30 TO 49 MILES	673	13	4	23	100	117	154	152	70	30	9	22600
50 MILES OR MORE	440	8	13	10	62	75	86	108	51	16	11	23000
WORKS AT HOME	173	3	1	4	23	27	39	45	24	5	5	..
NO FIXED PLACE OF WORK	153	12	11	15	30	17	14	26	16	7	4	17400
NOT REPORTED	173	6	7	14	40	39	29	22	11	4	2	23000
MEDIAN.	9.3	13.3	4.1	6.7	8.3	8.9	10.2	10.2	11.1	10.6	9.6	..
RENTER OCCUPIED												
LESS THAN 1 MILE	4 131	120	538	730	1 155	707	427	292	99	49	15	12900
1 TO 4 MILES	480	14	119	88	115	66	27	28	13	8	2	10800
5 TO 9 MILES	1 018	35	140	209	316	142	86	51	25	10	3	12000
10 TO 19 MILES	771	21	94	143	233	130	78	45	14	11	3	12800
20 TO 29 MILES	829	18	88	120	238	171	107	62	11	11	2	14000
30 TO 49 MILES	293	5	17	35	89	62	37	33	14	-	2	15000
50 MILES OR MORE	134	2	4	15	32	25	29	21	2	2	2	17700
WORKS AT HOME	16	-	1	5	6	2	3	-	-	-	-	..
NO FIXED PLACE OF WORK	61	2	15	10	16	13	1	-	2	2	3	11000
NOT REPORTED	326	9	49	51	57	67	42	40	7	3	-	14700
MEDIAN.	202	13	12	53	52	29	17	12	10	2	2	12200
6.8	4.8	4.2	5.4	6.8	8.5	9.5	9.6	5.4	6.4	..	..	..

¹LIMITED 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: 1978--CONTINUED

(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	\$6,999 TO \$9,999	\$9,999 TO \$14,999	\$14,999 TO \$19,999	\$19,999 TO \$24,999	\$24,999 TO \$34,999	\$34,999 TO \$49,999	\$49,999 TO \$74,999	\$74,999 TO \$100,000	\$100,000 OR MORE	MEDIAN (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED													
TRAVEL TIME FROM HOME TO WORK ¹													
OWNER OCCUPIED	7 222	107	238	388	1 282	1 308	1 351	1 470	700	265	112	21100	
LESS THAN 15 MINUTES	1 938	16	85	134	364	373	355	349	174	56	31	20000	
15 TO 29 MINUTES	2 084	29	65	109	415	382	406	416	175	72	15	20500	
30 TO 44 MINUTES	1 117	14	23	49	195	226	222	239	91	46	12	21200	
45 TO 59 MINUTES	421	4	15	19	75	74	76	102	41	8	8	21600	
1 HOUR TO 1 HOUR AND 29 MINUTES	404	5	6	19	43	61	88	88	62	19	12	23800	
1 HOUR AND 30 MINUTES OR MORE	172	5	2	4	24	25	29	42	28	6	7	24600	
WORKS AT HOME	153	12	11	15	30	17	14	26	16	7	4	17400	
NO FIXED PLACE OF WORK	879	22	29	36	126	139	149	200	108	49	21	23000	
NOT REPORTED	55	1	2	4	10	11	13	6	5	1	2	20000	
MEDIAN	23.1	25.6	18.0	19.4	22.0	22.7	23.5	24.6	24.5	24.9	26.5	...	
RENTER OCCUPIED	4 131	120	538	730	1 155	707	427	292	99	49	15	12900	
LESS THAN 15 MINUTES	1 140	33	186	200	343	187	94	63	19	13	3	12200	
15 TO 29 MINUTES	1 248	30	169	220	364	198	126	86	39	14	3	12800	
30 TO 44 MINUTES	654	26	68	103	198	106	82	50	13	10	2	13300	
45 TO 59 MINUTES	315	8	21	49	76	70	38	26	17	7	3	15300	
1 HOUR TO 1 HOUR AND 29 MINUTES	277	5	25	59	80	47	31	25	2	-	-	13100	
1 HOUR AND 30 MINUTES OR MORE	58	3	4	20	12	11	7	-	-	-	-	10600	
WORKS AT HOME	61	2	15	10	16	13	1	-	2	2	-	11000	
NO FIXED PLACE OF WORK	326	9	49	51	57	67	42	40	7	3	-	14700	
NOT REPORTED	52	3	3	17	13	7	5	2	-	1	-	10900	
MEDIAN	23.4	24.9	19.4	23.5	22.9	24.2	26.3	25.7	25.0	24.3	...	...

¹LIMITED 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: 1978
(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	MEDIAN (1000 LARS)											
		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 \$69,999	\$75,000 TO \$74,999	\$100,000 TO \$99,999	\$200,000 OR MORE	MEDIAN	
SPECIFIED OWNER OCCUPIED ¹	7 980	146	604	1 080	1 659	1 565	1 103	908	554	314	47	43200	
HOUSE HEATING FUEL													
UTILITY GAS													
BOTTLED, TANK, OR LP GAS	3 300	78	272	472	651	580	468	381	241	145	12	43100	
FUEL OIL	53	4	9	6	16	6	6	2	2	2	-	34500	
KEROSENE, ETC	4 037	45	263	518	871	883	555	450	267	152	32	43600	
ELECTRICITY	37	2	12	11	5	3	1	2	-	-	-	23400	
COAL OR COKE	416	5	15	39	85	83	61	69	41	16	2	47600	
WOOD	84	8	25	23	13	6	5	2	2	-	-	23800	
SOLAR HEAT	52	4	8	11	17	3	7	2	1	-	-	32300	
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	
NONE	1	-	-	-	-	1	-	-	-	-	-	-	
WATER HEATING FUEL													
NO HOT PIPED WATER	19	5	8	2	1	1	1	1	-	-	-	-	
WITH HOT PIPED WATER	7 960	140	597	1 078	1 658	1 563	1 101	907	554	314	47	43200	
FUEL USED:													
UTILITY GAS	3 723	94	333	541	750	663	514	422	243	150	12	42200	
BOTTLED, TANK, OR LP GAS	176	4	32	46	38	30	12	9	2	2	1	31600	
FUEL OIL	2 427	13	94	214	509	575	388	296	197	117	24	46700	
KEROSENE, ETC	8	-	1	2	-	-	2	1	2	-	-	-	
ELECTRICITY	1 598	28	130	263	360	290	186	178	110	46	9	40700	
COAL OR COKE	21	1	4	10	2	3	1	1	1	1	-	-	
WOOD	7	1	3	2	-	1	-	-	-	-	-	-	
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	
NONE	-	-	-	-	-	-	-	-	-	-	-	-	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	
COOKING FUEL													
UTILITY GAS	3 351	101	321	489	670	654	473	334	199	96	12	41400	
BOTTLED, TANK, OR LP GAS	491	12	83	109	105	77	40	36	19	8	4	34000	
FUEL OIL	17	3	1	1	1	2	3	3	3	-	-	-	
KEROSENE, ETC	3	-	-	-	-	3	-	-	-	-	-	-	
ELECTRICITY	4 108	28	196	479	882	829	585	534	333	210	31	45700	
COAL OR COKE	4	1	-	3	-	-	1	-	-	-	-	-	
WOOD	6	2	3	-	1	1	-	-	-	-	-	-	
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	
NONE	-	-	-	-	-	-	-	-	-	-	-	-	
MONTHLY COST PAID FOR ELECTRICITY													
LESS THAN \$10	89	15	23	11	22	7	7	1	3	-	-	-	
\$10 TO \$19	1 078	42	156	257	290	187	115	52	25	1	3	26400	
\$20 TO \$29	2 093	41	206	356	526	409	282	170	67	34	5	33500	
\$30 TO \$39	1 848	29	126	228	411	387	274	200	112	75	7	38400	
\$40 TO \$49	1 082	8	55	121	213	227	149	148	100	54	7	43400	
\$50 TO \$59	723	5	19	47	101	149	120	129	87	51	14	46300	
\$60 TO \$79	596	5	13	46	92	121	98	105	67	45	5	53300	
\$80 TO \$99	226	1	3	8	32	45	30	46	43	18	1	52200	
\$100 TO \$149	192	-	1	4	17	26	22	49	41	26	5	58100	
\$150 OR MORE	48	-	1	1	4	5	4	7	10	11	6	67800	
NO ELECTRICITY USED OR NOT REPORTED	5	1	2	1	-	1	1	-	-	-	-	-	
MEDIAN	34	23	25	27	31	34	35	42	46	48	55	***	
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS													
LESS THAN \$10	697	12	80	90	130	169	88	66	36	22	4	42200	
\$10 TO \$14	451	16	41	68	82	98	68	36	15	3	5	39900	
\$15 TO \$19	324	9	33	73	68	55	44	29	9	-	-	37000	
\$20 TO \$24	295	8	32	54	69	64	28	19	9	10	3	37700	
\$25 TO \$29	323	10	50	69	78	56	32	20	3	3	3	34100	
\$30 TO \$39	797	31	96	123	189	166	79	71	21	17	3	37900	
\$40 TO \$49	729	23	61	116	152	134	120	73	37	10	2	40900	
\$50 TO \$59	1 045	8	36	122	206	183	159	166	101	59	5	48300	
\$60 TO \$79	381	6	31	26	39	61	76	47	68	28	-	53600	
\$100 OR MORE	149	1	10	11	13	17	14	19	25	32	7	66700	
NO GAS USED OR NOT REPORTED	2 789	23	135	308	635	561	393	362	231	125	16	45200	
MEDIAN	36	32	29	31	34	33	41	44	56	58	***	***	
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.													
LESS THAN \$100	156	2	6	17	40	21	23	18	8	2	-	45900	
\$100 TO \$199	89	1	7	14	18	20	12	12	5	2	-	42600	
\$200 TO \$299	221	5	35	48	57	38	18	13	6	2	-	34100	
\$300 TO \$399	477	20	50	96	121	91	40	33	17	8	2	36000	
\$400 TO \$499	563	9	68	107	122	110	66	45	29	7	-	38000	
\$500 TO \$599	642	8	58	88	152	140	80	68	38	9	6	41300	
\$600 TO \$699	617	8	33	74	123	148	101	86	19	26	-	44800	
\$700 TO \$799	535	2	23	47	123	109	98	73	41	15	3	46700	
\$800 OR MORE	1 071	5	40	92	187	226	149	136	125	93	19	49400	
FUELS NOT USED, FREE, OR NOT REPORTED	3 609	86	286	499	717	663	516	426	257	144	16	43200	
MEDIAN	606	423	487	511	575	622	653	662	742	800+	***	***	
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 585	77	314	577	805	661	442	359	220	108	21	40300	
HEAT PUMP	31	2	2	2	6	2	2	4	7	5	-	-	
STEAM OR HOT WATER	3 763	27	216	420	733	808	581	470	292	192	24	46000	
BUILT-IN ELECTRIC UNITS	335	3	10	29	63	71	56	62	29	5	2	48700	
FLOOR, WALL, OR PIPELESS FURNACE	89	7	17	20	16	11	9	6	3	2	-	30200	
ROOM HEATERS WITH FLUE	87	21	28	18	10	5	1	3	2	-	-	17900	
ROOM HEATERS WITHOUT FLUE	3	-	2	-	-	-	-	-	-	-	-	-	
FIREPLACES, STOVES, OR PORTABLE HEATERS	86	8	15	15	26	8	10	5	1	-	-	-	
NONE	1	-	-	-	-	1	-	-	-	-	-	-	

¹LIMITED 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: 1978--CONTINUED
(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	\$10,000	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000	MEDIAN DOL- LARS	
		TO \$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	\$199,999	OR MORE	
SPECIFIED OWNER OCCUPIED¹--CONTINUED													
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT.	1	-	-	-	-	-	-	-	-	-	-	-	
WITH HEATING EQUIPMENT.	7 979	146	604	1 080	1 659	1 564	1 103	908	554	314	47	43200	
NO THERMOSTAT CONTROL.	152	21	49	33	17	12	8	4	3	2	2	21600	
WITH THERMOSTAT CONTROL.	7 808	125	552	1 045	1 636	1 550	1 094	902	547	312	45	43500	
NOT CLOCK OPERATED.	6 780	106	486	948	1 455	1 368	951	758	447	232	29	42900	
CONSTANT TEMPERATURE SETTING MAINTAINED.	2 079	45	186	316	483	427	282	177	111	44	7	40200	
TEMPERATURE SETTING IS CHANGED.	4 672	61	300	631	968	936	663	575	332	184	22	44000	
OCCASIONALLY.	1 184	23	107	180	249	242	145	120	75	38	4	41400	
REGULARLY.	3 458	38	192	447	713	686	517	453	253	143	18	45000	
DON'T KNOW.	22	1	2	2	4	5	2	2	3	3	-	***	
NOT REPORTED.	8	-	-	2	2	3	-	-	1	-	-	***	
CLOCK OPERATED.	29	-	-	2	3	5	6	3	3	3	-	***	
NOT REPORTED.	43	-	2	4	6	14	7	5	-	3	2	46800	
NOT REPORTED.	20	-	3	2	7	1	1	1	4	-	-	***	
SPECIFIED OWNER OCCUPIED¹													
UNITS OCCUPIED LAST WINTER.													
INSUFFICIENT HEAT													
CLOSURE OF ROOMS:													
WITH HEATING EQUIPMENT.	7 505	144	571	1 016	1 579	1 469	1 036	837	518	290	45	43000	
NO ROOMS CLOSED.	7 202	127	526	957	1 523	1 424	1 007	819	503	278	39	43300	
CLOSED CERTAIN ROOMS.	248	17	40	52	44	38	23	13	9	8	4	33200	
LIVING ROOM ONLY.	5	-	-	1	-	4	-	-	-	-	-	***	
DINING ROOM ONLY.	2	-	-	1	-	1	-	-	-	-	-	***	
1 OR MORE BEDROOMS ONLY.	159	13	30	37	28	22	13	9	4	2	-	29700	
OTHER ROOMS OR COMBINATION OF ROOMS.	77	4	10	14	14	9	10	3	5	5	4	38000	
NOT REPORTED.	6	-	-	1	2	2	-	-	-	-	-	***	
NOT REPORTED.	54	1	5	7	12	8	5	6	3	2	-	43300	
NO HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	-	-	-	-	
ADDITIONAL HEAT SOURCE:													
WITH SPECIFIED HEATING EQUIPMENT ² .	7 424	136	555	1 003	1 557	1 462	1 026	833	517	290	45	43200	
NO ADDITIONAL HEAT SOURCE USED.	6 902	118	506	930	1 440	1 373	973	772	481	268	41	43300	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	475	18	44	69	105	83	48	55	31	20	2	40200	
NOT REPORTED.	47	-	5	4	12	6	5	6	6	2	2	44700	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	81	8	16	13	22	7	10	4	1	-	-	31400	
ROOMS LACKING SPECIFIED HEAT SOURCE:													
WITH SPECIFIED HEATING EQUIPMENT ² .	7 424	136	555	1 003	1 557	1 462	1 026	833	517	290	45	43200	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	6 439	86	398	786	1 357	1 324	922	771	489	268	39	44500	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	920	50	151	210	186	132	96	53	21	18	4	32600	
1 ROOM.	407	10	61	73	88	69	61	29	9	8	-	36800	
2 ROOMS.	225	17	34	54	45	33	20	11	7	4	-	31700	
3 ROOMS OR MORE.	288	22	56	83	54	30	15	13	4	7	3	27800	
NOT REPORTED.	64	-	6	7	14	7	8	9	8	4	2	37500	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	61	8	16	13	22	7	10	4	1	-	-	31400	
SPECIFIED OWNER OCCUPIED¹													
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	87	8	15	15	26	8	10	5	-1	-	-	32400	
WITH SELECTED HEATING EQUIPMENT.	7 893	138	590	1 065	1 633	1 557	1 093	903	553	314	47	43300	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	7 906	134	563	1 004	1 517	1 461	1 029	833	521	296	47	43300	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	440	4	23	57	101	88	56	65	29	16	-	43900	
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	-	-	-	-	
STOVE, BURNING WOOD OR COAL.	250	2	11	34	63	65	24	24	19	8	-	42300	
FIREPLACE, BURNING WOOD OR COAL.	54	-	1	4	14	7	12	9	6	1	-	51100	
PORTABLE ELECTRIC HEATER.	69	1	8	11	12	10	7	18	-	2	-	42600	
ROOM HEATER WITHOUT FLUE OR VENT.	11	2	-	3	-	3	-	3	-	-	-	-	
BURNING GAS, OIL, OR KEROSENE.	52	-	4	4	10	3	13	12	2	3	-	53400	
OTHER.	4	-	-	-	2	-	-	-	1	2	-	***	
NOT REPORTED.	47	-	3	4	15	7	8	5	3	2	-	42200	
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	177	29	45	32	36	13	12	7	3	-	-	24500	
WITH SELECTED HEATING EQUIPMENT ² .	7 803	117	559	1 048	1 623	1 552	1 090	900	552	314	47	43600	
LESS THAN 4 YEARS.	910	11	52	96	178	188	132	113	82	55	3	46300	
4 TO 9 YEARS.	1 459	28	123	210	274	270	180	193	125	49	7	43500	
10 TO 19 YEARS.	2 484	36	184	336	480	479	375	294	195	97	7	44300	
20 TO 39 YEARS.	2 223	21	111	288	552	473	330	227	129	73	19	43000	
40 YEARS OR MORE.	235	5	19	34	38	62	27	22	4	21	3	43400	
DON'T KNOW.	400	9	61	71	79	73	39	44	11	12	2	37500	
NOT REPORTED.	93	7	9	12	24	7	8	7	6	7	5	37500	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	177	29	45	32	36	13	12	7	3	-	-	24500	
WITH SELECTED HEATING EQUIPMENT ² .	7 803	117	559	1 048	1 623	1 552	1 090	900	552	314	47	43600	
NO MAINTENANCE OR MODIFICATION.	5 078	84	701	1 042	1 043	715	589	341	195	21	21	43500	
WITH MAINTENANCE OR MODIFICATION.	2 636	27	204	335	563	502	362	305	203	112	23	43800	
NOT REPORTED.	88	5	8	12	18	7	14	6	8	7	5	41800	

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.

* EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

** 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: 1978--CONTINUED
(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 (DOL- LARS)	
		\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	\$199,999		
SPECIFIED OWNER OCCUPIED¹--CONTINUED													
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	177	29	45	32	36	13	12	7	3	-	-	24500	
WITH SELECTED HEATING EQUIPMENT ² .	7 803	117	559	1 048	1 623	1 552	1 090	900	552	314	47	43600	
NO MAINTENANCE CONTRACT.	5 365	102	442	796	1 156	1 013	710	584	349	188	25	41800	
WITH MAINTENANCE CONTRACT.	2 328	10	109	229	446	524	363	311	196	120	19	47100	
NOT REPORTED.	110	5	9	23	21	14	17	5	7	5	3	38400	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER.	19	5	8	2	1	2	1	1	-	-	-	---	
WITH HOT PIPED WATER.	7 980	140	597	1 078	1 658	1 563	1 101	907	554	314	47	43200	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	7 797	137	582	1 062	1 627	1 531	1 082	882	543	306	44	43200	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ³ .	33	-	2	6	7	3	4	7	2	-	-	45100	
NOT REPORTED.	131	3	12	10	25	29	15	18	9	7	3	45100	
AIR CONDITIONING													
WITH AIR CONDITIONING .	3 793	35	193	356	751	748	608	509	346	218	30	47500	
ROOM UNITS.	3 101	33	182	338	666	646	505	400	204	114	13	45100	
1.	1 595	22	118	213	398	341	228	152	71	46	5	41300	
2.	959	9	50	92	197	196	168	143	73	28	3	46700	
3.	342	-	12	26	56	77	71	59	22	19	2	50200	
4.	144	-	2	5	14	30	28	30	22	14	1	57800	
5 OR MORE.	60	2	-	2	2	2	11	16	17	8	2	71600	
CENTRAL SYSTEM.	692	2	11	18	85	102	103	109	142	104	18	63600	
WITH NO AIR CONDITIONING.	4 187	111	412	724	908	817	495	398	208	96	17	39300	
SPECIFIED OWNER OCCUPIED ¹ .	7 980	146	604	1 080	1 659	1 565	1 103	908	554	314	47	43200	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS.	7 980	146	604	1 080	1 659	1 565	1 103	908	554	314	47	43200	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED.	6 506	83	404	834	1 368	1 345	961	766	473	242	30	44200	
SOME WINDOWS COVERED.	1 076	33	186	186	214	167	101	111	61	50	8	38100	
NO WINDOWS COVERED.	366	30	49	57	66	48	38	31	17	22	8	37100	
NOT REPORTED.	33	-	6	3	11	5	3	-	3	-	2	---	
STORM DOORS													
ALL DOORS COVERED.	6 494	95	431	886	1 420	1 349	948	719	407	214	25	43100	
SOME DOORS COVERED.	990	28	109	149	148	150	116	132	91	57	9	44100	
NO DOORS COVERED.	468	23	59	42	80	62	38	56	53	43	11	44800	
NOT REPORTED.	28	-	5	3	11	3	1	-	3	3	2	---	
ATTIC OR ROOF INSULATION													
YES.	6 498	50	329	753	1 347	1 351	992	836	512	289	40	45700	
NO.	1 148	83	236	272	233	161	69	49	29	13	3	29300	
DON'T KNOW.	294	13	35	49	66	48	37	22	9	11	4	37600	
NOT REPORTED.	40	-	5	5	13	5	5	1	4	2	-	37600	
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:													
NO WINDOWS COVERED.	366	30	49	57	66	48	38	31	17	22	8	37100	
SOME OR ALL WINDOWS COVERED.	7 582	116	550	1 020	1 582	1 512	1 062	877	534	292	38	43500	
NONE ADDED OR INSTALLED.	6 730	93	464	898	1 421	1 339	939	790	489	266	32	43700	
SOME OR ALL ADDED OR INSTALLED.	789	23	84	113	150	158	115	76	40	24	6	41500	
NOT REPORTED.	63	-	2	9	11	15	8	11	5	2	-	46200	
NOT REPORTED.	33	-	6	3	11	5	3	-	3	-	2	---	
STORM DOORS:													
NO DOORS COVERED.	468	23	59	42	80	62	38	56	53	43	11	44800	
SOME OR ALL DOORS COVERED.	7 484	123	540	1 035	1 568	1 499	1 064	851	498	271	35	43200	
NONE ADDED OR INSTALLED.	6 817	114	478	951	1 434	1 370	962	777	447	251	31	43100	
SOME OR ALL ADDED OR INSTALLED.	532	8	51	66	110	108	79	60	35	12	3	42900	
NOT REPORTED.	135	1	11	18	23	21	23	14	16	7	1	46700	
NOT REPORTED.	28	-	5	3	11	3	1	-	3	2	-	---	
ATTIC OR ROOF INSULATION:													
NO ATTIC OR ROOF INSULATION.	1 148	83	236	272	233	161	69	49	29	13	3	29300	
WITH ATTIC OR ROOF INSULATION.	6 498	50	329	753	1 347	1 351	992	836	512	289	40	45700	
NONE ADDED OR INSTALLED.	5 708	40	276	673	1 188	1 190	870	736	442	256	37	45700	
SOME OR ALL ADDED OR INSTALLED.	675	7	46	72	143	144	100	83	49	29	2	44800	
LESS THAN 3 INCHES ADDED.	37	2	1	3	12	6	6	3	2	3	-	42000	
3 TO 6 INCHES ADDED.	312	-	24	31	54	84	40	47	17	14	2	45700	
6 INCHES OR MORE ADDED.	245	3	16	33	62	40	37	27	17	9	-	41900	
DON'T KNOW.	56	2	5	3	10	6	10	5	11	3	-	51300	
NOT REPORTED.	26	-	-	2	6	8	7	1	2	1	-	---	
NOT REPORTED.	115	2	7	7	15	17	23	17	21	21	1	53500	
DON'T KNOW.	294	13	35	49	66	48	37	22	9	11	4	37600	
NOT REPORTED.	40	-	5	5	13	5	5	1	4	2	-	37600	
WALL INSULATION:													
NONE ADDED OR INSTALLED.	7 338	142	544	978	1 507	1 439	1 031	840	523	292	44	43500	
SOME OR ALL ADDED OR INSTALLED.	599	4	55	96	139	115	69	66	29	22	2	40400	
NOT REPORTED.	44	-	5	6	14	11	3	1	3	-	2	37900	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:													
NONE ADDED OR INSTALLED.	5 691	109	425	772	1 169	1 072	785	647	433	246	32	43400	
SOME OR ALL ADDED OR INSTALLED.	2 190	36	169	295	459	477	307	248	119	67	13	42900	
DON'T KNOW.	70	2	3	9	20	12	8	13	-	2	2	41100	
NOT REPORTED.	30	-	6	4	11	3	3	-	3	-	-	---	
OTHER INSULATION:													
NONE ADDED OR INSTALLED.	7 514	138	566	1 015	1 568	1 467	1 039	862	524	294	42	43200	
SOME OR ALL ADDED OR INSTALLED.	419	8	33	56	79	90	58	45	28	19	3	43700	
NOT REPORTED.	47	-	6	9	12	8	6	1	3	1	2	37500	

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

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

³LIMITED 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: 1978--CONTINUED
(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	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000	MEDIAN (DOL- LARS)	
		\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	\$199,999	OR MORE	
SPECIFIED OWNER OCCUPIED¹--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.													
WITH INSULATION ADDED OR INSTALLED.	4 623	94	345	647	952	859	621	517	344	217	29	43200	
LESS THAN \$50	3 100	49	241	402	651	668	440	363	179	90	15	43100	
\$50 TO \$99.	1 283	27	97	170	264	295	167	162	65	30	5	42800	
\$100 TO \$199.	316	2	23	58	63	64	52	22	22	11	-	42000	
\$200 TO \$399.	336	6	21	41	82	76	47	36	14	11	2	42400	
\$400 OR MORE.	476	4	52	64	96	91	66	47	20	12	-	45300	
DON'T KNOW.	158	2	9	16	41	25	31	17	33	18	6	42500	
NOT REPORTED.	214	5	19	21	41	43	36	29	17	11	3	43700	
MEDIAN.	63	50-	69	61	66	54	69	50-	14	5	1	44800	
NOT REPORTED OR DON'T KNOW.	257	3	18	31	56	38	42	28	77	103	...	...
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
LESS THAN \$50	224	5	27	31	38	42	39	26	8	7	-	42500	
\$50 TO \$99.	74	3	9	7	12	17	11	12	-	2	-	43100	
\$100 TO \$199.	24	1	3	8	3	3	-	1	4	1	2	-	
\$200 TO \$399.	30	-	4	2	5	4	11	2	1	2	-	-	
\$400 OR MORE.	25	-	3	4	5	9	1	3	-	-	-	-	
DON'T KNOW.	28	-	5	5	4	4	4	3	3	1	-	-	
NOT REPORTED.	12	-	-	2	3	1	5	1	-	-	-	-	
MEDIAN.	30	2	3	3	5	3	8	5	1	-	-	-	
84	...	...	...	...	...	72	...	...	...	...	-	-
ONLY ADDED OR INSTALLED STORM DOORS													
LESS THAN \$50	157	3	7	20	35	32	25	22	13	-	-	44400	
\$50 TO \$99.	3	-	-	2	-	1	-	1	-	-	-	-	
\$100 TO \$199.	46	1	1	13	11	9	8	3	1	-	-	-	
\$200 TO \$399.	51	2	1	3	19	11	2	7	7	-	-	38200	
\$400 OR MORE.	20	-	-	2	3	3	6	2	3	-	-	40700	
DON'T KNOW.	9	-	2	-	-	2	2	2	2	-	-	-	
NOT REPORTED.	6	-	2	-	-	2	2	2	-	-	-	-	
MEDIAN.	21	-	2	-	2	3	4	8	2	-	-	-	
130	...	...	...	...	...	...	...	...	...	-	-	-
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION													
LESS THAN \$50	373	2	24	43	87	79	48	45	30	14	-	43700	
\$50 TO \$99.	58	1	5	6	11	16	10	9	-	-	-	43600	
\$100 TO \$199.	65	-	3	11	15	12	9	5	9	1	-	42800	
\$200 TO \$399.	60	-	1	6	19	14	8	7	1	3	-	42900	
\$400 OR MORE.	63	-	3	4	11	12	7	15	7	3	-	50800	
DON'T KNOW.	63	-	6	9	19	8	5	7	8	1	-	38400	
NOT REPORTED.	24	-	1	6	6	5	2	1	2	2	-	-	
MEDIAN.	40	2	3	2	7	12	7	-	3	4	-	45400	
152	...	...	123	160	121	110	210	...	...	-	-	-

¹LIMITED 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: 1978
(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 ¹	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	6 744	555	994	1 446	1 533	992	486	224	200	94	220	209
HOUSE HEATING FUEL												
UTILITY GAS	2 286	220	380	531	516	295	143	77	54	13	57	198
BOTTLED, TANK, OR LP GAS	38	2	11	9	6	1	-	4	-	5	5	...
FUEL OIL	3 869	262	551	823	902	605	297	109	120	62	138	213
KEROSENE, ETC	37	7	7	8	7	4	-	-	-	-	4	...
ELECTRICITY	444	52	27	66	93	83	46	32	26	14	4	239
COAL OR COKE	36	5	9	7	5	2	-	-	-	-	8	...
WOOD	18	5	3	3	2	2	-	-	-	-	3	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	12	-	3	-	2	-	-	2	-	5	-	...
NONE	5	2	2	-	-	-	-	-	1	-	1	...
WATER HEATING FUEL												
NO HOT PIPED WATER	25	15	4	4	-	-	-	-	-	-	2	...
WITH HOT PIPED WATER	6 718	540	990	1 442	1 533	992	486	224	200	94	217	209
FUEL USED ¹												
UTILITY GAS	2 728	225	448	642	620	394	176	81	53	11	76	201
BOTTLED, TANK, OR LP GAS	83	9	22	18	11	5	1	2	5	-	11	163
FUEL OIL	3 061	227	421	638	721	466	235	108	105	61	78	214
KEROSENE, ETC	5	1	-	3	-	-	-	-	-	-	1	...
ELECTRICITY	802	76	89	135	176	121	70	33	37	16	51	221
COAL OR COKE	18	-	6	6	-	5	-	-	-	-	2	...
WOOD	1	-	1	-	-	-	-	-	-	-	-	...
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	18	2	2	-	2	2	4	-	-	-	7	...
NONE	2	-	-	-	-	-	-	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	4 757	365	759	1 062	1 111	705	326	153	115	56	106	206
BOTTLED, TANK, OR LP GAS	240	19	41	57	44	15	15	5	11	3	29	188
FUEL OIL	13	3	2	2	3	2	-	-	-	-	1	...
KEROSENE, ETC	2	-	2	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 651	136	167	309	370	269	146	64	74	36	81	223
COAL OR COKE	2	1	-	-	-	-	-	-	-	-	1	...
WOOD	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	10	2	4	2	1	-	-	-	-	-	2	...
NONE	69	29	18	15	4	1	-	2	-	-	1	114
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN \$10	450	64	95	137	107	26	14	2	2	-	4	173
\$10 TO \$19	1 962	81	317	501	539	286	110	41	42	12	33	206
\$20 TO \$29	1 476	18	159	311	416	299	138	66	37	18	34	227
\$30 TO \$39	708	7	59	110	170	151	98	37	40	15	21	248
\$40 TO \$49	215	4	9	18	46	50	38	17	17	6	10	275
\$50 TO \$59	159	1	1	20	30	30	20	19	19	13	5	290
\$60 TO \$79	66	-	2	5	9	11	10	8	12	5	4	322
\$80 TO \$99	20	-	2	2	-	4	4	2	4	2	1	...
\$100 TO \$149	12	-	-	-	2	1	1	1	1	5	3	...
\$150 OR MORE	16	-	-	-	-	-	2	2	2	7	-	-
INCLUDED IN RENT	1 636	368	346	340	211	133	52	47	21	12	107	157
NO ELECTRICITY USED OR NOT REPORTED	24	11	6	3	1	1	-	-	-	2	2	...
MEDIAN	21	13	16	17	20	24	26	30	32	37	25	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN \$10	1 506	77	213	398	399	215	119	31	32	5	21	207
\$10 TO \$14	563	12	80	117	169	104	37	10	15	8	13	219
\$15 TO \$19	347	6	65	78	101	49	19	8	9	6	6	210
\$20 TO \$24	233	2	41	56	48	33	18	9	11	2	14	211
\$25 TO \$29	158	6	42	33	30	26	9	3	5	1	4	193
\$30 TO \$39	273	12	58	59	59	36	23	11	7	2	6	204
\$40 TO \$49	168	3	19	59	52	19	12	5	9	3	6	209
\$50 TO \$69	178	-	15	46	42	31	12	12	12	3	5	230
\$70 TO \$99	77	-	2	16	24	17	9	3	2	7	4	236
\$100 OR MORE	23	-	-	5	7	3	2	2	3	3	-	...
INCLUDED IN RENT	2 185	344	347	411	386	297	126	94	56	35	88	193
NO GAS USED OR NOT REPORTED	1 014	93	113	178	217	158	97	36	43	27	53	222
MEDIAN	12	10-	13	11	12	12	11	18	17	19	19	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN \$100	30	8	4	6	6	-	2	2	1	-	3	...
\$100 TO \$199	39	3	15	8	4	2	-	-	2	6	6	...
\$200 TO \$299	63	6	21	9	14	2	3	1	-	5	161	
\$300 TO \$399	114	2	25	20	25	18	9	-	5	-	11	211
\$400 TO \$499	118	4	11	33	21	9	11	6	12	2	10	215
\$500 TO \$599	90	-	4	21	27	15	5	3	5	4	7	230
\$600 TO \$699	89	-	1	15	23	18	13	-	11	2	7	237
\$700 TO \$799	68	-	3	5	17	13	11	2	7	4	7	277
\$800 OR MORE	108	-	2	18	24	17	10	14	9	15	308	
INCLUDED IN RENT	3 507	302	502	762	820	543	277	113	81	43	65	209
FUELS NOT USED, FREE, OR NOT REPORTED	2 517	230	409	566	559	348	139	88	63	27	89	201
MEDIAN	495	---	309	451	526	624	646	---	632	---	488	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 460	83	185	310	348	219	111	45	56	20	83	216
HEAT PUMP	18	-	7	3	5	2	-	-	-	-	-	...
STEAM OR HOT WATER	4 419	383	612	935	1 037	687	327	147	117	62	111	211
BUILT-IN ELECTRIC UNITS	371	50	26	53	77	67	36	24	24	12	3	236
FLOOR, WALL, OR PIPELESS FURNACE	37	1	5	12	5	3	4	2	3	-	1	198
ROOM HEATERS WITH FLUE	335	28	121	107	53	7	6	3	-	-	11	156
ROOM HEATERS WITHOUT FLUE	28	-	13	7	3	2	-	-	-	-	11	156
FIREPLACES, STOVES, OR PORTABLE HEATERS	71	8	30	15	7	2	-	-	-	-	9	157
NONE	5	2	2	-	-	-	-	-	-	-	1	...

¹EXCLUDES 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: 1978--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 \$149	\$100 TO \$149	\$150 TO \$199	\$200 TO \$249	\$250 TO \$299	\$300 TO \$349	\$350 TO \$399	\$400 TO \$499	\$500 OR MORE \$499	NO CASH RENT	MEDIAN (DOL- LARS)
SPECIFIED RENTER OCCUPIED¹--CONTINUED												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT.	5	2	2	-	-	-	-	-	-	-	-	1
WITH HEATING EQUIPMENT.	6 739	552	992	1 446	1 533	992	486	224	200	94	219	209
NO THERMOSTAT CONTROL	3 576	373	665	840	766	446	213	105	68	35	65	192
WITH THERMOSTAT CONTROL	3 141	178	325	596	761	545	273	117	132	59	154	225
NOT CLOCK OPERATED	2 736	147	293	515	672	472	238	105	118	43	132	225
CONSTANT TEMPERATURE SETTING MAINTAINED	883	57	128	181	199	126	78	20	39	2	53	212
TEMPERATURE SETTING IS CHANGED	1 825	89	160	330	468	339	158	85	76	42	79	231
OCCASIONALLY	617	50	66	131	156	89	63	26	27	13	16	223
REGULARLY	1 184	55	93	196	309	241	94	58	49	29	62	234
DON'T KNOW	23	4	2	4	2	9	2	-	-	-	1	---
NOT REPORTED	1	-	-	-	1	-	-	-	-	-	-	---
NOT REPORTED	27	2	4	4	5	7	2	-	3	-	-	---
CLOCK OPERATED	385	31	32	75	83	68	35	13	12	16	21	226
NOT REPORTED	20	-	-	6	7	5	-	-	2	-	1	---
NOT REPORTED	22	2	2	10	5	2	-	2	-	-	-	---
SPECIFIED RENTER OCCUPIED¹	6 744	555	994	1 446	1 533	992	486	224	200	94	220	209
UNITS OCCUPIED LAST WINTER	5 125	492	813	1 078	1 096	733	348	172	135	63	194	204
INSUFFICIENT HEAT												
CLOSURE OF ROOMS:												
WITH HEATING EQUIPMENT	5 120	489	811	1 078	1 096	733	348	172	135	63	193	204
NO ROOMS CLOSED	4 759	473	743	995	1 006	684	327	161	124	61	184	204
CLOSED CERTAIN ROOMS	302	12	59	67	76	39	20	10	8	2	7	205
LIVING ROOM ONLY	19	2	7	7	4	-	-	-	-	-	-	---
DINING ROOM ONLY	4	-	-	2	2	-	-	-	-	-	-	---
1 OR MORE BEDROOMS ONLY	192	11	28	48	47	27	12	6	7	2	5	208
OTHER ROOMS OR COMBINATION OF ROOMS	84	-	23	11	24	10	8	4	1	-	3	213
NOT REPORTED	3	-	2	-	2	-	-	-	-	-	-	---
NOT REPORTED	59	4	8	16	14	9	2	2	3	-	2	203
NO HEATING EQUIPMENT	5	2	2	-	-	-	-	-	-	-	1	---
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ²	5 050	483	777	1 065	1 092	729	348	172	135	63	185	205
NO ADDITIONAL HEAT SOURCE USED	4 145	388	626	874	879	607	293	146	117	58	157	206
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	852	90	144	178	202	111	53	25	15	5	27	199
NOT REPORTED	53	4	6	12	11	11	2	2	3	-	2	213
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	75	9	36	14	4	3	-	-	-	-	9	133
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ²	5 050	483	777	1 065	1 092	729	348	172	135	63	185	205
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 334	436	615	878	932	668	329	142	121	58	155	208
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	631	41	150	167	140	50	16	24	9	5	28	182
1 ROOM	263	23	49	58	71	29	8	9	5	3	8	197
2 ROOMS	159	7	37	50	28	8	7	12	-	-	10	180
3 ROOMS OR MORE	209	12	64	59	40	13	2	3	4	2	10	169
NOT REPORTED	85	6	11	19	21	11	3	7	5	-	2	212
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	75	9	36	14	4	3	-	-	-	-	9	133
SPECIFIED RENTER OCCUPIED¹	6 744	555	994	1 446	1 533	992	486	224	200	94	220	209
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	76	10	32	15	7	2	-	-	-	-	10	135
WITH SELECTED HEATING EQUIPMENT ³	6 668	544	962	1 431	1 526	990	486	224	200	94	210	209
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 312	517	907	1 341	1 434	947	470	215	195	92	196	210
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	316	23	48	78	85	40	13	7	5	2	14	201
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	19	-	2	6	3	-	3	1	2	-	3	---
FIREPLACE, BURNING WOOD OR COAL	-	-	-	-	-	-	-	-	-	-	-	---
PORTABLE ELECTRIC HEATER	251	17	45	65	68	34	9	5	2	2	4	198
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	9	2	-	5	1	2	-	-	-	-	-	---
OTHER	34	4	2	4	9	4	2	2	2	-	7	---
NOT REPORTED	5	-	-	-	5	-	-	-	-	-	-	---
NOT REPORTED	40	5	7	12	7	3	3	2	-	-	1	180
AIR CONDITIONING												
WITH AIR CONDITIONING	2 401	95	208	319	575	512	276	142	132	74	66	246
ROOM UNITS	2 071	92	205	303	520	425	231	108	83	42	62	238
1	1 418	84	171	234	400	280	120	46	35	12	38	225
2	554	8	31	62	110	132	93	54	29	17	27	271
3	87	-	3	7	8	13	15	9	17	10	4	331
4	7	-	-	-	-	-	3	-	-	3	1	---
5 OR MORE	5	-	-	-	2	-	-	-	-	2	2	---
CENTRAL SYSTEM	331	3	3	16	55	87	45	34	50	33	4	298
WITH NO AIR CONDITIONING	4 342	460	785	1 127	958	480	210	82	67	20	154	187

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: 1978--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 \$199	\$150 TO \$249	\$200 TO \$299	\$250 TO \$349	\$300 TO \$399	\$350 TO \$499	\$400 TO \$499	\$500 OR MORE	NO CASH RENT	MEDIAN (DOL- LARS)
SPECIFIED RENTER OCCUPIED ¹	6 744	555	994	1 446	1 533	992	486	224	200	94	220	209
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	966	52	146	170	148	101	90	42	75	33	110	220
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	521	27	76	81	71	51	52	17	53	25	69	229
SOME WINDOWS COVERED	219	11	26	39	37	20	25	18	11	8	25	228
NO WINDOWS COVERED	179	11	38	42	33	21	8	4	8	-	15	189
NOT REPORTED	46	4	5	8	7	9	4	4	4	-	2	235
STORM DOORS												
ALL DOORS COVERED	550	31	82	81	78	50	61	23	50	23	74	229
SOME DOORS COVERED	148	8	24	28	22	13	11	10	7	7	18	210
NO DOORS COVERED	216	10	34	52	38	28	14	6	14	3	15	205
NOT REPORTED	49	4	5	8	9	10	4	4	4	-	2	235
ATTIC OR ROOF INSULATION												
YES	450	15	52	60	63	51	52	18	39	24	75	247
NO	250	14	54	56	41	22	21	8	8	-	24	189
DON'T KNOW	218	19	34	45	37	18	14	10	24	9	8	209
NOT REPORTED	48	4	5	8	7	9	4	5	4	-	2	240

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

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978
(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						MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE		
ALL OCCUPIED HOUSING UNITS.	16 952	9 486	3 536	949	655	1 992		333
HOUSE HEATING FUEL								
OWNER OCCUPIED.	10 155	8 526	1 074	79	41	160		274
UTILITY GAS.	4 008	3 430	475	26	7	19		51
BOTTLED, TANK, OR LP GAS.	80	61	3	-	-	-		16
FUEL OIL.	5 218	4 332	544	42	32	125		143
KEROSENE, ETC.	94	39	2	-	-	-		54
ELECTRICITY.	552	473	44	11	2	15		7
COAL OR COKE.	110	105	4	1	-	-		-
WOOD.	88	84	2	-	-	-		2
SOLAR HEAT.	-	-	-	-	-	-		-
OTHER FUEL.	2	-	-	-	-	2		-
NONE.	3	3	-	-	-	-		-
RENTER OCCUPIED	6 797	960	2 462	870	614	1 831		59
UTILITY GAS	2 293	403	1 069	299	198	315		10
BOTTLED, TANK, OR LP GAS.	38	17	14	2	2	2		2
FUEL OIL.	3 902	453	1 251	473	334	1 357		33
KEROSENE, ETC.	39	14	12	2	-	2		10
ELECTRICITY.	447	37	98	89	78	142		2
COAL OR COKE.	38	21	9	2	2	5		-
WOOD.	24	16	6	2	-	-		1
SOLAR HEAT.	-	-	-	-	-	-		-
OTHER FUEL.	12	-	2	2	-	8		-
NONE.	5	-	2	1	2	-		1
WATER HEATING FUEL								
OWNER OCCUPIED.	10 155	8 526	1 074	79	41	160		274
NO HOT PIPED WATER.	34	33	-	-	-	-		1
WITH HOT PIPED WATER.	10 121	8 493	1 074	79	41	160		273
FUEL USED:								
UTILITY GAS	4 501	3 826	596	30	11	10		28
BOTTLED, TANK, OR LP GAS.	255	225	13	-	-	-		17
FUEL OIL.	3 145	2 570	369	35	24	132		15
KEROSENE, ETC.	12	9	.1	-	-	-		2
ELECTRICITY.	2 160	1 821	94	14	6	15		210
COAL OR COKE.	29	28	-	-	-	-		1
WOOD.	13	12	1	-	-	-		-
SOLAR HEAT.	-	-	-	-	-	-		-
OTHER FUEL.	5	1	-	-	-	4		1
NONE.	-	-	-	-	-	-		-
NOT REPORTED.	-	-	-	-	-	-		-
RENTER OCCUPIED	6 797	960	2 462	870	614	1 831		59
NO HOT PIPED WATER.	28	9	4	2	9	3		1
WITH HOT PIPED WATER.	6 769	951	2 458	868	606	1 828		59
FUEL USED:								
UTILITY GAS	2 733	442	1 332	356	207	394		2
BOTTLED, TANK, OR LP GAS.	90	50	23	4	-	8		5
FUEL OIL.	3 073	221	895	412	287	1 254		3
KEROSENE, ETC.	6	2	3	-	-	-		1
ELECTRICITY.	827	227	201	95	103	153		48
COAL OR COKE.	18	5	2	-	8	4		-
WOOD.	2	2	1	-	-	-		-
SOLAR HEAT.	-	-	-	-	-	-		-
OTHER FUEL.	18	1	1	-	-	17		-
NONE.	2	1	2	-	-	-		-
NOT REPORTED.	-	-	-	-	-	-		-
COOKING FUEL								
OWNER OCCUPIED.	10 155	8 526	1 074	79	41	160		274
UTILITY GAS	4 424	3 435	748	47	19	131		44
BOTTLED, TANK, OR LP GAS.	780	586	26	-	-	-		168
FUEL OIL.	24	18	5	-	-	-		-
KEROSENE, ETC.	4	4	-	-	-	-		-
ELECTRICITY.	4 888	4 450	295	33	21	30		60
COAL OR COKE.	7	7	-	-	-	-		-
WOOD.	26	24	-	-	-	-		2
OTHER FUEL.	2	1	-	-	-	-		1
NONE.	-	-	-	-	-	-		-
RENTER OCCUPIED	6 797	960	2 462	870	614	1 831		59
UTILITY GAS	4 761	459	1 825	621	360	1 487		8
BOTTLED, TANK, OR LP GAS.	258	111	77	20	5	2		43
FUEL OIL.	13	1	5	3	-	4		-
KEROSENE, ETC.	2	2	1	-	-	-		-
ELECTRICITY.	1 680	382	542	220	231	298		8
COAL OR COKE.	2	2	-	-	-	-		-
WOOD.	2	2	-	-	-	-		-
OTHER FUEL.	10	-	3	-	2	5		-
NONE.	69	2	9	6	17	36		-

TABLE 8-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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	7 980	7 980	NA	NA	NA	NA	NA	
LESS THAN \$10	89	89	NA	NA	NA	NA	NA	
\$10 TO \$19	1 078	1 078	NA	NA	NA	NA	NA	
\$20 TO \$29	2 093	2 093	NA	NA	NA	NA	NA	
\$30 TO \$39	1 848	1 848	NA	NA	NA	NA	NA	
\$40 TO \$49	1 082	1 082	NA	NA	NA	NA	NA	
\$50 TO \$59	723	723	NA	NA	NA	NA	NA	
\$60 TO \$79	596	596	NA	NA	NA	NA	NA	
\$80 TO \$99	226	226	NA	NA	NA	NA	NA	
\$100 TO \$149	192	192	NA	NA	NA	NA	NA	
\$150 OR MORE	48	48	NA	NA	NA	NA	NA	
NO ELECTRICITY USED OR NOT REPORTED	5	5	NA	NA	NA	NA	NA	
MEDIAN	34	34	NA	NA	NA	NA	NA	
SPECIFIED RENTER OCCUPIED ²	6 744	906	2 462	870	614	1 831	59	
LESS THAN \$10	450	31	206	65	49	97	3	
\$10 TO \$19	1 962	203	853	225	197	470	13	
\$20 TO \$29	1 476	230	555	186	109	380	16	
\$30 TO \$39	708	153	253	74	63	150	15	
\$40 TO \$49	215	55	84	21	18	34	3	
\$50 TO \$59	159	55	54	16	4	29	1	
\$60 TO \$79	66	30	16	6	6	6	2	
\$80 TO \$99	20	10	4	2	2	2	-	
\$100 TO \$149	12	8	2	-	1	2	-	
\$150 OR MORE	16	2	10	2	2	-	-	
INCLUDED IN RENT	1 636	125	419	271	162	653	6	
NO ELECTRICITY USED OR NOT REPORTED	24	3	6	4	2	9	1	
MEDIAN	21	26	19	20	18	20	26	
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS								
SPECIFIED OWNER OCCUPIED ¹	7 980	7 980	NA	NA	NA	NA	NA	
LESS THAN \$10	697	697	NA	NA	NA	NA	NA	
\$10 TO \$14	451	451	NA	NA	NA	NA	NA	
\$15 TO \$19	324	324	NA	NA	NA	NA	NA	
\$20 TO \$24	295	295	NA	NA	NA	NA	NA	
\$25 TO \$29	323	323	NA	NA	NA	NA	NA	
\$30 TO \$39	797	797	NA	NA	NA	NA	NA	
\$40 TO \$49	729	729	NA	NA	NA	NA	NA	
\$50 TO \$69	1 045	1 045	NA	NA	NA	NA	NA	
\$70 TO \$99	381	381	NA	NA	NA	NA	NA	
\$100 OR MORE	149	149	NA	NA	NA	NA	NA	
NO GAS USED OR NOT REPORTED	2 789	2 789	NA	NA	NA	NA	NA	
MEDIAN	36	36	NA	NA	NA	NA	NA	
SPECIFIED RENTER OCCUPIED ²	6 744	906	2 462	870	614	1 831	59	
LESS THAN \$10	1 506	81	572	195	134	493	30	
\$10 TO \$14	563	42	242	76	31	167	5	
\$15 TO \$19	347	56	164	50	12	59	5	
\$20 TO \$24	233	72	123	10	8	19	-	
\$25 TO \$29	158	34	102	9	2	12	-	
\$30 TO \$39	273	97	154	10	6	3	3	
\$40 TO \$49	188	76	83	20	5	3	-	
\$50 TO \$69	178	62	105	10	2	-	-	
\$70 TO \$99	77	23	46	6	-	2	-	
\$100 OR MORE	23	10	13	-	-	-	1	
INCLUDED IN RENT	2 185	154	536	353	258	877	8	
NO GAS USED OR NOT REPORTED	1 014	200	323	132	156	197	7	
MEDIAN	12	28	14	10-	10-	10-	10-	
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.								
SPECIFIED OWNER OCCUPIED ¹	7 980	7 980	NA	NA	NA	NA	NA	
LESS THAN \$100	156	156	NA	NA	NA	NA	NA	
\$100 TO \$199	89	89	NA	NA	NA	NA	NA	
\$200 TO \$299	221	221	NA	NA	NA	NA	NA	
\$300 TO \$399	477	477	NA	NA	NA	NA	NA	
\$400 TO \$499	563	563	NA	NA	NA	NA	NA	
\$500 TO \$599	642	642	NA	NA	NA	NA	NA	
\$600 TO \$699	617	617	NA	NA	NA	NA	NA	
\$700 TO \$799	535	535	NA	NA	NA	NA	NA	
\$800 OR MORE	1 071	1 071	NA	NA	NA	NA	NA	
FUELS NOT USED, FREE, OR NOT REPORTED	3 609	3 609	NA	NA	NA	NA	NA	
MEDIAN	606	606	NA	NA	NA	NA	NA	

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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					MOBILE HOME OR TRAILER		
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE			
ALL OCCUPIED HOUSING UNITS--CONTINUED									
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.--CONTINUED									
SPECIFIED RENTER OCCUPIED ¹	6 744	906	2 462	870	614	1 831	59		
LESS THAN \$100	30	14	14	-	-	2	1		
\$100 TO \$199	39	20	13	-	-	-	6		
\$200 TO \$299	63	32	21	2	-	-	8		
\$300 TO \$399	114	57	36	3	-	-	17		
\$400 TO \$499	118	59	56	2	-	-	2		
\$500 TO \$599	90	47	38	2	-	-	3		
\$600 TO \$699	89	48	38	1	-	-	1		
\$700 TO \$799	68	39	28	-	-	-	1		
\$800 OR MORE	108	64	41	1	-	-	1		
INCLUDED IN RENT	3 507	137	1 117	491	362	1 395	5		
FUELS NOT USED, FREE, OR NOT REPORTED	2 517	388	1 059	369	253	435	13		
MEDIAN	495	517	507	...	-	...	335		
ALL OCCUPIED HOUSING UNITS	16 952	9 486	3 536	949	655	1 992	333		
HEATING EQUIPMENT									
OWNER OCCUPIED	10 155	8 526	1 074	79	41	160	274		
WARM-AIR FURNACE	4 366	3 816	259	18	7	15	251		
HEAT PUMP	43	36	4	2	-	-	1		
STEAM OR HOT WATER	4 901	3 965	723	41	32	132	8		
BUILT-IN ELECTRIC UNITS	436	376	33	9	2	13	2		
FLOOR, WALL, OR PIPELESS FURNACE	102	95	4	-	-	-	3		
ROOM HEATERS WITH FLUE	149	98	37	9	-	-	5		
ROOM HEATERS WITHOUT FLUE	8	6	-	-	-	-	2		
FIREPLACES, STOVES, OR PORTABLE HEATERS	148	130	15	-	-	-	3		
NONE	3	3	-	-	-	-	-		
RENTER OCCUPIED	6 797	960	2 462	870	614	1 831	59		
WARM-AIR FURNACE	1 486	483	562	138	116	133	53		
HEAT PUMP	18	2	5	5	3	2	-		
STEAM OR HOT WATER	4 428	318	1 511	606	420	1 572	2		
BUILT-IN ELECTRIC UNITS	375	30	87	77	62	118	-		
FLOOR, WALL, OR PIPELESS FURNACE	37	19	17	-	-	-	-		
ROOM HEATERS WITH FLUE	337	72	224	32	5	2	2		
ROOM HEATERS WITHOUT FLUE	28	9	16	4	-	-	-		
FIREPLACES, STOVES, OR PORTABLE HEATERS	83	27	38	7	5	5	1		
NONE	5	-	2	1	2	-	1		
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED	10 155	8 526	1 074	79	41	160	274		
NO HEATING EQUIPMENT	3	3	-	-	-	-	-		
WITH HEATING EQUIPMENT	10 152	8 524	1 074	79	41	160	274		
NO THERMOSTAT CONTROL	513	217	124	27	19	126	1		
WITH THERMOSTAT CONTROL	9 614	8 283	949	52	21	35	273		
NOT CLOCK OPERATED	8 254	7 211	708	41	16	21	257		
CONSTANT TEMPERATURE SETTING MAINTAINED	2 531	2 199	242	9	5	3	73		
TEMPERATURE SETTING IS CHANGED	5 679	4 983	456	30	12	15	183		
OCCASIONALLY	1 499	1 278	154	10	2	7	47		
REGULARLY	4 137	3 673	293	20	9	8	134		
DON'T KNOW	34	24	9	-	-	-	2		
NOT REPORTED	8	8	-	-	-	-	1		
NOT REPORTED	44	30	9	2	-	-	-		
CLOCK OPERATED	1 313	1 030	239	12	5	14	14		
NOT REPORTED	47	43	3	-	-	-	2		
NOT REPORTED	24	24	1	-	-	-	-		
RENTER OCCUPIED	6 797	960	2 462	870	614	1 831	59		
NO HEATING EQUIPMENT	5	-	2	1	2	-	1		
WITH HEATING EQUIPMENT	6 792	960	2 460	869	613	1 831	59		
NO THERMOSTAT CONTROL	3 588	114	1 153	523	312	1 483	2		
WITH THERMOSTAT CONTROL	3 180	843	1 302	342	297	339	56		
NOT CLOCK OPERATED	2 772	737	1 110	304	264	303	55		
CONSTANT TEMPERATURE SETTING MAINTAINED	895	232	365	102	84	94	18		
TEMPERATURE SETTING IS CHANGED	1 850	496	733	201	180	204	36		
OCCASIONALLY	626	145	255	67	73	76	11		
REGULARLY	1 201	346	468	127	106	128	25		
DON'T KNOW	23	4	10	7	2	-	-		
NOT REPORTED	1	-	-	-	-	-	1		
NOT REPORTED	27	9	12	1	-	-	-		
CLOCK OPERATED	387	99	186	38	28	33	2		
NOT REPORTED	21	7	5	-	5	3	-		
NOT REPORTED	24	3	5	3	3	9	-		

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

TABLE B-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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:	16 952	9 486	3 536	949	655	1 992	333
UNITS OCCUPIED LAST WINTER:	14 633	8 750	2 857	679	454	1 625	268
INSUFFICIENT HEAT							
CLOSURE OF ROOMS:							IP
OWNER OCCUPIED:	9 465	8 010	995	63	30	132	235
WITH HEATING EQUIPMENT:	9 463	8 008	995	63	30	132	235
NO ROOMS CLOSED:	9 087	7 680	961	57	30	128	230
CLOSED CERTAIN ROOMS:	303	270	25	4	-	2	2
LIVING ROOM ONLY:	7	7	-	-	-	-	-
DINING ROOM ONLY:	5	2	2	-	-	2	-
1 OR MORE BEDROOMS ONLY:	186	171	10	4	-	-	1
OTHER ROOMS OR COMBINATION OF ROOMS:	98	84	13	-	-	-	1
NOT REPORTED:	6	6	-	-	-	-	-
NOT REPORTED:	74	58	9	2	-	2	3
NO HEATING EQUIPMENT:	2	2	-	-	-	-	-
RENTER OCCUPIED:	5 168	740	1 862	617	425	1 493	32
WITH HEATING EQUIPMENT:	5 163	740	1 860	616	423	1 493	32
NO ROOMS CLOSED:	4 798	680	1 693	573	406	1 414	32
CLOSED CERTAIN ROOMS:	306	55	141	34	14	61	-
LIVING ROOM ONLY:	19	-	12	5	2	-	-
DINING ROOM ONLY:	4	-	4	-	-	-	-
1 OR MORE BEDROOMS ONLY:	196	42	76	19	10	49	-
OTHER ROOMS OR COMBINATION OF ROOMS:	84	13	48	9	2	12	-
NOT REPORTED:	3	-	2	2	-	-	-
NOT REPORTED:	60	5	26	8	3	17	-
NO HEATING EQUIPMENT:	5	-	2	1	2	-	1
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED:	9 465	8 010	995	63	30	132	235
WITH SPECIFIED HEATING EQUIPMENT:	9 322	7 885	980	63	30	132	232
NO ADDITIONAL HEAT SOURCE USED:	8 659	7 325	928	56	25	113	211
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER:	600	508	45	7	4	17	18
NOT REPORTED:	63	51	7	-	2	3	3
LACKING SPECIFIED HEATING EQUIPMENT OR NONE:	143	125	15	-	-	-	3
RENTER OCCUPIED:	5 168	740	1 862	617	425	1 493	32
WITH SPECIFIED HEATING EQUIPMENT:	5 085	711	1 825	611	420	1 487	31
NO ADDITIONAL HEAT SOURCE USED:	4 172	627	1 530	481	347	1 161	27
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER:	860	80	274	122	70	311	3
NOT REPORTED:	53	4	21	8	3	15	1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE:	84	29	37	6	5	5	2
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED:	9 465	8 010	995	63	30	132	235
WITH SPECIFIED HEATING EQUIPMENT:	9 322	7 885	980	63	30	132	232
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS:	8 033	6 766	835	57	28	123	225
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS:	1 199	1 049	136	6	2	3	4
1 ROOM:	502	437	59	-	2	2	2
2 ROOMS:	315	264	43	6	-	2	-
3 ROOMS OR MORE:	383	348	33	-	-	-	2
NOT REPORTED:	89	70	10	-	-	5	4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE:	143	125	15	-	-	-	3
RENTER OCCUPIED:	5 168	740	1 862	617	425	1 493	32
WITH SPECIFIED HEATING EQUIPMENT:	5 085	711	1 825	611	420	1 487	31
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS:	4 350	557	1 458	538	382	1 385	31
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS:	649	147	334	59	31	79	-
1 ROOM:	269	54	116	28	24	48	-
2 ROOMS:	163	38	89	13	5	17	-
3 ROOMS OR MORE:	218	54	129	19	2	14	-
NOT REPORTED:	85	8	33	14	7	24	-
LACKING SPECIFIED HEATING EQUIPMENT OR NONE:	84	29	37	6	5	5	2

¹EXCLUDES 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: 1978--CONTINUED
(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					MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	
ALL OCCUPIED HOUSING UNITS:	16 952	9 486	3 536	949	655	1 992	333
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED:							
WITHOUT SELECTED HEATING EQUIPMENT OR NONE:	10 155	8 526	1 074	79	41	160	274
WITH SELECTED HEATING EQUIPMENT ¹ :	151	133	15	-	-	-	3
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED:	10 004	8 393	1 060	79	41	160	271
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED:	9 430	7 857	1 041	77	41	160	254
SOLAR HEATING EQUIPMENT:	515	485	16	2	-	-	12
STOVE, BURNING WOOD OR COAL:	1	1	-	-	-	-	-
FIREPLACE, BURNING WOOD OR COAL:	290	283	2	-	-	-	5
PORTABLE ELECTRIC HEATER:	60	57	-	2	-	-	1
ROOM HEATER WITHOUT FLUE OR VENT:							
BURNING GAS, OIL, OR KEROSENE:	82	72	5	1	-	-	3
OTHER:	14	11	2	-	-	-	2
NOT REPORTED:	63	57	6	-	-	-	-
NOT REPORTED:	5	4	1	-	-	-	-
NOT REPORTED:	59	52	3	-	-	-	5
RENTER OCCUPIED:	6 797	960	2 462	870	614	1 831	59
WITHOUT SELECTED HEATING EQUIPMENT OR NONE:	88	27	39	8	7	5	2
WITH SELECTED HEATING EQUIPMENT ¹ :	6 710	933	2 423	862	608	1 826	58
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED:	6 349	879	2 313	811	582	1 709	55
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED:	320	47	96	46	26	101	3
SOLAR HEATING EQUIPMENT:	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL:	22	16	5	-	-	-	1
FIREPLACE, BURNING WOOD OR COAL:	-	-	-	-	-	-	-
PORTABLE ELECTRIC HEATER:	252	24	76	41	20	89	2
ROOM HEATER WITHOUT FLUE OR VENT:							
BURNING GAS, OIL, OR KEROSENE:	9	2	2	4	-	2	-
OTHER:	34	6	10	-	5	12	-
NOT REPORTED:	5	-	3	2	-	-	-
NOT REPORTED:	40	7	13	5	-	15	-
AIR CONDITIONING							
OWNER OCCUPIED:	10 155	8 526	1 074	79	41	160	274
WITH AIR CONDITIONING	4 745	3 952	517	39	25	114	97
ROOM UNITS:	3 880	3 209	471	23	15	80	83
1:	1 054	1 651	261	14	11	49	67
2:	1 181	985	155	9	2	17	13
3:	406	359	31	-	2	12	2
4:	171	153	18	-	-	-	-
5 OR MORE:	68	61	5	-	-	2	-
CENTRAL SYSTEM:	865	743	47	16	10	34	15
WITH NO AIR CONDITIONING	5 410	4 574	557	40	16	46	177
RENTER OCCUPIED:	6 797	960	2 462	870	614	1 831	59
WITH AIR CONDITIONING	2 405	258	757	271	307	807	5
ROOM UNITS:	2 073	228	711	225	233	671	4
1:	1 421	158	497	175	175	411	4
2:	554	55	186	45	51	215	-
3:	87	12	25	5	5	40	-
4:	7	2	1	-	2	3	-
5 OR MORE:	5	2	2	-	-	2	-
CENTRAL SYSTEM:	332	30	46	45	74	136	1
WITH NO AIR CONDITIONING	4 393	702	1 705	599	307	1 025	55

¹EXCLUDES 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: 1978

(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.	16 952	317	504	1 982	3 130	3 398	3 504	4 118	5.2
HOUSE HEATING FUEL									
OWNER OCCUPIED.	10 155	9	50	229	1 034	2 095	2 897	3 839	6.1
UTILITY GAS.	4 008	4	9	51	354	773	1 242	1 574	6.1
BOTTLED, TANK, OR LP GAS.	80	1	3	5	21	15	19	15	5.1
FUEL OIL.	5 218	3	23	136	527	1 102	1 448	1 981	6.1
KEROSENE, ETC.	94	-	-	9	37	26	10	13	4.5
ELECTRICITY.	552	-	7	21	68	139	126	191	5.8
COAL OR COKE.	110	-	3	1	13	24	36	34	5.9
WOOD.	88	1	3	6	15	15	17	31	5.7
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	2	-	2	-	-	-	-	-	-
NONE.	3	-	-	-	-	2	1	-	-
RENTER OCCUPIED.	6 797	308	454	1 753	2 096	1 302	606	278	3.9
UTILITY GAS.	2 293	82	126	488	740	517	264	75	4.1
BOTTLED, TANK, OR LP GAS.	38	3	-	8	12	10	2	3	4.1
FUEL OIL.	3 902	199	262	1 107	1 151	702	303	176	3.8
KEROSENE, ETC.	39	-	1	7	15	4	11	2	4.3
ELECTRICITY.	447	19	60	133	154	52	16	13	3.6
COAL OR COKE.	38	-	2	3	12	9	8	6	4.9
WOOD.	24	2	2	3	7	3	3	3	...
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	12	-	2	3	2	5	-	-	-
NONE.	5	2	-	1	3	-	-	-	-
WATER HEATING FUEL									
OWNER OCCUPIED.	10 155	9	50	229	1 034	2 095	2 897	3 839	6.1
NO HOT PIPED WATER.	34	1	4	5	8	6	2	8	...
WITH HOT PIPED WATER.	10 121	8	46	224	1 027	2 090	2 895	3 831	6.1
FUEL USED:									
UTILITY GAS.	4 501	3	8	59	391	855	1 423	1 762	6.1
BOTTLED, TANK, OR LP GAS.	255	-	1	10	34	62	75	5.8	...
FUEL OIL.	3 145	3	24	93	290	619	852	1 265	6.1
KEROSENE, ETC.	12	-	2	-	2	3	2	4	...
ELECTRICITY.	2 160	2	11	61	304	542	526	715	5.8
COAL OR COKE.	29	-	-	-	4	5	14	6	...
WOOD.	13	-	1	1	1	1	4	6	...
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	5	-	-	-	1	4	1	-	-
NONE.	-	-	-	-	-	-	-	-	-
NOT REPORTED.	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED.	6 797	308	454	1 753	2 096	1 302	606	278	3.9
NO HOT PIPED WATER.	28	11	2	2	6	2	3	3	...
WITH HOT PIPED WATER.	6 769	297	452	1 751	2 089	1 301	604	276	3.9
FUEL USED:									
UTILITY GAS.	2 733	84	146	599	844	630	328	103	4.1
BOTTLED, TANK, OR LP GAS.	90	3	1	11	29	20	16	12	4.6
FUEL OIL.	3 073	188	242	929	957	487	177	93	3.7
KEROSENE, ETC.	6	-	-	-	1	1	3	1	...
ELECTRICITY.	827	21	62	201	253	151	76	63	4.0
COAL OR COKE.	18	-	2	-	2	8	3	3	...
WOOD.	2	-	-	1	1	-	-	1	...
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	18	2	-	10	4	2	-	1	...
NONE.	2	-	-	-	2	2	-	-	...
NOT REPORTED.	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED.	10 155	9	50	229	1 034	2 095	2 897	3 839	6.1
UTILITY GAS.	4 424	3	17	114	469	886	1 394	1 539	6.0
BOTTLED, TANK, OR LP GAS.	780	2	9	35	154	200	176	206	5.4
FUEL OIL.	24	-	-	1	4	2	11	7	...
KEROSENE, ETC.	4	-	-	-	1	1	3	1	...
ELECTRICITY.	4 888	3	23	77	402	1 001	1 307	2 074	6.2
COAL OR COKE.	7	-	-	-	-	2	3	3	...
WOOD.	26	1	1	2	4	5	3	10	...
OTHER FUEL.	2	-	-	-	1	-	1	-	...
NONE.	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED.	6 797	308	454	1 753	2 096	1 302	606	278	3.9
UTILITY GAS.	4 761	166	310	1 266	1 522	938	436	122	3.9
BOTTLED, TANK, OR LP GAS.	258	4	9	43	81	54	33	34	4.4
FUEL OIL.	13	-	-	5	5	3	-	-	...
KEROSENE, ETC.	2	-	-	-	-	1	2	-	...
ELECTRICITY.	1 680	72	132	432	482	305	136	122	3.9
COAL OR COKE.	2	-	-	-	2	-	-	-	...
WOOD.	2	-	-	-	1	2	-	-	...
OTHER FUEL.	10	2	3	3	2	1	-	-	...
NONE.	69	64	1	3	2	-	-	-	1.5-

TABLE B-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$10	7 980	4	15	45	507	1 511	2 475	3 423	6.3
\$10 TO \$19.	89	-	1	3	10	20	30	25	5.8
\$20 TO \$29.	1 078	1	4	12	123	236	378	324	5.9
\$30 TO \$39.	2 093	1	3	19	182	480	701	707	6.0
\$40 TO \$49.	1 848	2	5	5	101	372	556	807	6.3
\$50 TO \$59.	1 082	-	2	2	48	162	354	514	6.4
\$60 TO \$79.	723	-	-	2	18	97	192	415	6.5+
\$80 TO \$99.	596	1	-	1	17	85	147	345	6.5+
\$100 TO \$149.	226	-	-	-	2	34	66	125	6.5+
\$150 OR MORE.	192	-	-	-	4	19	39	131	6.5+
NO ELECTRICITY USED OR NOT REPORTED	48	-	-	-	1	5	12	30	6.5+
MEDIAN.	5	-	-	-	1	2	1	1	---
	34	---	---	23	26	30	32	37	---
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	6 744	308	453	1 751	2 091	1 295	597	248	3.9
\$10 TO \$19.	450	17	45	178	140	50	18	2	3.4
\$20 TO \$29.	1 962	48	117	602	622	386	139	48	3.8
\$30 TO \$39.	1 476	17	58	316	517	336	180	52	4.2
\$40 TO \$49.	708	7	17	119	222	194	109	40	4.4
\$50 TO \$59.	215	2	12	24	66	54	39	19	4.6
\$60 TO \$79.	159	3	4	19	48	53	18	13	4.6
\$80 TO \$99.	66	2	2	4	17	13	12	17	5.2
\$100 TO \$149.	20	-	-	2	8	5	1	3	---
\$150 OR MORE.	12	-	-	2	4	-	2	5	---
INCLUDED IN RENT.	16	-	-	2	5	5	2	2	---
NO ELECTRICITY USED OR NOT REPORTED	1 636	205	195	479	436	198	78	45	3.4
MEDIAN.	24	7	3	5	6	2	-	1	---
	21	16	16	17	21	23	25	29	---
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$10	7 980	4	15	45	507	1 511	2 475	3 423	6.3
\$10 TO \$14.	697	-	2	3	61	120	244	267	6.2
\$15 TO \$19.	451	1	-	6	42	81	144	177	6.2
\$20 TO \$24.	324	-	2	2	18	56	112	134	6.2
\$25 TO \$29.	295	-	2	1	25	52	101	115	6.2
\$30 TO \$39.	323	-	-	4	27	70	121	101	6.0
\$40 TO \$49.	797	1	4	6	57	175	303	251	6.0
\$50 TO \$69.	729	-	-	-	45	137	272	276	6.2
\$70 TO \$99.	1 045	2	-	-	30	143	284	586	6.5+
\$100 OR MORE.	381	-	-	1	3	47	96	233	6.5+
NO GAS USED OR NOT REPORTED	149	-	-	2	2	15	20	110	6.5+
MEDIAN.	2 789	1	6	20	197	615	778	1 172	6.2
	36	---	---	---	26	34	34	43	---
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	6 744	308	453	1 751	2 091	1 295	597	248	3.9
\$10 TO \$14.	1 506	50	107	518	469	241	91	29	3.7
\$15 TO \$19.	563	5	27	132	201	109	73	15	4.1
\$20 TO \$24.	347	2	4	70	116	106	30	19	4.3
\$25 TO \$29.	233	-	2	21	74	63	57	15	4.8
\$30 TO \$39.	158	-	4	28	59	36	24	8	4.3
\$40 TO \$49.	273	-	2	19	85	106	42	19	4.8
\$50 TO \$69.	188	2	-	14	53	72	35	12	4.8
\$70 TO \$99.	178	-	1	11	34	67	54	12	5.1
\$100 OR MORE.	77	-	-	2	22	34	14	5	4.9
INCLUDED IN RENT.	23	-	-	-	6	3	7	6	---
NO GAS USED OR NOT REPORTED	2 185	205	221	674	661	282	102	41	3.5
MEDIAN.	1 014	45	86	262	311	175	69	67	3.9
	12	10-	10-	10-	12	18	21	22	---
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$100.	7 980	4	15	45	507	1 511	2 475	3 423	6.3
\$100 TO \$199.	156	-	-	1	9	34	40	72	6.3
\$200 TO \$299.	89	-	2	3	8	24	25	27	5.8
\$300 TO \$399.	221	-	-	4	32	68	64	54	5.6
\$400 TO \$499.	477	-	-	9	66	150	151	101	5.6
\$500 TO \$599.	563	1	3	8	57	133	179	183	5.9
\$600 TO \$699.	642	-	1	2	40	153	204	243	6.1
\$700 TO \$799.	617	-	-	4	38	94	221	260	6.3
\$800 OR MORE.	535	-	2	-	25	84	155	269	6.5+
FUELS NOT USED, FREE, OR NOT REPORTED	1 071	-	-	2	20	105	277	667	6.5+
MEDIAN.	3 609	3	8	12	213	667	1 160	1 546	6.3
	606	---	---	---	456	509	597	698	---

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

²EXCLUDES 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: 1978--CONTINUED

(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	6 744	308	453	1 751	2 091	1 295	597	248	3.9
LESS THAN \$100.	30	2	-	5	10	8	1	6	..
\$100 TO \$199.	39	-	1	6	18	2	8	4	4.2
\$200 TO \$299.	63	-	2	6	15	17	19	5	5.0
\$300 TO \$399.	114	-	-	6	34	40	19	15	4.9
\$400 TO \$499.	118	-	-	6	26	46	24	14	5.0
\$500 TO \$599.	90	2	-	1	21	31	21	14	5.2
\$600 TO \$699.	89	-	-	7	17	26	30	10	5.3
\$700 TO \$799.	68	-	-	-	15	22	20	12	5.4
\$800 OR MORE.	108	-	-	1	7	33	33	34	5.9
INCLUDED IN RENT.	3 507	219	292	1 104	1 085	564	194	49	3.6
FUELS NOT USED, FREE, OR NOT REPORTED	2 517	86	156	610	845	506	229	85	4.0
MEDIAN.	495	...	...	328	417	498	577	595	...
ALL OCCUPIED HOUSING UNITS.									
HEATING EQUIPMENT									
OWNER OCCUPIED.	10 155	9	50	229	1 034	2 095	2 897	3 839	6.1
WARM-AIR FURNACE.	4 366	-	13	66	488	956	1 283	1 562	6.0
HEAT PUMP.	43	-	-	-	6	6	7	24	6.5+
STEAM OR HOT WATER.	4 901	4	24	125	395	931	1 414	2 008	6.2
BUILT-IN ELECTRIC UNITS	436	-	6	21	51	123	92	144	5.7
FLOOR, WALL, OR PIPELESS FURNACE.	102	-	-	2	17	20	45	19	5.8
ROOM HEATERS WITH FLUE.	149	3	3	10	47	25	26	34	4.9
ROOM HEATERS WITHOUT FLUE	8	-	2	-	1	1	3	2	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	148	1	3	6	30	32	27	48	5.5
NONE.	3	-	-	-	2	1	-	-	...
RENTER OCCUPIED	6 797	308	454	1 753	2 096	1 302	606	278	3.9
WARM-AIR FURNACE.	1 486	29	64	264	457	359	194	120	4.3
HEAT PUMP.	18	-	2	2	5	8	2	-	...
STEAM OR HOT WATER.	4 428	249	323	1 296	1 345	756	329	131	3.8
BUILT-IN ELECTRIC UNITS	375	16	55	115	127	37	14	10	3.5
FLOOR, WALL, OR PIPELESS FURNACE.	37	2	-	4	7	11	11	2	5.0
ROOM HEATERS WITH FLUE.	337	7	8	51	115	103	47	6	4.4
ROOM HEATERS WITHOUT FLUE	28	2	-	7	6	9	2	2	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	83	2	2	14	30	19	8	7	4.3
NONE.	5	2	-	1	3	-	-	-	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED.	10 155	9	50	229	1 034	2 095	2 897	3 839	6.1
NO HEATING EQUIPMENT.	3	-	-	-	-	2	1	-	...
WITH HEATING EQUIPMENT.	10 152	9	50	229	1 034	2 094	2 897	3 839	6.1
NO THERMOSTAT CONTROL	513	7	26	71	125	114	81	90	4.7
WITH THERMOSTAT CONTROL	9 614	2	24	158	908	1 975	2 807	3 740	6.1
NOT CLOCK OPERATED.	8 254	2	23	131	803	1 713	2 417	3 165	6.1
CONSTANT TEMPERATURE SETTING MAINTAINED	2 531	2	5	42	267	574	808	833	6.0
TEMPERATURE SETTING IS CHANGED.	5 679	-	17	84	533	1 126	1 599	2 321	6.2
OCCASIONALLY.	1 499	-	3	30	153	297	473	543	6.1
REGULARLY.	4 137	-	13	52	375	816	1 122	1 760	6.2
DON'T KNOW.	34	-	-	2	4	9	5	14	...
NOT REPORTED.	8	-	-	-	1	3	-	4	...
NOT REPORTED.	44	-	-	-	1	3	10	12	5.5
CLOCK OPERATED.	1 313	1	1	26	98	254	379	554	6.2
NOT REPORTED.	47	-	-	1	7	8	10	21	3.2
NOT REPORTED.	24	-	-	-	1	5	9	9	...
RENTER OCCUPIED	6 797	308	454	1 753	2 096	1 302	606	278	3.9
NO HEATING EQUIPMENT.	5	2	-	1	3	-	-	-	...
WITH HEATING EQUIPMENT.	6 792	306	454	1 752	2 093	1 302	606	278	3.9
NO THERMOSTAT CONTROL	3 588	247	324	1 126	1 109	552	196	33	3.6
WITH THERMOSTAT CONTROL	3 180	59	122	619	978	748	410	243	4.3
NOT CLOCK OPERATED.	2 772	51	115	562	855	642	343	204	4.3
CONSTANT TEMPERATURE SETTING MAINTAINED	895	22	42	189	282	206	93	61	4.2
TEMPERATURE SETTING IS CHANGED.	1 850	27	73	368	569	428	245	141	4.3
OCCASIONALLY.	626	6	20	126	204	149	79	40	4.3
REGULARLY.	1 201	20	51	236	358	275	162	99	4.3
DON'T KNOW.	23	-	2	7	6	4	4	1	...
NOT REPORTED.	1	-	-	-	1	-	-	-	...
NOT REPORTED.	27	2	-	5	4	9	6	2	...
CLOCK OPERATED.	387	9	6	54	116	100	63	40	4.6
NOT REPORTED.	21	-	1	3	7	6	3	-	...
NOT REPORTED.	24	-	7	7	6	2	-	2	...

¹EXCLUDES 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: 1978--CONTINUED

(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.	16 952	317	504	1 982	3 130	3 398	3 504	4 118	5.2
UNITS OCCUPIED LAST WINTER.	14 633	215	372	1 526	2 525	2 976	3 222	3 798	5.4
INSUFFICIENT HEAT									
CLOSURE OF ROOMS:									
OWNER OCCUPIED.	9 465	7	38	194	929	1 956	2 749	3 591	6.1
WITH HEATING EQUIPMENT.	9 463	7	38	194	929	1 955	2 749	3 591	6.1
NO ROOMS CLOSED	9 087	6	38	190	891	1 886	2 626	3 449	6.1
CLOSED CERTAIN ROOMS.	303	-	-	2	23	52	108	119	6.2
LIVING ROOM ONLY.	7	-	-	-	-	3	2	3	...
DINING ROOM ONLY.	5	-	-	2	-	1	2	1	...
1 OR MORE BEDROOMS ONLY	186	-	-	-	15	37	75	59	6.0
OTHER ROOMS OR COMBINATION OF ROOMS	98	-	-	-	8	8	28	54	6.5+
NOT REPORTED.	6	-	-	-	-	3	-	3	...
NOT REPORTED.	74	1	-	2	15	16	16	23	5.6
NO HEATING EQUIPMENT.	2	-	-	-	-	2	-	-	...
RENTER OCCUPIED	5 168	208	333	1 332	1 596	1 020	473	207	3.9
WITH HEATING EQUIPMENT.	5 163	206	333	1 331	1 593	1 020	473	207	3.9
NO ROOMS CLOSED	4 798	205	321	1 269	1 482	922	421	179	3.9
CLOSED CERTAIN ROOMS.	306	-	5	45	88	95	50	23	4.6
LIVING ROOM ONLY.	19	-	-	5	7	7	-	-	...
DINING ROOM ONLY.	4	-	-	-	2	-	2	-	...
1 OR MORE BEDROOMS ONLY	196	-	3	22	64	63	24	19	4.6
OTHER ROOMS OR COMBINATION OF ROOMS	84	-	2	16	15	23	24	3	4.9
NOT REPORTED.	3	-	-	2	-	2	-	-	...
NOT REPORTED.	60	2	7	18	23	3	2	5	3.6
NO HEATING EQUIPMENT.	5	2	-	1	3	-	-	-	...
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED.	9 465	7	38	194	929	1 956	2 749	3 591	6.1
WITH SPECIFIED HEATING EQUIPMENT.	9 322	6	34	190	903	1 924	2 721	3 545	6.1
NO ADDITIONAL HEAT SOURCE USED.	8 659	6	32	176	833	1 795	2 547	3 269	6.1
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	600	-	2	13	55	116	158	256	6.2
NOT REPORTED.	63	-	-	-	15	13	16	20	5.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	143	1	5	4	26	32	28	45	5.6
RENTER OCCUPIED	5 168	208	333	1 332	1 596	1 020	473	207	3.9
WITH SPECIFIED HEATING EQUIPMENT.	5 085	204	332	1 318	1 569	998	464	200	3.9
NO ADDITIONAL HEAT SOURCE USED.	4 172	171	270	1 070	1 276	818	394	173	3.9
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	860	31	57	232	273	176	68	23	3.9
NOT REPORTED.	53	2	5	16	20	3	2	4	3.7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	84	4	2	14	27	22	8	7	4.3
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED.	9 465	7	38	194	929	1 956	2 749	3 591	6.1
WITH SPECIFIED HEATING EQUIPMENT.	9 322	6	34	190	903	1 924	2 721	3 545	6.1
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	8 033	5	29	174	793	1 735	2 360	2 937	6.0
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 199	1	5	12	89	174	343	575	6.4
1 ROOM.	502	-	3	6	32	83	158	219	6.3
2 ROOMS	315	-	-	3	32	50	78	151	6.4
3 ROOMS OR MORE	383	1	2	3	24	42	107	205	6.5+
NOT REPORTED.	89	-	-	4	21	15	17	33	5.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	143	1	5	4	26	32	28	45	5.6
RENTER OCCUPIED	5 168	208	333	1 332	1 596	1 020	473	207	3.9
WITH SPECIFIED HEATING EQUIPMENT.	5 085	204	332	1 318	1 569	998	464	200	3.9
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	4 350	200	300	1 208	1 359	800	338	144	3.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	649	2	22	89	179	188	119	51	4.7
1 ROOM.	269	2	20	55	69	64	41	18	4.3
2 ROOMS	163	-	2	24	56	43	28	10	4.5
3 ROOMS OR MORE	218	-	-	9	54	81	51	23	5.1
NOT REPORTED.	85	2	10	21	31	10	7	4	3.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	84	4	2	14	27	22	8	7	4.3

¹EXCLUDES 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: 1978--CONTINUED

(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.	16 952	317	504	1 982	3 130	3 398	3 504	4 118	5.2
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED.	10 155	9	50	229	1 034	2 095	2 897	3 839	6.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	151	1	3	6	30	34	28	48	5.5
WITH SELECTED HEATING EQUIPMENT ¹	10 004	8	47	223	1 004	2 062	2 869	3 791	6.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	9 430	3	46	219	963	1 945	2 712	3 541	6.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	515	4	-	3	37	101	141	230	6.3
SOLAR HEATING EQUIPMENT.	1	-	-	-	-	-	1	-	..
STOVE, BURNING WOOD OR COAL.	290	1	-	-	19	69	72	130	6.3
FIREPLACE, BURNING WOOD OR COAL.	60	-	-	-	6	5	21	28	6.4
PORTABLE ELECTRIC HEATER.	82	2	-	3	7	14	19	38	6.3
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	14	-	-	-	3	3	2	6	..
OTHER.	63	2	-	-	2	10	23	26	6.3
NOT REPORTED.	5	-	-	-	-	-	3	3	..
NOT REPORTED.	59	-	1	1	4	16	17	21	6.0
RENTER OCCUPIED.	6 797	308	454	1 753	2 096	1 302	606	278	3.9
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	88	4	2	15	33	19	8	7	4.2
WITH SELECTED HEATING EQUIPMENT ¹	6 710	304	452	1 738	2 063	1 283	598	271	3.9
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	6 349	290	420	1 664	1 954	1 212	558	251	3.9
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	320	14	50	58	98	65	39	16	4.1
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	22	-	-	-	5	5	4	9	..
FIREPLACE, BURNING WOOD OR COAL.	-	-	-	-	-	-	-	-	-
PORTABLE ELECTRIC HEATER.	252	10	27	51	82	50	27	5	4.0
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	9	-	2	2	2	2	2	-	..
OTHER.	34	3	2	5	8	7	6	2	..
NOT REPORTED.	5	-	-	2	2	2	-	-	..
NOT REPORTED.	40	-	2	16	11	7	1	4	3.7
AIR CONDITIONING									
OWNER OCCUPIED.	10 155	9	50	229	1 034	2 095	2 897	3 839	6.1
WITH AIR CONDITIONING ROOM UNITS.	4 745	2	24	104	443	879	1 341	1 952	6.2
1	3 880	2	19	85	374	744	1 173	1 484	6.1
2	2 054	2	16	70	245	470	622	630	5.9
3	1 181	-	3	14	101	207	352	505	6.3
4	406	-	-	1	23	46	138	199	6.5
5 OR MORE	171	-	-	-	5	15	45	105	6.5+
CENTRAL SYSTEM.	68	-	-	-	-	5	16	46	6.5+
WITH NO AIR CONDITIONING.	865	-	5	20	70	135	168	468	6.5+
5 410	7	27	125	591	1 217	1 556	1 887	6.0	
RENTER OCCUPIED.	6 797	308	454	1 753	2 096	1 302	606	278	3.9
WITH AIR CONDITIONING ROOM UNITS.	2 405	80	160	730	792	403	164	76	3.8
1	2 073	68	135	635	671	348	151	65	3.8
2	1 421	65	120	460	407	233	90	45	3.7
3	554	3	13	167	222	91	47	11	3.9
4	87	-	2	9	37	22	13	5	4.4
5 OR MORE	7	-	-	3	2	1	2	2	..
CENTRAL SYSTEM.	5	-	-	2	2	2	-	2	..
WITH NO AIR CONDITIONING.	332	12	25	96	121	55	12	11	3.8
4 393	228	294	1 023	1 304	899	443	203	4.0	
ALL OCCUPIED HOUSING UNITS.	16 952	317	504	1 982	3 130	3 398	3 504	4 118	5.2
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	9 820	12	38	150	925	1 951	2 849	3 896	6.1
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED.	8 800	5	23	79	680	1 701	2 617	3 695	6.2
ALL WINDOWS COVERED	7 154	2	12	55	561	1 407	2 174	2 943	6.2
SOME WINDOWS COVERED.	1 202	1	7	16	68	200	345	566	6.4
NO WINDOWS COVERED.	404	2	3	6	45	86	88	173	6.2
NOT REPORTED.	40	-	-	2	6	8	11	13	5.9
RENTER OCCUPIED.	1 019	6	15	70	246	250	231	200	5.2
ALL WINDOWS COVERED	545	3	4	27	145	130	123	114	5.2
SOME WINDOWS COVERED.	234	-	2	12	30	63	65	61	5.6
NO WINDOWS COVERED.	192	3	2	16	63	48	36	23	4.7
NOT REPORTED.	48	-	6	15	8	9	7	3	3.8

¹EXCLUDES 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: 1978--CONTINUED

(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	8 800	5	23	79	680	1 701	2 617	3 695	6.2
ALL DOORS COVERED	6 989	2	13	41	516	1 398	2 194	2 825	6.2
SOME DOORS COVERED	1 155	1	2	8	86	198	299	561	6.4
NO DOORS COVERED	619	2	7	28	72	96	117	297	6.4
NOT REPORTED	36	-	-	2	6	8	8	12	5.8
RENTER OCCUPIED	1 019	6	15	70	246	250	231	200	5.2
ALL DOORS COVERED	575	2	2	19	144	139	142	126	5.4
SOME DOORS COVERED	162	1	2	12	28	46	36	38	5.3
NO DOORS COVERED	232	3	6	24	65	56	43	35	4.8
NOT REPORTED	50	-	6	15	8	9	10	3	4.0
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	8 800	5	23	79	680	1 701	2 617	3 695	6.2
YES	7 136	4	15	56	511	1 386	2 090	3 073	6.3
NO	1 280	2	6	16	128	243	395	491	6.1
DON'T KNOW	336	-	2	6	31	60	122	116	6.1
NOT REPORTED	48	-	-	2	9	11	11	16	5.7
RENTER OCCUPIED	1 019	6	15	70	246	250	231	200	5.2
YES	479	3	2	24	126	106	107	110	5.3
NO	268	3	3	17	55	77	62	52	5.2
DON'T KNOW	223	-	3	15	56	58	55	36	5.1
NOT REPORTED	49	-	6	15	8	9	9	3	4.0

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978

(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.	16 952	1 814	15 138	2 792	2 410	1 436	8 499
HOUSE HEATING FUEL							
OWNER OCCUPIED.	10 155	1 142	9 013	1 862	1 841	934	4 376
UTILITY GAS.	4 008	314	3 694	859	776	364	1 695
BOTTLED, TANK, OR LP GAS.	80	19	61	21	11	9	19
FUEL OIL.	5 218	467	4 751	792	1 000	526	2 433
KEROSENE, ETC.	94	31	64	34	7	3	20
ELECTRICITY.	552	286	265	138	34	17	77
COAL OR COKE.	110	-	110	2	7	12	88
WOOD.	88	24	64	13	5	3	42
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	2	-	2	2	-	-	-
NONE.	3	-	3	1	-	-	2
RENTER OCCUPIED.	6 797	673	6 125	930	570	502	4 123
UTILITY GAS.	2 293	226	2 067	334	134	154	1 445
BOTTLED, TANK, OR LP GAS.	38	2	37	4	5	-	28
FUEL OIL.	3 902	209	3 692	445	414	340	2 494
KEROSENE, ETC.	39	3	36	6	4	2	24
ELECTRICITY.	447	228	219	136	11	3	70
COAL OR COKE.	38	1	37	-	2	-	36
WOOD.	24	-	24	2	1	2	19
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	12	3	9	4	-	2	3
NONE.	5	-	5	-	1	-	4
WATER HEATING FUEL							
OWNER OCCUPIED.	10 155	1 142	9 013	1 862	1 841	934	4 376
NO HOT PIPED WATER.	34	8	26	2	2	4	17
WITH HOT PIPED WATER.	10 121	1 134	8 987	1 860	1 838	930	4 359
FUEL USED:							
UTILITY GAS.	4 501	287	4 214	867	807	397	2 144
BOTTLED, TANK, OR LP GAS.	255	24	231	29	34	21	147
FUEL OIL.	3 145	290	2 855	536	672	332	1 315
KEROSENE, ETC.	12	3	9	-	-	1	8
ELECTRICITY.	2 160	525	1 635	422	323	176	713
COAL OR COKE.	29	-	29	2	-	3	24
WOOD.	13	4	9	2	-	1	7
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	5	-	5	3	2	-	1
NONE.	-	-	-	-	-	-	-
NOT REPORTED.	-	-	-	-	-	-	-
RENTER OCCUPIED.	6 797	673	6 125	930	570	502	4 123
NO HOT PIPED WATER.	28	1	27	1	-	1	25
WITH HOT PIPED WATER.	6 769	671	6 098	929	570	501	4 098
FUEL USED:							
UTILITY GAS.	2 733	235	2 498	344	164	172	1 818
BOTTLED, TANK, OR LP GAS.	90	5	85	10	6	2	67
FUEL OIL.	3 073	148	2 925	383	345	292	1 904
KEROSENE, ETC.	6	-	6	1	-	-	5
ELECTRICITY.	827	276	550	185	46	30	289
COAL OR COKE.	18	-	18	-	8	-	10
WOOD.	2	-	2	-	-	-	2
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	18	6	12	7	-	4	1
NONE.	2	-	2	-	-	-	2
NOT REPORTED.	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED.	10 155	1 142	9 013	1 862	1 841	934	4 376
UTILITY GAS.	4 424	214	4 210	673	715	426	2 395
BOTTLED, TANK, OR LP GAS.	780	141	639	155	97	62	325
FUEL OIL.	24	-	24	2	5	2	15
KEROSENE, ETC.	4	-	4	-	1	-	3
ELECTRICITY.	4 888	782	4 106	1 029	1 021	441	1 615
COAL OR COKE.	7	-	7	-	-	1	7
WOOD.	26	4	21	2	2	2	15
OTHER FUEL.	2	-	2	1	-	-	1
NONE.	-	-	-	-	-	-	-
RENTER OCCUPIED.	6 797	673	6 125	930	570	502	4 123
UTILITY GAS.	4 761	276	4 485	532	416	415	3 122
BOTTLED, TANK, OR LP GAS.	258	20	238	37	20	12	169
FUEL OIL.	13	-	13	4	1	-	8
KEROSENE, ETC.	2	-	2	-	-	-	2
ELECTRICITY.	1 680	376	1 303	354	129	74	745
COAL OR COKE.	2	-	2	-	-	-	2
WOOD.	2	-	2	-	-	-	2
OTHER FUEL.	10	1	10	2	-	-	8
NONE.	69	-	69	2	3	1	64

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	7 980	814	7 166	1 510	1 650	830	3 175		
LESS THAN \$10	89	-	89	8	10	2	70		
\$10 TO \$19.	1 078	49	1 029	94	168	122	645		
\$20 TO \$29.	2 093	145	1 948	344	423	249	932		
\$30 TO \$39.	1 848	182	1 666	350	402	194	720		
\$40 TO \$49.	1 082	109	973	251	238	112	372		
\$50 TO \$59.	723	85	637	182	208	56	192		
\$60 TO \$79.	596	106	490	140	128	53	169		
\$80 TO \$99.	226	49	177	75	30	25	47		
\$100 TO \$149.	192	72	120	53	35	13	19		
\$150 OR MORE.	48	15	32	13	7	5	7		
NO ELECTRICITY USED OR NOT REPORTED	5	2	3	-	-	-	3		
MEDIAN.	34	43	33	38	35	32	28		
SPECIFIED RENTER OCCUPIED ²	6 744	670	6 074	925	566	501	4 082		
LESS THAN \$10	450	29	421	45	23	26	326		
\$10 TO \$19.	1 962	120	1 841	248	153	116	1 324		
\$20 TO \$29.	1 476	117	1 359	191	93	101	974		
\$30 TO \$39.	708	82	626	103	57	56	410		
\$40 TO \$49.	215	38	177	39	13	19	106		
\$50 TO \$59.	159	22	137	25	6	10	96		
\$60 TO \$79.	66	19	47	9	6	3	29		
\$80 TO \$99.	20	3	16	4	1	-	11		
\$100 TO \$149.	12	4	8	1	-	2	6		
\$150 OR MORE.	16	7	9	2	-	-	7		
INCLUDED IN RENT.	1 636	228	1 409	252	215	167	775		
NO ELECTRICITY USED OR NOT REPORTED	24	-	24	6	-	1	17		
MEDIAN.	21	25	20	22	19	22	19		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹	7 980	814	7 166	1 510	1 650	830	3 175		
LESS THAN \$10	697	32	665	72	104	88	401		
\$10 TO \$14.	451	20	431	26	81	53	272		
\$15 TO \$19.	324	6	318	22	48	29	219		
\$20 TO \$24.	295	4	291	33	56	47	155		
\$25 TO \$29.	323	11	312	36	69	57	149		
\$30 TO \$39.	797	52	745	150	167	80	348		
\$40 TO \$49.	729	44	685	153	171	60	301		
\$50 TO \$69.	1 045	88	957	274	211	98	373		
\$70 TO \$99.	381	32	350	121	51	31	147		
\$100 OR MORE.	149	16	132	37	19	11	65		
NO GAS USED OR NOT REPORTED	2 789	509	2 280	586	674	276	744		
MEDIAN.	36	46	35	47	37	30	30		
SPECIFIED RENTER OCCUPIED ²	6 744	670	6 074	925	566	501	4 082		
LESS THAN \$10	1 506	27	1 478	103	109	144	1 122		
\$10 TO \$14.	563	11	553	16	31	40	466		
\$15 TO \$19.	347	14	333	9	11	27	285		
\$20 TO \$24.	233	6	226	18	15	5	188		
\$25 TO \$29.	158	1	157	17	8	9	123		
\$30 TO \$39.	273	18	255	21	14	13	207		
\$40 TO \$49.	188	13	175	9	6	6	154		
\$50 TO \$69.	178	7	171	14	9	9	139		
\$70 TO \$99.	77	-	77	2	-	2	73		
\$100 OR MORE.	23	-	23	3	-	-	20		
INCLUDED IN RENT.	2 185	333	1 851	488	280	198	886		
NO GAS USED OR NOT REPORTED	1 014	240	774	226	83	48	418		
MEDIAN.	12	18	12	11	10-	10-	12		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹	7 980	814	7 166	1 510	1 650	830	3 175		
LESS THAN \$100.	156	34	122	32	38	12	41		
\$100 TO \$199.	89	20	69	14	16	9	31		
\$200 TO \$299.	221	26	195	35	51	20	88		
\$300 TO \$399.	477	47	431	62	117	68	183		
\$400 TO \$499.	563	58	506	73	118	54	260		
\$500 TO \$599.	642	59	583	108	114	79	281		
\$600 TO \$699.	617	41	576	107	142	80	247		
\$700 TO \$799.	535	33	502	87	126	54	234		
\$800 OR MORE.	1 071	79	992	132	208	112	539		
FUELS NOT USED, FREE, OR NOT REPORTED	3 609	419	3 190	858	720	341	1 271		
MEDIAN.	606	523	614	601	608	602	627		

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$100.	6 744	670	6 074	925	566	501	4 082		
\$100 TO \$199.	30	1	30	2	3	4	21		
\$200 TO \$299.	39	3	36	6	1	2	27		
\$300 TO \$399.	63	6	57	5	2	2	49		
\$400 TO \$499.	114	8	106	16	10	2	78		
\$500 TO \$599.	118	2	116	3	10	9	94		
\$600 TO \$699.	90	4	86	9	10	8	60		
\$700 TO \$799.	89	2	87	6	3	4	73		
\$800 OR MORE.	68	1	67	7	2	4	54		
INCLUDED IN RENT.	108	4	104	5	9	9	80		
FUELS NOT USED, FREE, OR NOT REPORTED	3 507	237	3 270	463	376	303	2 129		
MEDIAN.	2 517	402	2 115	402	142	153	1 418		
	495	---	499	444	494	535	498		
ALL OCCUPIED HOUSING UNITS.									
HEATING EQUIPMENT									
OWNER OCCUPIED.	10 155	1 142	9 013	1 862	1 841	934	4 376		
WARM-AIR FURNACE.	4 366	508	3 858	914	924	402	1 618		
HEAT PUMP.	43	24	19	2	3	2	11		
STEAM OR HOT WATER.	4 901	343	4 558	787	847	479	2 445		
BUILT-IN ELECTRIC UNITS	436	229	207	125	26	13	44		
FLOOR, WALL, OR PIPELESS FURNACE	102	3	99	5	20	13	61		
ROOM HEATERS WITH FLUE	149	4	145	9	9	15	113		
ROOM HEATERS WITHOUT FLUE	8	-	8	2	2	-	5		
FIREPLACES, STOVES, OR PORTABLE HEATERS	148	32	116	18	10	11	77		
NONE.	3	-	3	1	-	-	2		
RENTER OCCUPIED	6 797	673	6 125	930	570	502	4 123		
WARM-AIR FURNACE.	1 486	230	1 256	225	97	82	852		
HEAT PUMP.	18	3	15	2	2	-	12		
STEAM OR HOT WATER.	4 428	246	4 182	569	452	400	2 761		
BUILT-IN ELECTRIC UNITS	375	190	184	124	6	3	52		
FLOOR, WALL, OR PIPELESS FURNACE	37	-	37	1	5	3	28		
ROOM HEATERS WITH FLUE	337	2	335	3	6	11	316		
ROOM HEATERS WITHOUT FLUE	28	-	28	3	-	2	24		
FIREPLACES, STOVES, OR PORTABLE HEATERS	83	1	82	3	2	2	75		
NONE.	5	-	5	-	1	-	4		
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED.	10 155	1 142	9 013	1 862	1 841	934	4 376		
NO HEATING EQUIPMENT.	3	-	3	1	-	-	2		
WITH HEATING EQUIPMENT.	10 152	1 142	9 011	1 861	1 841	934	4 374		
NO THERMOSTAT CONTROL	513	26	487	74	71	38	303		
WITH THERMOSTAT CONTROL	9 614	1 111	8 503	1 783	1 766	895	4 059		
NOT CLOCK OPERATED.	8 254	1 013	7 241	1 566	1 532	764	3 378		
CONSTANT TEMPERATURE SETTING MAINTAINED	2 531	281	2 250	428	426	245	1 150		
TEMPERATURE SETTING IS CHANGED.	5 679	722	4 957	1 132	1 098	513	2 214		
OCCASIONALLY.	1 499	161	1 338	256	309	140	633		
REGULARLY.	4 137	549	3 588	868	788	372	1 560		
DON'T KNOW.	34	9	26	9	1	-	17		
NOT REPORTED.	8	3	5	-	-	-	5		
CLOCK OPERATED.	44	10	34	5	8	7	14		
NOT REPORTED.	1 313	92	1 221	211	226	127	657		
NOT REPORTED.	47	5	42	7	8	3	24		
NOT REPORTED.	24	5	20	3	3	1	12		
RENTER OCCUPIED	6 797	673	6 125	930	570	502	4 123		
NO HEATING EQUIPMENT.	5	-	5	-	1	-	4		
WITH HEATING EQUIPMENT.	6 792	673	6 120	930	569	502	4 119		
NO THERMOSTAT CONTROL	3 588	126	3 462	323	369	351	2 519		
WITH THERMOSTAT CONTROL	3 180	543	2 638	605	200	150	1 682		
NOT CLOCK OPERATED.	2 772	494	2 278	543	174	120	1 441		
CONSTANT TEMPERATURE SETTING MAINTAINED	895	132	763	174	63	30	497		
TEMPERATURE SETTING IS CHANGED.	1 850	354	1 496	368	111	88	929		
OCCASIONALLY.	626	116	510	126	27	23	333		
REGULARLY.	1 201	234	967	237	84	63	583		
DON'T KNOW.	23	4	19	4	-	2	14		
NOT REPORTED.	1	-	1	1	-	-	-		
NOT REPORTED.	27	8	19	2	-	-	-		
CLOCK OPERATED.	387	46	342	57	26	27	231		
NOT REPORTED.	21	3	17	4	-	3	10		
NOT REPORTED.	24	4	20	3	-	-	18		

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

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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				
			1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER	
ALL OCCUPIED HOUSING UNITS	16 952	1 814	15 138	2 792	2 410	1 436	8 499
UNITS OCCUPIED LAST WINTER	14 633	1 372	13 261	2 464	2 231	1 341	7 225
INSUFFICIENT HEAT							
CLOSURE OF ROOMS:							
OWNER OCCUPIED	9 465	913	8 552	1 756	1 757	912	4 126
WITH HEATING EQUIPMENT	9 463	913	8 550	1 756	1 757	912	4 124
NO ROOMS CLOSED	9 087	887	8 200	1 719	1 709	882	3 889
CLOSED CERTAIN ROOMS	303	16	287	26	39	22	200
LIVING ROOM ONLY	7	-	7	-	1	2	5
DINING ROOM ONLY	5	-	5	3	2	1	-
1 OR MORE BEDROOMS ONLY	186	9	177	16	23	17	121
OTHER ROOMS OR COMBINATION OF ROOMS	98	6	91	7	12	3	70
NOT REPORTED	6	-	6	1	2	-	3
NOT REPORTED	74	11	63	11	9	8	35
NO HEATING EQUIPMENT	2	-	2	-	-	-	2
RENTER OCCUPIED	5 168	459	4 709	707	473	429	3 100
WITH HEATING EQUIPMENT	5 163	459	4 704	707	472	429	3 095
NO ROOMS CLOSED	4 798	457	4 341	678	453	405	2 806
CLOSED CERTAIN ROOMS	306	1	305	22	18	17	247
LIVING ROOM ONLY	19	-	19	-	-	2	17
DINING ROOM ONLY	4	-	4	-	-	-	4
1 OR MORE BEDROOMS ONLY	196	1	196	17	17	11	150
OTHER ROOMS OR COMBINATION OF ROOMS	84	-	84	5	1	5	73
NOT REPORTED	3	-	3	-	-	-	3
NOT REPORTED	60	2	58	8	2	7	42
NO HEATING EQUIPMENT	5	-	5	-	1	-	4
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	9 465	913	8 552	1 756	1 757	912	4 126
WITH SPECIFIED HEATING EQUIPMENT ¹	9 322	891	8 431	1 739	1 746	901	4 045
NO ADDITIONAL HEAT SOURCE USED	8 659	836	7 822	1 626	1 633	828	3 735
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	600	45	554	105	104	67	278
NOT REPORTED	63	9	54	8	8	6	32
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	143	22	121	17	12	11	81
RENTER OCCUPIED	5 168	459	4 709	707	473	429	3 100
WITH SPECIFIED HEATING EQUIPMENT ¹	5 085	459	4 625	702	470	427	3 027
NO ADDITIONAL HEAT SOURCE USED	4 172	422	3 750	615	391	342	2 401
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	860	35	825	79	77	78	591
NOT REPORTED	53	2	50	8	2	7	34
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	84	-	84	5	3	2	73
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	9 465	913	8 552	1 756	1 757	912	4 126
WITH SPECIFIED HEATING EQUIPMENT ¹	9 322	891	8 431	1 739	1 746	901	4 045
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	8 033	852	7 181	1 666	1 658	804	3 054
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 199	27	1 172	57	74	89	952
1 ROOM	502	12	490	40	40	41	370
2 ROOMS	315	9	306	8	19	26	253
3 ROOMS OR MORE	383	6	377	10	15	22	330
NOT REPORTED	89	12	77	16	14	8	39
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	143	22	121	17	12	11	81
RENTER OCCUPIED	5 168	459	4 709	707	473	429	3 100
WITH SPECIFIED HEATING EQUIPMENT ¹	5 085	459	4 625	702	470	427	3 027
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	4 350	451	3 899	685	451	384	2 379
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	649	4	645	8	14	35	588
1 ROOM	269	2	268	6	6	17	239
2 ROOMS	163	1	162	3	4	7	148
3 ROOMS OR MORE	218	2	216	-	4	11	201
NOT REPORTED	85	4	81	9	5	8	59
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	84	-	84	5	3	2	73

¹EXCLUDES 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: 1978--CONTINUED

(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	16 952	1 814	15 138	2 792	2 410	1 436	8 499
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED							
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	10 155	1 142	9 013	1 862	1 841	934	4 376
WITH SELECTED HEATING EQUIPMENT ¹	151	32	119	19	10	11	79
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 004	1 110	8 894	1 843	1 831	923	4 297
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	9 430	1 008	8 422	1 726	1 718	879	4 100
SOLAR HEATING EQUIPMENT	515	94	420	98	101	43	179
STOVE, BURNING WOOD OR COAL	1	-	1	-	-	-	1
FIREPLACE, BURNING WOOD OR COAL	290	57	233	57	54	22	101
PORTABLE ELECTRIC HEATER	60	15	45	13	16	5	11
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	82	8	74	14	16	8	36
OTHER	14	4	10	2	4	-	4
NOT REPORTED	63	10	53	12	10	6	24
NOT REPORTED	5	-	5	1	1	2	2
NOT REPORTED	59	8	52	19	12	2	19
RENTER OCCUPIED	6 797	673	6 125	930	570	502	4 123
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	88	1	87	3	3	2	79
WITH SELECTED HEATING EQUIPMENT ¹	6 710	671	6 038	927	567	500	4 044
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 349	655	5 694	901	542	477	3 774
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	320	13	307	18	24	23	243
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	22	1	21	2	2	-	17
FIREPLACE, BURNING WOOD OR COAL	-	-	-	-	-	-	-
PORTABLE ELECTRIC HEATER	252	11	241	13	19	23	186
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	9	-	9	-	-	-	9
OTHER	34	1	33	2	4	-	27
NOT REPORTED	5	-	5	-	-	-	5
NOT REPORTED	40	3	37	9	1	-	28
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED	10 155	1 142	9 013	1 862	1 841	934	4 376
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	307	35	272	29	21	26	196
WITH SELECTED HEATING EQUIPMENT ²	9 847	1 106	8 741	1 833	1 820	909	4 180
LESS THAN 4 YEARS	1 175	452	723	106	136	76	404
4 TO 9 YEARS	1 937	608	1 330	295	190	121	724
10 TO 19 YEARS	2 985	5	2 979	1 257	362	199	1 161
20 TO 39 YEARS	2 587	1	2 586	63	1 017	404	1 102
40 YEARS OR MORE	292	-	292	3	3	20	266
DON'T KNOW	588	13	575	46	74	72	383
NOT REPORTED	283	27	256	64	38	16	139
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED	10 155	1 142	9 013	1 862	1 841	934	4 376
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	307	35	272	29	21	26	196
WITH SELECTED HEATING EQUIPMENT ²	9 847	1 106	8 741	1 833	1 820	909	4 180
NO MAINTENANCE OR MODIFICATION	6 294	800	5 494	1 186	1 103	586	2 619
WITH MAINTENANCE OR MODIFICATION	3 260	272	2 988	579	673	308	1 427
NOT REPORTED	294	34	259	68	44	14	134
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED	10 155	1 142	9 013	1 862	1 841	934	4 376
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	307	35	272	29	21	26	196
WITH SELECTED HEATING EQUIPMENT ²	9 847	1 106	8 741	1 833	1 820	909	4 180
NO MAINTENANCE CONTRACT	6 625	819	5 805	1 335	1 172	578	2 721
WITH MAINTENANCE CONTRACT	2 904	253	2 651	422	606	312	1 311
NOT REPORTED	319	34	285	75	43	19	147

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED

(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	MARCH 1970	1960 TO	1950 TO		
ALL OCCUPIED HOUSING UNITS--CONTINUED								
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT								
OWNER OCCUPIED	10 155	1 142	9 013	1 862	1 841	934		
NO HOT PIPED WATER	34	8	26	2	2	4		
WITH HOT PIPED WATER	10 121	1 134	8 987	1 860	1 838	930		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	9 899	1 119	8 780	1 825	1 797	905		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	38	5	32	4	11	2		
NOT REPORTED	184	9	175	31	31	24		
NOT REPORTED	-	-	-	-	-	89		
RENTER OCCUPIED	6 797	673	6 125	930	570	502		
NO HOT PIPED WATER	28	1	27	1	-	1		
WITH HOT PIPED WATER	6 769	671	6 098	929	570	501		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 575	649	5 925	910	560	476		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	19	5	14	1	3	2		
NOT REPORTED	174	17	157	19	8	23		
NOT REPORTED	-	-	-	-	-	-		
AIR CONDITIONING								
OWNER OCCUPIED	10 155	1 142	9 013	1 862	1 841	934		
WITH AIR CONDITIONING	4 745	522	4 223	1 005	1 073	481		
ROOM UNITS	3 880	278	3 602	683	890	433		
1	2 054	170	1 883	391	432	219		
2	1 181	84	1 097	199	277	130		
3	406	14	392	62	113	44		
4	171	8	163	23	38	35		
5 OR MORE	68	2	66	7	31	6		
CENTRAL SYSTEM	865	245	620	322	184	47		
WITH NO AIR CONDITIONING	5 410	619	4 790	857	767	454		
RENTER OCCUPIED	6 797	673	6 125	930	570	502		
WITH AIR CONDITIONING	2 405	408	1 997	578	246	180		
ROOM UNITS	2 073	214	1 859	479	232	180		
1	1 421	128	1 293	292	139	124		
2	554	70	484	159	80	40		
3	87	14	72	25	11	15		
4	7	2	6	2	3	-		
5 OR MORE	5	-	5	2	-	3		
CENTRAL SYSTEM	332	194	138	99	13	1		
WITH NO AIR CONDITIONING	4 393	265	4 128	352	324	321		
ALL OCCUPIED HOUSING UNITS	16 952	1 814	15 138	2 792	2 410	1 436		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS								
9 820	1 112	8 708	1 794	1 814	958	4 142		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING								
OWNER OCCUPIED	8 800	1 042	7 758	1 679	1 715	871		
ALL WINDOWS COVERED	7 154	954	6 200	1 493	1 473	720		
SOME WINDOWS COVERED	1 202	43	1 159	116	170	106		
NO WINDOWS COVERED	404	42	362	64	68	41		
NOT REPORTED	40	4	36	6	3	3		
RENTER OCCUPIED	1 019	69	950	115	99	87		
ALL WINDOWS COVERED	545	46	500	67	60	46		
SOME WINDOWS COVERED	234	8	225	20	18	22		
NO WINDOWS COVERED	192	11	182	21	17	14		
NOT REPORTED	48	5	43	7	4	4		
STORM DOORS								
OWNER OCCUPIED	8 800	1 042	7 758	1 679	1 715	871		
ALL DOORS COVERED	6 989	661	6 328	1 386	1 548	766		
SOME DOORS COVERED	1 155	203	953	186	110	66		
NO DOORS COVERED	619	175	445	101	55	35		
NOT REPORTED	36	4	32	6	2	3		
RENTER OCCUPIED	1 019	69	950	115	99	87		
ALL DOORS COVERED	575	32	543	62	74	64		
SOME DOORS COVERED	162	17	145	8	6	11		
NO DOORS COVERED	232	16	216	39	16	7		
NOT REPORTED	50	5	46	7	4	4		

¹LIMITED 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: 1978--CONTINUED

(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	MARCH 1970	1960 TO	1950 TO	1940 TO 1949		
ALL OCCUPIED HOUSING UNITS--CONTINUED									
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED									
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED.		8 800	1 042	7 758	1 679	1 715	871	3 493	
YES		7 136	993	6 143	1 556	1 570	735	2 282	
NO.		1 280	23	1 257	65	98	102	991	
DON'T KNOW.		336	23	313	49	45	25	194	
NOT REPORTED.		48	4	45	9	2	8	26	
RENTER OCCUPIED		1 019	69	950	115	99	87	649	
YES		479	41	438	68	70	48	251	
NO.		268	4	265	16	8	16	225	
DON'T KNOW.		223	20	203	22	17	19	145	
NOT REPORTED.		49	5	45	9	4	4	28	
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED.		8 800	1 042	7 758	1 679	1 715	871	3 493	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS									
NO WINDOWS COVERED.		404	42	362	64	68	41	189	
SOME OR ALL WINDOWS COVERED		8 356	997	7 359	1 609	1 644	826	3 280	
NONE ADDED OR INSTALLED		7 413	849	6 564	1 470	1 481	752	2 861	
SOME OR ALL ADDED OR INSTALLED.		875	142	733	121	152	72	388	
NOT REPORTED.		69	6	62	18	11	3	31	
NOT REPORTED.		40	4	36	6	3	3	23	
STORM DOORS:									
NO DOORS COVERED.		619	175	445	101	55	35	254	
SOME OR ALL DOORS COVERED		8 145	864	7 281	1 572	1 658	832	3 218	
NONE ADDED OR INSTALLED		7 415	740	6 675	1 457	1 516	781	2 921	
SOME OR ALL ADDED OR INSTALLED.		577	108	468	88	117	42	221	
NOT REPORTED.		153	16	137	27	24	9	77	
NOT REPORTED.		36	4	32	6	2	3	21	
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION		1 280	23	1 257	65	98	102	991	
WITH ATTIC OR ROOF INSULATION		7 136	993	6 143	1 556	1 570	735	2 282	
NONE ADDED OR INSTALLED		6 258	848	5 410	1 391	1 378	652	1 989	
SOME OR ALL ADDED OR INSTALLED.		739	122	617	128	169	69	251	
LESS THAN 3 INCHES ADDED.		45	12	33	9	10	2	12	
3 TO 6 INCHES ADDED.		333	45	289	60	80	39	110	
6 INCHES OR MORE ADDED.		272	46	226	47	64	20	96	
DON'T KNOW.		60	13	47	7	10	4	25	
NOT REPORTED.		28	6	23	6	5	3	8	
NOT REPORTED.		139	22	116	37	23	15	43	
DON'T KNOW.		336	23	313	49	45	25	194	
NOT REPORTED.		48	4	45	9	2	8	26	
WALL INSULATION:									
NONE ADDED OR INSTALLED		8 081	927	7 153	1 577	1 610	799	3 167	
SOME OR ALL ADDED OR INSTALLED.		668	110	558	95	99	65	300	
NOT REPORTED.		51	5	46	7	7	6	27	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:									
NONE ADDED OR INSTALLED		6 298	755	5 543	1 231	1 209	628	2 474	
SOME OR ALL ADDED OR INSTALLED.		2 394	277	2 117	430	494	232	960	
DON'T KNOW.		70	7	63	13	8	4	38	
NOT REPORTED.		38	3	35	4	4	6	21	
OTHER INSULATION:									
NONE ADDED OR INSTALLED		8 237	931	7 306	1 593	1 630	823	3 259	
SOME OR ALL ADDED OR INSTALLED.		508	108	400	82	77	39	202	
NOT REPORTED.		56	4	52	4	7	8	32	

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 019	69	950	115	99	87	649		
NO WINDOWS COVERED	192	11	182	21	17	14	128		
SOME OR ALL WINDOWS COVERED	779	54	725	87	78	68	492		
NONE ADDED OR INSTALLED	661	46	615	78	67	62	408		
SOME OR ALL ADDED OR INSTALLED	103	7	96	8	9	5	75		
NOT REPORTED	15	2	14	-	2	2	10		
NOT REPORTED	48	5	43	7	4	4	28		
STORM DOORS:									
NO DOORS COVERED	232	16	216	39	16	7	154		
SOME OR ALL DOORS COVERED	737	49	688	69	79	75	464		
NONE ADDED OR INSTALLED	661	42	619	64	73	66	416		
SOME OR ALL ADDED OR INSTALLED	41	6	35	1	4	4	26		
NOT REPORTED	34	1	34	5	2	5	21		
NOT REPORTED	50	5	46	7	4	4	31		
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION	268	4	265	16	8	16	225		
WITH ATTIC OR ROOF INSULATION	479	41	438	68	70	48	251		
NONE ADDED OR INSTALLED	412	34	378	59	62	45	213		
SOME OR ALL ADDED OR INSTALLED	48	6	42	6	7	3	25		
LESS THAN 3 INCHES ADDED	1	-	1	-	-	-	1		
3 TO 6 INCHES ADDED	6	-	6	1	2	-	4		
6 INCHES OR MORE ADDED	17	2	15	3	3	2	6		
DON'T KNOW	20	4	16	2	2	2	10		
NOT REPORTED	4	-	4	-	-	-	4		
NOT REPORTED	19	1	18	3	2	-	13		
DON'T KNOW	223	20	203	22	17	19	145		
NOT REPORTED	49	5	45	9	4	4	28		
WALL INSULATION:									
NONE ADDED OR INSTALLED	922	57	865	102	90	81	592		
SOME OR ALL ADDED OR INSTALLED	37	4	33	5	4	1	23		
NOT REPORTED	60	8	52	9	5	5	33		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:									
NONE ADDED OR INSTALLED	738	53	684	84	66	62	472		
SOME OR ALL ADDED OR INSTALLED	180	6	174	15	25	13	121		
DON'T KNOW	54	6	48	9	4	8	27		
NOT REPORTED	48	5	43	7	4	4	28		
OTHER INSULATION:									
NONE ADDED OR INSTALLED	927	60	867	100	93	77	596		
SOME OR ALL ADDED OR INSTALLED	31	2	30	5	2	5	17		
NOT REPORTED	61	8	53	10	4	5	35		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED	8 800	1 042	7 758	1 679	1 715	871	3 493		
NO INSULATION ADDED OR INSTALLED	5 110	572	4 537	998	997	532	2 010		
WITH INSULATION ADDED OR INSTALLED	3 393	432	2 961	618	676	313	1 355		
LESS THAN \$50	1 419	165	1 254	299	279	117	559		
\$50 TO \$99	345	36	308	62	70	39	138		
\$100 TO \$199	367	49	318	80	68	23	147		
\$200 TO \$399	337	49	288	56	75	28	129		
\$400 OR MORE	514	80	434	55	111	48	219		
DON'T KNOW	172	26	146	20	29	29	68		
NOT REPORTED	240	26	214	46	44	29	95		
MEDIAN	60	84	57	50-	65	63	63		
NOT REPORTED OR DON'T KNOW	297	38	259	63	42	26	127		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
LESS THAN \$50	245	27	218	40	44	17	117		
\$50 TO \$99	86	13	73	15	19	4	35		
\$100 TO \$199	28	1	27	8	2	3	14		
\$200 TO \$399	31	2	29	5	2	3	20		
\$400 OR MORE	26	6	20	1	6	3	11		
DON'T KNOW	28	3	25	2	5	3	15		
NOT REPORTED	14	1	13	2	3	-	7		
MEDIAN	31	2	30	7	7	2	2		
NOT REPORTED OR DON'T KNOW	74	...	76	...	...	...	94

TABLE B-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$50	171	27	144	39	26	13	65		
\$50 TO \$99.	6	2	4	-	-	1	3		
\$100 TO \$199.	53	10	43	8	11	3	21		
\$200 TO \$399.	54	9	45	19	9	3	15		
\$400 OR MORE.	21	2	19	3	3	-	13		
DON'T KNOW.	9	-	9	3	2	-	4		
NOT REPORTED.	6	1	5	2	2	2	-		
MEDIAN.	23	4	19	3	1	5	9		
	123	...	128	...	...	...	124
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION									
LESS THAN \$50	404	54	350	89	77	39	145		
\$50 TO \$99.	67	13	53	13	8	2	30		
\$100 TO \$199.	70	7	63	17	12	13	21		
\$200 TO \$399.	67	7	61	16	17	7	20		
\$400 OR MORE.	66	11	55	17	15	3	20		
DON'T KNOW.	66	5	61	11	16	3	31		
NOT REPORTED.	26	8	18	4	1	6	8		
MEDIAN.	43	4	39	11	8	5	15		
	146	114	150	143	161	...	148		

TABLE B-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978
(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												MEDIAN (DOL- LARS) ¹
		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 ELEC- TRICITY USED OR NOT REPORTED ²		
SPECIFIED OWNER OCCUPIED ³	7 980	89	1 078	2 093	1 848	1 082	723	596	226	192	48	5	38	
HOUSE HEATING FUEL														
ELECTRICITY	416	4	11	22	34	35	30	91	86	84	18	-	75	
OTHER THAN ELECTRICITY	7 563	86	1 067	2 071	1 813	1 047	693	505	140	108	30	5	33	
UTILITY GAS	3 300	41	510	946	785	413	282	198	53	58	12	2	32	
BOTTLED, TANK, OR LP GAS	53	1	11	21	7	7	5	2	1	-	-	-	27	
FUEL OIL	4 037	37	512	1 057	986	601	397	295	84	50	18	-	38	
KEROSENE, ETC.	37	2	11	8	4	2	1	-	-	-	-	-	26	
COAL OR COKE	84	6	14	26	15	12	5	7	-	-	-	2	27	
WOOD	52	-	10	13	13	9	3	2	1	-	-	1	32	
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	-	
NONE	1	-	-	-	1	-	-	-	-	-	-	-	-	
WATER HEATING FUEL ⁴														
ELECTRICITY	1 598	4	90	285	332	261	169	210	117	106	24	5	43	
OTHER FUEL	6 362	82	981	1 802	1 515	821	554	385	109	86	23	5	32	
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-	
COOKING FUEL														
ELECTRICITY	4 108	13	328	974	1 009	613	437	395	155	148	36	5	37	
OTHER FUEL	3 872	76	750	1 119	839	468	286	201	71	45	12	5	29	
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-	
ALL ELECTRIC HOUSING UNITS														
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	355	-	4	12	15	28	27	85	85	82	16	5	81	
ALL OTHER FUEL COMBINATIONS OR NONE	7 625	90	1 073	2 081	1 832	1 054	696	510	141	110	32	5	33	
HEATING EQUIPMENT														
WARM-AIR FURNACE	3 585	32	477	1 013	827	519	314	262	64	59	17	-	33	
HEAT PUMP	31	-	3	5	3	2	2	-	4	10	2	-	33	
STEAM OR HOT WATER	3 763	40	514	991	945	513	370	243	83	52	14	-	33	
BUILT-IN ELECTRIC UNITS	335	4	5	13	19	28	27	80	75	69	15	-	77	
FLOOR, WALL, OR PIPELESS FURNACE	89	3	29	25	23	6	3	-	1	-	-	1	19	
ROOM HEATERS WITH FLUE	87	7	37	25	7	5	5	-	-	-	-	-	32	
ROOM HEATERS WITHOUT FLUE	3	1	1	2	-	-	-	-	-	-	-	-	32	
FIREPLACES, STOVES, OR PORTABLE HEATERS	86	3	13	20	22	13	5	3	1	2	-	5	32	
NONE	1	-	-	-	1	-	-	-	-	-	-	-	-	
THERMOSTAT CONTROLLED HEATING EQUIPMENT														
NO HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	-	-	
WITH HEATING EQUIPMENT	7 979	89	1 078	2 093	1 847	1 082	723	596	226	192	48	5	34	
NO THERMOSTAT CONTROL	152	16	39	42	23	11	9	6	1	1	1	5	24	
WITH THERMOSTAT CONTROL	7 808	72	1 036	2 047	1 821	1 066	714	589	225	191	47	-	34	
NOT CLOCK OPERATED	6 780	66	929	1 859	1 580	903	578	498	180	152	33	-	33	
CONSTANT TEMPERATURE SETTING MAINTAINED	2 079	23	323	535	502	291	173	128	52	47	4	-	33	
TEMPERATURE SETTING IS CHANGED	4 672	43	603	1 318	1 066	607	405	367	128	105	29	-	33	
OCCASIONALLY	1 184	16	155	305	267	164	93	79	34	26	5	-	33	
REGULARLY	3 458	26	445	966	794	434	313	288	92	78	24	-	33	
DON'T KNOW	22	2	2	4	5	6	-	-	2	1	-	-	33	
NOT REPORTED	8	-	2	3	-	2	-	-	-	-	-	-	-	
CLOCK OPERATED	29	-	3	6	12	5	-	3	-	-	-	-	-	
NOT REPORTED	986	4	98	178	233	157	133	91	45	36	10	-	38	
NOT REPORTED	43	2	9	9	8	6	2	-	3	3	3	1	31	
NOT REPORTED	20	2	3	4	3	4	-	1	-	-	-	-	1	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	87	3	13	20	23	13	5	3	1	2	-	5	32	
WITH SELECTED HEATING EQUIPMENT ⁵	7 893	87	1 065	2 073	1 825	1 069	717	593	225	191	48	5	34	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 406	82	1 017	1 944	1 698	996	688	548	209	178	45	-	33	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	440	3	41	110	118	68	27	40	16	13	3	-	35	
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-	
STOVE, BURNING WOOD OR COAL	250	1	25	61	67	35	13	26	11	9	1	-	35	
FIREPLACE, BURNING WOOD OR COAL	54	-	3	9	18	10	3	6	-	1	-	-	37	
PORTABLE ELECTRIC HEATER	69	2	8	22	19	8	9	-	-	-	-	-	31	
ROOM HEATER WITHOUT FLUE OR VENT	-	-	-	-	-	-	-	-	-	-	-	-	-	
BURNING GAS, OIL, OR KEROSENE	11	-	-	4	3	4	-	-	-	-	-	-	-	
OTHER	52	-	5	12	10	10	3	8	3	1	-	-	38	
NOT REPORTED	4	-	-	2	2	-	-	-	-	-	-	-	27	
NOT REPORTED	47	2	7	19	9	4	2	4	-	-	-	-	-	
AGE OF HEATING EQUIPMENT														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	177	10	51	47	30	14	10	8	1	2	-	5	25	
WITH SELECTED HEATING EQUIPMENT ³	7 803	79	1 027	2 086	1 818	1 068	712	588	225	191	48	-	34	
LESS THAN 4 YEARS	910	5	101	252	204	114	78	87	31	27	10	-	34	
4 TO 9 YEARS	1 459	12	141	333	358	184	157	132	52	79	11	-	36	
10 TO 19 YEARS	2 484	27	301	630	619	364	214	187	77	51	13	-	34	
20 TO 39 YEARS	2 223	23	368	629	490	316	209	140	49	30	8	-	32	
40 YEARS OR MORE	235	5	38	60	62	27	20	12	9	-	2	-	32	
DON'T KNOW	400	4	65	110	103	55	31	22	5	3	2	-	32	
NOT REPORTED	93	3	12	33	21	7	3	8	3	2	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 B-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978--CONTINUED
(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												MEDIAN (DOL- LARS)	
		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 ELEC- TRICITY USED OR NOT REPORTED ¹			
SPECIFIED OWNER OCCUPIED²--CONTINUED															
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	177	10	51	47	30	14	10	8	1	2	-	5	25		
WITH SELECTED HEATING EQUIPMENT ³ .	7 803	79	1 027	2 046	1 818	1 068	712	588	225	191	48	34	34		
NO MAINTENANCE OR MODIFICATION.	5 078	52	631	1 325	1 179	678	460	414	158	149	32	34	33		
WITH MAINTENANCE OR MODIFICATION.	2 636	24	380	694	618	582	247	168	65	42	16	-	28		
NOT REPORTED.	88	3	16	27	20	8	6	6	2	-	-	-	-		
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	177	10	51	47	30	14	10	8	1	2	-	5	25		
WITH SELECTED HEATING EQUIPMENT ³ .	7 803	79	1 027	2 046	1 818	1 068	712	588	225	191	48	34	34		
NO MAINTENANCE CONTRACT.	5 365	54	727	1 494	1 238	697	432	385	154	152	33	33	36		
WITH MAINTENANCE CONTRACT.	2 328	22	283	512	557	360	277	195	68	38	15	-	28		
NOT REPORTED.	110	3	17	41	23	11	3	8	2	1	-	-	-		
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT															
NO HOT PIPED WATER.	19	3	7	5	2	-	-	-	-	-	-	2	34		
WITH HOT PIPED WATER.	7 960	86	1 071	2 068	1 846	1 082	723	596	226	192	48	33	34		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	7 797	79	1 047	2 044	1 816	1 055	710	587	226	187	44	2	34		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	33	1	4	12	8	2	-	4	-	2	-	-	-		
NOT REPORTED.	131	6	19	32	23	24	13	5	-	3	4	1	33		
AIR CONDITIONING															
WITH AIR CONDITIONING	3 793	14	323	879	887	596	427	360	138	138	32	-	37		
ROOM UNITS.	3 101	12	306	801	743	477	328	259	86	76	12	-	35		
1	1 595	9	201	467	411	226	120	96	29	30	5	-	33		
2	959	3	76	235	220	144	116	99	38	27	2	-	37		
3	342	-	23	74	61	56	30	10	14	5	-	-	42		
4	144	-	5	20	37	34	22	17	3	4	-	-	42		
5 OR MORE	60	-	-	5	13	4	14	17	5	2	-	-	55		
CENTRAL SYSTEM.	692	2	17	77	143	119	99	101	51	61	20	-	48		
WITH NO AIR CONDITIONING.	4 187	76	755	1 214	961	486	295	236	88	54	16	-	5	30	
PERSONS															
1 PERSON.	900	57	343	306	106	40	21	18	5	2	1	-	21		
2 PERSONS	2 320	22	448	787	509	218	138	113	48	25	10	-	28		
3 PERSONS	1 496	5	155	408	375	210	140	107	45	44	7	-	34		
4 PERSONS	1 614	3	87	341	393	298	188	167	57	64	14	-	39		
5 PERSONS	955	2	27	155	250	175	145	120	42	31	7	-	42		
6 PERSONS	449	-	14	75	131	83	61	50	16	13	6	-	40		
7 PERSONS OR MORE	246	-	4	21	83	58	30	20	13	13	3	-	42		
MEDIAN.	3.0	1.5-	1.9	2.4	3.3	3.7	3.8	3.8	3.8	3.9	3.9	-	3.9		
SPECIFIED OWNER OCCUPIED²															
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 980	89	1 078	2 093	1 848	1 082	723	596	226	192	48	5	34		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	7 980	89	1 078	2 093	1 848	1 062	723	596	226	192	48	5	34		
ALL WINDOWS COVERED	6 506	61	863	1 707	1 473	879	601	506	203	167	42	5	34		
SOME WINDOWS COVERED.	1 076	17	157	279	284	146	89	63	16	18	5	1	33		
NO WINDOWS COVERED.	366	9	54	96	81	54	33	24	7	8	1	-	33		
NOT REPORTED.	33	2	4	11	10	3	1	2	-	-	-	-	33		
STORM DOORS															
ALL DOORS COVERED	6 494	66	911	1 727	1 500	867	600	472	177	140	31	3	33		
SOME DOORS COVERED.	990	17	115	263	225	141	82	74	29	38	4	2	34		
NO DOORS COVERED.	468	5	47	93	117	70	39	49	20	15	12	1	37		
NOT REPORTED.	28	2	4	10	6	3	1	2	-	-	-	-	33		
ATTIC OR ROOF INSULATION															
YES	6 498	45	734	1 682	1 520	910	650	529	203	179	42	3	35		
NO.	1 148	39	289	309	254	134	46	47	16	8	4	2	27		
DON'T KNOW.	294	4	50	67	68	33	21	17	7	5	2	-	31		
NOT REPORTED.	40	2	5	15	6	5	5	3	-	-	-	-	28		
SPECIFIED RENTER OCCUPIED³															
HOUSE HEATING FUEL	6 744	450	1 962	1 476	708	215	159	66	20	12	16	1 601	21		
ELECTRICITY	844	12	39	67	62	45	37	20	8	5	9	-	180	35	
OTHER THAN ELECTRICITY.	6 295	438	1 920	1 409	646	170	122	86	11	8	7	1 519	20		
UTILITY GAS	2 286	171	762	473	223	52	44	13	6	3	5	534	18		
BOTTLED, TANK, OR LP GAS	38	3	11	10	5	-	-	1	-	-	-	8	21		
FUEL OIL.	3 869	251	1 110	914	399	113	75	52	5	4	2	963	21		
KEROSENE, ETC	37	5	16	6	6	-	1	1	-	-	-	3	21		
COAL OR COKE	36	3	13	4	8	2	1	1	-	-	-	6	21		
WOOD.	18	4	3	2	3	1	1	1	-	-	-	3	21		
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-	-	-	3	21	
OTHER FUEL.	12	2	5	-	2	2	-	-	-	-	-	2	21		
NONE.	5	-	3	-	-	-	-	-	-	-	-	2	21		

¹RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

⁴LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

⁵EXCLUDES 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: 1978--CONTINUED
(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												NO ELECT- RICITY USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)			
		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							
SPECIFIED RENTER OCCUPIED²--CONTINUED																		
WATER HEATING FUEL³																		
ELECTRICITY	802	33	103	157	143	62	47	33	11	5	9	199	31					
OTHER FUEL	5 914	411	1 856	1 317	561	152	112	33	9	7	7	1 449	19					
NONE.	2	-	-	2	-	-	-	-	-	-	-	-	-		***			
COOKING FUEL																		
ELECTRICITY	1 651	111	384	309	213	68	72	41	13	10	12	419	24					
OTHER FUEL.	5 024	340	1 576	1 164	495	147	87	25	7	2	4	1 178	20					
NONE.	69	-	2	3	-	-	-	-	-	-	-	64	***					
ALL ELECTRIC HOUSING UNITS																		
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL.	326	10	19	52	45	31	26	18	8	6	9	104	36					
ALL OTHER FUEL COMBINATIONS OR NONE	6 418	440	1 942	1 424	663	183	134	48	11	9	7	1 556	20					
HEATING EQUIPMENT																		
WARM-AIR FURNACE.	1 460	90	414	345	174	58	48	22	9	6	6	295	22					
HEAT PUMP	18	-	7	7	1	3	-	-	-	-	-	-	-					
STEAM OR HOT WATER.	4 419	269	1 338	967	428	99	72	22	2	8	5	1 192	19					
BUILT-IN ELECTRIC UNITS	371	10	28	53	33	37	30	18	8	4	9	122	36					
FLOOR, WALL, OR PIPELESS FURNACE	37	2	8	10	12	1	-	-	-	-	-	3	11					
ROOM HEATERS WITH FLUE.	335	40	127	78	26	15	8	2	-	-	-	39	18					
ROOM HEATERS WITHOUT FLUE	28	3	12	5	6	-	-	-	-	-	-	1	1					
FIREPLACES, STOVES, OR PORTABLE HEATERS	71	16	25	12	8	3	1	-	-	-	-	6	16					
NONE.	5	-	3	-	-	-	-	-	-	-	-	2	***					
THERMOSTAT CONTROLLED HEATING EQUIPMENT																		
NO HEATING EQUIPMENT.	5	-	3	-	-	-	-	-	-	-	-	2	***					
WITH HEATING EQUIPMENT.	6 739	450	1 959	1 476	708	215	159	66	20	12	16	1 658	21					
NO THERMOSTAT CONTROL	3 576	256	1 045	756	305	74	60	11	2	-	3	1 066	19					
WITH THERMOSTAT CONTROL	3 181	193	906	714	403	141	99	56	18	12	13	586	22					
NOT CLOCK OPERATED.	2 736	173	791	631	354	120	87	49	16	11	12	492	22					
CONSTANT TEMPERATURE SETTING MAINTAINED	883	62	247	202	99	36	25	11	4	5	-	192	22					
TEMPERATURE SETTING IS CHANGED	1 825	110	532	425	251	82	62	38	12	6	12	296	23					
OCCASIONALLY	617	49	185	130	80	26	23	13	2	1	3	106	22					
REGULARLY	1 184	58	393	292	169	53	38	24	10	5	8	184	23					
DON'T KNOW	23	3	3	3	1	3	1	-	-	-	-	7	***					
NOT REPORTED	1	-	-	-	-	-	-	-	-	-	-	-	-					
NOT REPORTED.	27	2	12	4	4	2	-	-	-	-	-	3	***					
CLOCK OPERATED.	385	20	113	75	46	20	12	7	2	2	2	68	22					
NOT REPORTED.	20	-	3	7	3	1	-	-	-	-	-	6	***					
NOT REPORTED.	22	2	8	6	-	-	-	-	-	-	-	6	***					
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	76	16	27	12	8	3	1	-	-	-	-	8	16					
WITH SELECTED HEATING EQUIPMENT*.	6 668	434	1 934	1 464	700	212	158	66	20	12	16	1 652	21					
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	6 312	412	1 834	1 371	664	206	147	65	18	12	16	1 567	21					
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	316	20	90	81	32	6	10	2	1	-	-	75	21					
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-					
STOVE, BURNING WOOD OR COAL	19	-	5	5	4	2	-	-	-	-	-	3	***					
FIREPLACE, BURNING WOOD OR COAL	-	-	-	-	-	-	-	-	-	-	-	-	-					
PORTABLE ELECTRIC HEATER.	251	16	71	63	23	2	10	2	-	-	-	63	21					
ROOM HEATER WITHOUT FLUE OR VENT BURNING GAS, OIL, OR KEROSENE.	9	2	2	4	-	-	-	-	-	-	-	2	***					
OTHER	34	2	14	8	4	-	-	-	-	-	-	5	***					
NOT REPORTED.	5	-	-	2	12	4	1	-	-	-	-	2	***					
NOT REPORTED.	40	2	11	12	4	-	-	-	-	-	-	10	***					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																		
NO HOT PIPED WATER.	25	6	3	2	2	1	1	-	-	-	-	12	***					
WITH HOT PIPED WATER.	6 718	444	1 959	1 475	706	214	159	66	20	12	16	1 648	21					
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 526	432	1 906	1 429	682	210	155	64	20	9	16	1 602	21					
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT*.	19	2	5	4	1	-	-	-	-	-	-	5	***					
NOT REPORTED.	172	11	48	42	22	3	3	2	2	2	2	41	22					
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-	-					
AIR CONDITIONING																		
WITH AIR CONDITIONING	2 401	120	724	596	341	102	82	24	11	6	10	386	22					
ROOM UNITS.	2 071	113	647	521	291	88	56	16	8	2	2	326	22					
1	1 418	100	488	339	172	48	24	10	5	-	-	231	20					
2	554	13	136	154	99	31	26	6	3	2	2	84	25					
3	87	-	20	24	19	10	7	-	-	-	-	7	27					
4	7	-	3	2	1	-	-	-	-	-	-	2	***					
5 OR MORE	5	-	-	2	-	-	-	-	-	-	-	3	***					
CENTRAL SYSTEM.	331	6	77	76	50	14	25	8	3	4	5	59	26					
WITH NO AIR CONDITIONING.	4 392	331	1 238	880	367	112	77	42	8	7	6	1 275	19					
PERSONS																		
1 PERSON.	2 472	305	831	374	116	26	19	10	-	-	4	787	16					
2 PERSONS	1 993	98	658	507	210	62	43	7	6	2	2	398	21					
3 PERSONS	1 086	28	269	293	171	48	38	11	5	2	2	219	24					
4 PERSONS	651	15	143	163	117	39	28	15	5	1	5	122	26					
5 PERSONS	302	3	40	72	56	15	21	-	-	-	-	73	30					
6 PERSONS	131	-	14	41	20	16	7	5	2	-	-	27	28					
7 PERSONS OR MORE	109	2	7	26	18	9	3	7	2	-	-	35	31					
MEDIAN.	1.9	1.5-	1.7	2.2	2.7	2.9	3.0	3.9	...	...	...	1.6	...	...		

*RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

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

²LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.

³EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

⁴LIMITED 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: 1978--CONTINUED
(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												NO ELECT- RICITY USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)
		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				
SPECIFIED RENTER OCCUPIED ²	6 744	450	1 962	1 476	708	215	159	66	20	12	16	1 661	21		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	966	34	216	246	168	58	56	32	10	8	2	136	26		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING															
ALL WINDOWS COVERED	521	13	111	126	94	38	26	20	7	7	2	78	27		
SOME WINDOWS COVERED	219	7	54	52	36	12	18	10	-	2	-	28	26		
NO WINDOWS COVERED	179	11	44	55	35	5	9	1	2	-	-	18	24		
NOT REPORTED	46	3	7	13	4	3	3	1	1	-	-	11	25		
STORM DOORS															
ALL DOORS COVERED	554	14	119	133	112	34	27	19	5	5	2	84	27		
SOME DOORS COVERED	148	5	41	32	21	6	11	5	3	-	-	22	25		
NO DOORS COVERED	216	11	48	67	31	15	16	6	-	3	-	18	25		
NOT REPORTED	49	3	7	15	4	3	5	1	1	-	-	11	25		
ATTIC OR ROOF INSULATION															
YES	450	10	81	103	94	34	36	20	3	5	2	62	29		
NO	250	10	71	72	37	15	10	6	3	-	-	26	24		
DON'T KNOW	218	10	55	59	33	6	8	4	3	3	1	36	24		
NOT REPORTED	48	3	9	13	4	3	3	1	1	-	-	11	24		

¹RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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												MEDIAN (DOL- LARS)
		LESS THAN \$10 \$10 TO \$14	\$10 TO \$19	\$15 TO \$24	\$20 TO \$29	\$25 TO \$39	\$30 TO \$49	\$40 TO \$49	\$50 TO \$69	\$70 TO \$69	\$100 OR MORE \$70 TO \$99	NO GAS USED OR NOT REPORTED ¹		
SPECIFIED OWNER OCCUPIED ²	7 980	697	451	324	295	323	797	729	1 045	381	149	2 789	36	
HOUSE HEATING FUEL														
GAS	3 353	63	48	66	136	232	684	658	961	364	140	-	46	
UTILITY GAS	3 300	54	45	65	133	231	680	650	951	357	133	-	46	
BOTTLED, TANK, OR LP GAS	53	9	3	1	3	2	4	9	10	6	7	-	45	
OTHER THAN GAS	4 626	634	403	258	159	90	113	71	84	18	8	2 789	13	
FUEL OIL	4 037	591	370	240	149	85	101	67	74	13	7	2 339	13	
KEROSENE, ETC.	37	6	9	5	2	2	-	-	-	2	-	-	13	
ELECTRICITY	416	16	12	3	2	3	7	3	6	4	1	358	16	
COAL OR COKE	88	14	8	6	7	-	3	-	2	-	-	43	13	
WOOD	52	7	4	3	-	1	2	1	-	-	-	35	13	
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	-	
NONE	1	1	-	-	-	-	-	-	-	-	-	-	...	
WATER HEATING FUEL ³														
GAS	3 900	137	209	216	215	275	726	665	965	359	135	-	42	
UTILITY GAS	3 723	116	179	177	194	264	709	658	949	351	127	-	43	
BOTTLED, TANK, OR LP GAS	176	21	31	39	21	10	17	7	15	7	9	-	19	
OTHER FUEL	4 061	558	237	106	80	46	71	65	81	23	13	2 782	11	
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-	
COOKING FUEL														
GAS	3 842	582	369	259	239	259	546	509	706	272	101	-	38	
UTILITY GAS	3 351	360	281	199	201	245	519	500	685	263	97	-	37	
BOTTLED, TANK, OR LP GAS	491	222	87	60	38	14	27	8	21	10	4	-	11	
OTHER FUEL	4 138	115	82	65	56	64	251	221	339	109	47	2 789	42	
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-	
ALL GAS HOUSING UNITS														
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 233	30	31	34	93	169	454	444	629	255	98	-	46	
ALL OTHER FUEL COMBINATIONS OR NONE	5 747	667	419	290	202	154	343	285	416	126	55	2 789	23	
HEATING EQUIPMENT														
WARM-AIR FURNACE	3 585	187	168	141	143	205	559	472	638	192	64	816	39	
HEAT PUMP	31	1	2	-	2	-	2	2	5	-	-	16	...	
STEAM OR HOT WATER	-	-	-	-	-	-	-	-	-	-	-	-	...	
BUILT-IN ELECTRIC UNITS	3 763	469	260	165	130	97	195	229	389	182	78	1 570	28	
FLOOR, WALL, OR PIPELESS FURNACE	335	12	8	-	2	2	3	-	-	2	1	305	...	
ROOM HEATERS WITH FLUE	89	3	-	4	9	7	21	15	3	3	3	20	35	
ROOM HEATERS WITHOUT FLUE	87	5	8	7	9	10	13	9	9	2	3	12	28	
FIREPLACES, STOVES, OR PORTABLE HEATERS	3	1	-	-	-	-	3	-	-	-	-	-	...	
NONE	86	18	6	5	2	1	2	3	-	-	-	50	10	
1	1	-	-	-	-	-	-	-	-	-	-	-	...	
THERMOSTAT CONTROLLED HEATING EQUIPMENT														
NO HEATING EQUIPMENT	1	1	-	-	-	-	-	-	-	-	-	-	-	
WITH HEATING EQUIPMENT	7 979	696	451	324	295	323	797	729	1 045	381	149	2 789	36	
NO THERMOSTAT CONTROL	152	23	19	14	10	10	15	7	13	1	2	39	20	
WITH THERMOSTAT CONTROL	7 808	667	432	310	284	313	778	722	1 029	380	147	2 746	36	
NOT CLOCK OPERATED	6 780	572	350	253	239	264	688	638	892	296	99	2 487	36	
CONSTANT TEMPERATURE SETTING MAINTAINED	2 079	194	102	84	77	84	238	207	259	69	21	742	35	
TEMPERATURE SETTING IS CHANGED	4 672	375	245	169	162	178	446	428	627	225	78	1 738	37	
OCCASIONALLY	1 184	97	76	46	46	55	187	123	150	62	19	363	35	
REGULARLY	3 458	275	166	122	114	123	298	305	471	162	59	1 364	37	
DON'T KNOW	22	2	2	-	-	-	3	-	3	2	-	10	...	
NOT REPORTED	8	-	2	-	2	-	-	-	-	-	-	2	...	
NOT REPORTED	29	3	4	-	2	2	2	2	7	2	-	8	...	
CLOCK OPERATED	986	86	76	55	43	47	84	83	134	85	48	245	37	
NOT REPORTED	43	9	5	2	2	2	5	1	3	2	-	13	...	
NOT REPORTED	20	6	-	-	2	-	4	-	3	-	-	4	...	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	87	19	6	5	2	1	2	3	-	-	-	50	10	
WITH SELECTED HEATING EQUIPMENT ⁴	7 893	678	445	319	293	322	796	727	1 045	381	149	2 739	36	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 406	637	412	299	284	302	753	694	999	360	142	2 524	36	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	440	32	30	20	7	18	37	31	38	16	7	204	33	
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-	
STOVE, BURNING WOOD OR COAL	250	14	17	12	5	8	11	10	21	6	2	146	27	
FIREPLACE, BURNING WOOD OR COAL	54	9	-	2	-	-	7	7	5	4	3	16	41	
PORTABLE ELECTRIC HEATER	69	3	9	5	1	5	12	4	8	3	2	16	32	
ROOM HEATER WITHOUT FLUE OR VENT	-	-	-	-	-	-	-	-	-	-	-	-	-	
BURNING GAS, OIL, OR KEROSENE	11	1	1	1	-	-	3	-	-	-	-	4	...	
OTHER	52	5	3	3	-	-	2	7	5	3	-	18	...	
NOT REPORTED	4	-	-	-	-	-	2	-	-	-	-	3	...	
NOT REPORTED	47	9	4	-	2	2	5	1	8	5	-	11	33	
AGE OF HEATING EQUIPMENT														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	177	25	14	13	11	10	17	12	9	2	3	62	22	
WITH SELECTED HEATING EQUIPMENT ⁵	7 803	672	437	312	284	312	780	718	1 036	380	146	2 727	36	
LESS THAN 4 YEARS	910	69	51	24	19	25	92	50	75	33	18	452	34	
4 TO 9 YEARS	1 459	104	60	44	38	55	158	116	228	71	36	550	39	
10 TO 19 YEARS	2 484	170	88	93	79	75	277	283	391	163	49	817	42	
20 TO 39 YEARS	2 223	241	166	92	113	111	187	198	256	81	30	748	31	
40 YEARS OR MORE	235	42	34	18	10	10	22	20	20	7	3	49	19	
DON'T KNOW	400	38	38	33	22	29	31	45	53	21	8	82	29	
NOT REPORTED	93	7	2	7	2	6	13	6	13	3	2	29	34	

¹ RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.² LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.³ LIMITED TO HOUSING UNITS WITH 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: 1978--CONTINUED
(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)			
		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							
SPECIFIED OWNER OCCUPIED²--CONTINUED																		
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS																		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	177	25	14	13	11	10	17	12	9	2	3	62	22					
WITH SELECTED HEATING EQUIPMENT ³	7 803	672	437	312	284	312	780	718	1 036	380	146	2 727	36					
NO MAINTENANCE OR MODIFICATION	5 078	376	247	192	203	226	577	536	771	284	100	1 566	38					
WITH MAINTENANCE OR MODIFICATION	2 636	289	186	113	79	79	188	180	253	94	44	1 132	30					
NOT REPORTED	88	7	3	7	2	8	15	2	12	2	2	29	32					
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT																		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	177	25	14	13	11	10	17	12	9	2	3	62	22					
WITH SELECTED HEATING EQUIPMENT ³	7 803	672	437	312	284	312	780	718	1 036	380	146	2 727	36					
NO MAINTENANCE CONTRACT	5 365	322	218	172	193	252	660	636	877	329	127	1 579	41					
WITH MAINTENANCE CONTRACT	2 328	339	210	130	87	49	105	72	146	49	17	1 121	17					
NOT REPORTED	110	11	8	9	4	11	14	9	13	2	2	27	28					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																		
NO HOT PIPED WATER	19	2	5	2	1	2	-	-	-	-	-	7	2					
WITH HOT PIPED WATER	7 960	695	446	322	294	320	797	729	1 045	381	149	2 782	36					
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 797	676	425	312	284	319	782	709	1 030	375	143	2 742	36					
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	33	3	2	2	2	3	7	2	2	2	2	7	2					
NOT REPORTED	131	16	20	8	9	1	12	13	13	5	3	32	23					
AIR CONDITIONING																		
WITH AIR CONDITIONING	3 793	274	224	156	161	144	361	363	589	222	94	1 205	38					
ROOM UNITS	3 101	261	208	149	137	127	289	274	416	159	55	1 027	35					
1	1 595	115	111	72	77	60	152	146	168	76	23	595	34					
2	959	74	50	35	44	92	80	163	47	15	310	37						
3	342	51	32	14	14	16	30	31	44	20	9	82	31					
4	144	15	11	10	9	7	12	10	26	12	2	29	34					
5 OR MORE	60	5	3	2	-	3	5	5	5	5	5	12	52					
CENTRAL SYSTEM	692	13	15	7	25	17	72	90	173	63	41	178	52					
WITH NO AIR CONDITIONING	4 187	424	227	168	134	179	436	366	456	159	55	1 583	34					
PERSONS																		
1 PERSON	900	146	82	54	39	51	82	70	60	21	9	288	23					
2 PERSONS	2 320	233	141	105	93	95	214	239	288	69	34	809	34					
3 PERSONS	1 496	112	84	65	66	62	168	137	194	65	22	519	35					
4 PERSONS	1 614	99	75	46	40	59	172	145	233	104	30	610	41					
5 PERSONS	955	71	34	24	19	27	87	93	145	69	24	362	43					
6 PERSONS	449	29	24	15	28	20	50	29	80	32	18	125	38					
7 PERSONS OR MORE	246	7	11	14	10	11	23	17	45	21	12	76	45					
MEDIAN	3.0	2.4	2.5	2.5	2.7	2.8	3.1	2.9	3.4	3.8	3.8	3.1	3.1	3.1				
SPECIFIED OWNER OCCUPIED²																		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 980	697	451	324	295	323	797	729	1 045	381	149	2 789	36					
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	7 980	697	451	324	295	323	797	729	1 045	381	149	2 789	36					
ALL WINDOWS COVERED	6 506	547	366	253	231	254	604	594	867	299	118	2 374	36					
SOME WINDOWS COVERED	1 076	117	72	61	55	45	130	87	117	64	20	309	32					
NO WINDOWS COVERED	366	29	13	9	9	20	56	46	56	19	9	98	38					
NOT REPORTED	33	4	-	1	-	4	8	2	5	-	2	8	8					
STORM DOORS																		
ALL DOORS COVERED	6 494	557	355	269	248	272	656	621	849	293	97	2 276	36					
SOME DOORS COVERED	990	83	70	42	36	34	92	77	140	58	28	328	36					
NO DOORS COVERED	468	53	26	13	11	13	43	29	52	29	22	177	36					
NOT REPORTED	28	4	-	-	-	4	6	2	3	-	2	8	8					
ATTIC OR ROOF INSULATION																		
YES	6 498	496	338	253	227	256	597	564	876	323	116	2 452	37					
NO	1 148	152	95	57	45	52	152	142	123	48	17	264	32					
DON'T KNOW	294	45	16	14	21	8	42	21	42	10	14	61	33					
NOT REPORTED	40	5	3	-	2	6	7	2	3	-	2	11	11					
SPECIFIED RENTER OCCUPIED²																		
HOUSE HEATING FUEL																		
GAS	2 323	274	127	101	127	109	236	156	156	72	21	943	27					
UTILITY GAS	2 286	272	126	100	122	106	229	154	151	70	21	934	27					
BOTTLED, TANK, OR LP GAS	38	3	1	1	6	3	7	2	5	3	-	9	9					
OTHER THAN GAS	4 416	1 231	436	246	105	49	37	30	22	4	2	2 252	10-					
FUEL OIL	3 869	1 179	418	223	91	47	33	27	17	4	2	1 828	10-					
KEROSENE, ETC	37	14	8	6	2	-	3	3	-	-	-	11	11					
ELECTRICITY	444	23	9	12	9	2	3	3	4	-	-	382	14					
COAL OR COKE	36	8	5	5	3	2	1	-	-	-	-	13	13					
WOOD	18	5	-	1	1	1	-	-	-	-	-	10	10					
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-					
OTHER FUEL	12	2	-	-	-	-	-	-	-	2	-	8	8					
None	5	-	-	-	-	-	-	-	-	-	-	3	3					

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: 1976--CONTINUED
(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)		
		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						
SPECIFIED RENTER OCCUPIED²--CONTINUED																	
WATER HEATING FUEL ³																	
GAS																	
UTILITY GAS	2 811	424	233	185	182	116	242	154	150	69	22	1 038	21				
BOTTLED, TANK, OR LP GAS	2 728	408	227	173	169	114	234	151	149	64	22	1 018	21				
OTHER FUEL	83	15	6	13	14	2	8	3	2	5	-	16	20				
NONE	3 906	1 077	330	161	50	42	28	34	28	8	1	2 148	10-				
	2	-	-	2	-	-	2	-	-	-	-	-	-	-	---		
COOKING FUEL																	
GAS																	
UTILITY GAS	4 997	1 456	530	318	221	146	245	157	147	71	18	1 685	11				
BOTTLED, TANK, OR LP GAS	4 757	1 354	511	290	199	140	236	150	142	66	18	1 649	12				
OTHER FUEL	240	104	19	27	22	6	10	6	5	-	-	36	10-				
NONE	1 678	47	35	30	12	12	28	31	31	6	5	1 444	22				
	69	-	-	-	-	-	-	-	-	-	-	69	-	-			
ALL GAS HOUSING UNITS																	
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL																	
ALL OTHER FUEL COMBINATIONS OR NONE	1 619	180	91	72	109	86	200	116	118	62	16	567	28				
	5 126	1 326	472	275	124	70	73	72	60	15	7	2 632	10-				
HEATING EQUIPMENT																	
WARM-AIR FURNACE																	
HEAT PUMP	1 460	160	59	81	84	42	134	98	72	27	13	690	25				
STEAM OR HOT WATER	18	7	2	7	-	-	-	-	-	-	-	3	10-				
BUILT-IN ELECTRIC UNITS	4 419	1 295	460	223	93	69	66	45	56	17	4	2 093	10-				
FLOOR, WALL, OR PIPELESS FURNACE	371	16	6	5	7	-	-	-	4	-	-	333	12				
ROOM HEATERS WITH FLUE	37	3	5	2	4	3	1	6	5	1	-	7	10-				
ROOM HEATERS WITHOUT FLUE	335	12	25	19	33	35	57	33	37	30	5	49	33				
FIREPLACES, STOVES, OR PORTABLE HEATERS	28	2	3	2	4	3	5	3	6	-	-	3	10-				
NONE	71	11	4	9	8	6	10	4	2	-	-	17	21				
	5	-	-	-	-	-	-	-	-	-	-	3	---				
THERMOSTAT CONTROLLED HEATING EQUIPMENT																	
NO HEATING EQUIPMENT																	
WITH HEATING EQUIPMENT	5	-	-	-	-	-	-	-	2	-	-	3	10-				
NO THERMOSTAT CONTROL	6 739	1 506	563	347	233	158	273	186	178	77	23	3 196	12				
WITH THERMOSTAT CONTROL	3 576	1 112	385	194	82	68	65	37	38	25	3	1 566	10-				
NOT CLOCK OPERATED	3 141	387	177	153	151	88	208	148	138	51	19	1 620	21				
CONSTANT TEMPERATURE SETTING MAINTAINED	2 736	307	147	131	79	185	137	118	118	44	18	1 445	22				
TEMPERATURE SETTING IS CHANGED	883	121	45	48	46	24	62	36	33	14	7	487	20				
OCCASIONALLY	1 825	184	98	83	76	54	124	100	85	28	10	982	23				
REGULARLY	617	53	35	29	26	20	36	43	36	15	7	318	26				
DON'T KNOW	1 184	130	62	54	49	34	82	95	50	13	4	651	22				
NOT REPORTED	1	-	-	-	-	-	-	-	-	-	-	1	10-				
CLOCK OPERATED	27	2	3	2	3	1	10	23	12	20	7	2	162	16			
NOT REPORTED	385	75	30	22	24	10	23	12	20	-	-	12	10-				
	20	5	-	1	2	-	-	-	-	-	-	10	---				
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE																	
WITH SELECTED HEATING EQUIPMENT	76	11	4	9	8	6	10	5	-	2	-	20	22				
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 668	1 494	559	338	225	152	263	182	178	75	23	3 178	12				
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 312	1 421	522	308	205	141	247	175	166	69	21	3 036	12				
SOLAR HEATING EQUIPMENT	316	56	34	30	19	11	16	8	11	6	2	124	16				
STOVE, BURNING WOOD OR COAL	19	4	2	-	1	-	3	1	1	-	-	7	10-				
FIREPLACE, BURNING WOOD OR COAL	-	-	-	-	-	-	-	-	-	-	-	-	-				
PORTABLE ELECTRIC HEATER	251	46	30	21	16	5	11	7	8	6	2	98	14				
ROOM HEATER WITHOUT FLUE OR VENT	-	-	-	-	-	-	-	-	-	-	-	-	-				
BURNING GAS, OIL, OR KEROSENE	9	2	-	-	2	2	-	-	-	-	-	2	10-				
OTHER	34	5	2	2	7	1	3	2	-	-	-	14	10-				
NOT REPORTED	5	-	-	2	-	-	-	-	-	-	-	3	10-				
	40	17	3	-	1	1	-	-	-	-	-	18	---				
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																	
NO HOT PIPED WATER																	
WITH HOT PIPED WATER	25	5	1	1	-	-	2	-	-	-	-	17	12				
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 718	1 501	562	346	233	158	272	188	178	77	23	3 182	12				
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 526	1 457	542	333	229	151	262	182	176	71	23	3 098	12				
NOT REPORTED	19	2	-	1	-	3	3	2	-	-	-	8	10-				
NOT REPORTED	172	42	21	12	3	4	5	3	2	5	-	75	11				
AIR CONDITIONING																	
WITH AIR CONDITIONING																	
ROOM UNITS	2 601	565	191	102	58	39	83	62	45	12	5	1 240	10				
1	2 071	553	180	94	52	39	70	48	38	12	5	979	10-				
2	1 418	400	128	67	38	23	52	32	17	11	2	648	10-				
3	554	123	47	27	13	13	15	16	14	2	3	281	11				
4	87	30	5	-	2	3	5	-	-	2	-	41	10-				
5 OR MORE	5	-	-	-	-	2	-	-	-	-	-	5	10-				
CENTRAL SYSTEM	331	12	11	8	5	-	13	14	6	-	-	3	10-				
WITH NO AIR CONDITIONING	4 342	941	372	245	175	120	190	126	133	64	18	1 261	23				
												1 959	13				

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: 1978--CONTINUED
(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												MEDIAN (DOL- LARS)		
		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				
SPECIFIED RENTER OCCUPIED²--CONTINUED																
PERSONS																
1 PERSON	2 472	638	148	86	58	43	78	42	24	12	2	1 340	10-	10-		
2 PERSONS	1 993	434	203	118	59	36	70	59	38	21	3	952	12	12		
3 PERSONS	1 086	231	96	53	42	32	59	40	48	22	11	450	14	14		
4 PERSONS	651	135	60	46	27	22	42	29	40	10	4	234	16	16		
5 PERSONS	302	44	27	24	21	10	17	12	14	5	-	127	18	18		
6 PERSONS	131	10	23	15	17	7	4	2	3	3	-	50	17	17		
7 PERSONS OR MORE	109	13	7	5	9	7	2	3	11	3	2	47	23	23		
MEDIAN.	1.9	1.8	2.2	2.2	2.5	2.5	2.3	2.4	3.1	2.7	...	1.8	...	...
SPECIFIED RENTER OCCUPIED²																
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS																
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	966	111	48	62	72	34	100	76	62	23	10	368	26	26		
ALL WINDOWS COVERED	521	74	28	29	33	16	49	48	16	7	5	217	22	22		
SOME WINDOWS COVERED.	219	24	9	20	10	6	20	15	24	13	3	75	32	32		
NO WINDOWS COVERED.	179	8	11	9	27	10	31	12	18	2	2	50	29	29		
NOT REPORTED.	46	5	-	3	2	2	-	1	4	2	2	25	...	...
STORM DOORS																
ALL DOORS COVERED	554	56	25	39	39	16	50	52	28	15	4	231	26	26		
SOME DOORS COVERED.	148	16	12	6	7	7	22	4	16	4	1	51	29	29		
NO DOORS COVERED.	216	35	10	13	23	9	28	19	12	3	4	59	23	23		
NOT REPORTED.	49	5	-	3	2	2	-	1	5	2	2	26	...	...
ATTIC OR ROOF INSULATION																
YES	450	58	27	20	34	15	36	26	28	10	4	191	23	23		
NO	250	22	10	21	22	7	44	22	20	7	3	73	31	31		
DON'T KNOW.	218	26	11	17	14	10	18	27	9	4	2	79	26	26		
NOT REPORTED.	48	5	-	3	2	2	2	1	4	2	2	25	...	...

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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.											MEDIAN (DOL- LARS)
		LESS THAN \$100	\$100 TO \$199	\$200 TO \$299	\$300 TO \$399	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED ¹		
SPECIFIED OWNER OCCUPIED ²	7 980	156	89	221	477	563	642	617	535	1 071	3 609	606	
HOUSE HEATING FUEL													
OIL, COAL, KEROSENE, WOOD, ETC.	4 210	58	64	199	449	541	613	595	521	1 036	134	619	
FUEL OIL	4 037	53	50	171	422	511	593	585	514	1 031	107	628	
COAL OR COKE	84	3	3	13	14	16	14	8	6	2	6	440	
KEROSENE, ETC.	37	-	3	7	6	8	5	1	-	4	2	***	
WOOD	52	1	8	8	7	6	2	2	1	-	18	***	
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC.	3 769	98	25	22	28	21	28	22	14	35	3 475	307	
UTILITY GAS	3 300	80	20	13	14	12	19	19	12	20	3 089	236	
BOTTLED, TANK, OR LP GAS	53	2	1	-	4	-	1	1	-	3	43	***	
ELECTRICITY	416	16	5	8	10	9	8	2	2	12	343	374	
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-	
NONE	1	-	-	-	-	1	-	-	-	-	-	***	
HEATING EQUIPMENT													
WARM-AIR FURNACE	3 585	80	35	143	269	250	235	167	113	201	2 093	487	
HEAT PUMP	31	3	4	2	3	-	-	-	3	17	***	***	
STEAM OR HOT WATER	3 763	53	38	48	182	276	388	441	410	858	1 067	681	
BUILT-IN ELECTRIC UNITS	335	12	4	5	3	2	7	2	2	4	296	277	
FLOOR, WALL, OR PIPELESS FURNACE	89	-	1	2	5	8	2	2	9	3	57	***	
ROOM HEATERS WITH FLUE	87	1	2	6	2	13	5	3	-	2	53	***	
ROOM HEATERS WITHOUT FLUE	3	-	-	-	-	-	-	-	-	-	3	-	
FIREPLACES, STOVES, OR PORTABLE HEATERS	86	8	10	13	14	10	5	2	1	1	23	306	
NONE	1	-	-	-	-	1	-	-	-	-	-	***	
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	1	-	-	-	-	1	-	-	-	-	-	***	***
WITH HEATING EQUIPMENT	7 979	156	89	221	477	562	642	617	535	1 071	3 609	606	
NO THERMOSTAT CONTROL	152	7	4	10	14	23	16	7	5	3	62	439	
WITH THERMOSTAT CONTROL	7 808	148	85	209	458	539	624	609	530	1 066	3 540	612	
NOT CLOCK OPERATED	6 780	132	73	188	416	482	545	536	458	875	3 075	603	
CONSTANT TEMPERATURE SETTING MAINTAINED	2 079	34	24	63	130	176	159	153	136	258	945	587	
TEMPERATURE SETTING IS CHANGED	4 672	98	48	126	285	306	385	381	320	607	2 116	608	
OCCASIONALLY	1 184	29	9	35	62	82	98	73	81	137	579	587	
REGULARLY	3 458	69	39	91	221	222	285	308	236	463	1 524	613	
DON'T KNOW	22	-	-	2	2	2	2	1	2	3	11	***	
NOT REPORTED	8	1	-	-	-	-	-	-	2	3	2	***	
CLOCK OPERATED	29	-	1	-	-	-	1	2	2	9	14	***	
NOT REPORTED	43	-	10	19	40	55	66	69	70	185	456	685	
NOT REPORTED	20	1	-	2	3	3	14	3	2	7	8	***	
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	177	9	12	19	17	23	10	6	1	2	79	357	
WITH SELECTED HEATING EQUIPMENT ³	7 803	147	77	202	461	540	632	612	534	1 068	3 530	613	
LESS THAN 4 YEARS	910	20	15	26	72	80	77	66	71	111	371	573	
4 TO 9 YEARS	1 459	40	18	47	81	109	103	83	51	119	807	529	
10 TO 19 YEARS	2 484	45	24	69	132	157	196	165	148	289	1 260	593	
20 TO 39 YEARS	2 223	32	14	46	137	148	194	233	201	385	833	653	
40 YEARS OR MORE	235	3	1	6	11	14	21	28	19	79	55	742	
DON'T KNOW	400	6	3	7	19	25	30	31	38	75	166	687	
NOT REPORTED	93	2	2	2	8	8	11	6	6	10	38	554	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	177	9	12	19	17	23	10	6	1	2	79	357	
WITH SELECTED HEATING EQUIPMENT	7 803	147	77	202	461	540	632	612	534	1 068	3 530	613	
NO MAINTENANCE OR MODIFICATION	5 078	88	58	127	263	290	333	318	273	576	2 750	601	
WITH MAINTENANCE OR MODIFICATION	2 636	58	18	74	191	245	289	290	253	477	743	625	
NOT REPORTED	88	2	1	2	7	4	10	4	9	14	37	625	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	177	9	12	19	17	23	10	6	1	2	79	357	
WITH SELECTED HEATING EQUIPMENT	7 803	147	77	202	461	540	632	612	534	1 068	3 530	613	
NO MAINTENANCE CONTRACT	5 365	113	64	137	276	330	323	295	237	434	3 148	555	
WITH MAINTENANCE CONTRACT	2 328	31	14	64	176	196	294	308	290	623	333	672	
NOT REPORTED	110	3	-	2	8	6	15	9	7	11	50	573	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	19	1	2	3	1	4	1	1	1	2	5	***	***
WITH HOT PIPED WATER	7 960	155	87	218	476	559	641	616	534	1 069	3 604	607	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 797	150	87	213	455	547	633	608	527	1 045	3 532	608	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴	33	-	-	-	4	7	1	-	3	19	54	***	
NOT REPORTED	131	5	-	5	17	6	7	9	7	21	54	574	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	
AIR CONDITIONING													
WITH AIR CONDITIONING	3 793	75	36	67	191	203	277	295	268	559	1 822	646	
ROOM UNITS	3 101	53	30	59	166	185	245	276	246	510	1 330	653	
1	1 595	38	17	32	102	119	139	159	124	211	656	615	
2	959	9	11	23	43	47	74	77	79	149	448	664	
3	342	2	1	5	15	9	19	32	27	94	139	771	
4	144	4	2	+	4	9	7	7	12	38	61	773	
5 OR MORE	60	1	-	-	2	2	6	2	3	18	26	***	
CENTRAL SYSTEM	692	22	6	8	25	18	32	19	22	48	492	565	
WITH NO AIR CONDITIONING	4 167	81	53	154	286	360	365	322	267	512	1 787	572	

¹ RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

² LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³ EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENTS; FIREPLACES, STOVES, AND PORTABLE HEATERS.

⁴ LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

TABLE 8-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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.											FUELS USED, FREE, OR NOT REPORTED ¹	MEDIAN (DOL- LARS)			
		LESS THAN \$100 TO \$199	\$100 TO \$299	\$200 TO \$399	\$300 TO \$499	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	NOT USED, FREE, OR NOT REPORTED ¹	NOT USED, FREE, OR NOT REPORTED ¹					
SPECIFIED OWNER OCCUPIED²--CONTINUED																	
PERSONS																	
1 PERSON	900	14	12	18	84	95	86	69	61	110	350	4	560				
2 PERSONS	2 320	40	30	74	149	178	213	191	140	203	1 042	578					
3 PERSONS	1 496	30	13	42	95	105	111	121	107	193	678	611					
4 PERSONS	1 614	26	18	49	79	89	120	115	111	228	779	632					
5 PERSONS	955	34	12	24	45	53	67	69	70	146	433	635					
6 PERSONS	449	8	2	11	12	26	31	32	30	87	210	691					
7 PERSONS OR MORE	246	5	2	4	12	17	14	19	15	43	116	664					
MEDIAN	3.0	3.3	2.7	2.9	2.5	2.6	2.7	2.9	3.1	3.3	3.1	***					
SPECIFIED OWNER OCCUPIED³																	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS																	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING																	
ALL WINDOWS COVERED	6 506	135	73	172	391	482	524	520	447	819	2 944	601					
SOME WINDOWS COVERED	1 076	16	12	39	57	60	93	82	74	195	448	645					
NO WINDOWS COVERED	366	5	4	10	28	18	21	15	14	52	197	588					
NOT REPORTED	33	-	-	1	2	3	3	-	-	4	20	***					
STORM DOORS																	
ALL DOORS COVERED	6 494	117	71	175	388	454	517	544	436	829	2 963	608					
SOME DOORS COVERED	990	26	9	30	57	77	72	52	83	145	440	608					
NO DOORS COVERED	468	13	9	16	30	29	49	21	16	95	189	585					
NOT REPORTED	28	-	-	1	2	3	3	-	-	3	16	***					
ATTIC OR ROOF INSULATION																	
YES	6 498	135	76	185	370	441	532	507	426	875	2 950	607					
NO	1 148	15	12	22	82	103	82	88	80	153	511	603					
DON'T KNOW	294	6	2	13	21	16	24	19	26	37	130	601					
NOT REPORTED	40	-	-	1	4	3	3	3	2	5	18	***					
SPECIFIED RENTER OCCUPIED³																	
HOUSE HEATING FUEL																	
OIL, COAL, KEROSENE, WOOD, ETC.	3 960	23	32	56	105	108	86	87	68	104	3 291	512					
FUEL OIL	3 869	16	20	47	93	101	81	85	63	101	3 264	532					
COAL OR COKE	36	2	5	2	5	4	2	2	-	-	13	***					
KEROSENE, ETC	37	2	5	7	5	3	3	-	2	3	7	***					
WOOD	18	3	2	1	2	1	-	-	-	-	8	***					
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	2 779	8	7	7	9	10	4	2	-	-	2 728	344					
UTILITY GAS	2 286	7	5	6	8	9	4	1	-	-	2 244	344					
BOTTLED, TANK, OR LP GAS	38	-	1	1	-	1	-	-	-	-	35	***					
ELECTRICITY	444	1	1	-	-	2	-	-	-	-	437	***					
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-					
OTHER FUEL	12	-	-	-	-	-	-	-	-	-	12	***					
NONE	5	-	-	-	-	-	-	-	-	-	5	***					
HEATING EQUIPMENT																	
WARM-AIR FURNACE	1 460	11	22	34	67	61	38	36	18	28	1 146	439					
HEAT PUMP	18	-	-	-	2	-	-	2	-	-	15	***					
STEAM OR HOT WATER	4 419	10	9	19	33	49	46	47	41	77	4 089	598					
BUILT-IN ELECTRIC UNITS	371	1	1	-	-	-	-	-	-	-	369	***					
FLOOR, WALL, OR PIPELESS FURNACE	37	-	1	-	2	1	2	2	2	-	28	***					
ROOM HEATERS WITH FLUE	335	2	2	5	6	6	3	2	7	3	300	469					
ROOM HEATERS WITHOUT FLUE	28	-	2	-	2	-	-	-	-	-	28	***					
FIREPLACES, STOVES, OR PORTABLE HEATERS	71	7	3	5	3	2	-	-	-	-	49	***					
NONE	5	-	-	-	-	-	-	-	-	-	5	***					
THERMOSTAT CONTROLLED HEATING EQUIPMENT																	
NO HEATING EQUIPMENT	5	-	-	-	-	-	-	-	-	-	5	***					
WITH HEATING EQUIPMENT	6 739	30	39	63	114	118	90	89	68	108	6 019	495					
NO THERMOSTAT CONTROL	3 576	9	11	12	9	11	5	7	1	4	3 508	320					
WITH THERMOSTAT CONTROL	3 191	22	28	50	103	106	85	83	67	104	2 491	516					
NOT CLOCK OPERATED	2 736	18	25	44	95	98	83	76	58	80	2 159	510					
CONSTANT TEMPERATURE SETTING MAINTAINED	883	7	9	21	39	35	22	13	14	24	699	445					
TEMPERATURE SETTING IS CHANGED	1 825	11	16	23	53	63	61	60	44	56	1 439	543					
REGULARLY	617	2	6	4	15	19	12	17	17	14	511	564					
DON'T KNOW	1 184	10	10	20	37	44	49	42	26	41	907	539					
NOT REPORTED	23	-	-	2	-	-	-	-	-	-	21	***					
CLOCK OPERATED	27	-	-	3	3	2	-	3	-	-	1	***					
NOT REPORTED	385	3	3	5	7	10	2	7	6	24	316	658					
NOT REPORTED	20	-	-	1	1	-	-	-	2	-	17	***					
NOT REPORTED	22	-	-	-	2	-	-	-	-	-	20	***					
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																	
NO HOT PIPED WATER	25	2	2	4	1	3	-	2	-	1	12	***					
WITH HOT PIPED WATER	6 718	29	38	59	113	115	90	68	68	107	6 013	499					
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	6 526	27	36	59	112	112	89	68	68	105	5 830	502					
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	-	-	-	-	-	-	-	-	-	18	***					
NOT REPORTED	172	2	2	-	1	3	1	-	-	-	163	***					

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

TABLE B-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS¹ 1978--CONTINUED

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

NORTHEAST REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
		LESS THAN \$100	\$100 TO \$199	\$200 TO \$299	\$300 TO \$399	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED ²	MEDIAN (DOL- LARS)		
SPECIFIED RENTER OCCUPIED²--CONTINUED														
AIR CONDITIONING														
WITH AIR CONDITIONING	2 401	7	3	8	27	28	19	26	26	32	2 224	577		
ROOM UNITS	2 071	7	1	8	26	26	18	26	25	28	1 905	577		
1	1 418	2	1	2	18	20	14	21	19	17	1 304	602		
2	554	2	-	6	7	6	2	4	6	11	509	533		
3	87	3	-	-	2	-	-	1	-	-	82	...		
4	7	-	-	-	-	1	2	-	-	-	5	...		
5 OR MORE	5	-	-	-	-	-	-	-	-	-	5	...		
CENTRAL SYSTEM	331	-	2	-	2	2	1	1	1	4	319	...		
WITH NO AIR CONDITIONING	4 342	23	36	55	87	90	70	63	42	76	3 800	477		
PERSONS														
1 PERSON	2 472	6	10	17	28	28	15	15	3	8	2 344	415		
2 PERSONS	1 993	14	12	14	39	36	29	26	15	33	1 775	482		
3 PERSONS	1 086	7	9	12	17	22	18	23	20	19	940	536		
4 PERSONS	651	2	6	8	18	15	13	15	15	27	533	562		
5 PERSONS	302	1	1	7	6	10	9	7	1	15	245	583		
6 PERSONS	131	1	2	2	6	6	2	4	7	3	97	...		
7 PERSONS OR MORE	109	-	-	3	1	2	3	-	6	4	90	...		
MEDIAN	1.9	...	2.3	2.6	2.3	2.4	2.5	2.7	3.3	3.2	1.9	...		
SPECIFIED RENTER OCCUPIED²														
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS														
966	15	26	40	74	61	50	50	40	40	66	544	491		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED	521	8	14	17	46	36	36	27	30	46	262	525		
SOME WINDOWS COVERED	219	5	4	17	17	21	9	14	6	16	110	456		
NO WINDOWS COVERED	179	2	7	6	10	4	4	8	4	2	132	391		
NOT REPORTED	46	-	2	-	2	-	1	2	-	1	40	...		
STORM DOORS														
ALL DOORS COVERED	554	7	12	22	40	35	31	32	27	43	304	527		
SOME DOORS COVERED	148	2	4	6	13	12	8	7	5	7	83	451		
NO DOORS COVERED	216	6	9	10	18	14	10	9	8	16	115	449		
NOT REPORTED	49	-	2	-	2	-	1	2	-	1	42	...		
ATTIC OR ROOF INSULATION														
YES	450	7	12	14	43	31	30	25	28	34	225	514		
NO	250	3	8	10	17	18	6	15	7	19	147	471		
DON'T KNOW	218	4	4	16	12	12	13	9	6	12	130	465		
NOT REPORTED	48	-	2	-	2	-	1	2	-	1	41	...		

¹RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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							WORKS AT HOME OR NOT REPORTED
		DRIVES SELF	CARPOOL	MASS TRANS- PORTATION	BICYCLE OR MOTOR- CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	
HOUSING UNITS WITH EMPLOYED HEADS ¹	11 353	7 326	1 499	1 560	33	16	637	41	241
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED									
LESS THAN 1 MILE	7 222	5 222	1 014	536	19	7	234	24	166
1 TO 4 MILES	516	262	35	8	6	-	205	-	-
5 TO 9 MILES	1 412	1 129	180	62	8	5	25	2	-
10 TO 19 MILES	1 257	1 003	181	70	3	-	-	1	-
20 TO 29 MILES	1 567	1 183	238	124	-	-	-	2	1
30 TO 49 MILES	673	453	139	72	-	2	-	5	2
50 MILES OR MORE	440	261	104	75	-	-	-	2	-
WORKS AT HOME	173	91	36	44	-	-	-	-	-
NO FIXED PLACE OF WORK	153	-	-	-	-	-	-	-	153
NOT REPORTED	879	750	82	32	2	-	2	12	-
MEDIAN	173	91	18	51	-	-	2	2	11
RENTER OCCUPIED									
LESS THAN 1 MILE	4 131	2 104	485	1 023	13	10	402	17	76
1 TO 4 MILES	480	122	12	26	2	2	314	1	2
5 TO 9 MILES	1 018	563	116	250	7	6	70	5	2
10 TO 19 MILES	771	476	93	196	3	-	2	-	1
20 TO 29 MILES	829	439	104	279	2	2	-	3	-
30 TO 49 MILES	293	165	54	73	-	-	-	2	-
50 MILES OR MORE	134	75	25	33	-	-	-	2	-
WORKS AT HOME	61	-	-	-	-	-	-	-	61
NO FIXED PLACE OF WORK	326	211	47	51	-	-	12	4	-
NOT REPORTED	202	48	27	111	-	-	5	1	11
MEDIAN	6.8	7.5	9.1	8.9	-	-	1.0-	-	-
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED									
LESS THAN 15 MINUTES	7 222	5 222	1 014	536	19	7	234	24	166
15 TO 29 MINUTES	1 938	1 494	207	18	13	5	197	3	-
30 TO 44 MINUTES	2 084	1 650	332	69	2	-	29	1	-
45 TO 59 MINUTES	1 117	794	224	93	2	-	4	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	421	275	65	77	-	-	-	3	-
1 HOUR AND 30 MINUTES OR MORE	404	178	74	149	-	-	-	2	2
WORKS AT HOME	172	50	23	96	-	2	-	2	-
NO FIXED PLACE OF WORK	153	-	-	-	-	-	-	12	153
NOT REPORTED	879	750	82	32	2	-	2	2	11
MEDIAN	23.1	21.6	26.5	58.8	-	-	15.0-	-	-
RENTER OCCUPIED									
LESS THAN 15 MINUTES	4 131	2 104	485	1 023	13	10	402	17	76
15 TO 29 MINUTES	1 140	706	112	33	6	5	275	2	-
30 TO 44 MINUTES	1 248	757	167	209	5	5	99	3	2
45 TO 59 MINUTES	654	267	97	280	1	-	10	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	315	104	23	186	-	-	-	2	-
1 HOUR AND 30 MINUTES OR MORE	277	37	24	211	2	-	-	3	-
WORKS AT HOME	58	6	9	41	-	-	-	2	-
NO FIXED PLACE OF WORK	61	-	-	-	-	-	-	-	61
NOT REPORTED	326	211	47	51	-	-	12	4	-
MEDIAN	52	16	6	12	-	-	6	1	11

¹LIMITED 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: 1978
 (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.	20 171	13 240	5 715	7 525	6 931
HOUSE HEATING FUEL					
OWNER OCCUPIED.	14 152	8 981	3 195	5 786	5 171
UTILITY GAS.	9 775	7 095	2 766	4 329	2 680
BOTTLED, TANK, OR LP GAS.	1 034	228	7	221	806
FUEL OIL.	2 126	1 093	261	832	1 033
KEROSENE, ETC.	6	4	-	4	2
ELECTRICITY.	1 077	532	152	380	544
COAL OR COKE.	41	13	3	10	28
WOOD.	81	8	-	8	73
SOLAR HEAT.	1	-	-	-	1
OTHER FUEL.	8	5	5	-	3
NONE.	2	2	-	2	1
RENTER OCCUPIED	6 019	4 259	2 520	1 739	1 760
UTILITY GAS.	4 364	3 343	2 046	1 297	1 022
BOTTLED, TANK, OR LP GAS.	272	51	8	43	221
FUEL OIL.	685	425	227	198	260
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	609	398	207	191	211
COAL OR COKE.	19	5	2	3	14
WOOD.	33	5	-	5	28
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	28	27	25	2	1
NONE.	10	6	5	1	4
WATER HEATING FUEL					
OWNER OCCUPIED.	14 152	8 981	3 195	5 786	5 171
NO HOT PIPED WATER.	90	22	3	18	68
WITH HOT PIPED WATER.	14 060	8 958	3 191	5 766	5 103
FUEL USED:					
UTILITY GAS.	9 140	6 934	2 824	4 111	2 205
BOTTLED, TANK, OR LP GAS.	837	212	14	198	625
FUEL OIL.	143	76	20	56	67
KEROSENE, ETC.	3	-	-	-	3
ELECTRICITY.	3 917	1 727	330	1 397	2 190
COAL OR COKE.	1	-	-	-	1
WOOD.	4	2	-	2	2
SOLAR HEAT.	3	2	2	-	1
OTHER FUEL.	9	3	2	2	5
NONE.	3	1	-	1	2
NOT REPORTED.	2	2	-	2	1
RENTER OCCUPIED	6 019	4 259	2 520	1 739	1 760
NO HOT PIPED WATER.	49	9	2	8	39
WITH HOT PIPED WATER.	5 970	4 250	2 519	1 731	1 720
FUEL USED:					
UTILITY GAS.	4 390	3 467	2 181	1 286	923
BOTTLED, TANK, OR LP GAS.	202	45	5	40	157
FUEL OIL.	78	54	35	19	24
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	1 272	667	281	385	605
COAL OR COKE.	4	-	-	-	4
WOOD.	2	-	-	-	2
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	18	16	15	1	2
NONE.	5	2	2	-	3
NOT REPORTED.	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED.	14 152	8 981	3 195	5 786	5 171
UTILITY GAS.	5 656	4 341	1 945	2 396	1 315
BOTTLED, TANK, OR LP GAS.	1 051	268	9	259	783
FUEL OIL.	24	12	3	8	13
KEROSENE, ETC.	5	-	-	-	5
ELECTRICITY.	7 383	4 354	1 237	3 118	3 029
COAL OR COKE.	3	1	-	1	2
WOOD.	24	3	-	3	21
OTHER FUEL.	2	-	-	-	2
NONE.	2	1	-	1	1
RENTER OCCUPIED	6 019	4 259	2 520	1 739	1 760
UTILITY GAS.	3 191	2 614	1 800	814	577
BOTTLED, TANK, OR LP GAS.	305	66	4	62	239
FUEL OIL.	-	-	-	-	-
KEROSENE, ETC.	2	2	2	-	1
ELECTRICITY.	2 450	1 539	690	850	911
COAL OR COKE.	1	-	-	-	1
WOOD.	6	1	-	1	5
OTHER FUEL.	5	3	2	1	2
NONE.	59	35	23	13	24

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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							
LESS THAN \$10	11 256	7 567	2 571	4 997	3 689		
\$10 TO \$19.	168	94	61	33	74		
\$20 TO \$29.	1 622	1 017	467	550	605		
\$30 TO \$39.	2 960	1 990	746	1 244	971		
\$40 TO \$49.	2 654	1 837	584	1 254	816		
\$50 TO \$59.	1 560	1 044	312	733	516		
\$60 TO \$79.	966	696	199	497	269		
\$80 TO \$99.	822	561	126	434	261		
\$100 TO \$149.	249	161	35	125	88		
\$150 OR MORE.	194	123	29	95	71		
NO ELECTRICITY USED OR NOT REPORTED	58	43	12	31	15		
MEDIAN.	3	-	-	-	3		
33	33	30	35	32			
SPECIFIED RENTER OCCUPIED ²	5 814	4 208	2 519	1 689	1 606		
LESS THAN \$10	577	464	334	131	112		
\$10 TO \$19.	1 726	1 309	760	549	416		
\$20 TO \$29.	1 225	881	477	404	344		
\$30 TO \$39.	649	437	219	218	211		
\$40 TO \$49.	264	187	82	105	77		
\$50 TO \$59.	148	89	49	40	60		
\$60 TO \$79.	94	64	21	44	30		
\$80 TO \$99.	23	13	3	10	10		
\$100 TO \$149.	27	16	10	5	12		
\$150 OR MORE.	6	5	5	-	2		
INCLUDED IN RENT.	1 058	729	550	179	329		
NO ELECTRICITY USED OR NOT REPORTED	15	13	9	4	2		
MEDIAN.	20	19	18	22	23		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED ¹							
LESS THAN \$10	11 256	7 567	2 571	4 997	3 689		
\$10 TO \$14.	401	232	95	137	169		
\$15 TO \$19.	311	204	110	93	107		
\$20 TO \$24.	478	305	137	168	173		
\$25 TO \$29.	784	485	199	285	300		
\$30 TO \$39.	1 031	661	269	392	370		
\$40 TO \$49.	2 839	2 060	638	1 422	780		
\$50 TO \$69.	1 883	1 394	474	919	490		
\$70 TO \$99.	1 441	985	349	636	455		
\$100 OR MORE.	374	269	112	157	105		
NO GAS USED OR NOT REPORTED	134	87	30	58	47		
MEDIAN.	1 578	885	157	729	693		
36	36	36	37	34			
SPECIFIED RENTER OCCUPIED ²	5 814	4 208	2 519	1 689	1 606		
LESS THAN \$10	575	439	327	112	136		
\$10 TO \$14.	343	250	167	83	93		
\$15 TO \$19.	274	186	111	74	88		
\$20 TO \$24.	281	177	106	71	103		
\$25 TO \$29.	303	205	127	78	98		
\$30 TO \$39.	574	406	236	170	168		
\$40 TO \$49.	257	195	115	80	62		
\$50 TO \$69.	221	156	105	51	65		
\$70 TO \$99.	76	54	39	15	22		
\$100 OR MORE.	44	24	14	10	19		
INCLUDED IN RENT.	.2 179	1 677	962	715	502		
NO GAS USED OR NOT REPORTED	688	438	209	229	250		
MEDIAN.	25	24	23	27	.25		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED ¹							
LESS THAN \$100.	11 256	7 567	2 571	4 997	3 689		
\$100 TO \$199.	337	222	63	159	115		
\$200 TO \$299.	132	69	16	53	62		
\$300 TO \$399.	173	91	22	70	82		
\$400 TO \$499.	322	185	56	129	137		
\$500 TO \$599.	337	209	36	173	128		
\$600 TO \$699.	230	126	28	98	105		
\$700 TO \$799.	152	98	21	77	54		
\$800 OR MORE.	80	58	17	41	22		
FUELS NOT USED, FREE, OR NOT REPORTED	114	68	5	63	45		
MEDIAN.	9 380	6 441	2 306	4 134	2 939		
391	397	356	412	384			

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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 :	5 814	4 208	2 519	1 689	1 606		
LESS THAN \$100.	41	23	10	13	18		
\$100 TO \$199.	39	19	6	12	20		
\$200 TO \$299.	45	17	2	15	28		
\$300 TO \$399.	58	25	13	12	33		
\$400 TO \$499.	53	22	7	15	30		
\$500 TO \$599.	39	15	5	10	24		
\$600 TO \$699.	31	14	5	9	17		
\$700 TO \$799.	11	5	-	5	6		
\$800 OR MORE.	23	12	-	12	11		
INCLUDED IN RENT.	537	385	275	111	152		
FUELS NOT USED, FREE, OR NOT REPORTED	4 938	3 671	2 196	1 475	1 266		
MEDIAN.	376	366	345	389	383		
ALL OCCUPIED HOUSING UNITS.							
HEATING EQUIPMENT							
OWNER OCCUPIED:	14 152	8 981	3 195	5 786	5 171		
WARM-AIR FURNACE.	10 940	7 377	2 494	4 884	3 562		
HEAT PUMP.	159	97	25	72	62		
STEAM OR HOT WATER.	1 304	906	441	465	398		
BUILT-IN ELECTRIC UNITS	609	270	89	181	339		
FLOOR, WALL, OR PIPELESS FURNACE.	336	110	51	58	227		
ROOM HEATERS WITH FLUE.	628	190	90	101	437		
ROOM HEATERS WITHOUT FLUE.	26	9	5	3	17		
FIREPLACES, STOVES, OR PORTABLE HEATERS	148	20	-	20	128		
NONE.	2	2	-	2	1		
RENTER OCCUPIED	6 019	4 259	2 520	1 739	1 760		
WARM-AIR FURNACE.	3 097	2 189	1 196	993	908		
HEAT PUMP.	19	15	12	3	4		
STEAM OR HOT WATER.	1 666	1 407	929	478	258		
BUILT-IN ELECTRIC UNITS	396	241	113	129	155		
FLOOR, WALL, OR PIPELESS FURNACE.	236	117	76	41	119		
ROOM HEATERS WITH FLUE.	511	257	180	77	254		
ROOM HEATERS WITHOUT FLUE.	26	12	3	9	14		
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	15	7	8	44		
NONE.	10	6	5	1	4		
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED:	14 152	8 981	3 195	5 786	5 171		
NO HEATING EQUIPMENT.	2	2	-	2	1		
WITH HEATING EQUIPMENT:	14 150	8 979	3 195	5 784	5 171		
NO THERMOSTAT CONTROL:	623	240	146	94	382		
WITH THERMOSTAT CONTROL	13 475	8 703	3 030	5 673	4 772		
NOT CLOCK OPERATED:	12 337	7 831	2 624	5 207	4 506		
CONSTANT TEMPERATURE SETTING MAINTAINED	4 068	2 588	948	1 640	1 480		
TEMPERATURE SETTING IS CHANGED:	8 238	5 225	1 675	3 550	3 013		
OCCASIONALLY:	2 292	1 575	556	1 019	717		
REGULARLY:	5 872	3 595	1 100	2 495	2 277		
DON'T KNOW:	64	45	17	28	19		
NOT REPORTED:	10	10	2	8	-		
NOT REPORTED:	32	19	2	17	13		
CLOCK OPERATED:	1 092	847	393	453	245		
NOT REPORTED:	45	25	12	13	20		
NOT REPORTED:	52	36	19	17	16		
RENTER OCCUPIED	6 019	4 259	2 520	1 739	1 760		
NO HEATING EQUIPMENT:	10	6	5	1	4		
WITH HEATING EQUIPMENT:	6 009	4 254	2 515	1 738	1 756		
NO THERMOSTAT CONTROL:	1 681	1 256	1 000	256	425		
WITH THERMOSTAT CONTROL	4 320	2 993	1 512	1 482	1 326		
NOT CLOCK OPERATED:	4 009	2 733	1 325	1 408	1 276		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 291	846	411	435	445		
TEMPERATURE SETTING IS CHANGED:	2 697	1 872	905	968	824		
OCCASIONALLY:	914	673	363	310	240		
REGULARLY:	1 749	1 177	529	648	572		
DON'T KNOW:	33	22	13	9	10		
NOT REPORTED:	1	-	-	-	1		
NOT REPORTED:	21	14	8	6	7		
CLOCK OPERATED:	285	244	174	70	42		
NOT REPORTED:	26	17	13	4	9		
NOT REPORTED:	8	4	4	-	4		

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

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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.	20 171	13 240	5 715	7 525	6 931
UNITS OCCUPIED LAST WINTER.	16 794	10 980	4 647	6 333	5 815
INSUFFICIENT HEAT					
CLOSURE OF ROOMS:					
OWNER OCCUPIED.	12 860	8 161	2 930	5 231	4 700
WITH HEATING EQUIPMENT.	12 859	8 159	2 930	5 229	4 700
NO ROOMS CLOSED.	12 218	7 800	2 787	5 014	4 418
CLOSED CERTAIN ROOMS.	497	275	104	171	221
LIVING ROOM ONLY.	22	13	7	6	9
DINING ROOM ONLY.	9	7	3	4	2
1 OR MORE BEDROOMS ONLY.	325	154	49	105	171
OTHER ROOMS OR COMBINATION OF ROOMS.	132	94	44	50	38
NOT REPORTED.	8	7	2	6	1
NOT REPORTED.	144	83	39	44	60
NO HEATING EQUIPMENT.	2	2	-	2	-
RENTER OCCUPIED.	3 934	2 819	1 717	1 102	1 115
WITH HEATING EQUIPMENT.	3 926	2 814	1 712	1 102	1 112
NO ROOMS CLOSED.	3 606	2 613	1 582	1 031	993
CLOSED CERTAIN ROOMS.	270	170	111	60	100
LIVING ROOM ONLY.	22	20	19	2	1
DINING ROOM ONLY.	4	1	-	1	3
1 OR MORE BEDROOMS ONLY.	185	111	65	46	74
OTHER ROOMS OR COMBINATION OF ROOMS.	60	38	27	11	22
NOT REPORTED.	-	-	-	-	-
NOT REPORTED.	49	30	19	11	19
NO HEATING EQUIPMENT.	8	5	5	-	3
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED.	12 860	8 161	2 930	5 231	4 700
WITH SPECIFIED HEATING EQUIPMENT.	12 695	8 132	2 925	5 207	4 563
NO ADDITIONAL HEAT SOURCE USED.	11 702	7 549	2 698	4 851	4 153
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	874	511	191	320	363
NOT REPORTED.	120	72	36	37	47
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	165	29	5	23	136
RENTER OCCUPIED.	3 934	2 819	1 717	1 102	1 115
WITH SPECIFIED HEATING EQUIPMENT.	3 860	2 793	1 705	1 088	1 067
NO ADDITIONAL HEAT SOURCE USED.	3 298	2 368	1 404	963	930
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	517	399	285	113	119
NOT REPORTED.	44	27	15	11	18
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	74	26	12	14	48
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED.	12 860	8 161	2 930	5 231	4 700
WITH SPECIFIED HEATING EQUIPMENT.	12 695	8 132	2 925	5 207	4 563
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	10 547	7 222	2 542	4 680	3 325
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 988	808	334	474	1 180
1 ROOM.	718	377	158	219	341
2 ROOMS.	541	204	87	118	337
3 ROOMS OR MORE.	729	227	90	137	502
NOT REPORTED.	160	102	48	54	58
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	165	29	5	23	136
RENTER OCCUPIED.	3 934	2 819	1 717	1 102	1 115
WITH SPECIFIED HEATING EQUIPMENT.	3 860	2 793	1 705	1 088	1 067
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 034	2 326	1 397	929	709
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	765	430	282	148	335
1 ROOM.	292	198	126	72	95
2 ROOMS.	234	121	86	35	113
3 ROOMS OR MORE.	239	111	71	41	127
NOT REPORTED.	60	37	26	11	23
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	74	26	12	14	48

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

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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.	20 171	13 240	5 715	7 525	6 931
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED.	14 152	8 981	3 195	5 786	5 171
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	150	22	-	22	129
WITH SELECTED HEATING EQUIPMENT ¹	14 002	8 959	3 195	5 764	5 043
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	13 212	8 555	3 060	5 495	4 657
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	702	334	108	226	368
SOLAR HEATING EQUIPMENT.	6	4	2	2	2
STOVE, BURNING WOOD OR COAL.	286	95	15	80	191
FIREPLACE, BURNING WOOD OR COAL.	98	48	14	33	51
PORTABLE ELECTRIC HEATER.	156	100	46	54	56
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	30	8	2	6	22
OTHER.	108	65	19	45	43
NOT REPORTED.	20	15	9	5	5
NOT REPORTED.	88	70	27	44	18
RENTER OCCUPIED.	6 019	4 259	2 520	1 739	1 760
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	69	21	12	9	48
WITH SELECTED HEATING EQUIPMENT ¹	5 950	4 239	2 508	1 731	1 712
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 702	4 071	2 400	1 670	1 631
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	210	142	89	52	69
SOLAR HEATING EQUIPMENT.	1	-	-	-	1
STOVE, BURNING WOOD OR COAL.	24	4	-	4	21
FIREPLACE, BURNING WOOD OR COAL.	8	5	2	3	3
PORTABLE ELECTRIC HEATER.	133	106	70	36	27
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	20	11	6	5	9
OTHER.	20	14	8	5	6
NOT REPORTED.	6	3	3	-	2
NOT REPORTED.	38	27	19	8	11
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	14 152	8 981	3 195	5 786	5 171
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	221	95	126	583
WITH SELECTED HEATING EQUIPMENT ²	13 348	8 760	3 100	5 660	4 588
LESS THAN 4 YEARS.	2 117	1 302	372	931	815
4 TO 9 YEARS.	3 415	2 086	625	1 461	1 329
10 TO 19 YEARS.	4 083	2 705	913	1 792	1 378
20 TO 39 YEARS.	2 514	1 765	670	1 096	749
40 YEARS OR MORE.	249	175	104	70	75
DON'T KNOW.	692	514	295	219	177
NOT REPORTED.	278	213	121	92	65
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED.	14 152	8 981	3 195	5 786	5 171
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	221	95	126	583
WITH SELECTED HEATING EQUIPMENT ²	13 348	8 760	3 100	5 660	4 588
NO MAINTENANCE OR MODIFICATION.	10 070	6 521	2 313	4 208	3 550
WITH MAINTENANCE OR MODIFICATION.	3 021	2 030	665	1 365	991
NOT REPORTED.	257	209	122	87	48
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	14 152	8 981	3 195	5 786	5 171
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	221	95	126	583
WITH SELECTED HEATING EQUIPMENT ²	13 348	8 760	3 100	5 660	4 588
NO MAINTENANCE CONTRACT.	12 246	7 916	2 750	5 166	4 330
WITH MAINTENANCE CONTRACT.	823	620	217	403	203
NOT REPORTED.	279	225	133	92	54

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED
 (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.	14 152	8 981	3 195	5 786	5 171		
NO HOT PIPED WATER.	90	22	3	18	68		
WITH HOT PIPED WATER.	14 060	8 958	3 191	5 766	5 103		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 805	8 806	3 131	5 674	5 000		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	66	37	14	24	29		
NOT REPORTED.	182	111	44	68	71		
NOT REPORTED.	2	2	-	2	1		
RENTER OCCUPIED	6 019	4 259	2 520	1 739	1 760		
NO HOT PIPED WATER.	49	9	2	8	39		
WITH HOT PIPED WATER.	5 970	4 250	2 519	1 731	1 720		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 816	4 126	2 422	1 704	1 691		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	32	25	21	4	7		
NOT REPORTED.	117	98	75	23	19		
NOT REPORTED.	-	-	-	-	-		
AIR CONDITIONING							
OWNER OCCUPIED.	14 152	8 981	3 195	5 786	5 171		
WITH AIR CONDITIONING	8 350	5 653	1 976	3 677	2 697		
ROOM UNITS.	4 299	2 693	1 100	1 593	1 606		
1	2 890	1 686	680	1 006	1 204		
2	1 119	782	310	472	337		
3	242	189	95	95	53		
4	36	27	12	15	9		
5 OR MORE	12	9	4	5	3		
CENTRAL SYSTEM.	4 050	2 959	876	2 084	1 091		
WITH NO AIR CONDITIONING.	5 803	3 328	1 219	2 110	2 474		
RENTER OCCUPIED	6 019	4 259	2 520	1 739	1 760		
WITH AIR CONDITIONING	2 908	2 134	1 029	1 106	774		
ROOM UNITS.	2 036	1 456	716	740	581		
1	1 673	1 173	570	602	501		
2	320	248	129	119	72		
3	29	23	8	14	7		
4	12	11	6	4	1		
5 OR MORE	2	2	2	-	-		
CENTRAL SYSTEM.	871	678	313	366	193		
WITH NO AIR CONDITIONING.	3 111	2 125	1 492	634	986		
ALL OCCUPIED HOUSING UNITS.	20 171	13 240	5 715	7 525	6 931		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS							
15 164	9 140	3 106	6 034	6 024			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED.	13 239	8 171	2 658	5 514	5 068		
ALL WINDOWS COVERED	11 270	7 020	2 202	4 818	4 250		
SOME WINDOWS COVERED.	1 351	759	289	470	592		
NO WINDOWS COVERED.	563	351	144	207	212		
NOT REPORTED.	55	41	22	19	14		
RENTER OCCUPIED	1 925	969	449	520	956		
ALL WINDOWS COVERED	1 182	601	250	351	581		
SOME WINDOWS COVERED.	360	162	92	70	198		
NO WINDOWS COVERED.	294	152	68	85	141		
NOT REPORTED.	89	53	39	14	35		
STORM DOORS							
OWNER OCCUPIED.	13 239	8 171	2 658	5 514	5 068		
ALL DOORS COVERED	10 755	6 693	2 176	4 517	4 062		
SOME DOORS COVERED.	1 477	866	300	566	611		
NO DOORS COVERED.	949	569	161	408	380		
NOT REPORTED.	59	43	21	22	16		
RENTER OCCUPIED	1 925	969	449	520	956		
ALL DOORS COVERED	1 138	587	271	316	551		
SOME DOORS COVERED.	311	141	58	83	170		
NO DOORS COVERED.	382	185	80	104	198		
NOT REPORTED.	93	56	39	17	37		

¹LIMITED 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: 1978--CONTINUED
(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							
YES	13 239	8 171	2 658	5 514	5 068		
NO	11 617	7 176	2 152	5 024	4 441		
DON'T KNOW	1 102	623	339	284	479		
NOT REPORTED	439	314	139	175	126		
	81	58	28	31	23		
RENTER OCCUPIED							
YES	1 925	969	449	520	956		
NO	1 029	521	183	338	508		
DON'T KNOW	377	175	95	80	202		
NOT REPORTED	424	216	128	88	208		
	95	57	42	14	38		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:	13 239	8 171	2 658	5 514	5 068		
NO WINDOWS COVERED	563	351	144	207	212		
SOME OR ALL WINDOWS COVERED	12 621	7 779	2 491	5 268	4 842		
NONE ADDED OR INSTALLED	11 231	6 975	2 270	4 705	4 256		
SOME OR ALL ADDED OR INSTALLED	1 321	749	209	540	572		
NOT REPORTED	69	55	13	43	14		
NOT REPORTED	55	41	22	19	14		
STORM DOORS:							
NO DOORS COVERED	949	569	161	408	380		
SOME OR ALL DOORS COVERED	12 232	7 560	2 476	5 083	4 672		
NONE ADDED OR INSTALLED	11 118	6 859	2 265	4 594	4 259		
SOME OR ALL ADDED OR INSTALLED	944	575	160	416	369		
NOT REPORTED	170	125	52	74	45		
NOT REPORTED	59	43	21	22	16		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	1 102	623	339	284	479		
WITH ATTIC OR ROOF INSULATION	11 617	7 176	2 152	5 024	4 441		
NONE ADDED OR INSTALLED	10 087	6 208	1 898	4 310	3 879		
SOME OR ALL ADDED OR INSTALLED	1 329	821	214	608	508		
LESS THAN 3 INCHES ADDED	87	49	11	38	38		
3 TO 6 INCHES ADDED	556	357	106	251	198		
6 INCHES OR MORE ADDED	526	319	70	250	207		
DON'T KNOW	96	62	20	41	34		
NOT REPORTED	65	35	7	28	30		
NOT REPORTED	200	147	41	106	54		
DON'T KNOW	439	314	139	175	126		
NOT REPORTED	81	58	28	31	23		
WALL INSULATION:							
NONE ADDED OR INSTALLED	12 226	7 582	2 469	5 113	4 644		
SOME OR ALL ADDED OR INSTALLED	922	521	153	367	402		
NOT REPORTED	91	69	35	34	22		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	9 224	5 554	1 884	3 670	3 670		
SOME OR ALL ADDED OR INSTALLED	3 862	2 516	737	1 779	1 346		
DON'T KNOW	100	60	12	48	40		
NOT REPORTED	53	41	24	16	13		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	12 409	7 701	2 522	5 179	4 708		
SOME OR ALL ADDED OR INSTALLED	734	399	104	295	335		
NOT REPORTED	96	71	31	40	25		

TABLE C-1: -FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:	1 925	969	449	520	956		
NO WINDOWS COVERED.	294	152	68	85	141		
SOME OR ALL WINDOWS COVERED	1 543	763	342	421	780		
NONE ADDED OR INSTALLED	1 303	666	292	374	637		
SOME OR ALL ADDED OR INSTALLED	219	87	42	45	132		
NOT REPORTED.	21	10	7	3	10		
NOT REPORTED.	89	53	39	14	35		
STORM DOORS:							
NO DOORS COVERED.	382	185	80	104	198		
SOME OR ALL DOORS COVERED	1 450	728	329	399	722		
NONE ADDED OR INSTALLED	1 322	664	303	361	658		
SOME OR ALL ADDED OR INSTALLED	82	39	13	26	43		
NOT REPORTED.	46	25	14	12	21		
NOT REPORTED.	93	56	39	17	37		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	377	175	95	80	202		
WITH ATTIC OR ROOF INSULATION	1 029	521	183	338	508		
NONE ADDED OR INSTALLED	884	443	152	290	441		
SOME OR ALL ADDED OR INSTALLED	113	63	26	37	50		
LESS THAN 3 INCHES ADDED	4	2	-	2	2		
3 TO 6 INCHES ADDED	43	26	12	13	17		
6 INCHES OR MORE ADDED	28	13	5	8	15		
DON'T KNOW.	34	20	7	13	14		
NOT REPORTED.	5	2	2	-	3		
NOT REPORTED.	32	15	5	10	17		
DON'T KNOW.	424	216	128	88	208		
NOT REPORTED.	95	57	42	14	38		
WALL INSULATION:							
NONE ADDED OR INSTALLED	1 735	870	393	477	865		
SOME OR ALL ADDED OR INSTALLED	73	33	9	24	40		
NOT REPORTED.	117	66	47	19	50		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	1 350	673	326	347	677		
SOME OR ALL ADDED OR INSTALLED	350	174	50	124	176		
DON'T KNOW.	133	68	33	35	65		
NOT REPORTED.	92	53	39	14	39		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	1 743	879	398	482	864		
SOME OR ALL ADDED OR INSTALLED	64	24	6	19	39		
NOT REPORTED.	118	65	46	20	53		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	13 239	8 171	2 658	5 514	5 068		
NO INSULATION ADDED OR INSTALLED	7 433	4 464	1 548	2 916	2 969		
WITH INSULATION ADDED OR INSTALLED	5 448	3 452	1 019	2 434	1 995		
LESS THAN \$50	2 566	1 645	432	1 213	921		
\$50 TO \$99	523	322	96	225	201		
\$100 TO \$199	575	348	116	232	227		
\$200 TO \$399	519	326	80	246	193		
\$400 OR MORE	742	468	130	338	274		
DON'T KNOW	198	121	45	76	78		
NOT REPORTED	324	223	120	103	102		
MEDIAN	50-	50-	50-	50-	50-		
NOT REPORTED OR DON'T KNOW	359	255	91	164	104		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
LESS THAN \$50	377	220	73	147	157		
\$50 TO \$99	152	76	22	54	76		
\$100 TO \$199	48	27	12	15	21		
\$200 TO \$399	36	19	5	14	17		
\$400 OR MORE	34	25	5	20	9		
DON'T KNOW	37	27	9	19	9		
NOT REPORTED	7	3	-	3	4		
MEDIAN	63	43	20	22	20		
	52	70	69	71	50-		

TABLE C-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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	264	162	45	118	101		
LESS THAN \$50	43	19	-	19	24		
\$50 TO \$99.	83	47	15	32	36		
\$100 TO \$199.	69	49	15	34	20		
\$200 TO \$399.	31	21	6	15	10		
\$400 OR MORE.	13	10	3	7	2		
DON'T KNOW.	5	2	-	2	4		
NOT REPORTED.	20	15	5	10	5		
MEDIAN.	95	114	129	107	80		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	677	400	125	275	277		
LESS THAN \$50	101	72	16	56	30		
\$50 TO \$99.	96	67	19	49	29		
\$100 TO \$199.	125	66	23	43	58		
\$200 TO \$399.	125	67	19	49	58		
\$400 OR MORE.	127	71	18	53	56		
DON'T KNOW.	55	26	12	14	28		
NOT REPORTED.	48	31	19	11	18		
MEDIAN.	172	149	154	147	197		
ALL OCCUPIED HOUSING UNITS.	20 171	13 240	5 715	7 525	6 931		
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK¹							
OWNER OCCUPIED.	10 230	6 702	2 157	4 544	3 528		
DRIVES SELF	7 749	5 283	1 623	3 660	2 466		
CARPOOL	1 417	903	304	599	514		
MASS TRANSPORTATION	264	260	131	129	4		
BICYCLE OR MOTORCYCLE	44	20	12	8	24		
TAXICAB	3	2	2	-	2		
WALKS ONLY.	231	93	47	45	138		
OTHER MEANS	25	12	-	12	13		
WORKS AT HOME	462	111	26	85	351		
NOT REPORTED.	35	19	12	7	16		
RENTER OCCUPIED	4 045	2 834	1 537	1 297	1 211		
DRIVES SELF	2 712	1 932	931	1 001	780		
CARPOOL	572	361	179	182	211		
MASS TRANSPORTATION	313	308	262	46	5		
BICYCLE OR MOTORCYCLE	23	16	9	7	7		
TAXICAB	12	8	8	-	4		
WALKS ONLY.	293	174	133	41	119		
OTHER MEANS	7	3	2	1	5		
WORKS AT HOME	106	29	13	16	77		
NOT REPORTED.	7	4	-	4	3		
DISTANCE FROM HOME TO WORK¹							
OWNER OCCUPIED.	10 230	6 702	2 157	4 544	3 528		
LESS THAN 1 MILE.	759	275	105	171	484		
1 TO 4 MILES.	2 227	1 324	615	709	903		
5 TO 9 MILES.	1 947	1 499	637	862	448		
10 TO 19 MILES.	2 127	1 685	428	1 257	442		
20 TO 29 MILES.	812	579	73	506	234		
30 TO 49 MILES.	449	267	25	242	181		
50 MILES OR MORE.	117	47	10	37	70		
WORKS AT HOME	462	111	26	85	351		
NO FIXED PLACE OF WORK.	1 183	808	196	611	375		
NOT REPORTED.	147	108	42	65	39		
MEDIAN.	8.2	9.1	6.8	11.2	5.0		
RENTER OCCUPIED	4 045	2 834	1 537	1 297	1 211		
LESS THAN 1 MILE.	563	287	187	100	276		
1 TO 4 MILES.	1 091	746	477	269	345		
5 TO 9 MILES.	804	657	382	275	147		
10 TO 19 MILES.	689	551	237	314	138		
20 TO 29 MILES.	247	184	70	113	63		
30 TO 49 MILES.	103	74	20	54	29		
50 MILES OR MORE.	26	8	5	2	18		
WORKS AT HOME	106	29	13	16	77		
NO FIXED PLACE OF WORK.	364	252	120	132	112		
NOT REPORTED.	53	46	26	20	7		
MEDIAN.	5.7	6.7	5.3	8.5	3.7		

¹LIMITED 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: 1978--CONTINUED
 (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			
ALL OCCUPIED HOUSING UNITS--CONTINUED						
TRAVEL TIME FROM HOME TO WORK ¹						
OWNER OCCUPIED						
LESS THAN 15 MINUTES.	10 230	6 702	2 157	4 544		
15 TO 29 MINUTES.	3 176	1 700	648	1 052		
30 TO 44 MINUTES.	3 145	2 395	863	1 531		
45 TO 59 MINUTES.	1 347	1 049	257	792		
1 HOUR TO 1 HOUR AND 29 MINUTES	470	348	96	253		
1 HOUR AND 30 MINUTES OR MORE	281	189	35	154		
WORKS AT HOME	71	42	12	30		
NO FIXED PLACE OF WORK	462	111	26	85		
NOT REPORTED	1 183	808	196	611		
MEDIAN.	96	61	24	37		
	20.0	22.2	20.3	23.3		
RENTER OCCUPIED						
LESS THAN 15 MINUTES.	4 045	2 834	1 537	1 297		
15 TO 29 MINUTES.	1 538	909	508	401		
30 TO 44 MINUTES.	1 229	992	550	442		
45 TO 59 MINUTES.	526	429	231	198		
1 HOUR TO 1 HOUR AND 29 MINUTES	129	107	54	53		
1 HOUR AND 30 MINUTES OR MORE	101	85	45	40		
WORKS AT HOME	20	11	5	5		
NO FIXED PLACE OF WORK	106	29	13	16		
NOT REPORTED	364	252	120	132		
MEDIAN.	31	21	10	11		
	17.8	20.4	20.1	20.7		

¹LIMITED 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: 1978

(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.	20 171	1 360	3 161	2 231	3 694	2 992	2 544	2 566	1 092	381	149	14500	
HOUSE HEATING FUEL													
OWNER OCCUPIED.	14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500	
UTILITY GAS.	9 775	366	1 133	875	1 560	1 573	1 470	1 677	764	262	95	18000	
BOTTLED, TANK, OR LP GAS.	1 034	78	157	107	218	155	128	119	43	21	8	14000	
FUEL OIL.	2 126	108	280	200	404	338	328	299	109	38	23	16100	
KEROSENE, ETC.	6	-	-	-	2	1	4	-	-	-	-	...	
ELECTRICITY.	1 077	38	77	65	178	191	175	185	104	42	22	19700	
COAL OR COKE.	41	2	12	2	11	9	4	-	2	-	-	12200	
WOOD.	81	12	18	13	15	13	7	-	1	-	-	9400	
SOLAR HEAT.	1	-	-	-	-	-	-	-	-	-	-	...	
OTHER FUEL.	8	-	-	2	2	3	-	-	-	-	1	...	
NONE.	2	-	2	-	-	-	1	-	-	-	-	...	
RENTER OCCUPIED.	6 019	757	1 483	966	1 304	709	429	282	71	16	2	9400	
UTILITY GAS.	4 364	553	1 094	722	947	502	291	197	49	9	-	9200	
BOTTLED, TANK, OR LP GAS.	272	32	61	45	56	37	21	12	4	2	2	9800	
FUEL OIL.	685	90	173	78	155	89	51	39	6	2	1	10000	
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	...	
ELECTRICITY.	609	64	134	101	133	73	58	31	12	4	-	10200	
COAL OR COKE.	19	4	2	5	4	2	2	1	-	-	-	...	
WOOD.	33	5	9	8	5	2	2	2	-	-	-	...	
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-	-	...	
OTHER FUEL.	28	8	8	5	2	-	-	-	-	-	-	...	
NONE.	10	-	3	2	3	2	-	-	-	-	-	...	
WATER HEATING FUEL													
OWNER OCCUPIED.	14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500	
NO HOT PIPED WATER.	90	28	31	8	12	2	3	-	1	-	-	5200	
WITH HOT PIPED WATER.	14 060	574	1 647	1 256	2 378	2 280	2 112	2 281	1 021	364	147	17600	
FUEL USED:													
UTILITY GAS.	9 140	321	1 010	784	1 435	1 490	1 406	1 613	736	253	92	18400	
BOTTLED, TANK, OR LP GAS.	837	61	117	91	183	126	105	96	33	19	5	14100	
FUEL OIL.	143	6	16	7	23	27	22	30	8	2	2	18500	
KEROSENE, ETC.	3	-	2	-	1	1	-	-	-	-	-	...	
ELECTRICITY.	3 917	183	499	373	728	635	580	541	240	91	48	16400	
COAL OR COKE.	1	-	1	-	-	-	-	-	-	-	-	...	
WOOD.	4	-	2	-	3	-	-	-	-	-	-	...	
SOLAR HEAT.	3	-	-	-	-	-	-	-	1	2	-	...	
OTHER FUEL.	9	2	1	1	3	1	-	-	-	-	-	...	
NONE.	3	-	1	-	2	-	-	-	-	-	-	...	
NOT REPORTED.	2	2	-	-	-	1	-	-	-	-	-	...	
RENTER OCCUPIED.	6 019	757	1 483	966	1 304	709	429	282	71	16	2	9400	
NO HOT PIPED WATER.	49	15	18	7	8	1	-	-	-	-	-	5000	
WITH HOT PIPED WATER.	5 970	742	1 465	959	1 296	708	429	282	71	16	2	9400	
FUEL USED:													
UTILITY GAS.	4 390	551	1 140	701	964	493	293	195	45	8	-	9200	
BOTTLED, TANK, OR LP GAS.	202	20	44	36	43	25	19	10	1	2	2	10200	
FUEL OIL.	78	9	22	9	16	9	5	8	-	-	-	9500	
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	...	
ELECTRICITY.	1 272	147	248	212	273	178	112	69	24	7	1	10500	
COAL OR COKE.	4	2	-	-	-	2	-	-	-	-	-	...	
WOOD.	2	-	1	-	-	-	-	-	-	1	-	...	
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-	-	...	
OTHER FUEL.	18	12	5	1	-	-	-	-	-	-	-	...	
NONE.	5	1	4	-	-	-	-	-	-	-	-	...	
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	...	
COOKING FUEL													
OWNER OCCUPIED.	14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500	
UTILITY GAS.	5 656	253	778	553	986	965	837	828	318	109	30	16300	
BOTTLED, TANK, OR LP GAS.	1 051	93	181	121	222	149	125	110	31	16	5	12900	
FUEL OIL.	24	2	2	2	9	3	6	-	-	-	-	...	
KEROSENE, ETC.	5	1	-	1	2	1	-	-	-	-	-	...	
ELECTRICITY.	7 383	246	710	587	1 163	1 165	1 146	1 343	672	239	112	19200	
COAL OR COKE.	3	1	1	-	1	-	-	-	-	-	-	...	
WOOD.	24	7	6	1	6	1	1	1	2	-	1	...	
OTHER FUEL.	2	-	1	1	2	-	-	-	-	-	-	...	
NONE.	2	-	1	-	-	-	1	-	-	-	-	...	
RENTER OCCUPIED.	6 019	757	1 483	966	1 304	709	429	282	71	16	2	9400	
UTILITY GAS.	3 191	454	864	512	702	323	187	115	28	3	1	8600	
BOTTLED, TANK, OR LP GAS.	305	44	81	52	62	33	19	8	3	1	2	8600	
FUEL OIL.	-	-	-	-	-	-	-	-	-	-	-	...	
KEROSENE, ETC.	2	-	-	1	-	-	-	2	-	-	-	...	
ELECTRICITY.	2 450	244	516	392	524	344	221	157	40	11	1	10700	
COAL OR COKE.	1	-	1	-	-	-	-	-	-	-	-	...	
WOOD.	6	2	2	1	1	-	-	-	-	-	-	...	
OTHER FUEL.	5	2	2	2	1	1	-	-	-	-	-	...	
NONE.	59	13	17	6	13	8	-	2	-	-	-	6900	
MONTHLY COST PAID FOR ELECTRICITY													
SPECIFIED OWNER OCCUPIED ¹	11 256	428	1 210	933	1 816	1 825	1 768	2 000	871	294	112	18400	
LESS THAN \$10.	168	42	67	7	18	18	8	8	-	-	-	5500	
\$10 TO \$19.	1 622	123	377	251	300	238	173	124	22	14	-	11000	
\$20 TO \$29.	2 960	120	375	293	572	688	439	874	154	30	16	16200	
\$30 TO \$39.	2 654	59	214	167	414	477	479	520	238	71	14	19900	
\$40 TO \$49.	1 560	38	81	104	223	240	293	352	153	60	18	21600	
\$50 TO \$59.	966	17	40	48	119	159	178	219	133	38	15	22800	
\$60 TO \$79.	822	9	36	49	103	135	127	191	102	46	23	23100	
\$80 TO \$99.	249	7	9	8	25	48	48	57	28	15	3	22800	
\$100 TO \$149.	194	9	5	3	37	21	20	39	35	12	13	25200	
\$150 OR MORE.	58	2	6	3	3	1	1	16	7	8	9	31800	
NO ELECTRICITY USED OR NOT REPORTED.	3	2	-	-	1	1	-	-	-	-	-	...	
MEDIAN.	33	24	24	26	30	33	35	37	41	45	55	...	

¹LIMITED 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: 1978--CONTINUED
(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 \$10,999	\$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 OCCUPIED¹													
LESS THAN \$10	5 814	737	1 451	933	1 261	679	409	263	65	13	2	9300	
\$10 TO \$19	577	83	173	111	126	63	30	12	-	-	-	7900	
\$20 TO \$29	1 726	199	467	313	376	181	111	66	9	3	-	8900	
\$30 TO \$39	1 225	117	278	182	280	183	93	70	16	5	1	10600	
\$40 TO \$49	649	60	117	99	155	107	57	43	9	2	1	11600	
\$50 TO \$59	264	18	28	43	64	41	40	23	6	1	-	13400	
\$60 TO \$79	148	11	26	21	18	25	18	21	8	1	-	14500	
\$80 TO \$99	98	2	10	13	24	12	14	15	4	1	-	14500	
\$100 TO \$149	23	-	3	-	5	3	4	2	5	-	-	14500	
\$150 OR MORE	27	3	-	1	8	10	1	1	2	2	-	14500	
INCLUDED IN RENT	6	1	5	1	-	-	-	-	-	-	-	14500	
NO ELECTRICITY USED OR NOT REPORTED	1 058	238	339	145	203	74	41	11	6	1	1	6400	
MEDIAN	15	5	5	4	1	-	-	-	-	-	-	14500	
20	17	17	18	21	24	24	26	35	35	35	35	14500	
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS													
SPECIFIED OWNER OCCUPIED²													
LESS THAN \$10	11 256	428	1 210	933	1 816	1 825	1 768	2 000	871	294	112	18400	
\$10 TO \$19	801	38	57	43	90	68	45	33	18	5	3	13400	
\$15 TO \$19	311	13	50	26	65	52	43	38	19	5	1	15200	
\$20 TO \$24	478	40	60	68	63	66	68	27	1	4	14300		
\$25 TO \$29	784	41	124	100	121	127	90	138	35	6	2	15200	
\$30 TO \$39	1 031	42	134	112	195	169	159	165	47	7	2	16000	
\$40 TO \$49	2 839	86	291	235	444	484	501	504	216	65	15	18600	
\$50 TO \$69	1 883	46	159	120	280	294	314	413	174	63	21	20700	
\$70 TO \$99	374	12	43	17	71	48	44	47	33	39	17	21000	
\$100 OR MORE	134	5	11	5	21	15	15	26	16	11	9	19500	
NO GAS USED OR NOT REPORTED	1 578	55	150	127	263	280	262	285	105	34	19	23300	
MEDIAN	36	31	33	32	35	35	36	37	41	46	48	18500	
SPECIFIED RENTER OCCUPIED¹													
LESS THAN \$10	5 814	737	1 451	933	1 261	679	409	263	65	13	2	9300	
\$10 TO \$14	575	75	160	111	132	86	32	18	-	-	-	8400	
\$15 TO \$19	343	34	78	71	91	35	26	5	2	-	-	9500	
\$20 TO \$24	274	30	60	59	49	37	22	14	2	-	-	9400	
\$25 TO \$29	281	41	59	50	58	38	18	15	1	-	-	10200	
\$30 TO \$39	303	31	74	43	80	39	18	16	2	-	-	10900	
\$40 TO \$49	574	61	116	85	139	92	39	27	13	2	1	11800	
\$50 TO \$69	257	17	57	28	72	39	22	17	3	2	1	12300	
\$70 TO \$99	221	22	53	32	44	19	14	27	8	-	1	10300	
\$100 OR MORE	76	3	18	11	19	12	5	3	8	-	1	12300	
INCLUDED IN RENT	48	3	12	4	10	6	2	6	1	1	-	11300	
NO GAS USED OR NOT REPORTED	2 179	348	604	334	426	225	143	80	15	4	2	8200	
MEDIAN	688	69	169	104	140	92	67	37	11	2	1	10200	
25	22	23	21	26	28	25	32	40	32	32	32	10200	
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.													
SPECIFIED OWNER OCCUPIED²													
LESS THAN \$100	11 256	428	1 210	933	1 816	1 825	1 768	2 000	871	294	112	18400	
\$100 TO \$199	337	17	25	25	44	37	48	79	48	8	7	22200	
\$200 TO \$299	132	7	14	3	15	16	21	23	26	5	2	22500	
\$300 TO \$399	173	6	29	18	36	19	31	19	13	1	1	14700	
\$400 TO \$499	322	22	37	39	58	56	52	41	12	4	2	15500	
\$500 TO \$599	337	13	36	29	72	70	47	49	15	5	2	16300	
\$600 TO \$699	230	8	36	21	45	36	34	39	8	1	2	15800	
\$700 TO \$799	152	5	18	14	20	26	25	31	7	3	3	18600	
\$800 OR MORE	80	4	12	8	9	9	14	17	5	1	2	19000	
FUELS NOT USED, FREE, OR NOT REPORTED	9 380	343	992	770	1 500	1 539	1 480	1 678	728	260	89	18500	
MEDIAN	391	354	414	392	406	421	384	396	192	35	35	18500	
SPECIFIED RENTER OCCUPIED¹													
LESS THAN \$100	5 814	737	1 451	933	1 261	679	409	263	65	13	2	9300	
\$100 TO \$199	41	7	8	11	7	2	1	4	1	-	-	8500	
\$200 TO \$299	39	5	10	4	7	5	4	1	3	-	-	10200	
\$300 TO \$399	45	2	12	6	12	3	5	2	1	-	-	10700	
\$400 TO \$499	58	7	17	5	18	5	4	4	-	-	-	10100	
\$500 TO \$599	53	5	5	6	13	11	8	5	-	-	-	14500	
\$600 TO \$699	39	2	6	6	8	10	5	2	-	-	-	13800	
\$700 TO \$799	31	3	5	4	12	3	2	2	-	-	-	13800	
\$800 OR MORE	11	1	2	2	2	2	1	2	-	-	-	10000	
INCLUDED IN RENT	23	2	2	1	5	5	4	3	1	-	-	10000	
FUELS NOT USED, FREE, OR NOT REPORTED	537	98	144	87	109	53	23	18	5	-	-	7900	
MEDIAN	4 938	605	1 238	803	1 067	581	352	223	55	11	2	9300	
376	321	315	384	470	388	388	388	388	388	388	388	10000	
ALL OCCUPIED HOUSING UNITS													
HEATING EQUIPMENT		20 171	1 360	3 161	2 231	3 694	2 992	2 544	2 566	1 092	381	149	14500
OWNER OCCUPIED		14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500
WARM-AIR FURNACE		10 940	372	1 176	941	1 841	1 797	1 732	1 886	820	270	105	18200
HEAT PUMP		159	6	3	7	14	21	30	43	24	10	2	24800
STEAM OR HOT WATER		1 304	46	157	109	221	208	182	188	110	58	25	17900
BUILT-IN ELECTRIC UNITS		609	17	54	40	99	123	89	102	51	19	14	18800
FLOOR, WALL, OR PIPELESS FURNACE		336	30	86	50	58	51	21	30	7	2	-	10100
ROOM HEATERS WITH FLUE		628	107	161	93	126	59	48	23	6	3	1	8500
ROOM HEATERS WITHOUT FLUE		26	3	7	4	4	1	2	4	1	-	-	10000
FIREPLACES, STOVES, OR PORTABLE HEATERS		148	21	33	20	27	23	11	9	2	3	-	10000
NONE		2	-	2	-	-	-	1	-	-	-	-	10000

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

²LIMITED 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: 1978--CONTINUED

(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 \$6,999	\$3,000 TO \$9,999	\$7,000 TO \$14,999	\$10,000 TO \$19,999	\$15,000 TO \$24,999	\$20,000 TO \$34,999	\$25,000 TO \$49,999	\$35,000 TO \$49,999	\$50,000 TO \$74,999	\$75,000 OR MORE \$74,999
ALL OCCUPIED HOUSING UNITS--CONTINUED												
HEATING EQUIPMENT--CONTINUED												
RENTER OCCUPIED	6 019	757	1 483	966	1 304	709	429	282	71	16	2	9400
WARM-AIR FURNACE	3 097	309	691	481	718	426	232	176	53	9	1	10500
HEAT PUMP	19	-	4	1	7	3	2	-	1	-	-	..
STEAM OR HOT WATER	1 666	237	444	290	336	160	119	68	8	3	1	8600
BUILT-IN ELECTRIC UNITS	396	38	104	69	76	47	37	18	5	2	-	9400
FLOOR, WALL, OR PIPELESS FURNACE	236	52	70	29	48	24	7	5	1	-	-	6800
ROOM HEATERS WITH FLUE	511	107	151	76	98	34	27	12	4	-	-	6900
ROOM HEATERS WITHOUT FLUE	26	2	5	3	9	5	2	-	-	-	-	..
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	12	11	14	9	7	3	2	-	-	-	8200
NONE	10	-	3	2	3	2	-	-	-	-	-	..
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
OWNER OCCUPIED	14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500
NO HEATING EQUIPMENT	2	-	2	-	-	-	1	-	-	-	-	-
WITH HEATING EQUIPMENT	14 150	603	1 677	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500
NO THERMOSTAT CONTROL	623	108	164	86	114	68	35	34	6	3	4	8400
WITH THERMOSTAT CONTROL	13 475	478	1 510	1 169	2 271	2 215	2 078	2 246	1 009	356	143	18000
NOT CLOCK OPERATED	12 337	422	1 382	1 077	2 090	2 028	1 923	2 060	918	322	115	18000
CONSTANT TEMPERATURE SETTING MAINTAINED	4 068	143	496	325	722	709	648	638	270	87	30	17500
TEMPERATURE SETTING IS CHANGED	8 238	277	880	751	1 366	1 313	1 272	1 414	644	235	85	18200
OCCASIONALLY	2 292	97	279	200	367	346	378	356	171	71	26	17900
REGULARLY	5 872	175	591	546	984	961	884	1 045	463	164	59	18300
DON'T KNOW	64	5	10	3	13	5	9	13	5	1	-	16300
NOT REPORTED	10	-	2	2	1	1	1	-	5	-	-	..
CLOCK OPERATED	32	2	6	1	2	6	2	8	4	1	-	..
NOT REPORTED	1 092	53	122	86	176	181	151	176	88	32	25	18000
NOT REPORTED	45	3	6	6	4	6	5	9	3	1	2	18000
NONE	52	17	3	9	5	-	2	5	6	6	-	9000
RENTER OCCUPIED	6 019	757	1 483	966	1 304	709	429	282	71	16	2	9400
NO HEATING EQUIPMENT	10	-	3	2	3	2	-	-	-	-	-	..
WITH HEATING EQUIPMENT	6 009	757	1 480	965	1 301	706	429	282	71	16	2	9400
NO THERMOSTAT CONTROL	1 681	330	508	286	326	124	70	29	5	3	1	7000
WITH THERMOSTAT CONTROL	4 320	427	971	677	971	581	358	253	67	13	2	10400
NOT CLOCK OPERATED	4 009	400	892	618	911	539	329	241	64	13	2	10500
CONSTANT TEMPERATURE SETTING MAINTAINED	1 291	159	304	205	316	159	81	50	12	3	2	9700
TEMPERATURE SETTING IS CHANGED	2 697	238	584	411	592	378	243	189	52	10	-	11000
OCCASIONALLY	914	93	218	126	205	118	77	55	21	8	-	10500
REGULARLY	1 749	140	361	274	381	258	161	133	31	-	-	11300
DON'T KNOW	33	4	10	6	2	5	2	-	-	-	-	..
NOT REPORTED	1	-	1	-	-	-	-	-	-	-	-	..
CLOCK OPERATED	21	4	5	2	2	3	4	2	-	-	-	..
NOT REPORTED	285	19	68	59	57	39	28	12	2	-	-	9800
NOT REPORTED	26	8	10	-	4	2	1	-	-	-	-	..
NONE	8	-	2	1	3	1	-	-	-	-	-	-
ALL OCCUPIED HOUSING UNITS	20 171	1 360	3 161	2 231	3 694	2 992	2 544	2 566	1 092	381	149	14500
UNITS OCCUPIED LAST WINTER	16 794	1 028	2 627	1 783	2 961	2 491	2 175	2 271	978	345	135	15000
INSUFFICIENT HEAT												
CLOSURE OF ROOMS:												
OWNER OCCUPIED	12 860	568	1 610	1 184	2 109	2 026	1 900	2 071	929	329	133	17400
WITH HEATING EQUIPMENT	12 859	568	1 609	1 184	2 109	2 026	1 900	2 071	929	329	133	17400
NO ROOMS CLOSED	12 218	500	1 491	1 120	1 985	1 943	1 834	2 013	902	309	122	17600
CLOSED CERTAIN ROOMS	497	49	105	43	100	71	53	44	12	14	6	12600
LIVING ROOM ONLY	22	2	7	3	1	2	2	-	1	-	-	..
DINING ROOM ONLY	9	2	-	1	2	-	1	-	-	-	-	..
1 OR MORE BEDROOMS ONLY	325	35	76	30	67	39	33	30	6	7	2	11600
OTHER ROOMS OR COMBINATION OF ROOMS	132	9	22	12	27	23	17	10	3	7	4	14400
NOT REPORTED	8	-	-	-	2	2	1	1	2	-	-	..
NOT REPORTED	144	19	13	21	24	12	14	14	7	5	5	13700
NO HEATING EQUIPMENT	2	-	2	-	-	-	-	-	-	-	-	..
RENTER OCCUPIED	3 934	460	1 017	599	851	465	275	200	50	16	2	9500
WITH HEATING EQUIPMENT	3 926	460	1 014	598	849	463	275	200	50	16	2	9500
NO ROOMS CLOSED	3 606	430	919	536	789	421	261	185	48	16	2	9500
CLOSED CERTAIN ROOMS	270	26	86	50	47	33	12	13	1	-	-	8400
LIVING ROOM ONLY	22	2	20	-	-	1	-	-	-	-	-	..
DINING ROOM ONLY	4	-	3	-	-	1	-	-	-	-	-	..
1 OR MORE BEDROOMS ONLY	185	20	49	38	35	20	10	10	1	-	-	8800
OTHER ROOMS OR COMBINATION OF ROOMS	60	5	14	12	12	12	2	3	-	-	-	9800
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
NO HEATING EQUIPMENT	49	3	10	12	13	8	1	2	1	-	-	10200
NONE	8	-	3	1	2	2	-	-	-	-	-	..
ADDITIONAL HEAT SOURCE:												
OWNER OCCUPIED	12 860	568	1 610	1 184	2 109	2 026	1 900	2 071	929	329	133	17400
WITH SPECIFIED HEATING EQUIPMENT	12 695	546	1 570	1 161	2 079	2 007	1 890	2 059	926	326	133	17500
NO ADDITIONAL HEAT SOURCE USED	11 702	478	1 429	1 061	1 908	1 866	1 732	1 953	867	284	124	17600
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	874	50	129	82	148	129	148	95	51	37	5	16100
NOT REPORTED	120	18	12	18	23	12	10	10	8	5	3	12600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	165	22	40	24	30	19	11	13	2	3	-	9500
RENTER OCCUPIED	3 934	460	1 017	599	851	465	275	200	50	16	2	9500
WITH SPECIFIED HEATING EQUIPMENT	3 860	450	1 001	581	835	454	272	199	50	16	2	9500
NO ADDITIONAL HEAT SOURCE USED	3 298	384	836	481	720	388	251	180	44	13	2	9700
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	517	63	155	90	103	60	20	17	5	2	1	8300
NOT REPORTED	44	3	10	10	12	6	1	2	1	-	-	9900
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	74	9	16	18	17	11	2	2	-	-	-	9000

¹EXCLUDES 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 CHARACTERISTICS¹ 1978--CONTINUED

(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 (DOL- LARS)	
		\$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 (DOL- LARS)		
ALL OCCUPIED HOUSING UNITS--CONTINUED													
UNITS OCCUPIED LAST WINTER--CONTINUED													
INSUFFICIENT HEAT--CONTINUED													
ROOMS LACKING SPECIFIED HEAT SOURCE:													
OWNER OCCUPIED.	12 860	568	1 610	1 184	2 109	2 026	1 900	2 071	929	329	133	17400	
WITH SPECIFIED HEATING EQUIPMENT ²	12 695	546	1 570	1 161	2 079	2 007	1 890	2 059	926	326	133	17500	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	10 547	339	1 175	912	1 680	1 694	1 656	1 836	836	295	124	18400	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 988	183	378	226	375	296	223	209	71	24	4	12800	
1 ROOM.	718	52	102	63	124	130	99	102	32	12	1	15700	
2 ROOMS	541	44	113	74	115	81	50	45	18	2	1	11700	
3 ROOMS OR MORE	729	87	163	89	136	85	74	63	21	10	2	10900	
NOT REPORTED	160	24	17	22	24	17	11	14	19	7	5	13600	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	165	22	40	24	30	19	11	13	2	3	-	9500	
RENTER OCCUPIED	3 934	460	1 017	599	851	465	275	200	50	16	2	9500	
WITH SPECIFIED HEATING EQUIPMENT ²	3 860	450	1 001	581	835	454	272	199	50	16	2	9500	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 034	323	800	445	638	374	232	170	38	14	2	9700	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	765	120	188	126	182	74	36	27	12	2	1	8800	
1 ROOM.	292	32	75	50	85	24	8	12	6	1	1	9400	
2 ROOMS	234	47	58	40	46	27	11	3	2	-	-	7900	
3 ROOMS OR MORE	239	41	55	36	50	23	17	13	3	1	-	8900	
NOT REPORTED	60	8	13	10	16	6	5	2	1	-	-	9500	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	74	9	16	18	17	11	2	2	-	-	-	9000	
ALL OCCUPIED HOUSING UNITS.	20 171	1 360	3 161	2 231	3 694	2 992	2 544	2 566	1 092	381	149	14500	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
OWNER OCCUPIED.	14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	150	21	35	20	27	23	11	9	2	3	-	9900	
WITH SELECTED HEATING EQUIPMENT ²	14 002	582	1 644	1 245	2 363	2 260	2 104	2 276	1 020	361	147	17600	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	13 212	536	1 588	1 181	2 256	2 121	1 959	2 137	959	337	139	17500	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	702	30	47	53	96	134	134	132	53	19	5	19700	
SOLAR HEATING EQUIPMENT	6	-	-	-	-	2	-	1	2	-	-	...	
STOVE, BURNING WOOD OR COAL	286	9	17	22	40	57	57	55	18	8	3	19800	
FIREPLACE, BURNING WOOD OR COAL	98	7	2	2	10	21	28	21	3	5	-	21400	
PORTABLE ELECTRIC HEATER	156	6	14	14	24	29	24	24	15	6	2	18600	
ROOM HEATER WITHOUT FLUE OR VENT,													
BURNING GAS, OIL, OR KEROSENE	30	2	5	5	5	2	7	3	-	-	-	...	
OTHER	108	5	8	7	10	21	18	25	13	1	1	21000	
NOT REPORTED	20	1	2	4	5	2	1	3	2	-	-	...	
NOT REPORTED.	88	16	9	12	12	5	11	7	8	6	3	13400	
RENTER OCCUPIED	6 019	757	1 483	966	1 304	709	429	282	71	16	2	9400	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	69	12	14	16	12	9	3	2	-	-	-	8600	
WITH SELECTED HEATING EQUIPMENT ²	5 950	745	1 469	950	1 292	699	426	280	71	16	2	9400	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 702	719	1 408	906	1 244	662	410	266	69	16	2	9400	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	210	23	50	36	43	32	13	10	2	1	-	9700	
SOLAR HEATING EQUIPMENT	1	-	-	-	1	-	-	-	-	-	-	...	
STOVE, BURNING WOOD OR COAL	24	2	5	3	8	4	2	-	-	-	-	...	
FIREPLACE, BURNING WOOD OR COAL	8	-	-	-	1	2	2	1	-	-	-	...	
PORTABLE ELECTRIC HEATER	133	12	34	26	25	20	9	6	2	-	-	9400	
ROOM HEATER WITHOUT FLUE OR VENT,													
BURNING GAS, OIL, OR KEROSENE	20	6	3	5	2	2	-	2	-	-	-	...	
OTHER	20	-	7	2	7	4	-	1	-	-	-	...	
NOT REPORTED.	6	3	1	2	-	1	-	-	-	-	-	...	
NOT REPORTED.	38	3	11	8	5	5	3	4	-	-	-	9000	
AGE OF HEATING EQUIPMENT													
OWNER OCCUPIED.	14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	132	203	117	157	82	61	36	9	6	1	8700	
WITH SELECTED HEATING EQUIPMENT ²	13 348	471	1 476	1 148	2 234	2 201	2 054	2 248	1 013	358	146	18100	
LESS THAN 4 YEARS	2 117	54	185	139	327	367	347	435	179	52	32	19800	
4 TO 9 YEARS	3 415	91	329	275	590	567	582	585	254	103	37	18700	
10 TO 19 YEARS	4 083	157	433	343	645	665	606	719	352	114	48	18500	
20 TO 39 YEARS	2 514	81	352	244	419	414	377	374	167	64	22	16900	
40 YEARS OR MORE	249	9	47	28	60	44	26	26	9	4	-	13700	
DON'T KNOW.	692	37	90	78	133	123	94	86	39	8	4	15300	
NOT REPORTED.	278	41	40	45	61	20	21	22	13	2	2	11000	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
OWNER OCCUPIED.	14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	132	203	117	157	82	61	36	9	6	1	8700	
WITH SELECTED HEATING EQUIPMENT ²	13 348	471	1 476	1 148	2 234	2 201	2 054	2 248	1 013	358	146	18100	
NO MAINTENANCE OR MODIFICATION.	10 070	354	1 123	836	1 718	1 709	1 530	1 678	754	255	111	17900	
WITH MAINTENANCE OR MODIFICATION.	3 021	88	319	264	458	475	504	548	246	91	33	19100	
NOT REPORTED.	4257	32	34	48	58	17	20	22	12	11	2	11200	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
OWNER OCCUPIED.	14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147	17500	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	132	203	117	157	82	61	36	9	6	1	8700	
WITH SELECTED HEATING EQUIPMENT ²	13 348	471	1 476	1 148	2 234	2 201	2 054	2 248	1 013	358	146	18100	
NO MAINTENANCE CONTRACT.	12 246	407	1 358	1 032	2 033	2 045	1 902	2 075	933	331	131	18200	
WITH MAINTENANCE CONTRACT.	823	24	78	72	138	134	132	146	65	19	13	18700	
NOT REPORTED.	279	41	40	43	62	22	20	27	15	6	2	11200	

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

²EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

³EXCLUDES 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: 1976--CONTINUED

NORTH CENTRAL REGION		TOTAL	\$3,000 TO \$6,999	\$3,000 TO \$9,999	\$3,000 TO \$14,999	\$3,000 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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
OWNER OCCUPIED.		14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147
NO HOT PIPED WATER.		90	28	31	8	12	2	3	3	-	1	-
WITH HOT PIPED WATER.		14 060	574	1 647	1 256	2 378	2 280	2 112	2 281	1 021	364	147
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.		13 805	551	1 618	1 222	2 331	2 256	2 083	2 252	993	355	145
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.		66	2	5	3	9	13	16	8	9	2	20200
NOT REPORTED.		182	21	23	31	36	10	14	20	17	7	2 12200
NOT REPORTED.		2	2	-	-	-	1	-	-	-	-	...
RENTER OCCUPIED.		6 019	757	1 483	966	1 304	709	429	282	71	16	2 9400
NO HOT PIPED WATER.		49	15	18	7	8	1	-	-	-	-	5000
WITH HOT PIPED WATER.		5 970	742	1 465	959	1 296	708	429	282	71	16	2 9400
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.		5 816	709	1 412	938	1 270	701	418	278	71	16	2 9500
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.		32	3	15	-	7	3	3	2	-	-	...
NOT REPORTED.		117	29	33	22	19	4	9	2	-	-	6500
NOT REPORTED.		-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
OWNER OCCUPIED.		14 152	603	1 678	1 265	2 390	2 283	2 115	2 284	1 021	365	147
WITH AIR CONDITIONING.		8 350	247	755	662	1 325	1 312	1 382	1 549	754	286	118
ROOM UNITS.		4 299	155	529	410	791	751	661	641	261	79	21
1.		2 890	123	420	301	593	505	410	368	122	38	9 15100
2.		1 119	27	96	92	175	208	204	192	92	30	5 19100
3.		242	3	12	12	20	33	43	66	38	7	2 24600
4.		36	2	1	4	2	3	3	12	7	2	2 27200
5 OR MORE.		12	-	2	-	-	2	-	3	3	2	...
CENTRAL SYSTEM.		4 050	92	226	252	534	561	681	907	493	207	97 22600
WITH NO AIR CONDITIONING.		5 803	356	923	603	1 065	971	774	735	267	79	29 19800
RENTER OCCUPIED.		6 019	757	1 483	966	1 304	709	429	282	71	16	2 9400
WITH AIR CONDITIONING.		2 908	228	555	472	689	416	284	201	49	14	2 11400
ROOM UNITS.		2 036	169	432	329	487	293	183	111	24	7	2 10900
1.		1 673	157	394	277	392	237	136	64	14	2	1 10100
2.		320	10	33	44	89	46	43	39	10	5	1 14100
3.		29	2	5	5	5	4	2	5	1	1	...
4.		12	-	2	-	6	2	2	-	-	-	...
5 OR MORE.		2	-	-	2	-	-	-	-	-	-	...
CENTRAL SYSTEM.		871	59	122	143	202	123	100	90	24	7	1 12700
WITH NO AIR CONDITIONING.		3 111	529	928	494	615	293	145	81	23	2	1 7600
ALL OCCUPIED HOUSING UNITS.		20 171	1 360	3 161	2 231	3 694	2 992	2 544	2 566	1 092	381	149 14500
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS.		15 164	758	1 916	1 414	2 661	2 419	2 160	2 319	1 023	354	140 16700
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
OWNER OCCUPIED.		13 239	547	1 507	1 141	2 229	2 145	2 017	2 194	976	346	137
ALL WINDOWS COVERED.		11 270	400	1 192	931	1 870	1 850	1 777	1 958	867	303	122
SOME WINDOWS COVERED.		1 351	91	219	145	251	210	166	152	78	30	10 14400
NO WINDOWS COVERED.		563	49	92	59	98	78	69	77	27	10	4 14200
NOT REPORTED.		55	7	3	7	10	7	5	7	4	3	2 15300
RENTER OCCUPIED.		1 925	211	409	272	432	274	143	125	47	8	2 10800
ALL WINDOWS COVERED.		1 182	111	224	158	266	183	97	101	33	8	2 11900
SOME WINDOWS COVERED.		360	37	89	63	79	52	24	11	5	1	1 9600
NO WINDOWS COVERED.		294	52	69	45	67	24	19	8	10	-	1 8700
NOT REPORTED.		89	11	28	7	20	15	3	5	-	-	1 9300
STORM DOORS												
OWNER OCCUPIED.		13 239	547	1 507	1 141	2 229	2 145	2 017	2 194	976	346	137
ALL DOORS COVERED.		10 755	393	1 212	939	1 811	1 762	1 649	1 836	783	266	105
SOME DOORS COVERED.		1 477	85	169	122	269	237	232	205	104	46	9 17000
NO DOORS COVERED.		949	61	122	73	138	138	130	148	66	31	22 17900
NOT REPORTED.		59	8	4	8	11	8	6	6	3	3	2 14400
RENTER OCCUPIED.		1 925	211	409	272	432	274	143	125	47	8	2 10800
ALL DOORS COVERED.		1 138	109	223	147	245	180	104	90	31	8	2 11800
SOME DOORS COVERED.		311	35	57	53	80	49	13	18	5	-	1 10600
NO DOORS COVERED.		382	55	99	65	87	30	23	10	11	1	1 8700
NOT REPORTED.		93	12	30	7	20	15	3	7	-	-	1 9200
ATTIC OR ROOF INSULATION												
OWNER OCCUPIED.		13 239	547	1 507	1 141	2 229	2 145	2 017	2 194	976	346	137
YES.		11 617	423	1 186	944	1 927	1 922	1 832	2 021	907	322	132
NO.		1 102	68	236	182	191	192	134	120	34	19	1 12200
DON'T KNOW.		439	25	76	46	99	72	43	48	27	6	1 13700
NOT REPORTED.		81	11	9	9	12	8	9	6	8	4	5 14400
RENTER OCCUPIED.		1 925	211	409	272	432	274	143	125	47	8	2 10800
YES.		1 029	88	198	135	241	162	80	83	32	7	2 11900
NO.		377	59	78	64	72	49	24	18	11	2	1 9400
DON'T KNOW.		424	51	104	66	99	48	32	19	5	-	1 9600
NOT REPORTED.		95	13	30	7	20	15	6	5	-	-	1 9300

¹LIMITED 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: 1978--CONTINUED

(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	\$7,000	\$10,000	\$15,000	\$20,000	\$25,000	\$35,000	\$50,000	\$75,000	MEDIAN (DOL- LARS)	
		TO	\$6,999	\$9,999	\$14,999	\$19,999	\$24,999	\$34,999	\$49,999	TO	OR MORE		
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													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
NO WINDOWS COVERED	13 239	547	1 507	1 141	2 229	2 145	2 017	2 194	976	346	137	17800	
SOME OR ALL WINDOWS COVERED	563	49	92	59	98	78	69	77	27	10	4	14200	
NONE ADDED OR INSTALLED	12 621	491	1 412	1 075	2 121	2 060	1 943	2 111	944	333	131	17900	
SOME OR ALL ADDED OR INSTALLED	11 231	433	1 287	973	1 854	1 828	1 736	1 869	845	296	111	17900	
NOT REPORTED	1 321	50	119	93	254	227	199	228	96	36	19	18200	
NOT REPORTED	69	8	5	9	13	5	9	14	3	1	2	14500	
NOT REPORTED	55	7	3	7	10	7	5	7	4	3	2	15300	
STORM DOORS:													
NO DOORS COVERED	949	61	122	73	138	130	148	86	31	22	17900		
SOME OR ALL DOORS COVERED	12 232	478	1 381	1 061	2 080	1 999	1 881	2 041	886	312	114	17800	
NONE ADDED OR INSTALLED	11 118	425	1 300	988	1 888	1 827	1 690	1 824	790	285	103	17600	
SOME OR ALL ADDED OR INSTALLED	944	37	66	58	153	151	161	197	85	26	10	20200	
NOT REPORTED	170	16	15	15	39	21	30	20	12	1	1	15000	
NOT REPORTED	59	8	4	8	11	8	6	6	3	3	2	14400	
ATTIC OR ROOF INSULATION:													
NO ATTIC OR ROOF INSULATION	1 102	88	236	142	191	142	134	120	34	14	1	12200	
WITH ATTIC OR ROOF INSULATION	11 617	423	1 186	944	1 927	1 922	1 832	2 021	907	322	132	18500	
NONE ADDED OR INSTALLED	10 087	352	1 081	848	1 654	1 672	1 580	1 695	805	280	120	18300	
SOME OR ALL ADDED OR INSTALLED	1 329	55	94	79	233	225	217	292	94	29	10	19500	
LESS THAN 3 INCHES ADDED	87	2	6	7	16	16	10	24	4	-	-	18500	
3 TO 6 INCHES ADDED	556	22	43	43	93	95	91	122	28	13	5	19000	
6 INCHES OR MORE ADDED	526	21	31	16	99	84	86	121	49	16	3	20700	
DON'T KNOW	96	7	10	9	15	18	11	17	7	-	-	16700	
NOT REPORTED	65	2	5	3	10	12	19	8	7	-	-	20200	
NOT REPORTED	200	17	10	17	40	25	34	33	7	14	2	18200	
DON'T KNOW	439	25	76	46	99	72	43	48	27	6	-	13700	
NOT REPORTED	81	11	9	9	12	8	9	6	8	4	5	14400	
WALL INSULATION:													
NONE ADDED OR INSTALLED	12 226	502	1 428	1 100	2 037	1 975	1 863	1 975	887	327	132	17600	
SOME OR ALL ADDED OR INSTALLED	922	33	71	33	175	159	146	207	81	13	3	19700	
NOT REPORTED	91	12	9	8	17	11	8	12	8	6	2	15100	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:													
NONE ADDED OR INSTALLED	9 224	430	1 221	872	1 531	1 439	1 341	1 416	648	229	96	16900	
SOME OR ALL ADDED OR INSTALLED	3 882	99	277	257	670	689	658	750	318	107	38	19600	
DON'T KNOW	100	11	5	5	20	11	12	20	7	6	2	18800	
NOT REPORTED	53	7	3	8	7	5	5	8	3	4	2	16000	
OTHER INSULATION:													
NONE ADDED OR INSTALLED	12 409	515	1 455	1 088	2 055	1 995	1 887	2 052	913	320	129	17700	
SOME OR ALL ADDED OR INSTALLED	734	23	48	44	158	138	116	126	57	20	5	18400	
NOT REPORTED	96	10	4	9	16	11	14	16	6	6	3	18900	
RENTER OCCUPIED													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	1 925	211	409	272	432	274	143	125	47	8	2	10800	
NO WINDOWS COVERED	294	52	69	45	67	24	19	8	10	-	1	8700	
SOME OR ALL WINDOWS COVERED	1 543	148	312	221	345	235	121	112	38	8	2	11300	
NONE ADDED OR INSTALLED	1 303	126	268	186	288	188	109	96	33	7	2	11200	
SOME OR ALL ADDED OR INSTALLED	219	21	40	32	51	43	10	16	5	1	-	11600	
NOT REPORTED	21	1	4	3	5	4	2	1	-	-	-	9300	
NOT REPORTED	89	11	28	7	20	15	3	5	-	-	-	9300	
STORM DOORS:													
NO DOORS COVERED	382	55	99	65	87	30	23	10	11	1	1	8700	
SOME OR ALL DOORS COVERED	1 450	144	280	200	325	229	116	109	36	8	2	11500	
NONE ADDED OR INSTALLED	1 322	137	258	187	294	195	109	101	31	7	2	11300	
SOME OR ALL ADDED OR INSTALLED	82	2	15	9	19	24	5	4	3	-	-	14000	
NOT REPORTED	46	5	7	4	12	11	2	3	1	1	-	13100	
NOT REPORTED	93	12	30	7	20	15	3	7	-	-	-	9200	
ATTIC OR ROOF INSULATION:													
NO ATTIC OR ROOF INSULATION	377	59	78	64	72	49	24	18	11	2	1	9400	
WITH ATTIC OR ROOF INSULATION	1 029	88	198	135	241	162	80	83	32	7	2	11900	
NONE ADDED OR INSTALLED	684	80	171	116	206	137	68	73	27	5	1	11800	
SOME OR ALL ADDED OR INSTALLED	113	7	23	12	27	19	8	9	5	2	1	12700	
LESS THAN 3 INCHES ADDED	4	-	1	2	-	-	-	-	-	-	-	11000	
3 TO 6 INCHES ADDED	43	2	13	3	11	5	3	2	2	2	-	11000	
6 INCHES OR MORE ADDED	28	2	5	1	7	3	4	4	1	1	-	11000	
DON'T KNOW	34	3	4	6	6	10	1	2	2	1	-	11000	
NOT REPORTED	5	-	1	1	2	1	-	1	-	-	-	11000	
NOT REPORTED	32	1	4	5	8	6	5	1	-	-	-	11000	
DON'T KNOW	424	51	104	66	99	48	32	19	5	-	-	9600	
NOT REPORTED	95	13	30	7	20	15	6	5	-	-	-	9300	
WALL INSULATION:													
NONE ADDED OR INSTALLED	1 735	186	372	248	390	246	129	113	41	8	2	10800	
SOME OR ALL ADDED OR INSTALLED	73	10	8	12	13	11	6	6	6	-	1	12800	
NOT REPORTED	117	15	30	12	30	17	7	6	-	-	-	10100	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:													
NONE ADDED OR INSTALLED	1 350	155	296	188	309	171	102	92	30	5	2	10600	
SOME OR ALL ADDED OR INSTALLED	350	32	53	51	74	70	28	23	15	4	-	12600	
DON'T KNOW	133	13	31	27	29	18	9	5	2	-	-	9500	
NOT REPORTED	92	11	30	7	20	15	5	6	-	-	-	9500	
OTHER INSULATION:													
NONE ADDED OR INSTALLED	1 743	193	367	248	394	240	130	116	43	8	2	10800	
SOME OR ALL ADDED OR INSTALLED	64	5	9	10	13	15	4	4	3	-	-	12800	
NOT REPORTED	118	13	33	14	25	18	9	6	1	-	-	9900	

TABLE C-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED

(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 TO \$6,999	\$3,000 TO \$9,999	\$7,000 TO \$14,999	\$10,000 TO \$19,999	\$15,000 TO \$24,999	\$20,000 TO \$34,999	\$25,000 TO \$49,999	\$35,000 TO \$67,999	\$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.	13 239	547	1 507	1 141	2 229	2 145	2 017	2 194	976	346	137	17800	
NO INSULATION ADDED OR INSTALLED.	7 433	349	1 059	749	1 178	1 165	1 069	1 086	522	179	76	16600	
WITH INSULATION ADDED OR INSTALLED.	5 448	164	422	364	977	939	893	1 053	436	145	55	19200	
LESS THAN \$50.	2 566	69	207	197	477	463	412	443	207	70	21	18600	
\$50 TO \$99.	523	17	31	36	107	88	80	103	43	9	7	19000	
\$100 TO \$199.	575	17	40	35	97	101	99	136	40	9	1	19900	
\$200 TO \$399.	519	8	30	25	88	89	91	117	38	25	8	21100	
\$400 OR MORE.	742	23	51	40	114	120	134	160	68	23	10	20900	
DON'T KNOW.	198	11	21	12	39	24	27	36	21	6	2	18400	
NOT REPORTED.	324	20	42	20	56	53	48	57	20	2	7	17400	
MEDIAN.	50-	50-	50-	50-	50-	50-	50-	50-	50-	50-	68	...	
NOT REPORTED OR DON'T KNOW.	359	34	26	28	74	41	56	55	17	22	6	17200	
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
LESS THAN \$50.	377	16	36	33	93	59	51	51	21	11	5	15800	
\$50 TO \$99.	152	4	19	17	40	23	14	24	4	4	3	14500	
\$100 TO \$199.	48	3	3	4	15	6	4	3	8	2	-	14700	
\$200 TO \$399.	36	4	2	3	10	5	6	4	2	-	-	18400	
\$400 OR MORE.	34	1	1	4	2	12	6	2	2	3	-	20600	
DON'T KNOW.	37	2	1	-	5	9	11	6	-	2	-	20600	
NOT REPORTED.	7	1	1	-	2	1	2	2	-	-	2	13900	
MEDIAN.	63	2	10	5	18	4	8	10	4	-	-	...	
52	...	...	...	50-	87	138	50-	...	...	...	...	...
ONLY ADDED OR INSTALLED STORM DOORS													
LESS THAN \$50.	264	14	16	26	39	39	46	53	21	7	2	19700	
\$50 TO \$99.	43	3	4	4	9	7	5	5	6	-	-	15700	
\$100 TO \$199.	83	3	7	10	10	13	11	21	7	-	-	19300	
\$200 TO \$399.	69	3	3	5	16	12	13	9	3	4	-	17800	
\$400 OR MORE.	31	-	2	2	1	3	10	10	4	-	-	...	
DON'T KNOW.	13	-	-	2	1	1	3	2	1	-	-	...	
NOT REPORTED.	5	-	-	2	-	-	2	-	-	-	2	...	
MEDIAN.	20	4	-	2	3	3	2	7	-	-	-	...	
95	...	...	...	96	91	138	93	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION													
INSULATION.	677	25	61	32	129	110	99	148	51	16	7	19200	
LESS THAN \$50.	101	8	7	3	24	21	15	17	3	1	2	17000	
\$50 TO \$99.	96	2	6	3	20	21	6	27	7	2	-	18600	
\$100 TO \$199.	125	6	12	7	22	16	21	34	8	-	-	20100	
\$200 TO \$399.	125	2	12	5	24	18	20	28	10	6	2	20700	
\$400 OR MORE.	127	2	12	8	22	18	23	26	9	5	4	20500	
DON'T KNOW.	55	4	6	3	13	7	6	7	2	-	-	16200	
NOT REPORTED.	48	2	8	2	4	10	7	9	7	1	-	19800	
MEDIAN.	172	...	196	...	152	128	202	163	215	...	...	...	...
ALL OCCUPIED HOUSING UNITS.	20 171	1 360	3 161	2 231	3 694	2 992	2 544	2 566	1 092	381	149	14500	
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK ¹													
OWNER OCCUPIED.	10 230	187	402	581	1 708	1 891	1 923	2 119	951	333	135	20900	
DRIVES SELF.	7 749	111	238	415	1 239	1 483	1 485	1 653	768	259	98	21300	
CARPOOL.	1 417	12	42	73	246	260	306	318	109	43	6	21200	
MASS TRANSPORTATION.	264	8	14	22	53	31	44	52	19	8	12	20300	
BICYCLE OR MOTORCYCLE.	44	-	4	12	8	7	10	2	1	-	-	18400	
TAXICAB.	3	-	-	-	2	-	-	-	-	-	2	...	
WALKS ONLY.	231	11	34	19	55	43	19	25	16	6	4	14800	
OTHER MEANS.	25	1	-	2	4	2	9	2	2	1	2	...	
WORKS AT HOME.	462	41	73	42	90	60	48	51	34	13	8	14100	
NOT REPORTED.	35	3	2	4	8	2	4	6	1	2	2	...	
RENTER OCCUPIED.	4 045	198	593	735	1 131	646	404	254	68	14	2	12200	
DRIVES SELF.	2 712	100	333	459	802	473	289	200	47	8	2	12900	
CARPOOL.	572	31	99	113	139	90	66	18	12	2	-	11500	
MASS TRANSPORTATION.	313	24	60	75	85	38	20	12	-	-	-	9500	
BICYCLE OR MOTORCYCLE.	23	3	5	8	1	3	1	1	-	-	-	...	
TAXICAB.	12	-	5	2	6	-	-	-	-	-	-	...	
WALKS ONLY.	293	30	75	58	70	29	15	12	2	1	1	9200	
OTHER MEANS.	7	2	1	1	4	-	-	-	-	-	-	...	
WORKS AT HOME.	106	8	16	17	24	12	11	10	6	2	-	12500	
NOT REPORTED.	7	-	1	2	2	-	2	1	-	-	-	...	
MEDIAN.	8.2	5.8	4.6	5.1	7.4	7.5	9.1	9.4	8.9	9.5	8.0	...	...
DISTANCE FROM HOME TO WORK ¹													
OWNER OCCUPIED.	10 230	187	402	581	1 708	1 891	1 923	2 119	951	333	135	20900	
LESS THAN 1 MILE.	759	25	67	68	151	150	116	104	55	18	5	17300	
1 TO 4 MILES.	2 227	28	84	163	393	476	400	416	186	50	29	19700	
5 TO 9 MILES.	1 947	22	62	107	318	360	385	424	178	66	25	21400	
10 TO 19 MILES.	2 127	22	52	91	321	403	443	489	205	74	27	22000	
20 TO 29 MILES.	812	8	14	17	115	138	181	217	92	28	2	23200	
30 TO 49 MILES.	449	5	7	18	79	75	103	103	34	15	11	22000	
50 MILES OR MORE.	117	3	2	4	17	16	34	31	9	2	-	22500	
WORKS AT HOME.	462	41	73	42	90	60	48	51	34	13	8	14100	
NO FIXED PLACE OF WORK.	1 183	23	36	64	193	197	191	255	143	58	25	22100	
NOT REPORTED.	147	11	6	8	30	18	22	29	15	5	4	20300	
MEDIAN.	8.2	5.8	4.6	5.1	7.4	7.5	9.1	9.4	8.9	9.5	8.0	...	...
RENTER OCCUPIED.	4 045	198	593	735	1 131	646	404	254	68	14	2	12200	
LESS THAN 1 MILE.	1 563	35	117	123	146	28	28	28	8	2	1	10200	
1 TO 4 MILES.	1 091	68	172	238	314	158	90	40	10	2	-	11100	
5 TO 9 MILES.	804	31	120	141	234	131	84	48	12	4	1	12300	
10 TO 19 MILES.	689	24	89	104	199	131	84	46	8	-	-	13200	
20 TO 29 MILES.	247	6	19	31	75	55	34	19	6	-	-	14400	
30 TO 49 MILES.	103	2	9	15	30	23	12	10	1	-	-	14100	
50 MILES OR MORE.	26	1	2	6	8	2	3	2	2	-	-	...	
WORKS AT HOME.	106	8	16	17	24	12	11	10	6	2	-	12500	
NO FIXED PLACE OF WORK.	364	17	42	49	88	52	53	46	15	2	1	14200	
NOT REPORTED.	53	5	6	11	12	7	6	4	1	2	-	11600	
MEDIAN.	5.7	3.8	4.4	4.5	5.9	7.1	7.9	7.9	7.5	...	...	...	...

¹LIMITED 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: 1978--CONTINUED

(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	\$6,999 TO \$9,999	\$9,999 TO \$14,999	\$14,999 TO \$19,999	\$19,999 TO \$24,999	\$24,999 TO \$34,999	\$34,999 TO \$49,999	\$49,999 TO \$74,999	\$74,999 TO \$150,000 OR MORE	\$150,000 TO \$75,000 OR MORE	MEDIAN (DOL- LARS)	
ALL OCCUPIED HOUSING UNITS--CONTINUED														
TRAVEL TIME FROM HOME TO WORK ¹														
OWNER OCCUPIED.														
LESS THAN 15 MINUTES.	10 230	187	402	581	1 708	1 891	1 923	2 119	951	333	135	20900		
15 TO 29 MINUTES.	3 176	50	141	214	574	658	561	578	268	95	37	19600		
30 TO 44 MINUTES.	3 145	33	96	186	500	596	651	695	275	96	38	21400		
45 TO 59 MINUTES.	1 347	20	32	51	206	246	260	321	153	45	12	22300		
1 HOUR TO 1 HOUR AND 29 MINUTES	470	2	14	23	63	74	116	116	45	11	6	22500		
1 HOUR AND 30 MINUTES OR MORE	281	9	6	10	54	40	65	65	18	8	5	21600		
WORKS AT HOME.	71	2	1	3	10	10	15	22	8	2	-	23700		
NO FIXED PLACE OF WORK.	462	41	73	42	90	60	48	51	34	13	8	14100		
NOT REPORTED.	1 183	23	36	64	193	197	191	255	143	58	25	22100		
MEDIAN.	96	7	3	7	19	11	16	15	6	5	4	19800		
	20.0	18.6	15.6	16.8	18.8	18.8	21.2	21.9	21.2	20.1	19.7	...		
RENTER OCCUPIED.														
LESS THAN 15 MINUTES.	4 045	198	593	735	1 131	646	404	254	68	14	2	12200		
15 TO 29 MINUTES.	1 538	77	281	320	405	237	115	74	23	5	2	11100		
30 TO 44 MINUTES.	1 229	63	167	209	380	187	142	68	10	1	-	12300		
45 TO 59 MINUTES.	526	19	56	87	152	123	56	26	5	2	-	13400		
1 HOUR TO 1 HOUR AND 29 MINUTES	129	1	14	26	40	17	16	12	3	-	-	13000		
1 HOUR AND 30 MINUTES OR MORE	101	7	13	19	26	16	6	11	3	-	-	12100		
WORKS AT HOME.	20	2	1	5	5	2	2	5	1	-	-	...		
NO FIXED PLACE OF WORK.	106	8	16	17	24	12	11	10	6	2	-	12500		
NOT REPORTED.	364	17	42	49	88	52	53	46	15	2	-	14200		
MEDIAN.	31	4	3	4	10	1	2	4	2	2	-	...		
	17.8	16.7	15.0-	15.8	18.8	19.3	20.6	20.2	15.0-	...	...	...

¹LIMITED 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: 1978
(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	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000	MEDIAN (DOL- LARS)
			TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	OR MORE
SPECIFIED OWNER OCCUPIED ¹		11 256	302	1 182	1 862	2 431	1 810	1 218	1 142	830	440	39	39400
HOUSE HEATING FUEL													
UTILITY GAS		8 524	200	887	1 447	1 833	1 385	904	823	648	366	32	39400
BOTTLED, TANK, OR LP GAS		480	34	84	91	105	59	52	35	10	11	-	32900
FUEL OIL		1 436	50	169	252	359	228	136	137	70	31	4	36900
KEROSENE, ETC.		5	-	-	2	2	1	-	-	-	-	-	...
ELECTRICITY		750	5	29	60	124	153	120	146	99	32	2	52000
COAL OR COKE		23	3	9	2	4	1	3	1	1	-	-	...
WOOD		31	8	5	7	5	3	3	-	1	-	-	...
SOLAR HEAT		1	-	-	-	-	-	-	-	1	-	-	...
OTHER FUEL		4	2	-	2	1	-	-	-	-	-	-	...
NONE		1	-	-	-	-	-	-	1	-	-	-	...
WATER HEATING FUEL													
NO HOT PIPED WATER		54	25	12	8	3	4	-	2	-	-	-	12100
WITH HOT PIPED WATER		11 200	277	1 170	1 853	2 428	1 804	1 218	1 140	830	440	39	39500
FUEL USED:													
UTILITY GAS		8 014	167	805	1 334	1 727	1 330	862	790	613	352	34	39800
BOTTLED, TANK, OR LP GAS		409	27	72	78	98	41	49	26	11	8	-	32900
FUEL OIL		89	2	6	6	23	16	10	15	6	5	-	44700
KEROSENE, ETC.		3	-	-	1	-	1	-	2	-	-	-	...
ELECTRICITY		2 671	78	286	436	578	416	295	307	194	77	5	39300
COAL OR COKE		1	-	1	-	-	-	-	-	-	-	-	...
WOOD		1	-	-	-	-	-	-	-	1	-	-	...
SOLAR HEAT		3	-	-	-	-	-	-	2	1	-	-	...
OTHER FUEL		4	-	-	-	2	1	2	-	-	-	-	...
NONE		3	3	-	-	-	-	-	-	-	-	-	...
NOT REPORTED		2	-	-	1	-	2	-	-	-	-	-	...
COOKING FUEL													
UTILITY GAS		4 750	163	676	976	1 025	697	423	384	270	122	14	35500
BOTTLED, TANK, OR LP GAS		459	52	94	96	98	42	42	21	6	-	-	28700
FUEL OIL		20	1	6	3	4	-	3	-	-	-	-	...
KEROSENE, ETC.		5	1	-	1	-	-	2	-	1	-	-	...
ELECTRICITY		6 014	82	407	784	1 303	1 069	748	733	554	310	25	44000
COAL OR COKE		-	-	-	-	-	-	-	-	-	-	-	-
WOOD		7	3	-	2	2	1	-	-	-	-	-	...
OTHER FUEL		1	-	-	-	-	-	-	-	-	-	-	...
NONE		1	-	-	-	-	-	-	1	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY													
LESS THAN \$10		168	26	60	28	34	10	5	3	2	1	-	19800
\$10 TO \$19		1 622	98	311	399	395	232	88	49	34	12	3	30100
\$20 TO \$29		2 960	81	389	574	688	485	322	248	131	42	-	36300
\$30 TO \$39		2 654	50	219	422	605	483	309	310	183	70	3	40600
\$40 TO \$49		1 560	25	104	217	326	276	193	180	164	71	5	43900
\$50 TO \$59		966	7	56	118	169	153	138	127	113	79	5	48700
\$60 TO \$79		822	10	32	72	152	117	107	123	103	97	8	52600
\$80 TO \$99		249	1	6	16	39	30	33	46	48	26	3	59900
\$100 TO \$149		194	2	2	17	19	18	18	44	37	33	5	67600
\$150 OR MORE		58	1	4	-	3	7	4	11	14	9	6	75400
NO ELECTRICITY USED OR NOT REPORTED		3	2	-	-	-	-	1	-	1	-	-	...
MEDIAN		33	23	25	28	31	33	36	38	44	53	68	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS													
LESS THAN \$10		401	30	66	94	76	61	27	30	15	2	-	31400
\$10 TO \$14		311	17	49	82	81	25	22	15	15	4	-	30900
\$15 TO \$19		478	25	90	88	117	74	40	18	18	7	-	33100
\$20 TO \$24		784	22	113	178	176	140	86	38	17	14	-	34500
\$25 TO \$29		1 031	29	121	226	300	149	72	79	43	12	-	34600
\$30 TO \$39		2 839	64	253	442	646	526	362	315	181	51	-	40300
\$40 TO \$49		1 883	30	179	269	382	309	205	224	190	91	4	42700
\$50 TO \$69		1 441	40	155	212	234	201	162	148	166	109	13	43900
\$70 TO \$99		374	10	45	51	62	45	26	22	32	71	10	44300
\$100 OR MORE		134	4	13	19	15	9	9	17	13	28	8	58400
NO GAS USED OR NOT REPORTED		1 578	31	100	201	343	271	206	235	139	50	5	44300
MEDIAN		36	32	34	33	34	35	36	38	43	52	72	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.													
LESS THAN \$100		337	11	26	22	43	47	60	59	47	20	2	53200
\$100 TO \$199		132	9	6	17	22	20	14	9	18	13	3	45900
\$200 TO \$299		173	6	28	33	38	33	16	11	7	2	-	35300
\$300 TO \$399		322	12	53	79	74	56	22	14	7	5	-	32300
\$400 TO \$499		337	10	37	48	99	59	39	34	10	1	-	37400
\$500 TO \$599		230	7	29	50	49	30	27	22	12	3	-	35800
\$600 TO \$699		152	7	9	19	47	16	13	22	9	8	1	38700
\$700 TO \$799		80	3	6	9	21	15	8	6	6	5	-	40400
\$800 OR MORE		114	2	17	8	17	13	13	22	15	8	-	50500
FUELS NOT USED, FREE, OR NOT REPORTED		9 380	235	973	1 576	2 021	1 521	1 006	943	698	374	33	39400
MEDIAN		391	363	385	389	428	379	374	419	215	197	...	...
HEATING EQUIPMENT													
WARM-AIR FURNACE		9 089	127	852	1 547	2 078	1 503	998	894	656	363	31	39600
HEAT PUMP		133	6	2	3	14	16	41	39	12	1	-	69200
STEAM OR HOT WATER		867	8	55	101	170	162	107	127	97	54	7	46800
BUILT-IN ELECTRIC UNITS		423	5	17	44	87	81	78	69	31	11	-	47200
FLOOR, WALL, OR PIPELESS FURNACE		268	31	92	70	43	19	7	4	3	-	-	21500
ROOM HEATERS WITH FLUE		420	113	143	85	38	24	6	7	2	-	-	16800
ROOM HEATERS WITHOUT FLUE		15	4	6	-	2	2	-	-	1	-	-	...
FIREPLACES, STOVES, OR PORTABLE HEATERS		61	14	11	14	10	4	6	1	-	-	-	23500
NONE		1	-	-	-	-	-	-	-	-	-	-	...

¹LIMITED 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: 1978--CONTINUED
(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 TO	\$20,000 TO	\$30,000 TO	\$40,000 TO	\$50,000 TO	\$60,000 TO	\$75,000 TO	\$100,000 TO	\$200,000 OR MORE	MEDIAN (DOLLARS)	
		\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999			
SPECIFIED OWNER OCCUPIED¹--CONTINUED													
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT.	1	-	-	-	-	-	-	-	-	-	-	-	
WITH HEATING EQUIPMENT.	11 256	302	1 182	1 862	2 431	1 810	1 218	1 141	830	440	39	39400	
NO THERMOSTAT CONTROL.	318	91	87	62	37	21	5	7	7	-	-	17800	
WITH THERMOSTAT CONTROL.	10 895	207	1 093	1 795	2 389	1 782	1 207	1 129	817	438	37	39800	
NOT CLOCK OPERATED.	9 978	186	992	1 621	2 195	1 641	1 135	1 058	745	375	32	40000	
CONSTANT TEMPERATURE SETTING MAINTAINED.	3 295	68	332	581	719	538	398	324	214	112	8	39300	
TEMPERATURE SETTING IS CHANGED.	6 656	117	656	1 038	1 471	1 099	733	732	526	260	24	40400	
OCCASIONALLY.	1 834	42	196	259	405	275	216	203	180	92	5	40500	
REGULARLY.	4 771	73	450	767	1 053	821	517	528	379	166	18	40500	
DON'T KNOW.	44	2	9	11	10	3	-	2	7	-	2	30500	
NOT REPORTED.	7	-	-	2	3	-	-	-	-	-	-	...	
NOT REPORTED.	28	1	4	2	6	4	3	1	5	2	-	-	
CLOCK OPERATED.	880	22	97	165	182	138	67	68	72	64	5	38600	
NOT REPORTED.	37	-	4	9	12	4	5	3	-	-	-	34700	
NOT REPORTED.	43	3	2	5	5	6	7	5	7	2	2	49500	
SPECIFIED OWNER OCCUPIED¹													
UNITS OCCUPIED LAST WINTER.													
INSUFFICIENT HEAT													
CLOSURE OF ROOMS:													
WITH HEATING EQUIPMENT.	10 272	286	1 117	1 724	2 269	1 625	1 103	1 005	729	377	37	38900	
NO ROOMS CLOSED.	9 776	246	1 014	1 632	2 192	1 568	1 056	972	697	365	33	39100	
CLOSED CERTAIN ROOMS.	385	31	93	77	66	44	32	21	17	3	-	28800	
LIVING ROOM ONLY.	18	2	5	6	2	2	1	-	-	-	-	...	
DINING ROOM ONLY.	7	-	2	1	2	1	-	1	2	-	-	...	
1 OR MORE BEDROOMS ONLY.	247	22	62	47	41	30	22	10	9	3	-	28300	
OTHER ROOMS OR COMBINATION OF ROOMS.	106	6	25	21	18	11	9	9	7	-	-	30300	
NOT REPORTED.	7	-	-	2	3	1	-	1	-	-	-	...	
NOT REPORTED.	111	9	10	15	11	13	15	12	14	9	3	48200	
NO HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	-	-	-	-	
ADDITIONAL HEAT SOURCE:													
WITH SPECIFIED HEATING EQUIPMENT ² .	10 200	268	1 100	1 710	2 259	1 620	1 097	1 005	727	377	37	38900	
NO ADDITIONAL HEAT SOURCE USED.	9 455	223	981	1 596	2 138	1 507	1 018	940	676	343	33	39000	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	656	37	110	104	111	101	66	55	41	30	2	37000	
NOT REPORTED.	89	8	10	11	10	11	13	10	10	4	2	45100	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	72	18	18	13	10	5	6	-	2	-	-	20600	
ROOMS LACKING SPECIFIED HEAT SOURCE:													
WITH SPECIFIED HEATING EQUIPMENT ¹ .	10 200	268	1 100	1 710	2 259	1 620	1 097	1 005	727	377	37	38900	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	8 639	112	715	1 362	1 956	1 465	1 017	939	679	359	35	41200	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 439	148	369	334	283	141	65	54	33	13	-	26100	
1 ROOM.	556	25	108	122	135	73	38	28	17	10	-	31700	
2 ROOMS.	391	50	121	96	63	29	15	10	5	1	-	22500	
3 ROOMS OR MORE.	492	73	140	116	85	38	11	16	11	2	-	22900	
NOT REPORTED.	122	8	16	15	20	14	15	12	15	6	2	41700	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	72	18	13	10	5	6	-	2	-	-	-	20600	
SPECIFIED OWNER OCCUPIED¹													
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	61	14	11	14	10	4	6	1	1	-	-	23700	
WITH SELECTED HEATING EQUIPMENT ² .	11 195	288	1 171	1 848	2 421	1 806	1 212	1 141	830	440	39	39500	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	10 610	275	1 116	1 765	2 305	1 703	1 127	1 080	784	419	36	39300	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	511	9	48	75	107	94	73	52	35	17	2	41900	
SOLAR HEATING EQUIPMENT.	3	-	-	-	-	-	1	2	-	-	-	...	
STOVE, BURNING WOOD OR COAL.	190	4	22	27	41	38	29	17	9	1	1	40200	
FIREPLACE, BURNING WOOD OR COAL.	74	-	1	6	15	16	14	13	8	2	-	49400	
PORTABLE ELECTRIC HEATER.	125	3	14	20	32	22	17	8	5	4	-	38100	
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	23	1	5	5	4	2	4	1	2	-	-	...	
OTHER.	85	2	3	15	12	12	8	9	12	11	1	48200	
NOT REPORTED.	12	-	3	1	4	3	-	2	-	-	-	...	
NOT REPORTED.	73	3	8	9	8	12	9	10	3	2	2	48700	
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	496	131	160	99	51	30	13	8	4	-	-	17300	
WITH SELECTED HEATING EQUIPMENT ² .	10 760	170	1 022	1 763	2 381	1 780	1 205	1 134	826	440	39	40200	
LESS THAN 4 YEARS.	1 707	25	132	230	275	262	197	263	104	5	47300		
4 TO 9 YEARS.	2 542	56	227	410	508	401	299	222	119	8	41700		
10 TO 19 YEARS.	3 425	40	330	541	775	578	405	352	252	21	40500		
20 TO 39 YEARS.	2 173	20	194	404	593	408	230	159	102	6	37900		
40 YEARS OR MORE.	210	2	30	36	51	41	17	19	8	7	-	37400	
DON'T KNOW.	574	21	90	125	158	73	61	37	15	13	2	33200	
NOT REPORTED.	129	7	18	16	21	17	12	13	5	2	2	40700	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	496	131	160	99	51	30	13	8	4	-	-	17300	
WITH SELECTED HEATING EQUIPMENT ² .	10 760	170	1 022	1 763	2 381	1 780	1 205	1 134	826	440	39	40200	
NO MAINTENANCE OR MODIFICATION.	8 213	132	805	1 379	1 841	1 325	888	847	644	331	22	39700	
WITH MAINTENANCE OR MODIFICATION.	2 435	33	205	373	527	441	297	271	170	104	15	41800	
NOT REPORTED.	112	6	12	12	12	14	20	16	13	5	2	50100	

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

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

³EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

⁴EXCLUDES 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: 1978--CONTINUED
(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	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000	MEDIAN (DOL- LARS)	
		\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	\$199,999	OR MORE	
SPECIFIED OWNER OCCUPIED¹--CONTINUED													
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	496	131	160	99	51	30	13	8	4	-	-	17300	
WITH SELECTED HEATING EQUIPMENT ²	10 760	170	1 022	1 763	2 381	1 780	1 205	1 134	826	440	39	40200	
NO MAINTENANCE CONTRACT	9 981	153	964	1 666	2 241	1 646	1 108	1 026	750	390	36	39800	
WITH MAINTENANCE CONTRACT	650	10	43	86	125	116	84	81	59	44	2	45300	
NOT REPORTED	130	8	14	11	15	18	14	25	18	6	2	49700	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	54	25	12	6	3	4	-	2	-	-	-	12100	
WITH HOT PIPED WATER	11 200	277	1 170	1 853	2 428	1 804	1 218	1 140	830	440	39	39500	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 001	261	1 147	1 824	2 392	1 776	1 201	1 117	815	430	39	39500	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ³	54	3	8	9	14	10	2	3	4	-	-	34700	
NOT REPORTED	139	10	15	20	22	19	14	17	11	10	-	40900	
AIR CONDITIONING													
WITH AIR CONDITIONING	6 851	104	537	1 026	1 411	1 109	832	825	608	363	34	43100	
ROOM UNITS	3 395	85	452	719	836	538	342	255	115	52	-	35300	
1	2 245	77	329	475	573	352	207	157	51	24	-	34200	
2	914	7	111	207	218	145	109	54	46	17	-	36000	
3	196	1	12	30	40	34	20	36	15	8	-	44500	
4	28	-	5	2	5	5	7	3	1	-	-	***	
5 OR MORE	12	-	2	3	2	2	2	2	-	-	-	***	
CENTRAL SYSTEM	3 456	20	85	307	575	571	490	570	493	311	34	53500	
WITH NO AIR CONDITIONING	4 406	197	646	836	1 020	700	386	317	222	76	5	35100	
SPECIFIED OWNER OCCUPIED ¹	11 256	302	1 182	1 862	2 431	1 810	1 218	1 142	830	440	39	39400	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	11 256	302	1 182	1 862	2 431	1 810	1 218	1 142	830	440	39	39400	
ALL WINDOWS COVERED	9 622	174	886	1 481	2 108	1 630	1 111	1 031	772	391	37	41000	
SOME WINDOWS COVERED	1 120	80	205	259	227	138	63	70	42	36	2	30700	
NO WINDOWS COVERED	469	45	85	119	90	36	35	38	12	10	-	28800	
NOT REPORTED	46	3	7	3	7	6	8	3	5	3	-	45300	
STORM DOORS													
ALL DOORS COVERED	9 346	181	934	1 593	2 115	1 583	1 059	924	641	295	20	39300	
SOME DOORS COVERED	1 150	66	161	198	224	151	90	101	92	58	8	36700	
NO DOORS COVERED	713	51	83	68	83	68	59	113	92	85	10	50600	
NOT REPORTED	47	4	3	3	9	7	10	3	5	2	-	45200	
ATTIC OR ROOF INSULATION													
YES	9 938	191	882	1 553	2 182	1 668	1 138	1 078	789	419	39	41000	
NO	891	89	217	214	154	95	48	35	27	11	-	26500	
DON'T KNOW	359	17	79	86	82	37	21	24	7	7	-	29800	
NOT REPORTED	68	4	5	8	14	9	11	5	8	3	-	43000	
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:													
NO WINDOWS COVERED	469	45	85	119	90	36	35	38	12	10	-	28800	
SOME OR ALL WINDOWS COVERED	10 742	254	1 091	1 740	2 335	1 768	1 174	1 101	814	427	39	39800	
NONE ADDED OR INSTALLED	9 545	212	938	1 525	2 088	1 606	1 029	980	740	388	39	40100	
SOME OR ALL ADDED OR INSTALLED	1 132	42	146	206	235	153	131	110	70	38	-	37300	
NOT REPORTED	65	-	7	8	12	9	14	10	4	1	-	46100	
NOT REPORTED	46	3	7	3	7	6	8	3	5	3	-	45300	
STORM DOORS:													
NO DOORS COVERED	713	51	83	68	83	68	59	113	92	85	10	50600	
SOME OR ALL DOORS COVERED	10 496	246	1 096	1 791	2 339	1 734	1 149	1 026	734	353	28	39000	
NONE ADDED OR INSTALLED	9 521	220	1 011	1 643	2 109	1 577	1 032	922	666	314	27	38900	
SOME OR ALL ADDED OR INSTALLED	831	24	66	123	204	132	96	90	62	31	2	39900	
NOT REPORTED	144	2	18	26	26	25	20	13	6	7	-	39700	
NOT REPORTED	47	4	3	3	9	7	10	3	5	2	-	45200	
ATTIC OR ROOF INSULATION:													
NO ATTIC OR ROOF INSULATION	891	89	217	214	154	95	48	35	27	11	-	26500	
WITH ATTIC OR ROOF INSULATION	9 938	191	882	1 553	2 182	1 668	1 138	1 078	789	419	39	41000	
NONE ADDED OR INSTALLED	8 575	162	784	1 359	1 886	1 446	961	897	685	359	35	40700	
SOME OR ALL ADDED OR INSTALLED	1 186	25	89	174	264	198	153	144	88	48	2	42000	
LESS THAN 3 INCHES ADDED	74	4	5	10	17	11	11	8	6	2	-	40900	
3 TO 6 INCHES ADDED	499	10	48	62	125	96	49	49	42	15	2	40400	
6 INCHES OR MORE ADDED	476	8	24	67	102	66	78	72	38	22	-	45700	
DON'T KNOW	85	3	6	19	12	16	10	11	1	7	-	41700	
NOT REPORTED	53	-	8	16	9	9	5	3	1	2	-	33000	
NOT REPORTED	178	4	8	20	32	24	23	37	16	11	2	50400	
DON'T KNOW	359	17	79	86	82	37	21	24	7	7	-	29800	
NOT REPORTED	68	4	5	8	14	9	11	5	6	3	-	43000	
WALL INSULATION:													
None ADDED OR INSTALLED	10 395	282	1 111	1 718	2 239	1 689	1 092	1 056	769	400	39	39300	
SOME OR ALL ADDED OR INSTALLED	784	17	64	136	181	113	112	75	55	32	-	39700	
NOT REPORTED	77	3	7	8	11	6	14	10	6	8	-	50300	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:													
NONE ADDED OR INSTALLED	7 777	235	865	1 341	1 694	1 213	811	730	568	292	28	38500	
SOME OR ALL ADDED OR INSTALLED	3 347	61	300	507	711	582	391	391	250	141	11	41600	
DON'T KNOW	90	-	13	9	20	10	10	15	7	5	-	42000	
NOT REPORTED	43	5	3	4	7	4	7	7	5	2	-	45800	
OTHER INSULATION:													
NONE ADDED OR INSTALLED	10 601	286	1 126	1 785	2 284	1 696	1 130	1 064	775	419	36	39200	
SOME OR ALL ADDED OR INSTALLED	574	13	46	70	131	107	73	66	48	17	3	42600	
NOT REPORTED	82	3	11	7	16	7	15	12	7	3	-	45500	

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

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

³LIMITED 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: 1978--CONTINUED

(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	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000	MEDIAN (DOL- LARS)	
		\$10,000	\$19,999	\$20,000	\$39,999	\$40,000	\$49,999	\$59,999	\$74,999	\$99,999	\$100,000	OR MORE	
SPECIFIED OWNER OCCUPIED¹--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, WITH INSULATION ADDED OR INSTALLED													
LESS THAN \$50	6 226	187	703	1 085	1 352	976	627	586	459	226	24	38400	
\$50 TO \$99	4 717	109	443	781	1 017	784	558	510	349	193	13	40600	
\$100 TO \$199	2 183	61	223	342	444	368	246	244	159	93	6	40600	
\$200 TO \$399	446	6	41	80	108	76	56	27	41	0	1	38800	
\$400 OR MORE	462	9	41	58	105	79	62	47	42	19	-	42400	
DON'T KNOW	511	10	41	81	116	90	58	62	31	19	2	40800	
NOT REPORTED	176	5	11	24	29	22	27	27	29	17	13	-	
MEDIAN	291	11	45	54	62	51	18	27	6	14	3	35800	
NOT REPORTED OR DON'T KNOW	50-	50-	50-	50-	59	50-	59	50-	55	50-	...	...
	313	6	36	35	62	50	33	46	22	20	2	43300	
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
LESS THAN \$50	318	14	49	64	69	42	33	20	20	6	-	34700	
\$50 TO \$99	118	7	27	28	24	6	7	11	8	-	-	29100	
\$100 TO \$199	43	1	4	11	14	9	3	1	1	-	-	34500	
\$200 TO \$399	31	-	6	7	8	3	7	-	-	1	-	...	
\$400 OR MORE	28	2	-	5	4	4	3	1	9	-	-	40900	
DON'T KNOW	35	1	3	7	6	8	7	2	-	-	-	...	
NOT REPORTED	55	3	8	5	10	11	4	6	2	6	-	41300	
MEDIAN	61	...	50-	52	63	...	...	...	...	...	-	...
ONLY ADDED OR INSTALLED STORM DOORS													
LESS THAN \$50	236	6	21	37	55	35	27	20	21	13	1	39700	
\$50 TO \$99	38	6	4	7	9	3	4	2	1	2	-	31800	
\$100 TO \$199	72	-	10	10	15	13	8	7	8	2	-	41500	
\$200 TO \$399	63	-	3	9	20	9	7	5	6	4	1	39700	
\$400 OR MORE	28	-	3	3	4	5	4	2	4	3	-	...	
DON'T KNOW	11	-	-	2	2	2	2	2	2	2	-	...	
NOT REPORTED	5	-	-	-	2	2	-	1	2	-	-	...	
MEDIAN	18	-	2	6	3	3	2	2	2	1	-	...	
97	...	...	...	105	...	...	...	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION													
LESS THAN \$50	584	15	51	103	122	87	83	53	45	23	2	40100	
\$50 TO \$99	83	3	11	19	13	11	14	5	4	3	-	37200	
\$100 TO \$199	85	2	3	17	18	11	17	5	11	2	-	42800	
\$200 TO \$399	110	6	6	15	23	24	11	14	5	7	-	42800	
\$400 OR MORE	112	2	11	17	22	12	23	9	9	6	-	42600	
DON'T KNOW	104	-	7	20	27	18	11	7	12	2	2	39400	
NOT REPORTED	47	2	5	4	9	5	6	9	5	3	-	47300	
MEDIAN	42	1	7	12	11	5	1	3	1	1	-	30700	
	172	...	188	154	190	165	162	172	215	...	...	...

¹LIMITED 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: 1978
(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 OCCUPIED¹													
HOUSE HEATING FUEL													
UTILITY GAS		4 350	426	694	1 166	944	537	216	110	59	23	155	191
BOTTLED, TANK, OR LP GAS		203	14	53	43	29	15	9	-	1	-	40	167
FUEL OIL		609	71	101	125	144	56	28	11	5	4	64	190
KEROSENE, ETC.		-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY		597	56	62	131	165	93	39	14	10	7	20	212
COAL OR COKE		15	4	8	1	1	-	-	-	-	-	1	---
WOOD		22	7	4	3	-	-	-	-	-	-	8	---
SOLAR HEAT		-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL		28	10	8	3	2	2	-	-	2	-	2	---
NONE		10	-	3	2	3	2	-	-	-	-	-	---
WATER HEATING FUEL													
NO HOT PIPED WATER		41	22	5	2	-	-	-	-	-	-	11	---
WITH HOT PIPED WATER		5 773	566	929	1 471	1 288	704	293	135	76	34	277	192
FUEL USED²													
UTILITY GAS		4 372	429	721	1 159	957	537	229	111	58	25	147	191
BOTTLED, TANK, OR LP GAS		149	9	32	34	24	9	6	1	-	-	38	173
FUEL OIL		75	8	10	18	27	6	2	-	2	-	3	202
KEROSENE, ETC.		-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY		1 150	105	158	259	279	191	56	24	15	9	94	201
COAL OR COKE		4	-	4	-	-	-	-	-	-	-	-	---
WOOD		-	-	-	-	-	-	-	-	-	-	-	---
SOLAR HEAT		-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL		18	13	4	1	-	-	-	-	-	-	-	---
NONE		4	2	1	-	1	-	-	-	-	-	-	---
NOT REPORTED		-	-	-	-	-	-	-	-	-	-	-	---
COOKING FUEL													
UTILITY GAS		3 182	333	606	932	661	307	148	56	26	11	102	182
BOTTLED, TANK, OR LP GAS		240	26	51	52	37	13	8	1	1	1	51	166
FUEL OIL		-	-	-	-	-	-	-	-	-	-	-	-
KEROSENE, ETC.		-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY		2 322	193	257	487	587	384	138	79	49	22	126	213
COAL OR COKE		-	-	-	-	-	-	-	-	-	-	-	-
WOOD		4	1	-	-	-	-	-	-	-	-	3	---
OTHER FUEL		5	1	2	2	-	3	-	-	-	-	-	---
NONE		59	34	16	-	-	-	-	-	-	-	6	100
MONTHLY COST PAID FOR ELECTRICITY													
LESS THAN \$10		577	90	120	210	100	33	10	7	-	1	5	166
\$10 TO \$19		1 726	133	309	483	434	211	69	30	3	3	51	190
\$20 TO \$29		1 225	36	147	314	342	201	81	24	23	6	53	213
\$30 TO \$39		649	15	60	143	190	104	56	19	19	5	38	222
\$40 TO \$49		264	3	21	56	68	60	22	12	6	2	15	233
\$50 TO \$59		148	5	1	20	38	33	12	20	9	3	6	258
\$60 TO \$79		94	-	1	8	20	19	11	9	8	10	7	285
\$80 TO \$99		23	-	-	-	4	3	5	3	2	2	4	---
\$100 TO \$149		27	-	1	-	2	4	7	2	4	1	6	---
\$150 OR MORE		6	-	-	-	-	4	4	2	-	1	1	133
INCLUDED IN RENT		1 058	301	266	240	91	35	16	8	2	-	99	2
NO ELECTRICITY USED OR NOT REPORTED		15	5	7	1	-	-	-	-	-	-	2	---
MEDIAN		20	13	16	18	22	24	27	31	35	...	27	---
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS													
LESS THAN \$10		575	37	93	208	122	60	20	9	6	1	20	185
\$10 TO \$14		343	26	60	99	106	27	5	6	3	2	9	190
\$15 TO \$19		274	15	64	81	61	27	12	7	3	1	13	182
\$20 TO \$24		281	14	67	70	69	27	9	7	3	1	13	187
\$25 TO \$29		303	15	61	87	80	21	21	6	9	2	10	190
\$30 TO \$39		574	13	87	157	139	69	41	20	9	2	38	204
\$40 TO \$49		257	4	32	67	61	39	11	9	15	5	12	215
\$50 TO \$69		221	2	22	62	56	22	18	8	5	9	18	214
\$70 TO \$99		76	-	1	18	27	12	7	3	2	1	6	230
\$100 OR MORE		44	-	2	7	8	12	3	2	2	2	7	303
INCLUDED IN RENT		2 179	388	353	481	384	294	107	46	17	2	106	180
NO GAS USED OR NOT REPORTED		688	73	95	139	178	97	31	18	10	7	40	204
MEDIAN		25	15	22	22	25	28	32	34	40	...	32	---
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.													
LESS THAN \$100		41	5	2	9	8	6	3	-	1	-	7	---
\$100 TO \$199		39	3	6	8	3	8	1	6	5	2	5	---
\$200 TO \$429		45	3	12	8	10	2	4	-	-	-	2	177
\$500 TO \$599		58	4	11	8	12	6	2	2	2	2	12	200
\$400 TO \$499		53	2	5	12	20	5	3	-	-	-	6	211
\$500 TO \$599		39	1	7	10	7	3	3	1	2	-	5	---
\$600 TO \$699		31	-	5	6	11	2	2	-	-	-	5	---
\$700 TO \$799		11	-	1	3	2	1	2	-	-	-	3	---
\$800 OR MORE		23	-	1	5	4	2	5	1	6	2	6	---
INCLUDED IN RENT		537	88	102	145	98	48	18	7	2	-	30	172
FUELS NOT USED, FREE, OR NOT REPORTED		4 938	483	784	1 263	1 113	618	255	123	64	32	203	193
MEDIAN		376	...	341	392	430	337	...	...	...	...	374	---
HEATING EQUIPMENT													
WARM-AIR FURNACE		2 982	183	356	777	715	417	188	95	54	24	174	206
HEAT PUMP		18	2	7	4	1	3	1	-	-	-	2	---
STEAM OR HOT WATER		1 653	235	266	411	363	221	68	29	18	6	34	187
BUILT-IN ELECTRIC UNITS		386	41	52	92	113	43	21	4	4	5	14	201
FLOOR, WALL, OR PIPELESS FURNACE		230	36	59	66	36	4	10	5	-	-	14	160
ROOM HEATERS WITH FLUE		470	74	180	105	49	13	2	2	-	-	44	138
ROOM HEATERS WITHOUT FLUE		23	3	7	8	5	-	-	-	-	-	-	---
FIREPLACES, STOVES, OR PORTABLE HEATERS		41	14	10	6	-	2	1	-	-	-	8	---
NONE		10	-	3	2	3	2	-	-	-	-	-	---

¹EXCLUDES 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: 1978--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	\$100 TO \$100	\$150 TO \$199	\$200 TO \$249	\$250 TO \$349	\$300 TO \$399	\$350 TO \$499	\$400 TO \$499	\$500 OR MORE	NO CASH RENT	MEDIAN (DOL- LARS)			
		THAN \$100	\$199	\$249	\$349	\$399	\$499								
SPECIFIED RENTER OCCUPIED¹--CONTINUED															
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT.	10	-	3	2	3	2	-	-	-	-	-	191			
WITH HEATING EQUIPMENT.	5 804	588	930	1 472	1 285	702	293	135	76	34	289	191			
NO THERMOSTAT CONTROL.	1 635	321	420	489	218	81	23	12	7	7	57	155			
WITH THERMOSTAT CONTROL.	4 162	264	510	983	1 063	619	271	124	69	27	232	210			
NOT CLOCK OPERATED.	3 854	241	474	904	982	572	257	116	65	25	219	210			
CONSTANT TEMPERATURE SETTING MAINTAINED.	1 246	91	164	311	327	158	77	24	15	7	72	203			
TEMPERATURE SETTING IS CHANGED.	2 589	149	308	591	648	408	179	92	50	18	147	213			
OCCASIONALLY.	877	66	111	200	213	149	47	24	16	5	47	209			
REGULARLY.	1 677	81	190	386	427	258	126	65	33	14	98	215			
DON'T KNOW.	33	3	7	5	7	2	5	3	-	-	2	...			
NOT REPORTED.	1	-	-	1	-	-	-	-	-	-	-	...			
NOT REPORTED.	19	1	2	3	7	6	1	-	-	-	-	...			
CLOCK OPERATED.	282	18	33	73	76	44	14	7	5	-	12	207			
NOT REPORTED.	26	5	3	6	5	3	-	-	-	2	1	...			
NOT REPORTED.	8	3	-	3	2	-	-	-	-	-	-	...			
SPECIFIED RENTER OCCUPIED¹															
UNITS OCCUPIED LAST WINTER.	5 814	588	934	1 473	1 288	704	293	135	76	34	289	191			
INSUFFICIENT HEAT															
CLOSURE OF ROOMS:															
WITH HEATING EQUIPMENT.	3 761	461	665	937	787	408	157	60	46	14	226	184			
NO ROOMS CLOSED.	3 472	442	603	857	727	378	152	54	41	13	205	184			
CLOSED CERTAIN ROOMS.	242	18	53	68	49	21	6	5	4	-	17	179			
LIVING ROOM ONLY.	21	-	11	5	5	-	-	-	-	-	-	...			
DINING ROOM ONLY.	4	-	3	-	1	-	-	-	-	-	-	...			
1 OR MORE BEDROOMS ONLY.	163	17	30	46	29	17	6	1	1	-	16	178			
OTHER ROOMS OR COMBINATION OF ROOMS.	54	1	9	18	14	3	-	4	3	-	2	195			
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-			
NOT REPORTED.	47	-	9	12	11	10	-	-	-	2	1	205			
NO HEATING EQUIPMENT.	8	-	2	2	3	2	-	-	-	-	-	...			
ADDITIONAL HEAT SOURCE:															
WITH SPECIFIED HEATING EQUIPMENT ² .	3 709	445	652	926	784	406	156	60	46	14	221	184			
NO ADDITIONAL HEAT SOURCE USED.	3 174	388	544	752	685	364	142	52	41	13	192	186			
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	493	57	102	162	88	32	14	8	4	-	26	172			
NOT REPORTED.	43	-	5	12	11	10	-	-	2	1	3	213			
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	60	15	15	13	7	4	1	-	-	-	5	140			
ROOMS LACKING SPECIFIED HEAT SOURCE:															
WITH SPECIFIED HEATING EQUIPMENT ² .	3 709	445	652	926	784	406	156	60	46	14	221	184			
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 952	366	432	725	659	361	144	56	42	11	156	191			
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	699	74	214	185	111	35	10	4	3	2	62	158			
1 ROOM.	275	24	68	86	46	22	5	3	3	2	17	171			
2 ROOMS.	218	31	83	48	26	6	3	1	-	-	19	140			
3 ROOMS OR MORE.	206	19	63	50	38	7	2	-	-	-	26	158			
NOT REPORTED.	58	6	5	17	14	10	2	2	1	-	3	199			
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	60	15	15	13	7	4	1	-	-	-	5	140			
SPECIFIED RENTER OCCUPIED¹															
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	51	14	13	8	3	4	1	-	-	-	8	129			
WITH SELECTED HEATING EQUIPMENT.	5 763	574	920	1 465	1 285	700	293	135	76	34	281	192			
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 538	560	878	1 406	1 231	670	283	128	74	32	274	192			
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	188	8	32	59	43	23	8	7	2	1	6	193			
SOLAR HEATING EQUIPMENT.	1	-	-	1	-	-	-	-	-	-	-	...			
STOVE, BURNING WOOD OR COAL.	13	1	4	5	-	1	2	-	-	-	1	...			
FIREPLACE, BURNING WOOD OR COAL.	6	-	-	2	2	2	-	-	-	-	1	...			
PORTABLE ELECTRIC HEATER.	127	3	20	37	37	17	-	6	2	1	3	203			
ROOF HEATER WITHOUT FLUE OR VENT.	-	-	-	-	-	-	-	-	-	-	-	...			
BURNING GAS, OIL, OR KEROSENE.	19	2	6	6	3	2	-	-	-	-	-	...			
OTHER.	18	-	2	7	2	2	4	-	-	-	2	...			
NOT REPORTED.	5	1	-	2	-	-	2	1	-	-	-	...			
NOT REPORTED.	37	6	10	1	10	7	1	-	-	-	1	203			
AIR CONDITIONING															
WITH AIR CONDITIONING.	2 827	149	274	598	744	512	213	101	67	27	142	221			
ROOM UNITS.	1 971	128	245	487	510	303	117	42	24	8	108	207			
1.	1 624	123	221	422	434	258	66	20	12	-	69	201			
2.	306	4	22	58	72	37	45	19	7	6	35	235			
3.	28	2	1	5	2	8	5	3	-	2	1	...			
4.	11	-	-	2	2	-	2	-	5	-	3	...			
5 OR MORE.	2	-	-	2	-	-	-	-	-	-	-	...			
CENTRAL SYSTEM.	856	20	29	111	235	209	97	60	43	19	34	254			
WITH NO AIR CONDITIONING.	2 987	439	660	875	544	192	80	34	9	7	147	168			

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

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

³EXCLUDES 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: 1978--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 \$449	\$450 OR MORE	NO CASH RENT	MEDIAN (DOL- LARS)
SPECIFIED RENTER OCCUPIED ^a	5 814	588	934	1 473	1 288	704	293	135	76	34	289	191
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 720	87	278	403	332	192	98	54	34	18	226	197
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	1 043	28	154	230	210	124	72	36	24	14	151	208
SOME WINDOWS COVERED	315	14	58	81	63	30	16	6	5	2	42	190
NO WINDOWS COVERED	274	33	47	70	44	25	9	8	3	2	32	178
NOT REPORTED	88	12	18	22	14	13	-	5	2	-	2	180
STORM DOORS												
ALL DOORS COVERED	1 006	30	151	230	189	129	69	23	17	10	156	203
SOME DOORS COVERED	276	18	41	74	54	25	19	9	3	3	30	192
NO DOORS COVERED	347	27	66	76	75	24	10	16	11	3	37	189
NOT REPORTED	91	12	19	22	14	13	-	5	2	2	2	181
ATTIC OR ROOF INSULATION												
YES	905	29	136	195	181	96	59	35	20	15	139	206
NO	317	29	60	71	50	29	12	5	3	-	58	178
DON'T KNOW	403	17	63	113	85	53	26	9	9	2	27	197
NOT REPORTED	94	12	20	24	15	13	-	5	2	-	3	179

^aEXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978
(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						MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE		
ALL OCCUPIED HOUSING UNITS.	20 171	14 444	2 541	800	719	947		721
HOUSE HEATING FUEL								
OWNER OCCUPIED.	14 152	12 633	680	75	54	103		607
UTILITY GAS.	9 775	8 829	553	67	34	57		236
BOTTLED, TANK, OR LP GAS.	1 034	839	12	2	2	-		179
FUEL OIL.	2 126	1 908	87	2	3	7		121
KEROSENE, ETC.	6	6	-	-	-	-		-
ELECTRICITY.	1 077	924	28	4	14	39		66
COAL OR COKE.	41	51	-	-	-	-		-
WOOD.	81	78	1	-	-	-		3
SOLAR HEAT.	1	1	-	-	-	-		-
OTHER FUEL.	8	6	-	-	2	-		-
NONE.	2	1	-	-	-	-		2
RENTER OCCUPIED	6 019	1 811	1 860	726	665	843		114
UTILITY GAS.	4 364	1 164	1 541	560	448	601		50
BOTTLED, TANK, OR LP GAS.	272	211	15	1	1	3		40
FUEL OIL.	685	320	141	64	52	90		18
KEROSENE, ETC.	-	-	-	-	-	-		-
ELECTRICITY.	609	69	157	97	159	121		5
COAL OR COKE.	19	12	3	-	-	3		-
WOOD.	33	33	1	-	-	-		-
SOLAR HEAT.	-	-	1	-	-	-		-
OTHER FUEL.	28	-	1	2	1	25		-
NONE.	10	2	2	2	3	-		-
WATER HEATING FUEL								
OWNER OCCUPIED.	14 152	12 633	680	75	54	103		607
NO HOT PIPED WATER.	90	81	-	-	-	-		8
WITH HOT PIPED WATER.	14 060	12 549	680	75	54	103		598
FUEL USED:								
UTILITY GAS.	9 180	8 234	582	67	34	69		153
BOTTLED, TANK, OR LP GAS.	837	677	9	-	2	-		148
FUEL OIL.	143	123	14	-	1	2		3
KEROSENE, ETC.	3	3	-	-	-	-		-
ELECTRICITY.	3 917	3 492	76	7	18	31		293
COAL OR COKE.	1	1	-	-	-	-		-
WOOD.	4	4	-	-	-	-		-
SOLAR HEAT.	3	3	-	-	-	-		-
OTHER FUEL.	9	7	-	-	-	2		-
NONE.	3	3	-	-	-	-		-
NOT REPORTED.	2	2	-	-	-	-		-
RENTER OCCUPIED	6 019	1 811	1 860	726	665	843		114
NO HOT PIPED WATER.	49	41	2	1	3	2		1
WITH HOT PIPED WATER.	5 970	1 770	1 859	725	662	842		113
FUEL USED:								
UTILITY GAS.	4 390	1 062	1 545	598	479	670		35
BOTTLED, TANK, OR LP GAS.	202	155	15	-	1	3		27
FUEL OIL.	78	16	26	15	8	13		1
KEROSENE, ETC.	-	-	-	-	-	-		-
ELECTRICITY.	1 272	532	269	111	172	138		50
COAL OR COKE.	4	-	1	-	-	3		-
WOOD.	2	2	-	-	-	-		-
SOLAR HEAT.	-	-	-	-	-	-		-
OTHER FUEL.	18	2	3	-	-	13		-
NONE.	5	2	-	1	1	2		-
NOT REPORTED.	-	-	-	-	-	-		-
COOKING FUEL								
OWNER OCCUPIED.	14 152	12 633	680	75	54	103		607
UTILITY GAS.	5 656	4 878	476	42	17	40		204
BOTTLED, TANK, OR LP GAS.	1 051	789	6	-	2	-		254
FUEL OIL.	24	24	-	-	-	-		1
KEROSENE, ETC.	5	5	-	-	-	-		-
ELECTRICITY.	7 383	6 906	197	33	35	63		148
COAL OR COKE.	3	3	-	-	-	-		-
WOOD.	24	24	-	-	-	-		-
OTHER FUEL.	2	2	-	-	-	-		-
NONE.	2	1	1	-	-	-		-
RENTER OCCUPIED	6 019	1 811	1 860	726	665	843		114
UTILITY GAS.	3 191	760	1 247	449	287	399		49
BOTTLED, TANK, OR LP GAS.	305	225	23	2	2	-		53
FUEL OIL.	-	-	-	-	-	-		-
KEROSENE, ETC.	2	1	2	-	-	-		-
ELECTRICITY.	2 450	809	579	266	363	420		12
COAL OR COKE.	1	1	-	-	-	-		-
WOOD.	6	6	-	-	-	-		-
OTHER FUEL.	5	2	3	-	-	-		-
NONE.	59	7	6	9	13	24		-

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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	11 256	11 256	NA	NA	NA	NA	NA	
LESS THAN \$10	168	168	NA	NA	NA	NA	NA	
\$10 TO \$19.	1 622	1 622	NA	NA	NA	NA	NA	
\$20 TO \$29.	2 960	2 960	NA	NA	NA	NA	NA	
\$30 TO \$39.	2 654	2 654	NA	NA	NA	NA	NA	
\$40 TO \$49.	1 560	1 560	NA	NA	NA	NA	NA	
\$50 TO \$59.	966	966	NA	NA	NA	NA	NA	
\$60 TO \$79.	822	822	NA	NA	NA	NA	NA	
\$80 TO \$99.	249	249	NA	NA	NA	NA	NA	
\$100 TO \$149.	194	194	NA	NA	NA	NA	NA	
\$150 OR MORE.	58	58	NA	NA	NA	NA	NA	
NO ELECTRICITY USED OR NOT REPORTED	3	3	NA	NA	NA	NA	NA	
MEDIAN.	33	33	NA	NA	NA	NA	NA	
SPECIFIED RENTER OCCUPIED ²	5 814	1 606	1 860	726	665	843	114	
LESS THAN \$10	577	55	194	120	88	115	5	
\$10 TO \$19.	1 726	378	629	196	233	271	18	
\$20 TO \$29.	1 225	458	378	124	134	97	35	
\$30 TO \$39.	649	283	181	75	53	41	16	
\$40 TO \$49.	264	135	68	14	28	17	3	
\$50 TO \$59.	148	71	32	13	15	14	5	
\$60 TO \$79.	94	57	19	9	7	-	3	
\$80 TO \$99.	23	16	1	2	2	3	-	
\$100 TO \$149.	27	12	5	5	4	2	-	
\$150 OR MORE.	6	5	2	-	-	-	-	
INCLUDED IN RENT.	1 058	137	343	167	102	282	29	
NO ELECTRICITY USED OR NOT REPORTED	15	1	9	2	1	2	-	
MEDIAN.	20	26	18	17	17	15	25	
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS								
SPECIFIED OWNER OCCUPIED ¹	11 256	11 256	NA	NA	NA	NA	NA	
LESS THAN \$10	401	401	NA	NA	NA	NA	NA	
\$10 TO \$14.	311	311	NA	NA	NA	NA	NA	
\$15 TO \$19.	478	478	NA	NA	NA	NA	NA	
\$20 TO \$24.	784	784	NA	NA	NA	NA	NA	
\$25 TO \$29.	1 031	1 031	NA	NA	NA	NA	NA	
\$30 TO \$39.	2 839	2 839	NA	NA	NA	NA	NA	
\$40 TO \$49.	1 883	1 883	NA	NA	NA	NA	NA	
\$50 TO \$69.	1 441	1 441	NA	NA	NA	NA	NA	
\$70 TO \$99.	374	374	NA	NA	NA	NA	NA	
\$100 OR MORE.	134	134	NA	NA	NA	NA	NA	
NO GAS USED OR NOT REPORTED	1 578	1 578	NA	NA	NA	NA	NA	
MEDIAN.	36	36	NA	NA	NA	NA	NA	
SPECIFIED RENTER OCCUPIED ²	5 814	1 606	1 860	726	665	843	114	
LESS THAN \$10	575	108	213	125	68	50	11	
\$10 TO \$14.	343	80	165	49	30	14	5	
\$15 TO \$19.	274	104	100	27	15	18	9	
\$20 TO \$24.	281	125	108	23	10	5	10	
\$25 TO \$29.	303	140	142	8	2	5	6	
\$30 TO \$39.	574	307	209	25	9	3	20	
\$40 TO \$49.	257	134	111	7	1	-	4	
\$50 TO \$69.	221	134	75	1	1	-	10	
\$70 TO \$99.	76	60	14	-	-	2	1	
\$100 OR MORE.	44	38	4	2	-	-	-	
INCLUDED IN RENT.	2 179	206	572	376	378	619	28	
NO GAS USED OR NOT REPORTED	688	170	149	84	150	127	8	
MEDIAN.	25	32	23	11	10-	10-	27	
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.								
SPECIFIED OWNER OCCUPIED ¹	11 256	11 256	NA	NA	NA	NA	NA	
LESS THAN \$100.	337	337	NA	NA	NA	NA	NA	
\$100 TO \$199.	132	132	NA	NA	NA	NA	NA	
\$200 TO \$299.	173	173	NA	NA	NA	NA	NA	
\$300 TO \$399.	322	322	NA	NA	NA	NA	NA	
\$400 TO \$499.	337	337	NA	NA	NA	NA	NA	
\$500 TO \$599.	230	230	NA	NA	NA	NA	NA	
\$600 TO \$699.	152	152	NA	NA	NA	NA	NA	
\$700 TO \$799.	80	80	NA	NA	NA	NA	NA	
\$800 OR MORE.	114	114	NA	NA	NA	NA	NA	
FUELS NOT USED, FREE, OR NOT REPORTED	9 380	9 380	NA	NA	NA	NA	NA	
MEDIAN.	391	391	NA	NA	NA	NA	NA	

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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					MOBILE HOME OR TRAILER		
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE			
ALL OCCUPIED HOUSING UNITS--CONTINUED									
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.--CONTINUED									
SPECIFIED RENTER OCCUPIED ¹ :	5 814	1 606	1 860	726	665	843	114		
LESS THAN \$100.	41	28	4	-	3	2	3		
\$100 TO \$199.	39	26	4	3	-	1	4		
\$200 TO \$299.	45	33	7	-	-	-	5		
\$300 TO \$399.	58	50	7	-	-	-	2		
\$400 TO \$499.	53	46	5	-	-	-	1		
\$500 TO \$599.	39	35	4	-	-	-	-		
\$600 TO \$699.	31	26	5	-	-	-	-		
\$700 TO \$799.	11	9	2	-	-	-	-		
\$800 OR MORE.	23	23	-	-	-	-	-		
INCLUDED IN RENT.	537	89	204	84	52	97	11		
FUELS NOT USED, FREE, OR NOT REPORTED	4 938	1 241	1 619	639	609	743	87		
MEDIAN.	376	402	346	***	***	***	***		
ALL OCCUPIED HOUSING UNITS.	20 171	14 444	2 541	800	719	947	721		
HEATING EQUIPMENT									
OWNER OCCUPIED:	14 152	12 633	680	75	54	103	607		
WARM-AIR FURNACE.	10 940	9 874	410	47	19	33	557		
HEAT PUMP	159	152	6	1	-	-	-		
STEAM OR HOT WATER.	1 304	1 022	202	22	22	36	-		
BUILT-IN ELECTRIC UNITS	609	534	9	3	12	34	16		
FLOOR, WALL, OR PIPELESS FURNACE.	336	322	4	-	2	-	8		
ROOM HEATERS WITH FLUE.	628	566	44	2	-	-	16		
ROOM HEATERS WITHOUT FLUE	26	22	4	-	-	-	1		
FIREPLACES, STOVES, OR PORTABLE HEATERS	148	141	1	-	-	-	7		
NONE.	2	1	-	-	-	-	2		
RENTER OCCUPIED	6 019	1 811	1 860	726	665	843	114		
WARM-AIR FURNACE.	3 097	1 190	1 027	288	235	254	104		
HEAT PUMP	19	2	6	7	2	-	-		
STEAM OR HOT WATER.	1 666	102	469	307	314	473	-		
BUILT-IN ELECTRIC UNITS	396	43	99	64	102	86	2		
FLOOR, WALL, OR PIPELESS FURNACE.	236	125	62	14	3	29	3		
ROOM HEATERS WITH FLUE.	511	277	183	43	4	-	-		
ROOM HEATERS WITHOUT FLUE	26	20	4	-	2	-	-		
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	49	8	-	-	-	2		
NONE.	10	2	2	2	3	-	-		
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED:	14 152	12 633	680	75	54	103	607		
NO HEATING EQUIPMENT.	2	1	-	-	-	-	2		
WITH HEATING EQUIPMENT:	14 150	12 632	680	75	54	103	605		
NO THERMOSTAT CONTROL	623	477	74	11	7	37	15		
WITH THERMOSTAT CONTROL	13 475	12 106	603	62	47	66	590		
NOT CLOCK OPERATED.	12 337	11 113	515	53	44	61	552		
CONSTANT TEMPERATURE SETTING MAINTAINED	4 068	3 665	161	19	17	16	189		
TEMPERATURE SETTING IS CHANGED	8 238	7 415	384	35	27	44	363		
OCCASIONALLY	2 292	2 037	131	16	9	13	86		
REGULARLY	5 872	5 320	211	19	18	31	273		
DON'T KNOW	64	51	10	-	-	-	3		
NOT REPORTED	10	8	2	-	-	-	1		
NOT REPORTED.	32	32	-	-	-	-	-		
CLOCK OPERATED.	1 092	953	87	8	3	5	35		
NOT REPORTED.	45	41	2	-	-	-	3		
NOT REPORTED.	52	48	3	2	-	-	-		
RENTER OCCUPIED	6 019	1 811	1 860	726	665	843	114		
NO HEATING EQUIPMENT.	10	2	2	2	3	-	-		
WITH HEATING EQUIPMENT:	6 009	1 808	1 858	724	662	843	114		
NO THERMOSTAT CONTROL	1 681	277	585	275	199	341	4		
WITH THERMOSTAT CONTROL	4 320	1 530	1 271	447	460	503	110		
NOT CLOCK OPERATED.	4 009	1 421	1 174	405	427	478	104		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 291	445	373	151	120	163	39		
TEMPERATURE SETTING IS CHANGED	2 697	969	792	254	307	310	65		
OCCASIONALLY	914	273	282	96	103	141	19		
REGULARLY	1 749	687	496	150	202	168	46		
DON'T KNOW	33	7	14	8	3	-	1		
NOT REPORTED	1	1	-	-	-	-	-		
NOT REPORTED.	21	7	10	-	-	5	-		
CLOCK OPERATED.	285	98	91	40	31	22	4		
NOT REPORTED.	26	11	6	2	2	4	1		
NOT REPORTED.	8	2	2	1	3	-	-		

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

TABLE C-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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.	20 171	14 444	2 541	800	719	947	721
UNITS OCCUPIED LAST WINTER.	16 794	12 843	1 861	473	439	649	528
INSUFFICIENT HEAT							
CLOSURE OF ROOMS:							
OWNER OCCUPIED.							
WITH HEATING EQUIPMENT.	12 860	11 576	609	66	36	88	485
NO ROOMS CLOSED	12 859	11 576	609	66	36	88	483
CLOSED CERTAIN ROOMS.	12 218	10 991	581	66	36	82	463
LIVING ROOM ONLY.	497	463	19	-	-	2	14
DINING ROOM ONLY.	22	22	-	-	-	-	1
1 OR MORE BEDROOMS ONLY	9	8	-	-	-	-	1
OTHER ROOMS OR COMBINATION OF ROOMS	325	305	12	-	-	-	8
NOT REPORTED.	132	120	7	-	-	2	4
NOT REPORTED.	8	8	-	-	-	-	-
NOT REPORTED.	144	122	9	-	-	5	7
NO HEATING EQUIPMENT.	2	-	-	-	-	-	2
RENTER OCCUPIED							
WITH HEATING EQUIPMENT.	3 934	1 267	1 253	407	403	560	44
NO ROOMS CLOSED	3 926	1 265	1 251	406	400	560	44
CLOSED CERTAIN ROOMS.	3 606	1 107	1 146	385	384	544	40
LIVING ROOM ONLY.	270	146	85	16	8	12	3
DINING ROOM ONLY.	22	1	17	2	2	-	1
1 OR MORE BEDROOMS ONLY	4	1	3	-	-	-	-
OTHER ROOMS OR COMBINATION OF ROOMS	185	109	47	11	5	11	2
NOT REPORTED.	60	36	18	3	2	2	-
NOT REPORTED.	49	13	19	5	7	-	-
NO HEATING EQUIPMENT.	8	2	2	2	3	5	1
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED							
WITH SPECIFIED HEATING EQUIPMENT.	12 860	11 576	609	66	36	88	485
NO ADDITIONAL HEAT SOURCE USED.	12 695	11 424	604	66	36	88	476
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	11 702	10 553	554	64	35	72	425
NOT REPORTED.	874	772	40	2	1	13	46
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	165	152	4	-	-	-	8
RENTER OCCUPIED							
WITH SPECIFIED HEATING EQUIPMENT.	3 934	1 267	1 253	407	403	560	44
NO ADDITIONAL HEAT SOURCE USED.	3 860	1 210	1 242	406	400	560	42
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	3 298	1 041	1 041	358	339	484	36
NOT REPORTED.	517	158	186	43	54	72	5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	44	11	16	5	7	5	1
NOT REPORTED.	74	58	10	2	3	-	2
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED							
WITH SPECIFIED HEATING EQUIPMENT.	12 860	11 576	609	66	36	88	485
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	12 695	11 424	604	66	36	88	476
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	10 547	9 438	481	61	36	80	451
1 ROOM.	1 988	1 848	112	5	1	5	17
2 ROOMS	718	651	51	3	-	3	9
3 ROOMS OR MORE	541	512	22	-	-	2	5
NOT REPORTED.	729	685	39	2	1	-	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	160	137	11	-	-	3	9
NOT REPORTED.	165	152	4	-	-	-	8
RENTER OCCUPIED							
WITH SPECIFIED HEATING EQUIPMENT.	3 934	1 267	1 253	407	403	560	44
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 860	1 210	1 242	406	400	560	42
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 034	815	933	349	367	533	39
1 ROOM.	765	382	282	52	25	22	2
2 ROOMS	292	98	129	30	16	18	1
3 ROOMS OR MORE	234	119	98	11	4	2	1
NOT REPORTED.	239	166	55	10	5	2	1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	60	13	28	5	7	6	1
NOT REPORTED.	74	58	10	2	3	-	2

*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: 1978--CONTINUED
(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						MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE		
ALL OCCUPIED HOUSING UNITS.	20 171	14 444	2 541	800	719	947	721	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS								
OWNER OCCUPIED.	14 152	12 633	680	75	54	103	607	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	150	141	1	-	-	-	8	
WITH SELECTED HEATING EQUIPMENT ¹	14 002	12 491	680	75	54	103	598	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	13 212	11 771	647	70	54	102	569	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	702	638	30	3	1	2	28	
SOLAR HEATING EQUIPMENT.	6	4	2	-	-	-	-	
STOVE, BURNING WOOD OR COAL.	286	274	6	-	-	-	6	
FIREPLACE, BURNING WOOD OR COAL.	98	89	5	2	-	-	2	
PORTABLE ELECTRIC HEATER.	156	133	6	2	1	2	14	
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	30	28	-	-	-	-	1	
OTHER.	108	97	8	-	-	-	2	
NOT REPORTED.	20	14	3	-	-	-	2	
NOT REPORTED.	88	83	3	2	-	-	1	
RENTER OCCUPIED	6 019	1 811	1 860	726	665	843	114	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	69	52	10	2	3	-	2	
WITH SELECTED HEATING EQUIPMENT ¹	5 950	1 759	1 850	724	662	843	112	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 702	1 668	1 782	691	638	817	106	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	210	86	59	23	14	25	4	
SOLAR HEATING EQUIPMENT.	1	1	-	-	-	-	-	
STOVE, BURNING WOOD OR COAL.	24	24	-	-	-	-	-	
FIREPLACE, BURNING WOOD OR COAL.	8	5	2	-	-	-	1	
PORTABLE ELECTRIC HEATER.	133	39	43	16	11	22	3	
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	20	11	5	1	2	-	1	
OTHER.	20	5	7	6	-	2	-	
NOT REPORTED.	6	1	2	-	2	2	-	
NOT REPORTED.	38	5	10	11	9	2	2	
AIR CONDITIONING								
OWNER OCCUPIED.	14 152	12 633	680	75	54	103	607	
WITH AIR CONDITIONING.	8 350	7 464	365	50	43	91	337	
ROOM UNITS.	4 299	3 760	263	17	29	34	196	
1.	2 890	2 510	183	8	14	15	160	
2.	1 119	991	69	7	7	15	31	
3.	242	213	11	-	8	3	6	
4.	36	34	-	2	-	-	-	
5 OR MORE.	12	12	-	-	-	-	-	
CENTRAL SYSTEM.	4 050	3 704	102	33	14	57	141	
WITH NO AIR CONDITIONING.	5 803	5 169	315	24	11	13	270	
RENTER OCCUPIED.	6 019	1 811	1 860	726	665	843	114	
WITH AIR CONDITIONING.	2 908	725	712	393	464	566	47	
ROOM UNITS.	2 036	542	542	250	296	374	33	
1.	1 673	425	441	211	260	311	26	
2.	320	104	91	28	32	58	6	
3.	29	9	10	6	3	1	-	
4.	12	5	-	3	-	3	1	
5 OR MORE.	2	-	-	2	-	-	-	
CENTRAL SYSTEM.	871	183	170	143	168	192	15	
WITH NO AIR CONDITIONING.	3 111	1 086	1 149	332	200	278	67	

¹EXCLUDES 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: 1978

(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.	20 171	203	435	1 609	3 513	5 119	4 432	4 859	5.3
HOUSE HEATING FUEL									
OWNER OCCUPIED.									
UTILITY GAS	14 152	32	53	255	1 657	3 934	3 821	4 400	5.8
BOTTLED, TANK, OR LP GAS.	9 775	19	31	144	1 079	2 789	2 746	2 967	5.8
FUEL OIL.	1 034	-	8	41	181	302	223	280	5.4
KEROSENE, ETC	2 126	7	9	45	259	543	549	714	5.9
ELECTRICITY	6	-	-	-	2	3	1	-	..
COAL OR COKE.	1 077	3	3	18	111	266	272	403	6.0
WOOD.	41	-	-	-	4	8	15	14	6.1
SOLAR HEAT.	81	2	2	6	19	22	14	16	5.0
OTHER FUEL.	1	-	-	-	-	-	-	1	..
NONE.	8	-	-	-	2	-	2	5	..
2	1	-	-	2	-	-	-	-	..
RENTER OCCUPIED	6 019	171	382	1 353	1 857	1 185	612	458	4.1
UTILITY GAS	4 364	128	289	977	1 373	891	449	258	4.1
BOTTLED, TANK, OR LP GAS.	272	1	5	27	72	68	46	53	5.0
FUEL OIL.	685	19	42	121	155	139	90	119	4.5
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	609	13	41	208	237	70	20	20	3.7
COAL OR COKE.	19	1	2	3	3	6	2	2	..
WOOD.	33	-	2	2	8	10	6	6	..
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	28	10	2	10	7	-	-	-	..
NONE.	10	-	-	5	2	2	-	1	..
WATER HEATING FUEL									
OWNER OCCUPIED	14 152	32	53	255	1 657	3 934	3 821	4 400	5.8
NO HOT PIPED WATER.	90	4	6	15	22	17	9	16	4.4
WITH HOT PIPED WATER.	14 060	28	47	238	1 635	3 916	3 811	4 384	5.8
FUEL USED:									
UTILITY GAS	9 140	20	31	117	949	2 642	2 590	2 790	5.8
BOTTLED, TANK, OR LP GAS.	837	-	5	33	157	243	181	218	5.4
FUEL OIL.	143	-	-	3	7	32	34	67	6.4
KEROSENE, ETC	3	-	-	-	-	-	1	2	..
ELECTRICITY	3 917	6	11	84	519	997	999	1 301	5.8
COAL OR COKE.	1	-	-	-	-	-	-	1	..
WOOD.	4	1	-	-	-	1	2	1	..
SOLAR HEAT.	3	-	-	-	-	-	2	2	..
OTHER FUEL.	9	2	-	-	-	-	2	3	..
NONE.	3	-	-	1	2	-	-	-	..
NOT REPORTED.	2	-	-	2	-	-	1	-	..
RENTER OCCUPIED	6 019	171	382	1 353	1 857	1 185	612	458	4.1
NO HOT PIPED WATER.	49	8	5	4	15	6	7	5	4.0
WITH HOT PIPED WATER.	5 970	164	378	1 349	1 842	1 180	605	454	4.1
FUEL USED:									
UTILITY GAS	4 390	132	307	1 004	1 363	897	438	249	4.0
BOTTLED, TANK, OR LP GAS.	202	2	3	21	48	57	35	36	5.0
FUEL OIL.	78	3	8	14	26	11	9	6	4.0
KEROSENE, ETC	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 272	15	54	303	403	214	123	161	4.1
COAL OR COKE.	4	1	2	1	-	-	-	-	..
WOOD.	2	-	-	1	-	1	-	-	..
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	18	8	4	3	3	-	-	-	..
NONE.	5	2	-	3	-	-	-	1	..
NOT REPORTED.	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED	14 152	32	53	255	1 657	3 934	3 821	4 400	5.8
UTILITY GAS	5 656	13	23	107	758	1 785	1 581	1 389	5.6
BOTTLED, TANK, OR LP GAS.	1 051	-	11	55	232	298	210	246	5.3
FUEL OIL.	24	1	-	-	3	8	2	10	..
KEROSENE, ETC	5	-	-	-	1	-	2	3	..
ELECTRICITY	7 383	17	19	91	657	1 836	2 022	2 741	6.0
COAL OR COKE.	3	1	-	-	-	1	1	1	..
WOOD.	24	-	-	2	5	7	2	8	..
OTHER FUEL.	2	-	-	-	-	-	1	2	..
NONE.	2	1	-	1	-	-	-	-	..
RENTER OCCUPIED	6 019	171	382	1 353	1 857	1 185	612	458	4.1
UTILITY GAS	3 191	67	261	724	940	707	319	174	4.1
BOTTLED, TANK, OR LP GAS.	305	2	5	35	96	67	42	58	4.7
FUEL OIL.	-	-	-	-	-	-	-	-	-
KEROSENE, ETC	2	-	1	-	-	2	-	-	-
ELECTRICITY	2 450	48	114	594	813	408	250	224	4.1
COAL OR COKE.	1	-	-	-	-	-	-	1	..
WOOD.	6	-	-	1	2	2	1	1	..
OTHER FUEL.	5	-	2	-	2	-	-	1	..
NONE.	59	54	-	-	4	1	-	-	1.5-

TABLE C-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$10	11 256	22	28	109	1 008	3 154	3 256	3 679	5.9
\$10 TO \$19	168	-	4	13	36	43	29	52	5.2
\$20 TO \$29	1 622	2	4	49	278	560	457	272	5.3
\$30 TO \$39	2 960	5	7	23	351	1 004	845	724	5.6
\$40 TO \$49	2 654	7	7	9	173	703	861	894	6.0
\$50 TO \$59	1 560	2	4	7	83	374	449	641	6.2
\$60 TO \$79	966	4	2	4	42	233	259	422	6.3
\$80 TO \$99	822	-	-	3	27	170	224	398	6.4
\$100 TO \$149	249	-	-	1	9	41	73	125	6.5+
\$150 OR MORE	194	-	-	-	6	23	30	135	6.5+
NO ELECTRICITY USED OR NOT REPORTED	58	-	-	1	3	3	14	37	6.5+
MEDIAN	3	1	-	-	1	-	1	1	---
33	---	---	18	25	29	33	38	---	---
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	5 814	170	381	1 349	1 836	1 142	559	376	4.0
\$10 TO \$19	577	8	72	224	168	80	18	7	3.4
\$20 TO \$29	1 726	12	77	441	639	365	122	69	4.0
\$30 TO \$39	1 225	-	29	208	422	333	154	79	4.4
\$40 TO \$49	649	2	9	95	214	152	107	69	4.5
\$50 TO \$59	264	2	5	26	77	62	60	33	4.9
\$60 TO \$79	148	-	1	14	55	27	18	35	4.7
\$80 TO \$99	94	-	2	6	23	18	22	24	5.4
\$100 TO \$149	23	-	-	2	10	1	5	6	---
\$150 OR MORE	27	-	-	2	6	6	8	6	---
INCLUDED IN RENT	6	-	-	1	1	-	2	3	---
NO ELECTRICITY USED OR NOT REPORTED	1 058	144	179	331	218	96	44	47	3.1
MEDIAN	15	2	7	-	4	2	-	-	---
20	---	13	16	19	22	27	31	---	---
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$10	11 256	22	28	109	1 008	3 154	3 256	3 679	5.9
\$10 TO \$19	401	1	3	11	45	124	112	106	5.6
\$15 TO \$19	311	-	-	11	48	109	79	64	5.4
\$20 TO \$24	478	2	6	14	89	143	125	98	5.4
\$25 TO \$29	784	1	1	13	127	278	193	172	5.4
\$30 TO \$39	1 031	3	2	9	126	379	296	216	5.5
\$40 TO \$49	2 839	2	6	20	245	882	921	764	5.8
\$50 TO \$69	1 883	3	7	5	97	457	597	717	6.1
\$70 TO \$99	1 441	3	2	7	70	290	374	695	6.4
\$100 OR MORE	374	-	-	2	14	67	84	207	6.5+
NO GAS USED OR NOT REPORTED	134	-	-	-	6	22	19	87	6.5+
MEDIAN	1 578	6	2	16	141	403	457	554	6.0
36	---	---	23	29	33	36	42	---	---
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	5 814	170	381	1 349	1 836	1 142	559	376	4.0
\$10 TO \$19	575	4	46	135	192	108	61	29	4.0
\$15 TO \$19	343	4	10	80	121	77	24	27	4.1
\$20 TO \$24	274	5	7	60	107	58	25	13	4.1
\$25 TO \$29	281	-	4	44	114	68	39	13	4.3
\$30 TO \$39	303	-	3	43	102	98	34	24	4.5
\$40 TO \$49	574	-	3	60	179	189	103	41	4.7
\$50 TO \$69	257	-	3	16	54	84	72	28	5.2
\$70 TO \$99	221	-	1	11	40	78	43	48	5.2
\$100 OR MORE	76	-	1	2	14	20	15	23	5.5
INCLUDED IN RENT	44	-	-	1	7	8	9	19	6.1
NO GAS USED OR NOT REPORTED	2 179	137	265	701	659	260	88	68	3.5
MEDIAN	688	20	37	198	248	94	47	44	3.8
25	---	10-	16	22	28	33	36	36	---
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$100	11 256	22	28	109	1 008	3 154	3 256	3 679	5.9
\$100 TO \$199	337	-	2	3	28	47	92	165	6.5
\$200 TO \$299	132	-	2	2	19	19	34	56	6.2
\$300 TO \$399	173	1	-	3	33	43	51	43	5.6
\$400 TO \$499	322	2	-	6	34	120	87	74	5.5
\$500 TO \$599	337	-	-	7	37	101	109	83	5.7
\$600 TO \$699	230	1	2	4	20	57	70	77	5.9
\$700 TO \$799	152	-	-	2	3	43	42	62	6.2
\$800 OR MORE	80	-	-	-	8	11	30	31	6.2
FUELS NOT USED, FREE, OR NOT REPORTED	114	-	-	-	2	17	28	66	6.5+
MEDIAN	9 380	18	23	83	824	2 696	2 713	3 022	5.9
391	---	---	---	337	399	406	387	---	---

¹LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.²EXCLUDES 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: 1978--CONTINUED

(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	5 814	170	381	1 349	1 836	1 142	559	376	4.0
LESS THAN \$100	41	-	1	6	7	11	6	11	5.1
\$100 TO \$199	39	-	1	8	10	9	5	6	4.5
\$200 TO \$299	45	-	-	3	20	11	8	3	4.5
\$300 TO \$399	58	-	-	5	8	19	12	14	5.3
\$400 TO \$499	53	1	1	2	8	14	13	13	5.5
\$500 TO \$599	39	-	-	2	5	7	14	11	5.9
\$600 TO \$699	31	-	1	2	4	7	5	12	...
\$700 TO \$799	11	-	-	1	1	2	3	5	...
\$800 OR MORE	23	-	-	1	4	6	4	8	...
INCLUDED IN RENT	537	33	51	142	151	100	41	19	3.8
FUELS NOT USED, FREE, OR NOT REPORTED	4 938	137	327	1 178	1 618	956	447	275	4.0
MEDIAN	376	...	...	...	280	363	433	457	...
ALL OCCUPIED HOUSING UNITS									
HEATING EQUIPMENT									
OWNER OCCUPIED	14 152	32	53	255	1 657	3 934	3 821	4 400	5.8
WARM-AIR FURNACE	10 940	17	33	138	1 206	3 158	3 014	3 375	5.8
HEAT PUMP	159	-	-	1	10	23	41	85	6.5+
STEAM OR HOT WATER	1 304	5	2	29	125	260	360	523	6.1
BUILT-IN ELECTRIC UNITS	609	3	3	14	70	163	153	204	5.8
FLOOR, WALL, OR PIPELESS FURNACE	336	-	2	15	75	116	73	57	5.2
ROOM HEATERS WITH FLUE	628	5	11	49	126	171	146	120	5.2
ROOM HEATERS WITHOUT FLUE	26	-	1	1	11	6	7	1	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	148	2	2	8	34	38	27	36	5.2
NONE	2	1	-	2	-	-	-	-	...
RENTER OCCUPIED	6 019	171	382	1 353	1 857	1 185	612	458	4.1
WARM-AIR FURNACE	3 097	35	118	566	948	726	414	291	4.4
HEAT PUMP	19	-	-	6	7	4	-	2	...
STEAM OR HOT WATER	1 666	117	181	446	497	254	93	77	3.7
BUILT-IN ELECTRIC UNITS	396	10	37	143	152	38	7	11	3.5
FLOOR, WALL, OR PIPELESS FURNACE	236	2	14	75	79	32	21	13	3.8
ROOM HEATERS WITH FLUE	511	8	28	101	152	113	57	52	4.3
ROOM HEATERS WITHOUT FLUE	26	-	3	3	5	6	6	2	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	-	2	7	15	12	14	9	4.9
NONE	10	-	-	5	2	2	-	1	...
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED	14 152	32	53	255	1 657	3 934	3 821	4 400	5.8
NO HEATING EQUIPMENT	2	1	2	-	-	-	-	-	...
WITH HEATING EQUIPMENT	14 150	31	53	254	1 657	3 934	3 821	4 400	5.8
NO THERMOSTAT CONTROL	623	7	6	74	131	148	120	137	5.1
WITH THERMOSTAT CONTROL	13 475	24	47	178	1 520	3 768	3 684	4 254	5.8
NOT CLOCK OPERATED	12 337	21	43	172	1 399	3 440	3 371	3 891	5.8
CONSTANT TEMPERATURE SETTING MAINTAINED	4 068	6	19	68	486	1 190	1 087	1 211	5.7
TEMPERATURE SETTING IS CHANGED	8 238	15	24	103	910	2 243	2 268	2 673	5.9
OCCASIONALLY	2 292	4	3	27	231	588	674	765	5.9
REGULARLY	5 872	11	21	74	662	1 635	1 582	1 886	5.8
DON'T KNOW	64	-	-	2	15	19	5	22	5.3
NOT REPORTED	10	-	-	2	1	8	-	-	...
NOT REPORTED	32	-	-	1	3	6	15	7	...
CLOCK OPERATED	1 092	3	3	5	116	312	302	350	5.8
NOT REPORTED	45	-	-	1	4	16	12	13	5.6
NOT REPORTED	52	-	1	2	6	18	16	10	5.5
RENTER OCCUPIED	6 019	171	382	1 353	1 857	1 185	612	458	4.1
NO HEATING EQUIPMENT	10	-	-	5	2	2	-	1	...
WITH HEATING EQUIPMENT	6 009	171	382	1 348	1 854	1 184	612	457	4.1
NO THERMOSTAT CONTROL	1 681	120	221	502	428	228	111	71	3.5
WITH THERMOSTAT CONTROL	4 320	48	161	843	1 426	956	498	387	4.3
NOT CLOCK OPERATED	4 009	45	154	780	1 343	879	449	359	4.3
CONSTANT TEMPERATURE SETTING MAINTAINED	1 291	15	59	268	408	292	131	118	4.2
TEMPERATURE SETTING IS CHANGED	2 697	30	94	509	928	580	316	239	4.3
OCCASIONALLY	914	18	27	201	338	166	83	80	4.1
REGULARLY	1 749	12	65	302	577	407	227	157	4.3
DON'T KNOW	33	-	2	6	13	5	6	2	...
NOT REPORTED	1	-	-	2	-	1	-	-	...
NOT REPORTED	21	-	1	2	6	6	2	2	...
CLOCK OPERATED	285	4	7	56	78	69	45	27	4.5
NOT REPORTED	26	-	-	8	5	8	4	1	...
NOT REPORTED	8	3	-	3	-	-	2	-	...

¹EXCLUDES 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: 1978--CONTINUED

(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.	20 171	203	435	1 609	3 513	5 119	4 432	4 859	5.3
UNITS OCCUPIED LAST WINTER.	16 794	124	274	1 086	2 671	4 372	3 963	4 305	5.5
INSUFFICIENT HEAT									
CLOSURE OF ROOMS:									
OWNER OCCUPIED.	12 860	30	49	210	1 461	3 606	3 524	3 980	5.8
WITH HEATING EQUIPMENT.	12 859	30	49	209	1 461	3 606	3 524	3 980	5.8
NO ROOMS CLOSED.	12 218	29	47	195	1 396	3 463	3 336	3 751	5.8
CLOSED CERTAIN ROOMS.	497	-	2	.9	47	99	139	200	6.1
LIVING ROOM ONLY.	22	-	1	2	-	4	5	10	...
DINING ROOM ONLY.	9	-	-	-	1	2	5	...	...
1 OR MORE BEDROOMS ONLY.	325	-	-	7	39	68	99	112	6.0
OTHER ROOMS OR COMBINATION OF ROOMS.	132	-	1	-	7	23	31	70	6.5+
NOT REPORTED.	8	-	-	-	-	2	3	3	...
NOT REPORTED.	144	1	-	4	19	44	48	28	5.6
NO HEATING EQUIPMENT.	2	-	-	2	-	-	-	-	...
RENTER OCCUPIED.	3 934	94	226	876	1 209	766	439	325	4.1
WITH HEATING EQUIPMENT.	3 926	94	226	871	1 207	764	439	325	4.1
NO ROOMS CLOSED.	3 606	94	224	827	1 133	682	371	275	4.1
CLOSED CERTAIN ROOMS.	270	-	-	31	53	76	64	46	5.2
LIVING ROOM ONLY.	22	-	-	5	6	10	-	1	...
DINING ROOM ONLY.	4	-	-	3	-	1	-	-	...
1 OR MORE BEDROOMS ONLY.	185	-	-	17	41	52	46	28	5.1
OTHER ROOMS OR COMBINATION OF ROOMS.	60	-	-	6	7	13	17	17	5.8
NOT REPORTED.	-	-	-	-	-	-	-	-	-
NOT REPORTED.	49	-	2	13	21	6	4	4	4.0
NO HEATING EQUIPMENT.	8	-	-	4	2	2	-	-	...
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED.	12 860	30	49	210	1 461	3 606	3 524	3 980	5.8
WITH SPECIFIED HEATING EQUIPMENT.	12 695	28	46	201	1 421	3 564	3 491	3 944	5.8
NO ADDITIONAL HEAT SOURCE USED.	11 702	28	38	177	1 312	3 315	3 236	3 595	5.8
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	874	-	7	19	90	209	221	326	6.0
NOT REPORTED.	120	-	-	4	19	40	34	23	5.4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	165	2	3	10	40	42	32	36	5.1
RENTER OCCUPIED.	3 934	94	226	876	1 209	766	439	325	4.1
WITH SPECIFIED HEATING EQUIPMENT.	3 860	94	223	863	1 191	749	424	316	4.1
NO ADDITIONAL HEAT SOURCE USED.	3 298	87	202	724	1 030	641	354	261	4.1
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	517	6	19	129	141	103	67	51	4.2
NOT REPORTED.	44	-	2	10	21	6	3	4	4.0
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	74	-	3	12	18	17	15	9	4.7
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED.	12 860	30	49	210	1 461	3 606	3 524	3 980	5.8
WITH SPECIFIED HEATING EQUIPMENT.	12 695	28	46	201	1 421	3 564	3 491	3 944	5.8
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	10 547	24	37	148	1 170	3 067	2 923	3 179	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 988	4	9	49	231	444	521	731	6.0
1 ROOM.	718	3	6	24	58	141	205	281	6.1
2 ROOMS.	541	1	1	16	104	128	137	154	5.6
3 ROOMS OR MORE.	729	-	2	9	68	174	179	297	6.1
NOT REPORTED.	160	-	-	4	20	54	48	34	5.5
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	165	2	3	10	40	42	32	36	5.1
RENTER OCCUPIED.	3 934	94	226	876	1 209	766	439	325	4.1
WITH SPECIFIED HEATING EQUIPMENT.	3 860	94	223	863	1 191	749	424	316	4.1
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 034	91	203	711	936	584	307	202	4.0
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	765	3	15	139	229	158	112	109	4.5
1 ROOM.	292	1	9	91	69	52	41	29	4.1
2 ROOMS.	234	-	5	35	104	36	29	25	4.2
3 ROOMS OR MORE.	239	2	1	13	57	70	42	55	5.2
NOT REPORTED.	60	-	5	14	26	7	5	4	3.9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	74	-	3	12	18	17	15	9	4.7

¹EXCLUDES 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: 1978--CONTINUED

(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.	20 171	203	435	1 609	3 513	5 119	4 432	4 859	5.3
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED.	14 152	32	53	255	1 657	3 934	3 821	4 400	5.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	150	3	2	10	34	38	27	36	5.2
WITH SELECTED HEATING EQUIPMENT ¹	14 002	29	50	246	1 622	3 896	3 794	4 365	5.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	13 212	26	48	234	1 547	3 718	3 574	4 065	5.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	702	3	1	10	65	152	192	279	6.1
SOLAR HEATING EQUIPMENT.	6	-	-	-	2	1	2	1	..
STOVE, BURNING WOOD OR COAL.	286	2	-	2	20	61	87	114	6.2
FIREPLACE, BURNING WOOD OR COAL.	98	1	-	1	7	27	23	40	6.1
PORTABLE ELECTRIC HEATER.	156	-	-	5	20	35	41	56	6.0
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	30	-	-	-	5	4	13	9	..
OTHER.	108	1	1	2	9	21	19	55	6.5+
NOT REPORTED.	20	-	-	-	2	4	7	6	..
NOT REPORTED.	88	-	2	2	10	26	28	20	5.7
RENTER OCCUPIED.	6 019	171	382	1 353	1 857	1 185	612	458	4.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	69	-	2	12	18	14	14	10	4.7
WITH SELECTED HEATING EQUIPMENT ¹	5 950	171	381	1 341	1 839	1 172	598	448	4.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 702	164	377	1 297	1 781	1 112	549	422	4.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	210	2	1	34	49	57	43	24	4.8
SOLAR HEATING EQUIPMENT.	1	-	-	-	-	1	-	-	..
STOVE, BURNING WOOD OR COAL.	24	-	-	-	1	9	5	9	..
FIREPLACE, BURNING WOOD OR COAL.	8	-	-	2	1	-	3	2	..
PORTABLE ELECTRIC HEATER.	133	2	1	27	31	37	26	10	4.6
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	20	-	-	1	6	5	8	-	..
OTHER.	20	-	-	5	6	5	1	4	..
NOT REPORTED.	6	-	-	-	4	1	1	-	..
NOT REPORTED.	38	6	2	9	10	3	6	2	3.7
AIR CONDITIONING									
OWNER OCCUPIED.	14 152	32	53	255	1 657	3 934	3 821	4 400	5.8
WITH AIR CONDITIONING.	8 350	13	20	112	938	2 319	2 255	2 691	5.8
ROOM UNITS.	4 299	8	8	80	642	1 322	1 133	1 106	5.6
1.	2 890	4	6	67	504	929	724	657	5.4
2.	1 119	2	3	10	117	335	335	317	5.8
3.	242	-	-	3	19	53	63	104	6.2
4.	36	2	-	-	2	5	8	20	6.5+
5 OR MORE.	12	-	-	-	-	-	3	8	..
CENTRAL SYSTEM.	4 050	6	12	32	296	997	1 122	1 586	6.1
WITH NO AIR CONDITIONING.	5 803	19	32	143	718	1 615	1 566	1 709	5.7
RENTER OCCUPIED.	6 019	171	382	1 353	1 857	1 185	612	458	4.1
WITH AIR CONDITIONING.	2 908	62	138	736	1 011	519	256	185	4.0
ROOM UNITS.	2 036	47	113	528	687	352	176	133	4.0
1.	1 673	46	109	488	567	249	124	90	3.8
2.	320	1	4	37	113	88	42	36	4.6
3.	29	-	-	3	5	7	7	7	..
4.	12	-	-	-	2	6	3	1	..
5 OR MORE.	2	-	-	-	-	2	-	-	..
CENTRAL SYSTEM.	871	16	25	208	324	168	80	51	4.1
WITH NO AIR CONDITIONING.	3 111	109	244	617	846	666	355	274	4.2
ALL OCCUPIED HOUSING UNITS.	20 171	203	435	1 609	3 513	5 119	4 432	4 859	5.3
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS.	15 164	35	74	310	1 849	4 179	3 993	4 725	5.8
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED.	13 239	26	46	178	1 400	3 628	3 623	4 339	5.9
ALL WINDOWS COVERED.	11 270	19	31	117	1 205	3 123	3 095	3 679	5.9
SOME WINDOWS COVERED.	1 351	1	7	33	118	322	364	506	6.0
NO WINDOWS COVERED.	563	5	8	28	70	163	145	144	5.5
NOT REPORTED.	55	-	-	-	7	20	18	11	5.5
RENTER OCCUPIED.	1 925	9	27	132	449	551	370	387	5.1
ALL WINDOWS COVERED.	1 182	2	11	52	291	337	239	251	5.2
SOME WINDOWS COVERED.	360	-	7	17	66	100	75	95	5.4
NO WINDOWS COVERED.	294	-	10	40	78	85	45	36	4.7
NOT REPORTED.	89	7	-	23	15	30	11	4	4.5

¹EXCLUDES 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: 1978--CONTINUED

(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.	13 239	26	46	178	1 400	3 628	3 623	4 339	5.9
ALL DOORS COVERED .	10 755	19	26	97	1 079	3 087	3 057	3 391	5.8
SOME DOORS COVERED.	1 477	2	6	18	178	383	360	530	5.9
NO DOORS COVERED.	949	5	14	62	136	140	188	404	6.1
NOT REPORTED. .	59	-	-	2	7	18	18	13	5.6
RENTER OCCUPIED	1 925	9	27	132	449	551	370	387	5.1
ALL DOORS COVERED .	1 138	2	17	48	261	328	226	256	5.2
SOME DOORS COVERED.	311	-	2	16	69	92	64	67	5.2
NO DOORS COVERED.	382	1	8	42	104	101	69	58	4.9
NOT REPORTED. .	93	7	-	24	15	30	11	6	4.5
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED.	13 239	26	46	178	1 400	3 628	3 623	4 339	5.9
YES .	11 617	23	34	128	1 189	3 210	3 170	3 862	5.9
NO.	1 102	2	12	40	123	267	305	353	5.8
DON'T KNOW.	439	-	1	9	80	120	128	102	5.6
NOT REPORTED. .	81	-	-	2	8	31	19	21	5.5
RENTER OCCUPIED	1 925	9	27	132	449	551	370	387	5.1
YES .	1 029	1	16	57	227	297	206	225	5.2
NO.	377	1	3	20	81	101	82	89	5.3
DON'T KNOW.	424	1	8	30	125	121	69	69	4.9
NOT REPORTED. .	95	7	-	24	16	31	13	4	4.5

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978

(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.	20 171	3 331	16 840	3 907	3 228	1 642	8 064
HOUSE HEATING FUEL							
OWNER OCCUPIED.	14 152	2 369	11 783	2 732	2 755	1 282	5 013
UTILITY GAS.	9 775	1 234	8 541	1 973	2 132	978	3 459
BOTTLED, TANK, OR LP GAS.	1 034	276	758	205	98	62	393
FUEL OIL.	2 126	215	1 912	309	450	190	963
KEROSENE, ETC.	6	1	5	2	2	-	2
ELECTRICITY.	1 077	626	450	228	64	36	122
COAL OR COKE.	41	2	40	1	3	7	29
WOOD.	81	13	68	14	6	7	41
SOLAR HEAT.	1	1	-	-	-	-	-
OTHER FUEL.	8	1	7	-	-	2	6
NONE.	2	1	2	-	2	-	-
RENTER OCCUPIED	6 019	962	5 057	1 174	473	359	3 051
UTILITY GAS.	4 364	519	3 845	882	370	270	2 322
BOTTLED, TANK, OR LP GAS.	272	28	243	31	22	24	166
FUEL OIL.	685	56	628	83	64	54	427
KEROSENE, ETC.	-	-	-	-	-	-	-
ELECTRICITY.	609	353	256	171	13	7	65
COAL OR COKE.	19	-	19	-	1	2	15
WOOD.	33	1	32	2	2	1	28
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	28	-	28	5	-	2	21
NONE.	10	3	7	-	-	-	7
WATER HEATING FUEL							
OWNER OCCUPIED.	14 152	2 369	11 783	2 732	2 755	1 282	5 013
NO HOT PIPED WATER.	90	5	84	10	9	10	56
WITH HOT PIPED WATER.	14 060	2 364	11 696	2 720	2 747	1 272	4 956
FUEL USED:							
UTILITY GAS.	9 140	1 131	8 008	1 838	2 042	906	3 223
BOTTLED, TANK, OR LP GAS.	837	236	601	169	93	56	283
FUEL OIL.	143	17	126	26	23	8	69
KEROSENE, ETC.	3	2	2	-	-	-	2
ELECTRICITY.	3 917	972	2 945	686	590	302	1 368
COAL OR COKE.	1	-	1	-	-	-	1
WOOD.	4	1	3	-	-	-	3
SOLAR HEAT.	3	3	-	-	-	-	-
OTHER FUEL.	9	2	7	2	-	-	6
NONE.	3	-	3	-	-	1	2
NOT REPORTED.	2	-	2	2	-	-	1
RENTER OCCUPIED	6 019	962	5 057	1 174	473	359	3 051
NO HOT PIPED WATER.	49	1	48	2	2	2	41
WITH HOT PIPED WATER.	5 970	961	5 010	1 172	471	357	3 009
FUEL USED:							
UTILITY GAS.	4 390	540	3 850	882	359	271	2 339
BOTTLED, TANK, OR LP GAS.	202	24	178	25	14	19	121
FUEL OIL.	78	4	74	6	6	8	53
KEROSENE, ETC.	-	-	-	-	-	-	-
ELECTRICITY.	1 272	392	880	258	89	56	477
COAL OR COKE.	4	-	4	-	1	2	1
WOOD.	2	-	2	-	-	-	2
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	18	-	18	2	2	-	14
NONE.	5	1	4	-	-	2	2
NOT REPORTED.	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED.	14 152	2 369	11 783	2 732	2 755	1 282	5 013
UTILITY GAS.	5 656	563	5 093	925	1 122	603	2 444
BOTTLED, TANK, OR LP GAS.	1 051	265	786	199	112	76	400
FUEL OIL.	24	4	20	-	3	2	15
KEROSENE, ETC.	5	2	4	-	-	-	4
ELECTRICITY.	7 383	1 535	5 849	1 606	1 518	601	2 124
COAL OR COKE.	3	-	3	-	-	-	3
WOOD.	24	-	24	2	1	1	21
OTHER FUEL.	2	1	2	-	-	-	2
NONE.	2	1	1	-	-	-	1
RENTER OCCUPIED	6 019	962	5 057	1 174	473	359	3 051
UTILITY GAS.	3 191	244	2 947	475	250	208	2 013
BOTTLED, TANK, OR LP GAS.	305	26	279	47	21	28	183
FUEL OIL.	2	-	-	-	-	-	-
KEROSENE, ETC.	2	-	2	1	-	-	2
ELECTRICITY.	2 450	691	1 759	649	199	123	788
COAL OR COKE.	1	-	1	-	-	-	1
WOOD.	6	-	6	1	-	-	5
OTHER FUEL.	5	-	5	1	-	-	4
NONE.	59	-	59	-	3	-	56

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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						
			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									
LESS THAN \$10	11 256	1 635	9 621	2 228	2 533	1 153	3 707		
\$10 TO \$19	168	6	162	9	13	12	128		
\$20 TO \$29	1 622	100	1 522	146	354	221	800		
\$30 TO \$39	2 960	307	2 653	503	722	388	1 040		
\$40 TO \$49	2 654	331	2 323	597	644	261	821		
\$50 TO \$59	1 560	234	1 326	403	347	144	432		
\$60 TO \$79	966	189	777	227	223	66	260		
\$80 TO \$99	822	235	586	214	170	41	161		
\$100 TO \$149	249	107	142	71	29	7	34		
\$100 TO \$149	194	99	95	44	20	9	22		
\$150 OR MORE	58	25	34	13	10	4	7		
NO ELECTRICITY USED OR NOT REPORTED	3	2	2	-	-	-	2		
MEDIAN	33	43	32	37	32	28	28		
SPECIFIED RENTER OCCUPIED ²	5 814	954	4 860	1 167	462	345	2 886		
LESS THAN \$10	577	36	541	116	53	36	337		
\$10 TO \$19	1 726	249	1 476	427	108	106	835		
\$20 TO \$29	1 225	213	1 013	253	121	78	561		
\$30 TO \$39	649	125	524	146	56	48	275		
\$40 TO \$49	264	69	196	43	22	22	108		
\$50 TO \$59	148	56	92	26	10	3	54		
\$60 TO \$79	94	39	55	9	10	2	35		
\$80 TO \$99	23	6	17	4	5	-	9		
\$100 TO \$149	27	10	17	2	2	2	11		
\$150 OR MORE	6	2	5	1	-	-	4		
INCLUDED IN RENT	1 058	149	910	141	76	49	644		
NO ELECTRICITY USED OR NOT REPORTED	15	2	13	-	-	-	13		
MEDIAN	20	25	19	18	22	21	18		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$10	11 256	1 635	9 621	2 228	2 533	1 153	3 707		
\$10 TO \$14	401	37	365	39	85	52	188		
\$15 TO \$19	311	23	288	38	84	37	129		
\$20 TO \$24	478	63	416	81	110	48	177		
\$25 TO \$29	784	87	698	150	195	118	234		
\$30 TO \$39	1 031	98	934	201	269	131	331		
\$40 TO \$49	2 839	295	2 544	609	734	321	880		
\$50 TO \$69	1 883	233	1 651	421	433	177	620		
\$70 TO \$99	1 441	190	1 251	315	255	119	562		
\$100 OR MORE	374	54	320	66	61	23	171		
NO GAS USED OR NOT REPORTED	134	20	114	31	21	14	48		
MEDIAN	1 578	537	1 042	277	286	112	366		
SPECIFIED RENTER OCCUPIED ²	5 814	954	4 860	1 167	462	345	2 886		
LESS THAN \$10	575	42	534	70	31	38	394		
\$10 TO \$14	343	34	309	67	37	29	176		
\$15 TO \$19	274	29	244	60	27	19	139		
\$20 TO \$24	281	22	258	64	26	22	147		
\$25 TO \$29	303	17	286	44	39	26	178		
\$30 TO \$39	574	40	534	80	64	47	343		
\$40 TO \$49	257	8	249	30	23	27	169		
\$50 TO \$69	221	22	199	11	15	12	161		
\$70 TO \$99	76	1	76	2	8	6	60		
\$100 OR MORE	44	-	44	3	2	3	35		
INCLUDED IN RENT	2 179	432	1 747	574	156	92	925		
NO GAS USED OR NOT REPORTED	688	308	380	162	33	23	162		
MEDIAN	25	20	25	21	27	26	26		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$100	11 256	1 635	9 621	2 228	2 533	1 153	3 707		
\$100 TO \$199	337	87	250	97	51	21	80		
\$200 TO \$299	132	41	91	34	13	8	35		
\$300 TO \$399	173	23	150	28	43	21	59		
\$400 TO \$499	322	20	302	48	89	42	123		
\$500 TO \$599	337	21	316	49	104	37	126		
\$600 TO \$699	230	13	217	34	57	21	105		
\$700 TO \$799	152	16	136	23	21	22	69		
\$800 OR MORE	80	11	69	13	22	9	26		
FUELS NOT USED, FREE, OR NOT REPORTED	114	14	100	24	20	76	50		
MEDIAN	9 380	1 389	7 991	1 877	2 113	965	3 035		
	391	187	407	333	413	404	431		

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

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED.

(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	5 814	954	4 860	1 167	462	345	2 886		
LESS THAN \$100.	41	6	35	6	4	7	19		
\$100 TO \$199.	39	5	34	9	6	2	17		
\$200 TO \$299.	45	1	45	9	5	6	26		
\$300 TO \$399.	58	-	58	6	12	5	35		
\$400 TO \$499.	53	1	51	3	6	5	37		
\$500 TO \$599.	39	-	39	1	4	4	30		
\$600 TO \$699.	31	-	31	-	3	2	26		
\$700 TO \$799.	11	-	11	1	-	-	10		
\$800 OR MORE.	23	-	23	2	2	2	16		
INCLUDED IN RENT.	537	60	478	87	45	34	312		
FUELS NOT USED, FREE, OR NOT REPORTED	4 938	881	4 056	1 044	375	279	2 359		
MEDIAN.	376	...	384	243	354	...	431		
ALL OCCUPIED HOUSING UNITS.	20 171	3 331	16 840	3 907	3 228	1 642	8 064		
HEATING EQUIPMENT									
OWNER OCCUPIED	14 152	2 369	11 783	2 732	2 755	1 282	5 013		
WARM-AIR FURNACE.	10 940	1 816	9 124	2 236	2 395	1 052	3 441		
HEAT PUMP	159	138	22	6	5	3	8		
STEAM OR HOT WATER.	1 304	91	1 213	224	176	65	748		
BUILT-IN ELECTRIC UNITS	609	284	325	181	43	21	80		
FLOOR, WALL, OR PIPELESS FURNACE	336	7	330	30	67	59	173		
ROOM HEATERS WITH FLUE	628	9	618	28	57	62	472		
ROOM HEATERS WITHOUT FLUE	26	1	25	2	1	6	16		
FIREPLACES, STOVES, OR PORTABLE HEATERS	148	25	123	24	10	15	74		
NONE.	2	1	2	-	2	-	-		
RENTER OCCUPIED	6 019	962	5 057	1 174	473	359	3 051		
WARM-AIR FURNACE	3 097	497	2 600	691	323	197	1 389		
HEAT PUMP	19	9	10	1	-	-	9		
STEAM OR HOT WATER	1 666	226	1 439	309	72	84	975		
BUILT-IN ELECTRIC UNITS	396	215	181	122	11	6	42		
FLOOR, WALL, OR PIPELESS FURNACE	236	8	228	36	39	31	121		
ROOM HEATERS WITH FLUE	511	2	509	7	25	39	438		
ROOM HEATERS WITHOUT FLUE	26	-	26	3	2	1	20		
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	1	57	4	2	2	50		
NONE.	10	3	7	-	-	-	7		
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED	14 152	2 369	11 783	2 732	2 755	1 282	5 013		
NO HEATING EQUIPMENT	2	1	2	-	2	-	-		
WITH HEATING EQUIPMENT	14 150	2 369	11 781	2 732	2 754	1 282	5 013		
NO THERMOSTAT CONTROL	623	34	588	41	53	59	436		
WITH THERMOSTAT CONTROL	13 475	2 329	11 146	2 677	2 696	1 212	4 561		
NOT CLOCK OPERATED	12 337	2 138	10 199	2 461	2 479	1 102	4 157		
CONSTANT TEMPERATURE SETTING MAINTAINED	4 068	700	3 367	835	771	392	1 369		
TEMPERATURE SETTING IS CHANGED	8 238	1 435	6 803	1 621	1 703	709	2 770		
OCCASIONALLY	2 292	390	1 902	457	418	211	817		
REGULARLY	5 872	1 038	4 833	1 151	1 271	491	1 921		
DON'T KNOW	64	6	58	12	11	7	29		
NOT REPORTED	10	1	9	2	2	2	3		
CLOCK OPERATED	32	3	29	4	6	-	19		
NOT REPORTED	1 092	187	905	205	211	104	385		
NOT REPORTED	45	4	42	11	6	6	18		
NOT REPORTED	52	5	47	14	6	11	16		
RENTER OCCUPIED	6 019	962	5 057	1 174	473	359	3 051		
NO HEATING EQUIPMENT	10	3	7	-	-	-	7		
WITH HEATING EQUIPMENT	6 009	958	5 051	1 174	473	359	3 044		
NO THERMOSTAT CONTROL	1 681	46	1 635	127	97	109	1 302		
WITH THERMOSTAT CONTROL	4 320	912	3 408	1 047	376	251	1 734		
NOT CLOCK OPERATED	4 009	871	3 138	956	353	229	1 600		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 291	271	1 020	295	100	72	552		
TEMPERATURE SETTING IS CHANGED	2 697	598	2 099	656	251	157	1 034		
OCCASIONALLY	914	202	712	227	86	58	341		
REGULARLY	1 749	386	1 363	424	166	98	676		
DON'T KNOW	33	11	22	6	-	1	16		
NOT REPORTED	1	-	1	-	-	-	1		
NOT REPORTED	21	2	20	5	1	-	14		
CLOCK OPERATED	285	38	248	82	22	21	123		
NOT REPORTED	26	3	22	8	2	1	11		
NOT REPORTED	8	-	8	-	-	-	8		

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

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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.	20 171	3 331	16 840	3 907	3 228	1 642	8 064
UNITS OCCUPIED LAST WINTER.	16 794	2 401	14 393	3 267	2 906	1 467	6 752
INSUFFICIENT HEAT							
CLOSURE OF ROOMS:							
OWNER OCCUPIED.	12 860	1 855	11 005	2 523	2 588	1 205	4 689
WITH HEATING EQUIPMENT.	12 859	1 855	11 004	2 523	2 586	1 205	4 689
NO ROOMS CLOSED.	12 218	1 805	10 413	2 440	2 502	1 131	4 339
CLOSED CERTAIN ROOMS.	497	26	471	56	59	56	299
LIVING ROOM ONLY.	22	-	22	1	5	-	17
DINING ROOM ONLY.	9	-	9	3	2	-	4
1 OR MORE BEDROOMS ONLY.	325	19	306	35	40	40	192
OTHER ROOMS OR COMBINATION OF ROOMS.	132	7	125	15	12	15	83
NOT REPORTED.	8	-	8	2	-	1	4
NOT REPORTED.	144	23	120	27	25	18	51
NO HEATING EQUIPMENT.	2	-	2	-	2	-	-
RENTER OCCUPIED.	3 934	547	3 388	744	319	262	2 063
WITH HEATING EQUIPMENT.	3 926	543	3 383	744	319	262	2 058
NO ROOMS CLOSED.	3 606	523	3 083	727	295	242	1 819
CLOSED CERTAIN ROOMS.	270	11	260	12	21	18	208
LIVING ROOM ONLY.	22	-	22	1	-	-	21
DINING ROOM ONLY.	4	3	1	-	1	-	-
1 OR MORE BEDROOMS ONLY.	185	5	180	8	18	16	138
OTHER ROOMS OR COMBINATION OF ROOMS.	60	3	57	2	3	2	49
NOT REPORTED.	-	-	-	-	-	-	-
NOT REPORTED.	49	9	40	6	2	2	30
NO HEATING EQUIPMENT.	8	3	5	-	-	-	5
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED.	12 860	1 855	11 005	2 523	2 588	1 205	4 689
WITH SPECIFIED HEATING EQUIPMENT.	12 695	1 832	10 863	2 498	2 577	1 184	4 605
NO ADDITIONAL HEAT SOURCE USED.	11 702	1 701	10 000	2 352	2 409	1 089	4 150
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	874	115	759	128	143	78	410
NOT REPORTED.	120	16	104	18	24	17	45
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	165	23	142	25	11	21	85
RENTER OCCUPIED.	3 934	547	3 388	744	319	262	2 063
WITH SPECIFIED HEATING EQUIPMENT.	3 860	543	3 317	739	316	261	2 001
NO ADDITIONAL HEAT SOURCE USED.	3 298	499	2 799	666	276	229	1 628
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	517	35	482	67	39	30	346
NOT REPORTED.	44	9	36	6	2	2	26
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	74	3	71	5	2	2	62
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED.	12 860	1 855	11 005	2 523	2 588	1 205	4 689
WITH SPECIFIED HEATING EQUIPMENT.	12 695	1 832	10 863	2 498	2 577	1 184	4 605
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	10 547	1 765	8 782	2 361	2 350	965	3 106
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 988	44	1 944	106	200	199	1 439
1 ROOM.	718	18	699	67	84	85	463
2 ROOMS.	541	13	528	15	53	53	408
3 ROOMS OR MORE.	729	13	716	24	63	61	569
NOT REPORTED.	160	23	137	31	26	20	60
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	165	23	142	25	11	21	85
RENTER OCCUPIED.	3 934	547	3 388	744	319	262	2 063
WITH SPECIFIED HEATING EQUIPMENT.	3 860	543	3 317	739	316	261	2 001
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 034	522	2 512	702	269	200	1 342
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	765	10	755	32	44	59	621
1 ROOM.	292	8	285	13	18	17	236
2 ROOMS.	234	2	233	13	10	21	189
3 ROOMS OR MORE.	239	1	238	6	16	20	196
NOT REPORTED.	60	11	49	6	3	2	38
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	74	3	71	5	2	2	62

*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: 1978--CONTINUED

(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			
				1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ALL OCCUPIED HOUSING UNITS.	20 171	3 331	16 840	3 907	3 228	1 642	8 064
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED.	14 152	2 369	11 783	2 732	2 755	1 282	5 013
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	150	25	125	24	12	15	74
WITH SELECTED HEATING EQUIPMENT ¹	14 002	2 344	11 658	2 708	2 743	1 267	4 939
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	13 212	2 180	11 032	2 556	2 644	1 197	4 635
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	702	159	543	124	85	56	277
SOLAR HEATING EQUIPMENT.	6	2	3	2	-	-	2
STOVE, BURNING WOOD OR COAL.	286	72	214	56	25	19	114
FIREPLACE, BURNING WOOD OR COAL.	98	38	61	19	12	6	24
PORTABLE ELECTRIC HEATER.	156	22	135	27	24	15	68
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	30	4	26	5	2	2	17
OTHER.	108	19	89	14	19	11	44
NOT REPORTED.	20	2	17	2	2	4	9
NOT REPORTED.	88	5	63	28	15	14	27
RENTER OCCUPIED	6 019	962	5 057	1 174	473	389	3 051
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	69	4	64	4	2	2	57
WITH SELECTED HEATING EQUIPMENT ¹	5 950	957	4 993	1 170	471	398	2 994
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 702	937	4 765	1 137	454	347	2 828
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	210	16	195	26	17	11	141
SOLAR HEATING EQUIPMENT.	1	-	1	-	-	-	1
STOVE, BURNING WOOD OR COAL.	24	-	24	-	-	2	22
FIREPLACE, BURNING WOOD OR COAL.	8	2	6	1	-	-	5
PORTABLE ELECTRIC HEATER.	133	13	121	19	16	8	79
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	20	2	18	2	-	1	16
OTHER.	20	-	20	2	2	1	15
NOT REPORTED.	6	-	6	3	-	-	3
NOT REPORTED.	38	5	33	7	-	1	25
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED.	14 152	2 369	11 783	2 732	2 755	1 282	5 013
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	35	769	54	69	83	562
WITH SELECTED HEATING EQUIPMENT ²	13 348	2 334	11 014	2 678	2 686	1 199	4 451
LESS THAN 4 YEARS.	2 117	1 003	1 115	193	280	124	518
4 TO 9 YEARS.	3 415	1 262	2 153	513	458	246	935
10 TO 19 YEARS.	4 083	21	4 062	1 768	622	333	1 339
20 TO 39 YEARS.	2 514	1	2 513	81	1 163	348	921
40 YEARS OR MORE.	249	1	249	-	-	11	238
DON'T KNOW.	692	15	677	73	126	107	371
NOT REPORTED.	278	32	247	49	37	31	130
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED.	14 152	2 369	11 783	2 732	2 755	1 282	5 013
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	35	769	54	69	83	562
WITH SELECTED HEATING EQUIPMENT ²	13 348	2 334	11 014	2 678	2 686	1 199	4 451
NO MAINTENANCE OR MODIFICATION.	10 070	1 873	8 197	2 000	1 969	894	3 334
WITH MAINTENANCE OR MODIFICATION.	3 021	430	2 591	626	679	279	1 007
NOT REPORTED.	257	32	225	52	38	26	110
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED.	14 152	2 369	11 783	2 732	2 755	1 282	5 013
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	804	35	769	54	69	83	562
WITH SELECTED HEATING EQUIPMENT ²	13 348	2 334	11 014	2 678	2 686	1 199	4 451
NO MAINTENANCE CONTRACT.	12 246	2 124	10 122	2 511	2 464	1 106	4 040
WITH MAINTENANCE CONTRACT.	823	172	651	114	191	65	281
NOT REPORTED.	279	38	241	52	31	28	130

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED

(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	MARCH 1970	1960 TO 1970	1950 TO 1959	1940 TO 1949		
ALL OCCUPIED HOUSING UNITS--CONTINUED									
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT									
OWNER OCCUPIED	14 152	2 369	11 783	2 732	2 755	1 282	5 013		
NO HOT PIPED WATER	90	5	84	10	9	10	56		
WITH HOT PIPED WATER	14 060	2 364	11 696	2 720	2 747	1 272	4 956		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	13 805	2 335	11 471	2 666	2 697	1 252	4 856		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	66	9	57	11	17	4	25		
NOT REPORTED	182	18	165	43	33	16	73		
NOT REPORTED	2	-	2	2	-	-	1		
RENTER OCCUPIED	6 019	962	5 057	1 174	473	359	3 051		
NO HOT PIPED WATER	49	1	48	2	2	2	41		
WITH HOT PIPED WATER	5 970	961	5 010	1 172	471	357	3 009		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 816	945	4 871	1 149	465	342	2 915		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	32	7	25	7	2	-	16		
NOT REPORTED	117	8	110	16	5	13	76		
NOT REPORTED	-	-	-	-	-	-	-		
AIR CONDITIONING									
OWNER OCCUPIED	14 152	2 369	11 783	2 732	2 755	1 282	5 013		
WITH AIR CONDITIONING	8 350	1 568	6 781	1 831	1 807	723	2 420		
ROOM UNITS	4 299	298	4 001	676	936	474	1 915		
1	1 290	232	2 658	461	602	308	1 287		
2	1 119	59	1 060	161	274	143	483		
3	242	6	236	48	52	17	118		
4	36	1	35	5	5	6	20		
5 OR MORE	12	-	12	2	3	-	7		
CENTRAL SYSTEM	4 050	1 270	2 780	1 155	871	249	505		
WITH NO AIR CONDITIONING	5 803	801	5 001	901	948	559	2 592		
RENTER OCCUPIED	6 019	962	5 057	1 174	473	359	3 051		
WITH AIR CONDITIONING	2 908	776	2 132	873	228	158	873		
ROOM UNITS	2 036	358	1 678	563	180	135	800		
1	1 673	295	1 378	488	141	108	642		
2	320	62	258	62	37	22	137		
3	29	1	28	7	1	3	16		
4	12	-	12	6	2	-	5		
5 OR MORE	2	-	2	-	-	2	-		
CENTRAL SYSTEM	871	418	453	310	48	23	73		
WITH NO AIR CONDITIONING	3 111	185	2 926	301	245	202	2 178		
ALL OCCUPIED HOUSING UNITS	20 171	3 331	16 840	3 907	3 228	1 642	8 064		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS									
15 164	2 353	12 811	2 853	2 936	1 402	5 621			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	13 239	2 222	11 018	2 606	2 700	1 240	4 471		
ALL WINDOWS COVERED	11 270	2 081	9 189	2 296	2 358	1 062	3 473		
SOME WINDOWS COVERED	1 351	58	1 293	167	228	121	778		
NO WINDOWS COVERED	563	74	489	129	105	53	203		
NOT REPORTED	55	9	46	14	9	5	17		
RENTER OCCUPIED	1 925	131	1 794	247	235	162	1 150		
ALL WINDOWS COVERED	1 182	94	1 089	162	155	112	659		
SOME WINDOWS COVERED	360	10	350	21	27	19	283		
NO WINDOWS COVERED	294	16	278	36	48	26	168		
NOT REPORTED	89	11	77	27	6	5	40		
STORM DOORS									
OWNER OCCUPIED	13 239	2 222	11 018	2 606	2 700	1 240	4 471		
ALL DOORS COVERED	10 755	1 485	9 270	2 107	2 448	1 087	3 628		
SOME DOORS COVERED	1 477	353	1 124	287	166	105	566		
NO DOORS COVERED	949	374	575	198	75	45	258		
NOT REPORTED	59	10	49	14	12	4	19		
RENTER OCCUPIED	1 925	131	1 794	247	235	162	1 150		
ALL DOORS COVERED	1 138	58	1 081	136	158	113	674		
SOME DOORS COVERED	311	25	286	26	29	22	210		
NO DOORS COVERED	382	37	346	57	43	22	224		
NOT REPORTED	93	11	81	27	6	6	43		

*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: 1978--CONTINUED

(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						
			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	13 239	2 222	11 018	2 606	2 700	1 240	4 471		
NO.	11 617	2 124	9 493	2 428	2 511	1 104	3 450		
DON'T KNOW.	1 102	39	1 063	75	113	88	787		
NOT REPORTED.	439	46	393	79	63	42	209		
RENTER OCCUPIED	81	12	69	24	14	6	24		
YES	1 925	131	1 794	247	235	162	1 150		
NO.	1 029	89	939	140	163	97	540		
DON'T KNOW.	377	8	369	15	29	29	296		
NOT REPORTED.	424	23	401	64	38	30	269		
95	11	84	27	6	6	6	45		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED									
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:	13 239	2 222	11 018	2 606	2 700	1 240	4 471		
NO WINDOWS COVERED	563	74	489	129	105	53	203		
SOME OR ALL WINDOWS COVERED	12 621	2 139	10 482	2 463	2 586	1 182	4 251		
NONE ADDED OR INSTALLED	11 231	1 938	9 293	2 260	2 326	1 044	3 663		
SOME OR ALL ADDED OR INSTALLED	1 321	190	1 131	189	243	131	568		
NOT REPORTED	69	11	58	13	18	8	19		
NOT REPORTED	55	9	46	14	9	5	17		
STORM DOORS:									
NO DOORS COVERED	949	374	575	198	75	45	258		
SOME OR ALL DOORS COVERED	12 232	1 838	10 394	2 394	2 614	1 192	4 194		
NONE ADDED OR INSTALLED	11 118	1 566	9 552	2 222	2 400	1 095	3 834		
SOME OR ALL ADDED OR INSTALLED	944	245	699	144	177	81	296		
NOT REPORTED	170	27	143	28	37	15	63		
NOT REPORTED	59	10	49	14	12	4	19		
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION	1 102	39	1 063	75	113	88	787		
WITH ATTIC OR ROOF INSULATION	11 617	2 124	9 493	2 428	2 511	1 104	3 450		
NONE ADDED OR INSTALLED	10 087	1 835	8 252	2 141	2 179	964	2 969		
SOME OR ALL ADDED OR INSTALLED	1 329	237	1 092	249	280	133	431		
LESS THAN 3 INCHES ADDED	87	11	76	20	24	7	25		
3 TO 6 INCHES ADDED	556	71	485	111	123	68	183		
6 INCHES OR MORE ADDED	526	120	406	91	104	42	170		
DON'T KNOW	96	21	75	19	15	5	36		
NOT REPORTED	65	15	50	8	14	11	17		
NOT REPORTED	200	53	148	38	52	8	50		
DON'T KNOW	439	46	393	79	63	42	209		
NOT REPORTED	81	12	69	24	14	6	24		
WALL INSULATION:									
NONE ADDED OR INSTALLED	12 226	1 997	10 229	2 471	2 548	1 160	4 051		
SOME OR ALL ADDED OR INSTALLED	922	209	713	113	138	71	392		
NOT REPORTED	91	16	75	22	15	10	28		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS									
NONE ADDED OR INSTALLED	9 224	1 568	7 656	1 773	1 901	869	3 113		
SOME OR ALL ADDED OR INSTALLED	3 862	632	3 230	798	766	358	1 308		
DON'T KNOW	100	11	89	23	25	7	33		
NOT REPORTED	53	10	43	12	9	6	17		
OTHER INSULATION:									
NONE ADDED OR INSTALLED	12 409	1 992	10 417	2 441	2 579	1 173	4 225		
SOME OR ALL ADDED OR INSTALLED	734	212	522	142	101	61	218		
NOT REPORTED	96	18	78	24	20	6	28		

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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											
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS:											
NO WINDOWS COVERED.		294	16	278	36	48	26	168			
SOME OR ALL WINDOWS COVERED		1 543	104	1 439	183	182	131	942			
NONE ADDED OR INSTALLED		1 303	91	1 212	166	157	114	775			
SOME OR ALL ADDED OR INSTALLED		219	10	208	15	23	15	155			
NOT REPORTED.		21	2	18	3	2	2	13			
NOT REPORTED.		89	11	77	27	6	5	40			
STORM DOORS:											
NO DOORS COVERED.		382	37	346	57	43	22	224			
SOME OR ALL DOORS COVERED		1 450	83	1 367	163	186	134	884			
NONE ADDED OR INSTALLED		1 322	72	1 249	149	167	124	809			
SOME OR ALL ADDED OR INSTALLED		82	10	72	7	11	5	49			
NOT REPORTED.		46	1	45	6	8	5	26			
NOT REPORTED.		93	11	81	27	6	6	43			
ATTIC OR ROOF INSULATION:											
NO ATTIC OR ROOF INSULATION		377	8	369	15	29	29	296			
WITH ATTIC OR ROOF INSULATION		1 029	89	939	140	163	97	540			
NONE ADDED OR INSTALLED		884	81	803	123	149	81	450			
SOME OR ALL ADDED OR INSTALLED		113	5	108	10	10	14	75			
LESS THAN 3 INCHES ADDED		4	-	4	-	1	-	3			
3 TO 6 INCHES ADDED		43	1	42	3	3	4	33			
6 INCHES OR MORE ADDED		28	4	24	2	3	6	14			
DON'T KNOW.		34	-	34	4	3	3	23			
NOT REPORTED.		5	-	5	2	-	1	2			
NOT REPORTED.		32	4	28	7	4	2	15			
DON'T KNOW.		424	23	401	64	38	30	269			
NOT REPORTED.		95	11	84	27	6	6	45			
WALL INSULATION:											
NONE ADDED OR INSTALLED		1 735	114	1 622	212	223	149	1 037			
SOME OR ALL ADDED OR INSTALLED		73	4	69	3	4	6	56			
NOT REPORTED.		117	13	104	32	8	6	58			
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:											
NONE ADDED OR INSTALLED		1 350	89	1 261	178	175	122	787			
SOME OR ALL ADDED OR INSTALLED		350	15	335	25	44	26	240			
DON'T KNOW.		133	16	117	17	11	8	80			
NOT REPORTED.		92	11	81	27	6	5	43			
OTHER INSULATION:											
NONE ADDED OR INSTALLED		1 743	113	1 630	206	222	153	1 048			
SOME OR ALL ADDED OR INSTALLED		64	7	57	6	5	1	44			
NOT REPORTED.		118	11	107	35	8	7	57			
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS											
OWNER OCCUPIED											
NO INSULATION ADDED OR INSTALLED		13 239	2 222	11 018	2 606	2 700	1 240	4 471			
WITH INSULATION ADDED OR INSTALLED		7 433	1 262	6 171	1 464	1 517	702	2 488			
LESS THAN \$50		5 448	886	4 561	1 075	1 096	510	1 882			
\$50 TO \$99.		2 566	372	2 194	588	503	261	843			
\$100 TO \$199.		523	104	419	80	96	46	196			
\$200 TO \$399.		575	111	464	109	110	58	186			
\$400 OR MORE.		519	101	418	98	126	44	150			
DON'T KNOW.		742	114	629	118	157	63	291			
NOT REPORTED.		198	52	146	36	30	13	68			
MEDIAN.		324	33	292	45	74	25	148			
NOT REPORTED OR DON'T KNOW.		50-	63	50-	50-	50-	50-	50-			
		359	73	285	68	88	28	102			
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING											
LESS THAN \$50.		377	33	344	53	91	40	160			
\$50 TO \$99.		152	13	138	24	26	21	68			
\$100 TO \$199.		48	5	44	6	16	6	16			
\$200 TO \$399.		36	3	33	7	8	2	16			
\$400 OR MORE.		34	4	30	4	11	2	14			
DON'T KNOW.		37	1	36	6	11	5	14			
NOT REPORTED.		7	1	6	-	2	-	4			
MEDIAN.		63	6	57	6	17	5	28			
		52	...	53	50	81	50-	50-			

TABLE C-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	MARCH 1970	1960 TO	1950 TO	1940 TO		
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									
LESS THAN \$50	264	72	191	40	51	30	70		
\$50 TO \$99.	43	2	41	9	10	9	14		
\$100 TO \$199.	83	34	49	7	10	9	23		
\$200 TO \$399.	69	17	52	12	19	9	12		
\$400 OR MORE.	31	12	18	4	8	-	6		
DON'T KNOW.	13	3	10	4	3	-	2		
NOT REPORTED.	5	1	4	2	-	-	2		
MEDIAN.	20	2	18	3	2	3	10		
	95	96	94	117	128	***	82		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION									
LESS THAN \$50	677	98	579	137	142	63	238		
\$50 TO \$99.	101	16	85	20	22	14	29		
\$100 TO \$199.	96	21	74	16	11	9	39		
\$200 TO \$399.	125	17	108	33	21	17	37		
\$400 OR MORE.	125	18	107	27	39	12	30		
DON'T KNOW.	127	11	116	22	25	7	62		
NOT REPORTED.	55	10	45	13	10	4	18		
	48	4	44	7	14	-	24		
	172	126	179	168	228	138	181		

TABLE C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978
(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. ELEC- TRICITY USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)	
SPECIFIED OWNER OCCUPIED ²	11 256	168	1 622	2 960	2 654	1 560	966	822	249	194	58	3	33	
HOUSE HEATING FUEL														
ELECTRICITY	750	6	18	32	47	87	83	218	124	110	26	-	69	
OTHER THAN ELECTRICITY	10 505	162	1 604	2 929	2 607	1 473	883	604	125	83	32	3	32	
UTILITY GAS	8 524	131	1 391	2 444	2 138	1 137	656	438	96	68	23	2	31	
BOTTLED, TANK, OR LP GAS	480	8	61	125	115	75	50	32	7	6	1	-	34	
FUEL OIL	1 436	22	141	348	335	250	173	128	21	9	8	1	36	
KEROSENE, ETC.	5	-	-	1	2	2	-	-	-	-	-	-	•••	
COAL OR COKE	23	-	2	5	5	5	3	3	-	-	-	1	•••	
WOOD	31	1	9	5	9	4	2	3	-	-	-	-	•••	
SOLAR HEAT	1	-	-	-	-	-	-	-	-	1	-	-	•••	
OTHER FUEL	4	-	-	1	3	-	-	-	-	-	-	-	•••	
NONE	1	-	-	-	-	1	-	-	-	-	-	-	•••	
WATER HEATING FUEL ³														
ELECTRICITY	2 671	21	158	474	533	453	328	388	159	124	32	-	43	
OTHER FUEL	8 525	137	1 440	2 472	2 117	1 104	638	432	88	70	27	2	31	
NONE	3	1	1	2	-	-	-	-	-	-	-	-	•••	
COOKING FUEL														
ELECTRICITY	6 014	31	562	1 392	1 465	931	610	605	210	159	49	-	36	
OTHER FUEL	5 241	137	1 060	1 569	1 189	629	355	217	39	35	9	3	28	
NONE	1	-	-	-	-	1	-	-	-	-	-	-	•••	
ALL ELECTRIC HOUSING UNITS														
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	664	5	15	20	37	61	78	203	116	103	26	-	71	
ALL OTHER FUEL COMBINATIONS OR NONE	10 592	164	1 607	2 940	2 617	1 500	888	618	132	91	32	3	32	
HEATING EQUIPMENT														
WARM-AIR FURNACE	9 049	96	1 280	2 485	2 259	1 291	785	570	137	108	38	-	33	
HEAT PUMP	133	5	1	2	6	14	12	39	24	24	6	-	73	
STEAM OR HOT WATER	887	9	124	222	247	135	78	48	13	6	6	2	33	
BUILT-IN ELECTRIC UNITS	423	2	11	20	20	52	58	129	69	54	9	-	67	
FLOOR, WALL, OR PIPELESS FURNACE	268	15	79	81	48	18	12	13	-	2	-	-	24	
ROOM HEATERS WITH FLUE	420	41	111	126	59	39	18	18	6	1	-	1	24	
ROOM HEATERS WITHOUT FLUE	15	-	4	8	1	-	2	-	-	-	-	-	•••	
FIREPLACES, STOVES, OR PORTABLE HEATERS	61	2	12	16	13	11	2	4	-	-	-	1	29	
NONE	1	-	-	-	-	1	-	-	-	-	-	-	•••	
THERMOSTAT CONTROLLED HEATING EQUIPMENT														
NO HEATING EQUIPMENT	1	-	-	-	-	1	-	-	-	-	-	-	•••	
WITH HEATING EQUIPMENT	11 256	168	1 622	2 960	2 654	1 560	966	822	249	194	58	-	33	
NO THERMOSTAT CONTROL	318	26	83	42	31	13	16	5	5	5	-	3	25	
WITH THERMOSTAT CONTROL	10 895	142	1 531	2 856	2 606	1 518	946	804	244	189	58	-	33	
NOT CLOCK OPERATED	9 978	133	1 398	2 644	2 407	1 368	869	728	209	167	53	-	33	
CONSTANT TEMPERATURE SETTING MAINTAINED	3 295	44	450	827	785	466	286	276	89	55	15	-	34	
TEMPERATURE SETTING IS CHANGED	6 656	88	944	1 811	1 612	898	583	452	120	112	38	-	33	
OCCASIONALLY	1 834	27	230	524	432	228	163	150	36	29	14	-	33	
REGULARLY	4 771	61	706	1 268	1 166	662	417	302	83	83	23	-	33	
DON'T KNOW	44	-	6	17	13	6	2	-	-	-	-	-	29	
NOT REPORTED	7	-	2	2	2	2	-	-	-	-	-	-	•••	
CLOCK OPERATED	28	2	5	6	10	4	1	1	-	-	-	-	•••	
NOT REPORTED	880	9	127	204	192	140	74	73	33	22	5	-	35	
NOT REPORTED	37	-	6	8	6	10	3	2	2	-	-	-	36	
NOT REPORTED	43	-	7	11	6	11	7	2	-	-	-	-	35	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	61	2	12	16	13	12	2	4	-	-	-	1	30	
WITH SELECTED HEATING EQUIPMENT ⁴	11 195	166	1 610	2 945	2 641	1 549	964	818	249	194	58	2	33	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 610	161	1 556	2 807	2 504	1 461	888	771	225	179	54	2	33	
SOLAR HEATING EQUIPMENT	511	4	50	118	116	72	67	45	22	15	3	-	36	
STOVE, BURNING WOOD OR COAL	3	-	-	-	-	3	-	-	-	-	-	-	•••	
FIREPLACE, BURNING WOOD OR COAL	190	-	18	37	48	28	20	21	10	6	2	-	37	
PORTABLE ELECTRIC HEATER	74	-	2	14	15	17	11	7	4	5	1	-	44	
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	125	-	18	36	30	9	18	8	5	-	-	-	33	
OTHER	23	1	2	5	5	3	4	1	-	1	-	-	•••	
NOT REPORTED	85	2	8	22	16	11	13	7	3	3	1	-	36	
NOT REPORTED	12	1	2	5	2	1	1	1	-	-	-	-	•••	
NOT REPORTED	73	1	3	19	21	16	9	2	2	-	2	-	36	
AGE OF HEATING EQUIPMENT														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	496	43	127	150	73	51	21	22	6	1	-	2	25	
WITH SELECTED HEATING EQUIPMENT ⁵	10 760	125	1 495	2 811	2 581	1 509	944	800	242	193	58	2	33	
LESS THAN 4 YEARS	1 707	13	173	416	357	253	156	184	76	62	17	-	36	
4 TO 9 YEARS	2 542	20	279	609	580	393	255	249	63	74	19	1	36	
10 TO 19 YEARS	3 425	41	453	894	898	465	311	239	72	42	10	-	33	
20 TO 39 YEARS	2 173	26	430	635	534	259	153	95	18	11	11	-	29	
40 YEARS OR MORE	210	10	50	68	44	21	11	3	2	-	-	-	26	
DON'T KNOW	574	13	95	155	137	100	40	24	8	2	1	-	32	
NOT REPORTED	129	1	16	33	30	19	17	6	3	2	-	-	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 C-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978--CONTINUED
(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													MEDIAN (DOL. LARS)	
		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 ELEC- TRICITY USED OR NOT REPORTED ¹				
SPECIFIED OWNER OCCUPIED²--CONTINUED																
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	496	43	127	150	73	51	21	22	6	1	-	-	2	25		
WITH SELECTED HEATING EQUIPMENT ³ .	10 760	125	1 495	2 811	2 581	1 509	944	800	242	193	58	22	33			
NO MAINTENANCE OR MODIFICATION.	8 213	102	1 160	2 149	1 944	1 138	716	610	195	158	40	1	33			
WITH MAINTENANCE OR MODIFICATION.	2 435	23	323	633	616	353	214	184	42	32	14	1	33			
NOT REPORTED.	112	-	12	29	20	18	15	6	5	3	4	-	36			
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	496	43	127	150	73	51	21	22	6	1	-	-	2	25		
WITH SELECTED HEATING EQUIPMENT ³ .	10 760	125	1 495	2 811	2 581	1 509	944	800	242	193	58	22	33			
NO MAINTENANCE CONTRACT.	9 981	118	1 397	2 614	2 403	1 402	855	734	219	183	53	2	33			
WITH MAINTENANCE CONTRACT.	650	5	82	164	155	89	72	57	18	4	3	-	34			
NOT REPORTED.	130	2	15	32	23	19	17	9	5	6	2	-	36			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																
NO HOT PIPED WATER.	54	10	22	10	3	3	-	3	2	-	-	-	2	17		
WITH HOT PIPED WATER.	11 200	159	1 600	2 948	2 650	1 557	966	819	247	194	58	33				
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	11 001	152	1 568	2 902	2 609	1 521	942	811	244	193	57	2	33			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴ .	54	-	10	10	15	14	2	-	-	1	-	-	34			
NOT REPORTED.	139	6	21	35	26	20	21	7	2	-	-	-	33			
NOT REPORTED.	2	-	-	2	1	-	-	-	-	-	-	-	---			
AIR CONDITIONING																
WITH AIR CONDITIONING	6 851	43	672	1 577	1 726	1 091	705	657	186	153	40	-	36			
ROOM UNITS.	3 395	30	512	990	914	463	225	180	47	30	2	-	32			
1	2 245	27	404	658	580	281	139	114	19	21	2	-	31			
2	914	2	87	285	260	138	68	48	21	6	-	-	33			
3	196	2	18	38	65	39	13	14	4	3	-	-	36			
4	28	-	3	6	6	3	3	5	2	-	-	-	---			
5 OR MORE	12	-	-	3	3	2	2	-	-	-	-	-	42			
CENTRAL SYSTEM.	3 456	13	160	587	812	628	480	477	139	123	38	-	42			
WITH NO AIR CONDITIONING.	4 406	125	949	1 384	928	470	260	165	62	41	18	3	27			
PERSONS																
1 PERSON.	1 516	107	592	432	202	81	43	46	5	5	3	1	21			
2 PERSONS	3 473	41	621	1 105	841	402	206	168	50	27	11	-	29			
3 PERSONS	1 910	6	197	523	506	258	177	157	47	33	6	-	34			
4 PERSONS	2 254	6	142	536	537	393	274	226	69	52	17	1	37			
5 PERSONS	1 222	3	44	228	352	219	140	129	51	42	11	1	39			
6 PERSONS	551	-	23	72	137	133	72	66	13	26	9	-	43			
7 PERSONS OR MORE	331	4	3	65	77	73	53	30	14	9	2	1	42			
MEDIAN.	2.8	1.5-	1.8	2.4	3.1	3.6	3.7	3.7	3.8	4.1	4.1	-	---			
SPECIFIED OWNER OCCUPIED²																
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 256	168	1 622	2 960	2 654	1 560	966	822	249	194	58	3	33			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING																
ALL WINDOWS COVERED	9 622	118	1 344	2 514	2 310	1 332	843	713	220	179	46	2	33			
SOME WINDOWS COVERED	1 120	34	192	303	236	158	82	76	20	11	6	1	31			
NO WINDOWS COVERED.	469	16	83	133	95	63	33	31	5	3	6	1	30			
NOT REPORTED.	46	-	3	11	12	7	7	2	3	-	-	-	36			
STORM DOORS																
ALL DOORS COVERED	9 346	129	1 369	2 520	2 280	1 296	788	617	174	132	38	2	33			
SOME DOORS COVERED	1 150	25	163	280	240	150	100	109	48	29	6	1	34			
NO DOORS COVERED	713	14	86	149	121	108	69	94	25	33	14	-	38			
NOT REPORTED.	47	-	5	11	13	6	8	2	2	-	-	-	35			
ATTIC OR ROOF INSULATION																
YES	9 938	108	1 356	2 563	2 366	1 411	893	769	233	184	55	2	34			
NO	891	53	188	256	194	92	52	35	12	6	2	1	27			
DON'T KNOW.	359	6	71	122	78	49	12	14	2	3	2	-	28			
NOT REPORTED.	68	1	7	20	15	8	9	4	2	2	-	-	34			
SPECIFIED RENTER OCCUPIED²																
HOUSE HEATING FUEL	5 814	577	1 726	1 225	649	264	148	94	23	27	6	1	073	20		
ELECTRICITY	597	13	97	130	108	57	45	31	8	14	1	-	93	31		
OTHER THAN ELECTRICITY	5 207	564	1 623	1 093	540	207	103	63	15	14	6	-	978	19		
UTILITY GAS	4 330	485	1 397	928	426	152	74	42	12	8	4	-	803	18		
BOTTLED, TANK, OR LP GAS	203	8	41	50	46	13	12	4	-	3	2	-	27	21		
FUEL OIL	609	66	170	107	61	40	16	17	3	3	2	-	124	21		
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
COAL OR COKE	15	3	5	2	2	1	-	-	-	-	-	-	3	---		
WOOD	22	1	6	5	5	2	1	-	-	-	-	-	2	---		
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
OTHER FUEL.	28	2	5	2	1	-	-	-	-	-	-	-	19	---		
NONE	10	-	5	2	1	-	-	-	-	-	-	-	2	---		

¹RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

⁴LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

⁵EXCLUDES 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: 1978--CONTINUED
(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 OCCUPIED²--CONTINUED															
WATER HEATING FUEL³															
ELECTRICITY	1 150	34	216	251	208	112	77	53	10	18	1	169	29		
OTHER FUEL	4 619	536	1 496	963	438	152	72	41	14	8	6	894	18		
NONE	4	1	-	2	-	-	-	-	-	-	-	2	---		
COOKING FUEL															
ELECTRICITY	2 322	140	630	519	338	173	97	69	11	21	4	324	24		
OTHER FUEL	3 433	435	1 095	709	311	91	51	25	13	6	3	694	18		
NONE	59	2	1	2	-	-	-	-	-	-	-	54	---		
ALL ELECTRIC HOUSING UNITS															
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	483	4	71	99	93	52	42	29	8	14	1	71	33		
ALL OTHER FUEL COMBINATIONS OR NONE	5 331	573	1 654	1 126	556	212	107	66	15	14	6	1 003	20		
HEATING EQUIPMENT															
WARM-AIR FURNACE	2 982	181	814	752	418	176	87	67	14	16	6	451	23		
HEAT PUMP	18	-	5	3	2	-	-	-	-	-	-	5	---		
STEAM OR HOT WATER	1 653	292	570	226	78	22	18	4	4	2	2	437	15		
BUILT-IN ELECTRIC UNITS	386	9	67	85	65	33	28	17	1	7	1	74	29		
FLOOR, WALL, OR PIPELESS FURNACE	230	39	84	37	28	6	4	2	3	1	-	27	17		
ROOM HEATERS WITH FLUE	470	52	157	104	46	22	9	5	2	-	-	73	16		
ROOM HEATERS WITHOUT FLUE	23	2	11	6	3	-	-	-	-	-	-	1	---		
FIREPLACES, STOVES, OR PORTABLE HEATERS	41	3	12	10	9	3	2	-	-	-	-	3	23		
NONE	10	-	5	2	1	-	-	-	-	-	-	2	---		
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT	10	-	5	2	-	-	-	-	-	-	-	2	---		
WITH HEATING EQUIPMENT	5 804	577	1 721	1 223	648	264	148	94	23	27	6	1 072	21		
NO THERMOSTAT CONTROL	1 635	295	437	239	69	31	14	5	2	2	-	541	15		
WITH THERMOSTAT CONTROL	4 162	282	1 283	984	579	234	134	89	22	26	6	522	22		
NOT CLOCK OPERATED	3 854	271	1 186	900	536	214	129	80	19	24	6	489	22		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 246	79	385	282	171	59	37	25	4	11	3	189	22		
TEMPERATURE SETTING IS CHANGED	2 589	190	797	613	361	154	90	56	13	13	4	298	22		
OCCASIONALLY	877	79	269	211	96	38	27	18	5	6	4	129	21		
REGULARLY	1 677	107	520	399	257	115	61	36	10	6	4	164	23		
DON'T KNOW	33	4	7	3	7	2	2	2	-	1	-	6	---		
NOT REPORTED	1	-	1	-	-	-	-	-	-	-	-	-	---		
CLOCK OPERATED	19	1	4	5	4	1	2	2	-	-	-	3	23		
NOT REPORTED	282	12	91	76	40	20	6	8	3	2	-	26	23		
NOT REPORTED	26	-	6	9	3	-	-	-	-	-	-	7	---		
NOT REPORTED	8	-	-	-	-	-	-	-	-	-	-	8	---		
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	51	3	17	12	9	3	2	-	-	-	-	5	22		
WITH SELECTED HEATING EQUIPMENT	5 763	574	1 708	1 213	640	261	147	94	23	27	6	1 068	20		
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 538	557	1 648	1 163	603	250	136	88	23	26	6	1 036	20		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	188	13	55	51	24	11	7	6	-	1	-	20	23		
SOLAR HEATING EQUIPMENT	1	-	1	-	-	-	-	-	-	-	-	-	---		
STOVE, BURNING WOOD OR COAL	13	-	1	3	4	2	2	1	-	-	-	1	---		
FIREPLACE, BURNING WOOD OR COAL	6	-	1	2	1	-	-	-	-	-	-	1	---		
PORTABLE ELECTRIC HEATER	127	11	39	38	11	5	5	3	-	1	-	14	21		
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	19	-	8	4	4	3	-	-	-	-	-	-	---		
OTHER	18	-	3	4	6	2	1	-	-	-	-	-	---		
NOT REPORTED	5	2	2	-	-	1	-	-	-	-	-	1	---		
NOT REPORTED	37	3	5	-	12	-	4	-	-	-	-	18	---		
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT															
NO HOT PIPED WATER	41	6	13	10	3	-	-	-	-	-	-	9	---		
WITH HOT PIPED WATER	5 773	571	1 712	1 216	696	264	148	94	23	26	6	1 065	21		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 623	550	1 678	1 191	627	259	147	93	23	26	6	1 022	21		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴	31	5	9	6	2	2	-	-	-	-	-	8	---		
NOT REPORTED	115	15	25	17	18	4	2	2	-	-	-	33	20		
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	---		
AIR CONDITIONING															
WITH AIR CONDITIONING	2 827	216	838	641	400	175	103	64	22	22	2	345	23		
ROOM UNITS	1 971	195	623	434	252	101	56	28	12	10	-	260	21		
1	1 624	175	532	338	191	76	44	19	5	5	-	238	19		
2	306	18	83	83	51	22	12	8	6	6	-	17	25		
3	28	2	5	10	3	4	-	-	-	-	-	5	---		
4	11	-	2	3	6	-	-	-	-	-	-	5	---		
5 OR MORE	2	-	2	-	-	-	-	-	-	-	-	5	---		
CENTRAL SYSTEM	856	21	215	207	148	74	47	37	10	12	2	85	27		
WITH NO AIR CONDITIONING	2 987	361	887	585	249	90	46	30	2	5	3	729	18		
PERSONS															
1 PERSON	2 332	361	805	312	155	45	22	11	2	3	2	614	16		
2 PERSONS	1 686	158	538	409	189	76	50	27	5	5	1	223	21		
3 PERSONS	864	34	223	225	152	52	31	26	5	7	1	108	25		
4 PERSONS	547	11	92	182	85	63	21	10	8	4	2	70	27		
5 PERSONS	216	3	45	61	39	16	7	9	3	1	-	32	26		
6 PERSONS	84	2	13	16	14	9	8	5	2	-	2	15	32		
7 PERSONS OR MORE	85	7	10	20	16	4	10	5	2	-	2	11	29		
MEDIAN	1.8	1.5	1.6	2.2	2.4	2.7	2.6	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 CHARACTERISTICS¹ 1978--CONTINUED
(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													MEDIAN (DOL- LARS)
		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 ELEC- TRICITY USED OR NOT REPORTED ²			
SPECIFIED RENTER OCCUPIED ³	5 814	577	1 726	1 225	649	264	148	94	23	27	6	1 073	20		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	1 720	59	396	493	299	138	76	60	16	12	5	166	26		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING															
ALL WINDOWS COVERED	1 043	25	238	310	185	95	48	40	9	6	1	91	26		
SOME WINDOWS COVERED	315	14	72	91	58	27	17	9	3	4	2	18	26		
NO WINDOWS COVERED	274	14	68	73	43	15	14	10	3	2	2	31	25		
NOT REPORTED	68	6	18	18	13	2	2	1	-	-	-	27	23		
STORM DOORS															
ALL DOORS COVERED	1 006	29	232	301	171	91	49	29	9	5	3	86	26		
SOME DOORS COVERED	276	10	75	73	49	26	10	14	4	3	2	11	26		
NO DOORS COVERED	387	14	71	98	66	20	15	14	2	4	-	42	26		
NOT REPORTED	91	6	18	20	13	2	2	3	-	-	-	27	23		
ATTIC OR ROOF INSULATION															
YES	905	24	190	274	150	93	42	37	9	9	1	76	27		
NO	317	13	91	87	58	16	14	6	6	2	2	22	25		
DON'T KNOW	403	14	96	112	76	28	18	15	1	-	2	41	26		
NOT REPORTED	94	9	19	19	15	2	2	1	-	-	-	27	22		

¹RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978
(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 (DOL- LARS)	
SPECIFIED OWNER OCCUPIED ²	11 256	401	311	478	784	1 031	2 839	1 883	1 441	374	134	1 578	36	
HOUSE HEATING FUEL														
GAS	9 004	135	214	418	747	999	2 780	1 838	1 398	356	122	-	36	
UTILITY GAS	8 524	128	207	405	718	959	2 686	1 766	1 261	307	92	-	36	
BOTTLED, TANK, OR LP GAS.	480	12	7	13	30	40	72	132	49	31	-	46		
OTHER THAN GAS	2 251	266	97	60	37	32	59	46	47	18	11	1 578	13	
FUEL OIL	1 436	231	85	49	25	18	36	27	24	10	8	922	11	
KEROSENE, ETC.	5	-	-	-	-	-	2	-	1	1	1	1	1	
ELECTRICITY	750	27	7	8	9	12	15	14	18	6	2	632	28	
COAL OR COKE	23	4	3	1	-	1	3	2	-	1	1	6	1	
WOOD	31	4	2	2	3	1	3	-	2	2	2	13	1	
SOLAR HEAT	1	-	-	-	-	-	-	-	-	-	-	1	-	
OTHER FUEL	4	-	-	-	-	1	-	2	2	-	-	-	-	
NONE	1	-	-	-	-	-	-	-	-	-	-	1	-	
WATER HEATING FUEL ³														
GAS	8 424	245	272	416	686	899	2 542	1 684	1 250	321	110	-	36	
UTILITY GAS	8 014	218	251	392	667	863	2 472	1 627	1 155	283	86	-	36	
BOTTLED, TANK, OR LP GAS	409	27	20	23	20	36	70	57	95	38	24	-	41	
OTHER FUEL	2 773	143	35	57	93	131	292	195	188	52	24	1 563	34	
NONE	3	1	-	-	-	-	1	-	-	-	-	2	1	
COOKING FUEL														
GAS	5 209	241	170	254	410	539	1 511	1 031	787	202	64	-	36	
UTILITY GAS	4 750	139	145	226	384	503	1 444	984	705	174	44	-	36	
BOTTLED, TANK, OR LP GAS	459	102	25	27	27	36	67	47	82	28	20	-	32	
OTHER FUEL	6 046	160	141	224	374	492	1 329	853	653	172	70	1 578	36	
NONE	1	-	-	-	-	-	-	-	-	-	-	1	-	
ALL GAS HOUSING UNITS														
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	4 520	51	104	202	356	481	1 413	960	715	184	54	-	37	
ALL OTHER FUEL COMBINATIONS OR NONE	6 736	350	207	276	428	551	1 426	923	725	190	80	1 578	35	
HEATING EQUIPMENT														
WARM-AIR FURNACE	9 049	282	226	374	668	882	2 503	1 626	1 212	286	91	898	36	
HEAT PUMP	133	2	1	-	2	2	-	-	1	2	2	122	1	
STEAM OR HOT WATER	887	36	21	25	34	58	182	166	159	67	30	110	42	
BUILT-IN ELECTRIC UNITS	423	21	6	6	2	4	5	5	5	1	-	369	15	
FLOOR, WALL, OR PIPELESS FURNACE	268	14	19	35	34	30	68	40	9	5	3	10	28	
ROOM HEATERS WITH FLUE	620	37	35	32	40	51	69	43	48	11	7	47	28	
ROOM HEATERS WITHOUT FLUE	15	3	-	-	1	-	5	2	2	1	-	2	1	
FIREPLACES, STOVES, OR PORTABLE HEATERS	61	6	3	5	5	5	7	2	3	3	1	20	25	
NONE	1	-	-	-	-	-	-	-	-	-	-	1	-	
THERMOSTAT CONTROLLED HEATING EQUIPMENT														
NO HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	1	-	
WITH HEATING EQUIPMENT	11 256	401	311	478	784	1 031	2 839	1 883	1 441	374	134	1 578	36	
NO THERMOSTAT CONTROL	318	36	25	23	24	34	52	22	25	8	7	59	27	
WITH THERMOSTAT CONTROL	10 895	361	284	453	760	994	2 772	1 856	1 409	361	127	1 517	36	
NOT CLOCK OPERATED	9 978	337	244	419	702	913	2 535	1 710	1 273	308	115	1 422	36	
CONSTANT TEMPERATURE SETTING MAINTAINED	3 295	112	82	129	209	291	877	568	420	95	41	470	36	
TEMPERATURE SETTING IS CHANGED OCCASIONALLY	6 656	224	161	289	492	621	1 652	1 133	845	213	74	951	36	
REGULARLY	1 834	62	46	56	141	155	422	331	274	84	21	239	37	
DON'T KNOW	4 771	161	110	227	347	460	1 225	794	558	127	52	709	35	
NOT REPORTED	44	2	2	4	4	5	2	8	11	2	1	3	41	
NOT REPORTED	7	-	-	2	-	2	2	2	-	-	-	-	1	
CLOCK OPERATED	28	1	2	-	2	-	6	8	8	-	-	2	1	
NOT REPORTED	880	21	40	34	56	76	229	140	132	51	11	90	37	
NOT REPORTED	37	3	-	2	2	5	8	7	4	2	6	6	1	
NOT REPORTED	43	4	2	2	-	3	15	5	7	5	-	1	36	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	61	6	3	5	5	5	7	2	3	3	1	21	25	
WITH SELECTED HEATING EQUIPMENT ⁴	11 195	395	308	473	780	1 027	2 832	1 881	1 438	372	133	1 557	36	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	10 610	368	291	448	761	979	2 696	1 792	1 363	357	122	1 433	36	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	511	23	15	20	15	44	112	80	62	10	10	122	36	
SOLAR HEATING EQUIPMENT	3	-	-	-	-	-	-	1	-	-	-	2	1	
STOVE, BURNING WOOD OR COAL	190	10	3	6	7	15	35	29	18	1	3	62	36	
FIREPLACE, BURNING WOOD OR COAL	74	2	3	2	-	1	19	12	5	2	-	28	37	
PORTABLE ELECTRIC HEATER	125	3	4	8	2	16	33	19	22	5	2	9	37	
ROOM HEATER WITHOUT FLUE OR VENT	23	1	-	-	1	7	6	2	-	-	-	6	1	
BURNING GAS, OIL, OR KEROSENE	85	5	3	4	6	11	12	12	13	2	4	13	35	
OTHER	12	2	2	-	-	-	5	-	2	-	-	2	1	
NOT REPORTED	73	4	2	5	3	3	24	10	13	5	2	2	37	
AGE OF HEATING EQUIPMENT														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	496	46	38	38	46	55	82	47	53	14	8	69	28	
WITH SELECTED HEATING EQUIPMENT ⁴	10 760	355	273	440	739	976	2 758	1 837	1 387	360	126	1 509	36	
LESS THAN 4 YEARS	1 707	62	52	77	111	146	354	253	173	50	17	414	35	
4 TO 9 YEARS	2 542	63	45	90	161	206	639	416	374	115	41	393	37	
10 TO 19 YEARS	3 425	86	70	150	231	336	951	625	488	95	36	359	36	
20 TO 39 YEARS	2 173	93	73	97	164	214	593	363	215	64	17	279	35	
40 YEARS OR MORE	210	13	10	2	15	12	52	43	30	11	7	16	38	
DON'T KNOW	574	30	20	22	53	47	127	121	90	17	6	41	37	
NOT REPORTED	129	8	4	2	4	17	42	17	18	9	2	6	36	

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.

⁴EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

⁵EXCLUDES 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: 1978--CONTINUED

(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 ^a	MEDIAN (DOL- LARS)	
SPECIFIED OWNER OCCUPIED^b--CONTINUED														
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	496	46	38	38	46	55	82	47	53	14	8	69	28	
WITH SELECTED HEATING EQUIPMENT ^c	10 760	355	273	440	739	976	2 758	1 837	1 387	360	126	1 509	36	
NO MAINTENANCE OR MODIFICATION	8 213	236	212	325	583	771	2 119	1 456	1 055	264	92	1 100	36	
WITH MAINTENANCE OR MODIFICATION	2 435	113	58	115	189	607	364	314	87	38	400	36	37	
NOT REPORTED	112	7	4	-	1	16	32	17	18	9	-	8	37	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	496	46	38	38	46	55	82	47	53	14	8	69	28	
WITH SELECTED HEATING EQUIPMENT ^c	10 760	355	273	440	739	976	2 758	1 837	1 387	360	126	1 509	36	
NO MAINTENANCE CONTRACT	9 981	302	240	419	698	908	2 595	1 718	1 292	328	116	1 364	36	
WITH MAINTENANCE CONTRACT	650	48	29	21	39	51	125	99	72	25	6	134	35	
NOT REPORTED	130	5	4	-	2	17	38	20	23	7	4	10	38	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT														
NO HOT PIPED WATER	54	13	5	4	5	2	5	5	2	2	-	13	18	
WITH HOT PIPED WATER	11 200	389	306	473	780	1 030	2 835	1 878	1 438	373	134	1 565	36	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 001	378	296	469	771	1 015	2 789	1 846	1 402	366	129	1 541	36	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	54	2	5	-	1	6	13	5	10	-	4	5	35	
NOT REPORTED	139	7	6	4	7	7	32	27	26	7	2	14	39	
NOT REPORTED	2	-	-	2	-	-	-	-	-	-	-	1	---	
AIR CONDITIONING														
WITH AIR CONDITIONING	6 851	195	185	302	500	671	1 765	1 162	910	228	84	848	36	
ROOM UNITS	3 395	117	115	162	259	394	867	559	404	104	28	388	35	
1	2 245	79	80	104	175	285	565	347	245	58	13	294	34	
2	914	33	31	45	67	86	251	161	124	29	7	80	36	
3	196	3	3	13	13	17	48	44	22	15	7	11	36	
4	28	2	-	-	4	4	3	7	6	-	1	2	---	
5 OR MORE	12	-	-	-	-	-	-	-	-	7	2	2	---	
CENTRAL SYSTEM	3 456	79	70	140	241	277	898	604	506	124	56	461	37	
WITH NO AIR CONDITIONING	4 406	206	126	176	284	361	1 074	721	531	147	50	730	36	
PERSONS														
1 PERSON	1 516	89	73	100	194	178	351	165	124	32	14	197	31	
2 PERSONS	3 473	129	102	164	258	392	967	521	339	79	24	498	36	
3 PERSONS	1 910	78	47	84	114	158	478	299	264	82	22	286	36	
4 PERSONS	2 254	46	50	74	146	172	579	452	324	73	27	311	38	
5 PERSONS	1 222	35	23	36	50	85	286	253	199	62	32	161	41	
6 PERSONS	551	12	9	14	12	28	115	135	108	24	5	88	43	
7 PERSONS OR MORE	331	11	7	6	11	19	64	60	83	23	10	37	44	
MEDIAN	2.8	2.4	2.3	2.3	2.3	2.4	2.7	3.3	3.5	3.4	3.8	2.8	---	
SPECIFIED OWNER OCCUPIED^b														
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	11 256	401	311	478	784	1 031	2 839	1 883	1 441	374	134	1 578	36	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED	9 622	321	285	397	669	896	2 489	1 619	1 177	294	102	1 413	36	
SOME WINDOWS COVERED	1 120	50	47	50	64	97	250	177	193	54	22	116	37	
NO WINDOWS COVERED	469	28	19	30	52	33	91	79	60	19	10	48	35	
NOT REPORTED	46	2	-	2	-	5	10	8	11	7	-	1	44	
STORM DOORS														
ALL DOORS COVERED	9 346	315	259	392	650	889	2 474	1 594	1 165	252	95	1 259	36	
SOME DOORS COVERED	1 150	47	31	47	87	101	247	178	156	73	22	160	37	
NO DOORS COVERED	713	37	21	36	48	36	106	101	111	44	17	158	39	
NOT REPORTED	47	3	-	3	-	5	13	10	8	5	-	1	39	
ATTIC OR ROOF INSULATION														
YES	9,938	341	274	400	699	902	2 519	1 679	1 235	302	113	1 476	36	
NO	891	42	31	56	60	82	224	126	133	49	14	74	36	
DON'T KNOW	359	16	6	19	23	39	85	65	58	18	7	23	37	
NOT REPORTED	68	2	-	3	3	9	11	14	15	6	-	6	42	
SPECIFIED RENTER OCCUPIED ^b	5 814	575	343	274	281	303	574	257	221	76	44	2 867	25	
HOUSE HEATING FUEL														
GAS	4 533	434	287	260	269	293	549	250	211	76	40	1 866	26	
UTILITY GAS	4 330	428	282	252	250	277	510	234	176	67	23	1 850	26	
BOTTLED, TANK, OR LP GAS	203	5	5	8	18	16	39	16	34	9	17	35	37	
OTHER THAN GAS	1 271	141	54	14	12	11	25	6	10	-	4	993	10+	
FUEL OIL	609	119	41	9	7	7	18	4	4	-	3	397	10+	
KEROSENE, ETC	597	15	9	2	5	2	6	1	5	-	1	551	14	
ELECTRICITY	15	3	3	-	-	-	-	-	-	-	-	9	---	
COAL OR COKE	22	2	-	2	-	2	2	1	2	-	-	12	---	
WOOD	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOLAR HEAT	28	2	2	-	-	-	-	-	-	-	-	-	-	
OTHER FUEL	10	-	2	-	-	-	-	-	-	-	-	25	---	
NONE												8	---	

^aRENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.^bLIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.^cEXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.^dLIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.^eEXCLUDES 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: 1978--CONTINUED
(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													MEDIAN (DOL- LARS)	
		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				
SPECIFIED RENTER OCCUPIED²--CONTINUED																
WATER HEATING FUEL³																
GAS																
UTILITY GAS	4 522	490	305	231	250	269	509	232	191	73	34	1 939	25			
BOTTLED, TANK, OR LP GAS	4 372	484	296	223	238	259	480	223	174	67	25	1 906	24			
OTHER FUEL	149	6	9	8	12	10	29	10	18	5	9	34	34			
NONE	1 247	77	37	40	30	32	62	24	28	4	9	904	22			
	4	1	-	-	-	-	-	-	-	-	-	3	3			
COOKING FUEL																
GAS																
UTILITY GAS	3 422	473	237	175	186	221	403	187	176	57	33	1 273	25			
BOTTLED, TANK, OR LP GAS	3 182	422	225	158	173	206	364	173	147	53	22	1 239	24			
OTHER FUEL	240	52	12	17	13	15	39	14	28	4	11	34	27			
NONE	2 334	102	106	98	94	80	170	70	45	20	11	1 538	24			
	59	-	-	-	1	2	1	-	4	-	-	56	***			
ALL GAS HOUSING UNITS																
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 917	338	187	153	170	198	355	171	157	57	28	1 104	26			
ALL OTHER FUEL COMBINATIONS OR NONE	2 897	237	155	121	111	105	219	86	63	20	16	1 763	22			
HEATING EQUIPMENT																
WARM-AIR FURNACE	2 982	204	194	194	179	199	413	176	162	54	32	1 175	28			
HEAT PUMP	18	-	-	-	-	-	-	-	3	-	-	15	15			
STEAM OR HOT WATER	1 653	307	76	16	30	19	39	30	22	7	3	1 104	10+			
BUILT-IN ELECTRIC UNITS	386	8	6	2	1	2	3	-	-	-	1	364	**			
FLOOR, WALL, OR PIPELESS FURNACE	230	17	28	24	25	15	35	7	4	8	2	65	22			
ROOM HEATERS WITH FLUE	470	31	36	35	44	63	79	39	25	8	5	107	27			
ROOM HEATERS WITHOUT FLUE	23	3	-	-	4	3	3	3	3	-	-	8	**			
FIREPLACES, STOVES, OR PORTABLE HEATERS	41	6	1	3	1	2	3	3	2	-	1	21	**			
NONE	10	-	2	-	-	-	-	-	-	-	-	8	**			
THERMOSTAT CONTROLLED HEATING EQUIPMENT																
NO HEATING EQUIPMENT	10	-	2	-	-	-	-	-	-	-	-	8	**			
WITH HEATING EQUIPMENT	5 804	575	341	274	281	303	574	257	221	76	44	2 859	25			
NO THERMOSTAT CONTROL	1 635	322	102	40	48	43	79	33	23	3	6	936	11			
WITH THERMOSTAT CONTROL	4 162	253	239	234	233	260	495	224	198	73	38	1 915	28			
NOT CLOCK OPERATED	3 854	233	213	222	213	242	450	210	179	71	32	1 789	28			
CONSTANT TEMPERATURE SETTING MAINTAINED	1 246	81	71	59	72	144	61	51	24	7	6	606	27			
TEMPERATURE SETTING IS CHANGED	2 589	153	140	149	154	167	304	149	128	45	25	1 174	28			
OCCASIONALLY	877	48	45	44	46	44	90	43	46	27	10	434	29			
REGULARLY	1 577	101	92	105	107	123	211	104	81	16	16	721	27			
DON'T KNOW	33	4	3	-	2	1	2	2	2	-	2	18	**			
NOT REPORTED	1	-	-	-	-	-	-	-	-	-	-	-	**			
CLOCK OPERATED	282	16	25	12	17	17	40	14	19	2	5	115	28			
NOT REPORTED	26	3	2	-	3	1	5	-	-	1	-	11	**			
NOT REPORTED	8	-	-	-	-	-	-	-	-	-	-	8	**			
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	51	6	3	3	1	2	3	2	2	-	1	29	**			
WITH SELECTED HEATING EQUIPMENT ⁴	5 763	569	340	271	280	302	571	254	219	76	43	2 838	25			
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 538	536	327	265	269	289	548	242	201	69	40	2 751	24			
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	188	28	12	6	9	12	18	10	17	7	2	66	27			
SOLAR HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	-	-	**			
STOVE, BURNING WOOD OR COAL	13	3	-	1	1	-	4	-	-	-	1	4	**			
FIREPLACE, BURNING WOOD OR COAL	6	-	1	-	-	-	-	-	-	-	1	2	**			
PORTABLE ELECTRIC HEATER	127	19	10	5	5	11	7	9	10	4	2	44	26			
ROOM HEATER WITHOUT FLUE OR VENT,																
BURNING GAS, OIL, OR KEROSENE	19	3	1	-	2	-	3	2	3	-	-	6	**			
OTHER	18	2	-	-	2	1	3	1	2	2	-	6	**			
NOT REPORTED	5	2	-	-	-	-	1	2	-	-	-	3	**			
NOT REPORTED	37	4	1	-	2	1	5	2	1	-	-	22	**			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																
NO HOT PIPED WATER	41	7	1	3	1	2	3	1	2	-	1	20	**			
WITH HOT PIPED WATER	5 773	568	342	270	280	301	571	256	219	76	43	2 847	25			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁵	5 623	548	330	266	273	296	559	248	215	76	42	2 768	25			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁵	31	2	1	-	2	2	4	1	3	-	1	15	**			
NOT REPORTED	115	17	11	4	5	2	8	7	1	-	-	60	14			
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-			
AIR CONDITIONING																
WITH AIR CONDITIONING	2 827	240	161	144	122	102	243	91	78	29	16	1 600	22			
ROOM UNITS	1 971	189	99	89	79	80	177	66	60	26	13	1 094	23			
1	1 628	151	89	67	60	63	136	46	35	18	10	949	22			
2	306	27	8	22	17	15	41	17	24	7	2	127	30			
3	28	8	2	-	2	-	2	-	3	-	1	11	**			
4	11	2	-	1	3	-	-	-	-	-	-	6	**			
5 OR MORE	2	2	-	-	-	-	-	-	-	-	-	-	**			
CENTRAL SYSTEM	856	51	62	55	43	22	67	25	18	3	3	507	21			
WITH NO AIR CONDITIONING	2 987	335	182	130	158	201	331	165	143	48	28	1 266	26			

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

³LIMITED TO HOUSING UNITS WITH HOT PIPED WATER.

⁴EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

⁵LIMITED 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: 1978--CONTINUED
(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)			
		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							
SPECIFIED RENTER OCCUPIED²--CONTINUED																		
PERSONS																		
1 PERSON	2 332	269	115	103	99	82	126	45	30	12	6	1 446	17					
2 PERSONS	1 686	174	127	93	92	93	179	70	52	12	6	788	22					
3 PERSONS	864	68	50	38	40	50	129	59	67	13	9	340	31					
4 PERSONS	547	28	29	28	33	47	99	40	41	15	9	178	32					
5 PERSONS	216	24	15	5	9	24	25	20	10	13	7	65	29					
6 PERSONS	84	8	2	3	4	6	8	9	10	4	2	29	36					
7 PERSONS OR MORE	85	5	4	4	4	2	8	13	10	9	5	21	44					
MEDIAN	1.6	1.6	1.9	1.9	1.9	2.2	2.4	2.7	2.9	3.6	3.6	1.5 ^a	...					
SPECIFIED RENTER OCCUPIED²																		
5 814	575	343	274	281	303	574	257	221	76	44	2 867	25						
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS																		
1 720	119	85	113	135	147	327	139	144	60	38	412	31						
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING																		
ALL WINDOWS COVERED	1 043	63	54	72	84	90	215	76	91	31	23	245	32					
SOME WINDOWS COVERED	315	29	16	22	14	23	48	35	30	17	11	70	34					
NO WINDOWS COVERED	274	24	11	19	24	26	49	23	18	12	3	65	30					
NOT REPORTED	88	3	5	-	14	8	16	5	5	-	-	32	28					
STORM DOORS																		
ALL DOORS COVERED	1 006	68	49	73	69	80	196	80	99	31	25	234	32					
SOME DOORS COVERED	276	23	9	18	19	35	61	24	15	16	6	50	31					
NO DOORS COVERED	347	25	23	22	33	23	53	30	24	13	6	96	30					
NOT REPORTED	91	3	5	-	14	8	17	5	5	-	2	32	28					
ATTIC OR ROOF INSULATION																		
YES	905	57	41	67	78	77	172	73	64	27	20	229	31					
NO	317	26	18	17	22	18	57	32	40	19	10	59	34					
DON'T KNOW	403	32	21	29	21	42	81	28	35	15	9	91	31					
NOT REPORTED	94	5	5	-	14	9	17	6	5	-	-	32	28					

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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.											MEDIAN (DOLLARS)
		LESS THAN \$100	\$100 TO \$199	\$200 TO \$299	\$300 TO \$399	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	"FUELS NOT USED, FREE, OR NOT REPORTED"		
SPECIFIED OWNER OCCUPIED ¹	11 256	337	132	173	322	337	230	152	80	114	9 380	391	
HOUSE HEATING FUEL													
OIL, COAL, KEROSENE, WOOD, ETC.	1 496	47	35	136	292	311	211	136	72	105	152	452	
FUEL OIL	1 436	43	28	131	285	306	211	135	70	105	122	455	
COAL OR COKE	23	-	3	4	6	2	-	-	2	-	6	***	
KEROSENE, ETC.	5	-	1	-	1	1	-	-	-	-	3	***	
WOOD	31	4	3	1	1	2	-	1	-	-	20	100-	
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC.	9 760	290	96	37	30	26	19	16	8	9	9 227	100-	
UTILITY GAS	8 524	230	70	28	15	18	12	9	7	5	8 131	100-	
BOTTLED, TANK, OR LP GAS	480	13	12	3	9	6	4	3	1	1	428	209	
ELECTRICITY	750	46	14	6	7	2	3	4	-	3	664	100-	
SOLAR HEAT	1	-	-	-	-	-	-	-	-	-	1	-	
OTHER FUEL	4	-	-	-	-	-	-	-	-	-	4	-	
NONE	1	-	-	-	-	-	-	-	-	-	1	-	
HEATING EQUIPMENT													
WARM-AIR FURNACE	9 049	257	98	135	274	274	189	116	63	76	7 565	391	
HEAT PUMP	133	13	4	2	-	-	-	3	-	-	112	***	
STEAM OR HOT WATER	887	16	5	8	13	30	30	22	11	31	722	536	
BUILT-IN ELECTRIC UNITS	423	23	9	2	4	2	2	-	-	2	380	100-	
FLOOR, WALL, OR PIPELESS FURNACE	268	6	2	2	2	6	2	1	2	1	245	***	
ROOM HEATERS WITH FLUE	420	13	6	20	28	21	7	10	4	4	306	362	
ROOM HEATERS WITHOUT FLUE	15	2	-	-	1	2	1	-	-	-	10	***	
FIREPLACES, STOVES, OR PORTABLE HEATERS	61	8	7	4	1	2	-	1	-	-	37	***	
NONE	1	-	-	-	-	-	-	-	-	-	1	-	
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	1	-	-	-	-	-	-	-	-	-	1	-	
WITH HEATING EQUIPMENT	11 256	337	132	173	322	337	230	152	80	114	9 379	391	
NO THERMOSTAT CONTROL	318	11	12	20	20	22	9	9	4	6	205	368	
WITH THERMOSTAT CONTROL	10 895	325	120	152	302	315	221	143	76	106	9 136	393	
NOT CLOCK OPERATED	9 978	307	111	138	279	294	208	134	70	99	8 338	394	
CONSTANT TEMPERATURE SETTING MAINTAINED	3 295	99	33	43	77	91	57	39	17	33	2 805	389	
TEMPERATURE SETTING IS CHANGED	6 656	208	75	95	202	204	151	92	54	65	5 511	396	
OCCASIONALLY	1 834	58	16	29	32	49	28	33	8	15	1 564	395	
REGULARLY	4 771	149	58	63	169	152	120	57	46	50	3 906	395	
DON'T KNOW	44	-	-	2	1	-	3	2	-	-	37	***	
NOT REPORTED	7	-	-	-	-	2	-	-	-	-	5	***	
NOT REPORTED	28	-	4	-	-	-	-	2	-	-	22	***	
CLOCK OPERATED	880	18	9	14	20	18	13	9	6	6	769	375	
NOT REPORTED	37	-	-	-	3	-	-	-	-	1	30	***	
NOT REPORTED	43	2	-	2	-	-	-	-	-	2	38	***	
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	496	22	13	24	30	25	8	11	4	5	354	337	
WITH SELECTED HEATING EQUIPMENT ²	10 760	314	118	149	292	312	223	141	76	109	9 025	397	
LESS THAN 4 YEARS	1 707	60	28	18	31	42	17	15	8	21	1 487	347	
4 TO 9 YEARS	2 542	92	32	35	48	46	42	34	12	20	2 181	344	
10 TO 19 YEARS	3 425	99	36	49	90	94	66	44	21	30	2 894	389	
20 TO 39 YEARS	2 173	42	15	39	101	109	70	34	23	34	1 706	433	
40 YEARS OR MORE	210	4	3	4	1	1	7	5	7	-	172	503	
DON'T KNOW	574	15	2	4	17	11	15	8	5	2	494	412	
NOT REPORTED	129	2	2	1	4	4	4	-	-	1	111	***	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	496	22	13	24	30	25	8	11	4	5	354	337	
WITH SELECTED HEATING EQUIPMENT ²	10 760	314	118	149	292	312	223	141	76	109	9 025	397	
NO MAINTENANCE OR MODIFICATION	8 213	235	91	100	183	196	126	85	48	72	7 077	377	
WITH MAINTENANCE OR MODIFICATION	2 435	75	26	49	108	114	93	56	28	36	1 852	430	
NOT REPORTED	112	5	2	1	2	2	4	-	-	1	97	***	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	496	22	13	24	30	25	8	11	4	5	354	337	
WITH SELECTED HEATING EQUIPMENT ²	10 760	314	118	149	292	312	223	141	76	109	9 025	397	
NO MAINTENANCE CONTRACT	9 981	292	111	124	254	276	192	122	56	90	8 444	390	
WITH MAINTENANCE CONTRACT	650	16	6	21	36	35	27	19	20	17	453	456	
NOT REPORTED	130	6	2	4	2	2	4	-	-	2	109	***	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	54	3	2	6	4	2	2	3	3	2	25	***	
WITH HOT PIPED WATER	11 200	333	129	167	318	335	228	149	77	111	9 352	391	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	11 001	330	128	161	315	331	226	149	75	106	9 179	391	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	54	1	-	2	-	1	1	-	-	1	49	***	
NOT REPORTED	139	3	-	5	3	2	2	2	-	2	118	***	
NOT REPORTED	2	-	-	-	-	-	-	-	-	-	2	-	
AIR CONDITIONING													
WITH AIR CONDITIONING	6 851	216	73	66	154	147	102	68	31	47	5 945	362	
ROOM UNITS	3 395	79	26	42	95	101	65	40	20	32	2 895	408	
1	2 245	50	18	30	66	81	47	25	13	20	1 894	414	
2	914	23	6	9	28	17	18	13	5	8	786	392	
3	196	4	2	3	1	3	-	2	2	4	177	***	
4	28	2	-	-	-	-	-	-	-	-	26	***	
5 OR MORE	12	-	-	-	-	-	-	-	-	-	12	-	
CENTRAL SYSTEM	3 456	137	47	25	59	45	38	28	11	15	3 050	274	
WITH NO AIR CONDITIONING	4 406	120	58	107	168	190	128	84	49	66	3 435	416	

¹ RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

² LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³ EXCLUDES 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.

TABLE C-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS¹ 1978--CONTINUED

(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.											MEDIAN (DOL- LARS)		
		LESS THAN \$100	\$100 TO \$199	\$200 TO \$299	\$300 TO \$399	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED ²				
SPECIFIED OWNER OCCUPIED³--CONTINUED															
PERSONS															
1 PERSON	1 516	52	13	22	59	63	31	16	14	14	1 233	393			
2 PERSONS	3 473	82	33	66	127	100	78	42	21	25	2 899	382			
3 PERSONS	1 910	52	30	24	43	56	34	32	15	20	1 604	406			
4 PERSONS	2 254	89	36	23	41	61	44	26	18	22	1 893	377			
5 PERSONS	1 222	40	11	25	31	33	23	21	4	12	1 022	374			
6 PERSONS	551	11	2	6	10	14	17	9	5	13	464	498			
7 PERSONS OR MORE	331	11	6	6	11	11	4	6	2	9	265	394			
MEDIAN	2.8	3.2	3.1	2.5	2.3	2.6	2.7	3.1	2.8	3.4	2.8	***			
SPECIFIED OWNER OCCUPIED²															
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS															
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	11 256	337	132	173	322	337	230	152	80	114	9 380	391			
ALL WINDOWS COVERED	9 622	289	113	140	271	292	195	128	67	88	8 038	391			
SOME WINDOWS COVERED	1 120	30	8	22	33	35	22	19	8	23	919	421			
NO WINDOWS COVERED	469	16	8	10	17	10	12	5	5	2	383	347			
NOT REPORTED	46	2	2	1	1	-	1	-	-	1	39	***			
STORM DOORS															
ALL DOORS COVERED	9 346	256	84	137	273	296	203	126	61	83	7 827	403			
SOME DOORS COVERED	1 150	44	22	30	29	25	18	20	11	19	932	344			
NO DOORS COVERED	713	36	23	6	17	16	9	6	8	10	582	306			
NOT REPORTED	47	2	2	1	3	-	-	-	-	2	39	***			
ATTIC OR ROOF INSULATION															
YES	9 938	304	113	158	296	303	192	127	74	100	8 271	387			
NO	891	13	12	11	20	27	18	24	6	9	750	449			
DON'T KNOW	359	14	2	3	6	5	20	1	-	3	305	434			
NOT REPORTED	68	5	4	1	1	1	1	-	-	2	53	***			
SPECIFIED RENTER OCCUPIED³															
HOUSE HEATING FUEL															
OIL, COAL, KEROSENE, WOOD, ETC.	646	14	24	36	49	49	36	28	10	16	384	416			
FUEL OIL	609	13	21	30	49	47	36	27	10	15	361	424			
COAL OR COKE	15	-	1	4	-	1	-	-	-	1	8	***			
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-			
WOOD	22	-	-	2	2	-	-	-	-	-	15	15			
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC.	5 158	27	2	2	2	1	1	1	1	1	5 082	176			
UTILITY GAS	4 330	20	10	4	6	3	2	2	2	2	4 282	141			
BOTTLED, TANK, OR LP GAS	203	5	2	4	2	1	2	1	1	1	183	183			
ELECTRICITY	597	2	3	2	1	-	-	-	-	-	590	***			
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-			
OTHER FUEL	28	-	-	-	-	-	-	-	-	-	28	-			
NONE	10	-	-	4	4	-	-	-	1	-	-	9	***		
HEATING EQUIPMENT															
WARM-AIR FURNACE	2 982	27	26	32	46	43	22	17	7	18	2 744	375			
HEAT PUMP	18	-	-	-	-	-	-	-	-	-	18	-			
STEAM OR HOT WATER	1 653	6	-	1	1	2	1	5	2	3	1 633	***			
BUILT-IN ELECTRIC UNITS	386	-	3	2	2	2	1	-	-	-	382	***			
FLOOR, WALL, OR PIPELESS FURNACE	230	1	1	2	2	2	1	2	1	-	220	-			
ROOM HEATERS WITH FLUE	470	5	7	5	8	5	8	6	2	2	421	395			
ROOM HEATERS WITHOUT FLUE	23	-	-	-	-	-	-	-	-	-	17	-			
FIREPLACES, STOVES, OR PORTABLE HEATERS	41	2	2	4	-	-	1	2	1	-	30	***			
NONE	10	-	-	-	-	-	-	-	1	-	9	***			
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT	10	-	-	-	-	-	-	-	-	-	9	-			
WITH HEATING EQUIPMENT	5 804	41	39	45	58	53	39	30	11	23	5 466	375			
NO THERMOSTAT CONTROL	1 635	5	8	9	10	5	11	5	2	2	1 579	357			
WITH THERMOSTAT CONTROL	4 162	36	31	36	48	48	28	25	10	21	3 879	379			
NOT CLOCK OPERATED	3 854	31	29	34	45	43	28	24	9	21	3 590	383			
CONSTANT TEMPERATURE SETTING MAINTAINED	1 246	15	8	9	14	10	12	5	6	7	1 160	377			
TEMPERATURE SETTING IS CHANGED	2 589	16	21	25	31	33	16	19	3	14	2 411	386			
Occasionally	877	6	8	9	7	7	4	3	1	2	831	308			
Regularly	1 677	9	12	16	24	26	12	16	2	13	1 548	413			
Don't Know	33	1	2	-	-	-	-	-	-	-	31	-			
Not Reported	1	-	-	-	-	-	-	-	-	-	-	-			
Clock Operated	19	-	-	-	-	-	-	-	-	-	19	-			
Not Reported	282	5	2	3	2	4	-	-	-	-	266	***			
Not Reported	26	-	-	-	-	1	-	-	-	-	23	***			
Not Reported	8	-	-	-	-	-	-	-	-	-	8	***			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT															
NO HOT PIPED WATER	41	3	3	4	2	-	2	-	-	1	27	-			
WITH HOT PIPED WATER	5 773	38	36	41	56	53	36	31	11	22	5 448	382			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 623	38	36	40	56	52	36	30	11	22	5 302	383			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	31	-	-	2	-	-	-	-	-	-	29	-			
Not Reported	115	1	-	-	-	-	-	-	1	-	113	***			
Not Reported	-	-	-	-	-	-	-	-	-	-	-	-			

¹RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

⁴LIMITED 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 CHARACTERISTICS¹ 1978--CONTINUED

(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	NOT USED, FREE, OR NOT REPORTED ²	MEDIAN (DOL- LARS)		
SPECIFIED RENTER OCCUPIED²--CONTINUED														
AIR CONDITIONING														
WITH AIR CONDITIONING	2 827	18	19	8	19	17	6	6	4	11	2 719	346		
ROOM UNITS	1 971	11	10	8	17	17	5	6	4	9	1 883	385		
1	1 624	7	10	5	17	13	3	6	2	7	1 554	374		
2	306	2	-	2	-	3	2	-	-	-	294	---		
3	28	2	-	-	-	1	-	-	-	-	25	---		
4	11	1	-	-	-	-	-	-	-	-	8	---		
5 OR MORE	2	-	-	-	-	-	-	-	-	-	2	-		
CENTRAL SYSTEM	856	7	8	1	2	-	1	-	-	-	836	---		
WITH NO AIR CONDITIONING	2 987	23	20	37	39	35	33	25	7	12	2 756	391		
PERSONS														
1 PERSON	2 332	12	8	8	12	10	5	6	2	2	2 268	332		
2 PERSONS	1 686	10	10	16	17	20	15	8	4	9	1 578	409		
3 PERSONS	864	9	11	8	13	11	3	5	4	3	795	344		
4 PERSONS	547	9	8	6	10	5	9	6	2	2	491	350		
5 PERSONS	216	1	2	2	2	3	3	2	-	-	198	---		
6 PERSONS	84	-	-	3	2	2	3	1	-	2	70	---		
7 PERSONS OR MORE	85	1	1	2	1	1	1	4	-	2	75	---		
MEDIAN	1.8	2.4	2.7	2.4	2.5	2.3	2.4	---	---	---	1.8	---		
SPECIFIED RENTER OCCUPIED ²	5 814	41	39	45	58	53	39	31	11	23	5 475	376		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS														
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED	1 043	22	16	23	30	37	21	13	8	11	861	398		
SOME WINDOWS COVERED	315	6	11	4	15	9	11	8	1	6	245	392		
NO WINDOWS COVERED	274	3	4	10	6	2	2	5	1	6	234	337		
NOT REPORTED	88	-	-	-	-	-	-	-	-	-	88	-		
STORM DOORS														
ALL DOORS COVERED	1 006	19	19	20	38	35	24	19	8	14	809	406		
SOME DOORS COVERED	276	6	5	12	6	5	3	2	-	5	232	296		
NO DOORS COVERED	347	6	7	6	7	7	7	5	2	4	296	383		
NOT REPORTED	91	-	-	-	-	-	-	-	-	-	91	-		
ATTIC OR ROOF INSULATION														
YES	905	22	17	22	35	25	17	13	6	10	738	366		
NO	317	6	7	11	7	10	10	9	2	7	249	432		
DON'T KNOW	403	4	6	5	10	13	7	4	2	5	348	422		
NOT REPORTED	94	-	-	-	-	-	-	1	-	-	93	---		

¹RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.²EXCLUDES 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: 1978

(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							WORKS AT HOME OR NOT REPORTED
		DRIVES SELF	CARPOOL	MASS TRANS- PORTATION	BICYCLE OR MOTOR- CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	
HOUSING UNITS WITH EMPLOYED HEADS¹									
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	14,275	10,461	1,988	577	66	15	524	33	610
LESS THAN 1 MILE	10,230	7,749	1,417	264	44	3	231	25	497
1 TO 4 MILES	759	483	56	2	11	2	201	5	1
5 TO 9 MILES	2,227	1,917	221	42	20	2	23	2	-
10 TO 19 MILES	1,947	1,582	278	6	-	-	2	4	-
20 TO 29 MILES	2,127	1,709	350	65	2	-	1	-	-
30 TO 49 MILES	812	578	205	26	-	-	-	2	-
50 MILES OR MORE	449	280	131	36	-	-	-	2	-
WORKS AT HOME	117	73	40	2	-	-	-	1	1
NO FIXED PLACE OF WORK	462	-	-	-	-	-	-	-	462
NOT REPORTED	1,183	1,028	126	11	4	-	2	11	2
MEDIAN	8.2	7.9	12.4	10.8	2.8	...	1.0-	32	...
RENTER OCCUPIED	4,045	2,712	572	313	23	12	293	7	113
LESS THAN 1 MILE	563	244	43	7	16	4	297	3	-
1 TO 4 MILES	1,091	805	133	110	1	5	35	1	1
5 TO 9 MILES	804	587	116	94	4	2	-	1	-
10 TO 19 MILES	689	509	129	50	1	-	-	-	-
20 TO 29 MILES	247	175	50	20	1	-	-	-	-
30 TO 49 MILES	103	59	30	13	-	-	-	-	-
50 MILES OR MORE	26	17	9	-	-	-	-	-	-
WORKS AT HOME	106	-	-	-	-	-	-	-	-
NO FIXED PLACE OF WORK	364	282	56	10	-	-	-	-	106
NOT REPORTED	53	34	6	8	-	2	12	2	2
MEDIAN	5.7	6.3	8.4	6.6	...	...	1.0-	3	5
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	10,230	7,749	1,417	264	44	3	231	25	497
LESS THAN 15 MINUTES	3,176	2,634	306	7	22	3	196	7	113
15 TO 29 MINUTES	3,145	2,597	465	47	17	-	17	1	-
30 TO 44 MINUTES	1,347	976	286	77	1	-	7	-	-
45 TO 59 MINUTES	470	283	134	52	-	-	-	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	281	140	78	60	-	-	-	2	-
1 HOUR AND 30 MINUTES OR MORE	71	43	17	10	-	-	1	2	1
WORKS AT HOME	462	-	-	-	-	-	-	-	-
NO FIXED PLACE OF WORK	1,183	1,028	126	11	4	-	-	-	462
NOT REPORTED	96	49	4	-	-	2	11	2	2
MEDIAN	20.0	19.0	25.8	44.0	15.0-	...	15.0-	3	32
RENTER OCCUPIED	4,045	2,712	572	313	23	12	293	7	113
LESS THAN 15 MINUTES	1,538	1,085	172	30	19	8	220	3	-
15 TO 29 MINUTES	1,229	885	196	82	3	2	60	1	-
30 TO 44 MINUTES	526	324	97	104	1	-	-	1	-
45 TO 59 MINUTES	129	76	23	30	-	-	-	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	101	27	16	57	-	-	1	-	-
1 HOUR AND 30 MINUTES OR MORE	20	10	10	1	-	-	-	-	-
WORKS AT HOME	106	-	-	-	-	-	-	-	-
NO FIXED PLACE OF WORK	364	282	56	10	-	2	12	2	106
NOT REPORTED	31	22	2	-	-	-	-	1	5
MEDIAN	17.8	17.0	21.4	35.7	...	...	15.0-	...	...

¹LIMITED 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: 1978
(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	25 094	14 195	6 810	7 385	10 898
HOUSE HEATING FUEL					
OWNER OCCUPIED	16 885	8 826	3 609	5 217	8 060
UTILITY GAS	7 997	4 959	2 445	2 514	3 038
BOTTLED, TANK, OR LP GAS	1 785	435	69	366	1 349
FUEL OIL	2 113	1 132	429	703	980
KEROSENE, ETC	179	57	26	31	122
ELECTRICITY	4 275	2 120	603	1 517	2 155
COAL OR COKE	90	18	6	12	72
WOOD	381	56	13	43	325
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	5	2	-	2	4
NONE	60	46	17	29	14
RENTER OCCUPIED	8 208	5 370	3 202	2 168	2 839
UTILITY GAS	3 950	2 663	1 774	889	1 297
BOTTLED, TANK, OR LP GAS	512	131	21	110	381
FUEL OIL	867	598	326	272	269
KEROSENE, ETC	104	26	8	18	78
ELECTRICITY	2 285	1 784	987	797	501
COAL OR COKE	83	23	12	11	61
WOOD	253	34	4	31	219
SOLAR HEAT	-	-	-	-	-
OTHER FUEL	5	3	3	-	2
NONE	138	108	67	41	30
WATER HEATING FUEL					
OWNER OCCUPIED	16 885	8 826	3 609	5 217	8 060
NO HOT PIPED WATER	298	50	5	45	248
WITH HOT PIPED WATER	16 588	8 776	3 604	5 172	7 812
FUEL USED:					
UTILITY GAS	6 943	4 670	2 410	2 260	2 273
BOTTLED, TANK, OR LP GAS	1 076	270	27	243	806
FUEL OIL	265	187	56	131	78
KEROSENE, ETC	10	6	-	6	4
ELECTRICITY	8 259	3 627	1 103	2 524	4 632
COAL OR COKE	5	3	3	-	2
WOOD	8	2	2	-	7
SOLAR HEAT	9	8	3	4	2
OTHER FUEL	2	1	-	1	1
NONE	9	3	-	3	6
NOT REPORTED	-	-	-	-	-
RENTER OCCUPIED	8 208	5 370	3 202	2 168	2 839
NO HOT PIPED WATER	385	66	13	52	319
WITH HOT PIPED WATER	7 824	5 304	3 188	2 116	2 519
FUEL USED:					
UTILITY GAS	3 740	2 764	1 889	876	976
BOTTLED, TANK, OR LP GAS	323	107	27	79	217
FUEL OIL	256	218	92	127	38
KEROSENE, ETC	5	1	-	1	4
ELECTRICITY	3 465	2 193	1 171	1 022	1 272
COAL OR COKE	6	3	2	2	2
WOOD	7	3	-	3	4
SOLAR HEAT	2	2	-	2	-
OTHER FUEL	10	10	5	4	1
NONE	10	3	3	-	7
NOT REPORTED	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED	16 885	8 826	3 609	5 217	8 060
UTILITY GAS	4 717	3 010	1 681	1 329	1 707
BOTTLED, TANK, OR LP GAS	1 777	480	95	385	1 297
FUEL OIL	10	3	2	2	6
KEROSENE, ETC	4	1	-	1	3
ELECTRICITY	10 298	5 315	1 827	3 488	4 983
COAL OR COKE	9	2	2	1	7
WOOD	62	11	2	9	51
OTHER FUEL	1	-	-	-	1
NONE	9	4	2	2	5
RENTER OCCUPIED	8 208	5 370	3 202	2 168	2 839
UTILITY GAS	3 525	2 582	1 744	838	944
BOTTLED, TANK, OR LP GAS	645	207	47	160	437
FUEL OIL	5	4	4	-	5
KEROSENE, ETC	5	-	-	-	1
ELECTRICITY	3 936	2 541	1 391	1 150	1 394
COAL OR COKE	1	-	-	-	1
WOOD	48	12	5	7	36
OTHER FUEL	3	2	-	2	2
NONE	41	21	10	12	19

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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							
LESS THAN \$10	13 447	7 571	3 302	4 269	5 876		
\$10 TO \$19.	127	58	41	17	68		
\$20 TO \$29.	1 181	576	352	224	605		
\$30 TO \$39.	2 093	1 145	562	583	948		
\$40 TO \$49.	2 271	1 243	598	645	1 028		
\$50 TO \$59.	1 818	1 038	420	618	779		
\$60 TO \$79.	1 814	1 007	391	616	806		
\$80 TO \$99.	2 210	1 341	482	859	869		
\$100 TO \$149.	936	583	192	361	383		
\$150 OR MORE.	811	506	230	276	304		
NO ELECTRICITY USED OR NOT REPORTED	175	98	32	66	77		
MEDIAN.	12	4	2	2	8		
	45	47	42	51	43		
SPECIFIED RENTER OCCUPIED ¹							
LESS THAN \$10	7 904	5 326	3 202	2 124	2 578		
\$10 TO \$19.	375	215	164	51	159		
\$20 TO \$29.	1 398	848	542	306	550		
\$30 TO \$39.	1 360	807	513	294	553		
\$40 TO \$49.	1 088	679	378	301	409		
\$50 TO \$59.	766	510	279	231	256		
\$60 TO \$79.	492	342	189	153	150		
\$80 TO \$99.	474	340	162	178	134		
\$100 TO \$149.	131	102	34	67	30		
\$150 OR MORE.	100	70	25	45	30		
INCLUDED IN RENT.	12	12	3	9	-		
NO ELECTRICITY USED OR NOT REPORTED	1 687	1 388	907	481	299		
MEDIAN.	21	13	5	8	8		
	29	31	28	35	27		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED ¹							
LESS THAN \$10	13 447	7 571	3 302	4 269	5 876		
\$10 TO \$14.	809	517	293	224	292		
\$15 TO \$19.	954	578	296	282	377		
\$20 TO \$24.	1 129	582	316	266	547		
\$25 TO \$29.	1 370	797	417	380	573		
\$30 TO \$39.	1 038	591	285	306	447		
\$40 TO \$49.	1 587	969	465	504	618		
\$50 TO \$69.	985	629	253	376	355		
\$70 TO \$99.	836	538	238	300	298		
\$100 OR MORE.	206	140	63	77	66		
NO GAS USED OR NOT REPORTED	68	39	14	25	30		
MEDIAN.	4 463	2 190	661	1 529	2 273		
	26	26	24	28	25		
SPECIFIED RENTER OCCUPIED ¹							
LESS THAN \$10	7 904	5 326	3 202	2 124	2 578		
\$10 TO \$14.	733	470	293	177	262		
\$15 TO \$19.	638	417	295	122	221		
\$20 TO \$24.	553	322	221	102	231		
\$25 TO \$29.	392	221	133	88	171		
\$30 TO \$39.	323	179	112	67	144		
\$40 TO \$49.	424	225	156	68	199		
\$50 TO \$69.	229	127	78	49	102		
\$70 TO \$99.	178	112	54	58	66		
\$100 OR MORE.	37	24	14	10	13		
INCLUDED IN RENT.	21	7	-	7	14		
NO GAS USED OR NOT REPORTED	2 101	1 651	1 030	621	451		
MEDIAN.	2 276	1 572	817	755	704		
	18	17	17	18	19		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED ¹							
LESS THAN \$100	13 447	7 571	3 302	4 269	5 876		
\$100 TO \$199.	627	386	164	222	241		
\$200 TO \$299.	412	200	87	113	212		
\$300 TO \$399.	444	180	75	105	264		
\$400 TO \$499.	411	216	108	108	195		
\$500 TO \$599.	253	159	63	96	94		
\$600 TO \$699.	189	117	42	75	73		
\$700 TO \$799.	143	90	30	60	54		
\$800 OR MORE.	53	37	13	24	16		
FUELS NOT USED, FREE, OR NOT REPORTED	79	62	22	40	17		
MEDIAN.	10 834	6 124	2 697	3 426	4 710		
	259	275	267	281	249		

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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	7 904	5 326	3 202	2 124	2 578		
LESS THAN \$100.	140	59	38	21	81		
\$100 TO \$199.	155	58	22	35	97		
\$200 TO \$299.	146	55	28	26	91		
\$300 TO \$399.	147	69	41	28	78		
\$400 TO \$499.	73	40	12	28	34		
\$500 TO \$599.	46	22	7	15	25		
\$600 TO \$699.	41	21	12	9	20		
\$700 TO \$799.	15	11	2	9	4		
\$800 OR MORE.	24	5	-	5	18		
INCLUDED IN RENT.	658	479	289	190	180		
FUELS NOT USED, FREE, OR NOT REPORTED	6 458	4 508	2 751	1 757	1 950		
MEDIAN.	267	296	273	320	250		
ALL OCCUPIED HOUSING UNITS.	25 094	14 195	6 810	7 385	10 898		
HEATING EQUIPMENT							
OWNER OCCUPIED.	16 885	8 826	3 609	5 217	8 060		
WARM-AIR FURNACE.	9 133	5 384	2 036	3 348	3 749		
HEAT PUMP	564	294	60	234	270		
STEAM OR HOT WATER.	505	405	200	204	100		
BUILT-IN ELECTRIC UNITS	1 345	582	207	375	762		
FLOOR, WALL, OR PIPELESS FURNACE.	1 430	745	463	281	685		
ROOM HEATERS WITH FLUE.	1 256	476	224	252	780		
ROOM HEATERS WITHOUT FLUE	1 674	632	319	313	1 042		
FIREPLACES, STOVES, OR PORTABLE HEATERS	919	262	82	180	657		
NONE.	60	46	17	29	14		
RENTER OCCUPIED	8 208	5 370	3 202	2 168	2 839		
WARM-AIR FURNACE.	3 341	2 577	1 414	1 162	764		
HEAT PUMP	160	134	30	104	26		
STEAM OR HOT WATER.	539	494	334	160	45		
BUILT-IN ELECTRIC UNITS	639	434	257	177	205		
FLOOR, WALL, OR PIPELESS FURNACE.	765	447	339	109	317		
ROOM HEATERS WITH FLUE.	849	384	256	128	465		
ROOM HEATERS WITHOUT FLUE	1 233	618	435	184	614		
FIREPLACES, STOVES, OR PORTABLE HEATERS	545	173	69	103	372		
NONE.	138	108	67	41	30		
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED.	16 885	8 826	3 609	5 217	8 060		
NO HEATING EQUIPMENT.	60	46	17	29	14		
WITH HEATING EQUIPMENT.	16 825	8 780	3 592	5 188	8 046		
NO THERMOSTAT CONTROL.	3 616	1 392	685	707	2 224		
WITH THERMOSTAT CONTROL	13 160	7 368	2 900	4 468	5 792		
NOT CLOCK OPERATED.	10 853	6 215	2 353	3 861	4 639		
CONSTANT TEMPERATURE SETTING MAINTAINED	3 198	1 804	681	1 124	1 393		
TEMPERATURE SETTING IS CHANGED.	7 579	4 364	1 653	2 712	3 215		
OCCASIONALLY.	2 297	1 285	524	761	1 012		
REGULARLY.	5 164	2 996	1 099	1 897	2 168		
DON'T KNOW.	102	69	22	47	33		
NOT REPORTED.	16	14	7	7	2		
NOT REPORTED.	77	46	20	26	31		
CLOCK OPERATED.	2 245	1 120	532	588	1 125		
NOT REPORTED.	62	33	15	18	28		
NOT REPORTED.	50	20	7	13	30		
RENTER OCCUPIED	8 208	5 370	3 202	2 168	2 839		
NO HEATING EQUIPMENT.	138	108	67	41	30		
WITH HEATING EQUIPMENT.	8 070	5 261	3 134	2 127	2 809		
NO THERMOSTAT CONTROL.	3 157	1 733	1 150	583	1 424		
WITH THERMOSTAT CONTROL	4 891	3 518	1 976	1 541	1 373		
NOT CLOCK OPERATED.	4 040	2 924	1 636	1 288	1 116		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 419	1 061	571	490	358		
TEMPERATURE SETTING IS CHANGED.	2 553	1 813	1 041	773	739		
OCCASIONALLY.	872	626	371	255	246		
REGULARLY.	1 598	1 129	633	496	469		
DON'T KNOW.	73	52	30	22	21		
NOT REPORTED.	10	6	6	-	3		
NOT REPORTED.	68	50	24	25	18		
CLOCK OPERATED.	808	565	330	235	243		
NOT REPORTED.	43	29	10	19	14		
NOT REPORTED.	23	10	8	2	12		

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

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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.	25 094	14 195	6 810	7 385	10 898
UNITS OCCUPIED LAST WINTER.	20 354	11 205	5 357	5 848	9 149
INSUFFICIENT HEAT					
CLOSURE OF ROOMS:					
OWNER OCCUPIED.	15 170	7 862	3 276	4 585	7 309
WITH HEATING EQUIPMENT.	15 123	7 824	3 259	4 564	7 299
NO ROOMS CLOSED	14 095	7 394	3 082	4 313	6 700
CLOSED CERTAIN ROOMS.	893	362	166	196	531
LIVING ROOM ONLY.	45	13	7	6	32
DINING ROOM ONLY.	14	9	2	7	5
1 OR MORE BEDROOMS ONLY	582	207	103	104	375
OTHER ROOMS OR COMBINATION OF ROOMS	243	127	52	76	116
NOT REPORTED.	10	6	3	2	5
NOT REPORTED.	135	68	11	56	68
NO HEATING EQUIPMENT.	47	38	17	21	9
RENTER OCCUPIED	5 183	3 343	2 081	1 262	1 840
WITH HEATING EQUIPMENT.	5 112	3 282	2 041	1 241	1 830
NO ROOMS CLOSED	4 510	2 990	1 856	1 134	1 519
CLOSED CERTAIN ROOMS.	526	242	153	89	283
LIVING ROOM ONLY.	40	29	23	6	11
DINING ROOM ONLY.	8	2	2	1	6
1 OR MORE BEDROOMS ONLY	361	154	93	61	207
OTHER ROOMS OR COMBINATION OF ROOMS	113	55	34	21	58
NOT REPORTED.	3	2	2	-	1
NOT REPORTED.	77	49	32	18	28
NO HEATING EQUIPMENT.	71	61	40	21	10
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED.	15 170	7 862	3 276	4 585	7 309
WITH SPECIFIED HEATING EQUIPMENT.	12 639	6 964	2 872	4 092	5 675
NO ADDITIONAL HEAT SOURCE USED.	11 427	6 320	2 584	3 737	5 107
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	1 110	595	280	315	515
NOT REPORTED.	103	49	8	41	54
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 531	897	404	493	1 634
RENTER OCCUPIED	5 183	3 343	2 081	1 262	1 840
WITH SPECIFIED HEATING EQUIPMENT.	3 821	2 715	1 683	1 032	1 106
NO ADDITIONAL HEAT SOURCE USED.	3 289	2 362	1 454	907	927
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	496	328	214	114	168
NOT REPORTED.	36	26	15	11	11
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 362	628	398	230	734
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED.	15 170	7 862	3 276	4 585	7 309
WITH SPECIFIED HEATING EQUIPMENT.	12 639	6 964	2 872	4 092	5 675
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	9 449	5 416	2 105	3 311	4 033
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 044	1 476	751	725	1 568
1 ROOM.	716	394	187	208	322
2 ROOMS	705	296	175	121	409
3 ROOMS OR MORE	1 623	785	389	396	838
NOT REPORTED.	146	73	16	56	73
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 531	897	404	493	1 634
RENTER OCCUPIED	5 183	3 343	2 081	1 262	1 840
WITH SPECIFIED HEATING EQUIPMENT.	3 821	2 715	1 683	1 032	1 106
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 628	2 061	1 242	819	567
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 135	613	418	195	523
1 ROOM.	266	168	109	59	98
2 ROOMS	334	175	126	50	158
3 ROOMS OR MORE	536	269	183	86	267
NOT REPORTED.	57	42	23	18	16
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 362	628	398	230	734

*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: 1978--CONTINUED
(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.	25 094	14 195	6 810	7 385	10 898
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED.	16 885	8 826	3 609	5 217	8 060
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	979	308	99	210	671
WITH SELECTED HEATING EQUIPMENT ¹	15 907	8 517	3 510	5 008	7 389
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	15 002	8 090	3 343	4 747	6 912
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	826	385	156	229	441
SOLAR HEATING EQUIPMENT.	2	2	-	2	-
STOVE, BURNING WOOD OR COAL.	239	69	12	57	171
FIREPLACE, BURNING WOOD OR COAL.	109	51	19	33	57
PORTABLE ELECTRIC HEATER.	244	144	69	76	100
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	77	30	10	20	46
OTHER.	148	82	43	39	66
NOT REPORTED.	14	10	5	5	5
NOT REPORTED.	79	43	12	31	36
RENTER OCCUPIED	8 208	5 370	3 202	2 168	2 839
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	683	281	136	145	402
WITH SELECTED HEATING EQUIPMENT ¹	7 525	5 089	3 065	2 023	2 437
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	7 202	4 903	2 951	1 952	2 299
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	268	144	86	58	124
SOLAR HEATING EQUIPMENT.	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	29	6	-	6	23
FIREPLACE, BURNING WOOD OR COAL.	4	1	-	1	3
PORTABLE ELECTRIC HEATER.	160	99	57	42	60
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	49	26	21	5	24
OTHER.	25	12	8	4	13
NOT REPORTED.	1	-	-	-	1
NOT REPORTED.	56	42	29	13	14
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	16 885	8 826	3 609	5 217	8 060
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	3 909	1 417	642	775	2 493
WITH SELECTED HEATING EQUIPMENT ²	12 976	7 409	2 967	4 442	5 567
LESS THAN 4 YEARS.	3 004	1 563	538	1 024	1 442
4 TO 9 YEARS.	4 397	2 321	777	1 544	2 076
10 TO 19 YEARS.	3 578	2 134	906	1 228	1 444
20 TO 39 YEARS.	1 213	812	390	422	400
40 YEARS OR MORE.	70	59	37	22	11
DON'T KNOW.	553	414	270	144	139
NOT REPORTED.	161	106	47	59	55
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED.	16 885	8 826	3 609	5 217	8 060
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	3 909	1 417	642	775	2 493
WITH SELECTED HEATING EQUIPMENT ²	12 976	7 409	2 967	4 442	5 567
NO MAINTENANCE OR MODIFICATION.	10 532	5 880	2 368	3 512	4 652
WITH MAINTENANCE OR MODIFICATION.	2 277	1 415	540	875	862
NOT REPORTED.	167	114	59	56	53
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	16 885	8 826	3 609	5 217	8 060
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	3 909	1 417	642	775	2 493
WITH SELECTED HEATING EQUIPMENT ²	12 976	7 409	2 967	4 442	5 567
NO MAINTENANCE CONTRACT.	11 441	6 358	2 597	3 741	5 102
WITH MAINTENANCE CONTRACT.	1 340	943	315	629	397
NOT REPORTED.	196	127	55	72	68

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED
(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.	16 885	8 826	3 609	5 217	8 060		
NO HOT PIPED WATER.	298	50	5	45	248		
WITH HOT PIPED WATER.	16 588	8 776	3 604	5 172	7 812		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	16 222	8 596	3 540	5 056	7 625		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	81	49	8	40	33		
NOT REPORTED.	266	120	52	69	146		
NOT REPORTED.	-	-	-	-	-		
RENTER OCCUPIED	8 208	5 370	3 202	2 168	2 839		
NO HOT PIPED WATER.	385	66	13	52	319		
WITH HOT PIPED WATER.	7 824	5 304	3 188	2 116	2 519		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 614	5 179	3 115	2 064	2 434		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	29	21	9	11	8		
NOT REPORTED.	170	99	60	39	71		
NOT REPORTED.	-	-	-	-	-		
AIR CONDITIONING							
OWNER OCCUPIED.	16 885	8 826	3 609	5 217	8 060		
WITH AIR CONDITIONING	12 912	7 305	2 927	4 377	5 608		
ROOM UNITS.	6 012	3 058	1 489	1 569	2 953		
1	3 469	1 515	682	833	1 954		
2	1 811	1 050	548	502	762		
3	533	356	179	176	177		
4	141	101	54	47	40		
5 OR MORE	57	37	25	12	20		
CENTRAL SYSTEM.	6 900	4 246	1 438	2 808	2 654		
WITH NO AIR CONDITIONING.	3 973	1 521	681	840	2 452		
RENTER OCCUPIED	8 208	5 370	3 202	2 168	2 839		
WITH AIR CONDITIONING	5 117	3 759	2 076	1 683	1 359		
ROOM UNITS.	2 432	1 518	917	601	914		
1	1 797	1 083	668	415	713		
2	521	352	198	155	169		
3	93	66	43	22	27		
4	15	12	5	7	3		
5 OR MORE	5	5	3	2	1		
CENTRAL SYSTEM.	2 685	2 240	1 158	1 082	445		
WITH NO AIR CONDITIONING.	3 091	1 611	1 126	485	1 480		
ALL OCCUPIED HOUSING UNITS.	25 094	14 195	6 810	7 385	10 898		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	20 211	10 175	4 316	5 860	10 036		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED.	16 309	8 350	3 411	4 939	7 959		
ALL WINDOWS COVERED	4 831	2 342	827	1 515	2 489		
SOME WINDOWS COVERED.	1 669	874	332	542	795		
NO WINDOWS COVERED.	9 754	5 104	2 237	2 866	4 650		
NOT REPORTED.	56	31	15	16	25		
RENTER OCCUPIED	3 902	1 825	904	921	2 077		
ALL WINDOWS COVERED	584	261	110	152	322		
SOME WINDOWS COVERED.	325	145	62	83	180		
NO WINDOWS COVERED.	2 884	1 359	696	663	1 525		
NOT REPORTED.	109	60	37	23	49		
STORM DOORS							
OWNER OCCUPIED.	16 309	8 350	3 411	4 939	7 959		
ALL DOORS COVERED	4 804	2 225	895	1 330	2 579		
SOME DOORS COVERED.	3 186	1 709	664	1 046	1 477		
NO DOORS COVERED.	8 230	4 358	1 831	2 526	3 872		
NOT REPORTED.	89	59	21	37	31		
RENTER OCCUPIED	3 902	1 825	904	921	2 077		
ALL DOORS COVERED	537	231	104	127	306		
SOME DOORS COVERED.	406	211	105	105	195		
NO DOORS COVERED.	2 829	1 309	650	659	1 520		
NOT REPORTED.	131	75	45	30	54		

¹LIMITED 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: 1978--CONTINUED
(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							
YES	16 309	8 350	3 411	4 939	7 959		
NO	12 692	6 720	2 595	4 125	5 972		
DON'T KNOW	2 956	1 276	646	630	1 679		
NOT REPORTED	598	320	152	168	278		
	64	34	18	16	30		
RENTER OCCUPIED							
YES	3 902	1 825	904	921	2 077		
NO	1 376	699	288	411	677		
DON'T KNOW	1 488	595	325	270	892		
NOT REPORTED	914	464	250	215	450		
	125	67	42	25	58		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS	16 309	8 350	3 411	4 939	7 959		
NO WINDOWS COVERED	9 754	5 104	2 237	2 866	4 650		
SOME OR ALL WINDOWS COVERED	6 500	3 215	1 159	2 056	3 284		
NONE ADDED OR INSTALLED	5 183	2 548	938	1 610	2 635		
SOME OR ALL ADDED OR INSTALLED	1 202	613	203	410	589		
NOT REPORTED	115	54	17	37	61		
	56	31	15	16	25		
STORM DOORS:							
NO DOORS COVERED	8 230	4 358	1 831	2 526	3 872		
SOME OR ALL DOORS COVERED	7 990	3 934	1 558	2 376	4 056		
NONE ADDED OR INSTALLED	6 656	3 267	1 284	1 983	3 389		
SOME OR ALL ADDED OR INSTALLED	1 008	522	219	304	485		
NOT REPORTED	326	145	56	89	181		
	89	59	21	37	31		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	2 956	1 276	646	630	1 679		
WITH ATTIC OR ROOF INSULATION	12 692	6 720	2 595	4 125	5 972		
NONE ADDED OR INSTALLED	11 054	5 845	2 261	3 584	5 208		
SOME OR ALL ADDED OR INSTALLED	1 227	633	225	408	594		
LESS THAN 3 INCHES ADDED	78	41	18	23	37		
3 TO 6 INCHES ADDED	488	258	81	177	230		
6 INCHES OR MORE ADDED	508	268	106	162	241		
DON'T KNOW	109	55	18	37	54		
NOT REPORTED	44	11	2	10	32		
	411	242	109	133	169		
NOT REPORTED	598	320	152	168	278		
DON'T KNOW	64	34	18	16	30		
WALL INSULATION:							
NONE ADDED OR INSTALLED	15 398	7 889	3 248	4 641	7 509		
SOME OR ALL ADDED OR INSTALLED	822	405	142	263	417		
NOT REPORTED	89	56	21	35	33		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	13 238	6 587	2 760	3 827	6 651		
SOME OR ALL ADDED OR INSTALLED	2 869	1 652	610	1 042	1 217		
DON'T KNOW	145	72	27	45	72		
NOT REPORTED	58	40	15	25	19		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	15 555	7 982	3 284	4 698	7 573		
SOME OR ALL ADDED OR INSTALLED	653	305	100	206	347		
NOT REPORTED	101	63	27	35	38		

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:							
NO WINDOWS COVERED.	3 902	1 825	904	921	2 077		
SOME OR ALL WINDOWS COVERED	2 884	1 359	696	663	1 525		
NONE ADDED OR INSTALLED	909	406	172	234	503		
SOME OR ALL ADDED OR INSTALLED	663	327	140	187	336		
NOT REPORTED.	221	67	27	40	153		
NOT REPORTED.	25	12	5	7	13		
NOT REPORTED.	109	60	37	23	49		
STORM DOORS:							
NO DOORS COVERED.	2 829	1 309	650	659	1 520		
SOME OR ALL DOORS COVERED	943	442	209	232	501		
NONE ADDED OR INSTALLED	799	371	175	196	429		
SOME OR ALL ADDED OR INSTALLED	94	46	23	23	48		
NOT REPORTED.	49	25	12	13	24		
NOT REPORTED.	131	75	45	30	56		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION.	1 488	595	325	270	892		
WITH ATTIC OR ROOF INSULATION	1 376	699	288	411	677		
NONE ADDED OR INSTALLED	1 195	612	255	357	583		
SOME OR ALL ADDED OR INSTALLED	101	47	17	30	54		
LESS THAN 3 INCHES ADDED.	9	6	2	5	2		
3 TO 6 INCHES ADDED	44	24	8	16	20		
6 INCHES OR MORE ADDED.	16	6	3	3	10		
DON'T KNOW.	25	9	2	8	16		
NOT REPORTED.	8	2	2	-	6		
NOT REPORTED.	79	40	16	24	39		
DON'T KNOW.	914	464	250	215	450		
NOT REPORTED.	125	67	42	25	58		
WALL INSULATION:							
NONE ADDED OR INSTALLED	3 660	1 696	835	861	1 964		
SOME OR ALL ADDED OR INSTALLED	46	18	8	10	27		
NOT REPORTED.	196	111	61	50	85		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	3 160	1 420	730	690	1 740		
SOME OR ALL ADDED OR INSTALLED	343	194	73	121	149		
DON'T KNOW.	286	147	63	85	138		
NOT REPORTED.	113	63	38	25	50		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	3 650	1 691	843	849	1 959		
SOME OR ALL ADDED OR INSTALLED	81	34	8	26	47		
NOT REPORTED.	170	100	53	46	71		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED.							
NO INSULATION ADDED OR INSTALLED.	16 309	8 350	3 411	4 939	7 959		
WITH INSULATION ADDED OR INSTALLED	11 004	5 460	2 330	3 129	5 544		
LESS THAN \$50	4 563	2 499	913	1 586	2 064		
\$50 TO \$99.	1 868	1 046	371	675	822		
\$100 TO \$199.	477	251	94	157	225		
\$200 TO \$399.	479	249	79	170	230		
\$400 OR MORE.	407	205	74	131	202		
DON'T KNOW.	698	388	152	235	310		
NOT REPORTED.	289	175	67	108	114		
MEDIAN.	345	184	76	109	161		
NOT REPORTED OR DON'T KNOW.	60	55	57	53	66		
NOT REPORTED OR DON'T KNOW.	743	392	168	224	351		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
LESS THAN \$50	409	185	50	135	224		
\$50 TO \$99.	174	66	11	54	109		
\$100 TO \$199.	30	13	2	11	17		
\$200 TO \$399.	57	24	7	17	33		
\$400 OR MORE.	37	22	9	13	15		
DON'T KNOW.	49	28	9	20	21		
NOT REPORTED.	19	13	3	10	6		
MEDIAN.	42	19	8	11	23		
MEDIAN.	50-	91	183	65	50-		

TABLE D-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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	377	203	86	117	174		
LESS THAN \$50	80	45	22	23	35		
\$50 TO \$99.	143	70	25	45	73		
\$100 TO \$199.	93	58	24	34	35		
\$200 TO \$399.	13	3	3	-	9		
\$400 OR MORE.	11	7	3	3	4		
DON'T KNOW.	7	3	2	2	4		
NOT REPORTED.	31	17	7	10	14		
MEDIAN.	81	83	83	82	79		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	614	308	109	199	306		
LESS THAN \$50	93	50	15	35	43		
\$50 TO \$99.	62	29	15	14	33		
\$100 TO \$199.	89	48	22	26	41		
\$200 TO \$399.	126	66	20	46	60		
\$400 OR MORE.	124	57	21	36	67		
DON'T KNOW.	67	38	11	27	29		
NOT REPORTED.	53	20	5	15	33		
MEDIAN.	205	196	175	216	216		
ALL OCCUPIED HOUSING UNITS.	25 094	14 195	6 810	7 385	10 898		
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK ¹							
OWNER OCCUPIED.	11 569	6 412	2 514	3 898	5 157		
DRIVES SELF	8 938	5 143	2 051	3 092	3 795		
CARPOOL	1 935	898	304	594	1 036		
MASS TRANSPORTATION	157	143	81	62	14		
BICYCLE OR MOTORCYCLE	43	32	10	22	11		
TAXICAB	10	3	2	2	7		
WALKS ONLY.	178	75	26	49	103		
OTHER MEANS	38	14	2	12	24		
WORKS AT HOME	237	85	30	55	151		
NOT REPORTED.	33	19	9	10	14		
RENTER OCCUPIED	5 692	3 872	2 222	1 650	1 820		
DRIVES SELF	3 751	2 594	1 419	1 175	1 158		
CARPOOL	1 132	681	361	320	451		
MASS TRANSPORTATION	340	333	276	57	7		
BICYCLE OR MOTORCYCLE	41	31	18	12	10		
TAXICAB	24	11	9	2	14		
WALKS ONLY.	301	174	111	63	128		
OTHER MEANS	17	11	6	4	6		
WORKS AT HOME	76	32	16	15	45		
NOT REPORTED.	9	7	5	2	2		
DISTANCE FROM HOME TO WORK ¹							
OWNER OCCUPIED.	11 569	6 412	2 514	3 898	5 157		
LESS THAN 1 MILE.	738	253	92	161	485		
1 TO 4 MILES.	2 367	1 217	628	589	1 151		
5 TO 9 MILES.	2 255	1 453	688	765	802		
10 TO 19 MILES.	2 527	1 689	551	1 138	838		
20 TO 29 MILES.	951	533	128	405	418		
30 TO 49 MILES.	616	236	27	209	380		
50 MILES OR MORE.	211	55	25	30	156		
WORKS AT HOME	237	85	30	55	151		
NO FIXED PLACE OF WORK.	1 499	792	297	495	707		
NOT REPORTED.	168	99	46	52	69		
MEDIAN.	8.8	9.3	7.5	11.2	8.0		
RENTER OCCUPIED	5 692	3 872	2 222	1 650	1 820		
LESS THAN 1 MILE.	598	303	188	114	295		
1 TO 4 MILES.	1 494	960	672	268	534		
5 TO 9 MILES.	1 207	945	582	364	262		
10 TO 19 MILES.	1 088	817	387	430	272		
20 TO 29 MILES.	309	219	80	139	90		
30 TO 49 MILES.	176	98	26	73	78		
50 MILES OR MORE.	53	21	11	9	32		
WORKS AT HOME	76	32	16	15	45		
NO FIXED PLACE OF WORK.	594	402	219	184	192		
NOT REPORTED.	96	75	41	34	21		
MEDIAN.	6.5	7.2	6.0	9.2	4.6		

¹LIMITED 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: 1978--CONTINUED
(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							
LESS THAN 15 MINUTES.	11 569	6 412	2 514	3 898	5 157		
15 TO 29 MINUTES.	3 311	1 537	697	840	1 775		
30 TO 44 MINUTES.	3 702	2 398	1 007	1 391	1 304		
45 TO 59 MINUTES.	1 629	1 010	324	686	619		
1 HOUR TO 1 HOUR AND 29 MINUTES	576	315	74	241	261		
1 HOUR AND 30 MINUTES OR MORE	393	192	48	145	201		
WORKS AT HOME	114	27	7	19	87		
NO FIXED PLACE OF WORK	237	85	30	55	151		
NOT REPORTED	1 499	792	297	495	707		
MEDIAN.	108	55	30	26	52		
	21.2	22.5	20.6	23.8	19.0		
RENTER OCCUPIED							
LESS THAN 15 MINUTES.	5 692	3 872	2 222	1 650	1 820		
15 TO 29 MINUTES.	1 978	1 156	704	452	822		
30 TO 44 MINUTES.	1 846	1 378	839	539	468		
45 TO 59 MINUTES.	698	551	272	279	147		
1 HOUR TO 1 HOUR AND 29 MINUTES	245	177	79	98	68		
1 HOUR AND 30 MINUTES OR MORE	149	111	62	50	37		
WORKS AT HOME	56	31	18	13	26		
NO FIXED PLACE OF WORK	76	32	16	15	45		
NOT REPORTED	594	402	219	184	192		
MEDIAN.	50	33	14	20	16		
	19.1	20.9	20.0	22.3	15.0-		

¹LIMITED 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: 1978

SOUTH REGION				\$3,000 LESS THAN \$3,000	\$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	
ALL OCCUPIED HOUSING UNITS		25 094	2 460	4 320	3 218	4 832	3 454	2 698	2 448	1 041	390	230	12600
HOUSE HEATING FUEL													
OWNER OCCUPIED	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
UTILITY GAS	7 997	529	1 118	796	1 435	1 179	1 071	1 064	507	203	96	15500	
BOTTLED, TANK, OR LP GAS	1 785	220	416	251	366	217	163	103	30	7	12	10100	
FUEL OIL	2 113	115	329	238	414	335	251	247	102	49	32	14500	
KEROSENE, ETC	179	24	50	36	33	13	10	10	3	-	-	8300	
ELECTRICITY	4 275	150	372	430	752	744	667	693	285	106	75	17900	
COAL OR COKE	90	16	31	13	16	6	6	2	-	-	-	6700	
WOOD	381	68	91	49	83	44	24	17	3	1	1	8900	
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER FUEL	5	-	2	1	-	2	-	-	-	-	-	---	
NONE	60	9	9	13	9	12	3	2	3	-	-	10000	
RENTER OCCUPIED	8 208	1 329	1 902	1 391	1 724	902	503	311	108	24	14	8900	
UTILITY GAS	3 959	742	961	678	802	396	191	123	44	12	10	8200	
BOTTLED, TANK, OR LP GAS	512	88	137	92	107	42	28	11	6	1	-	8000	
FUEL OIL	867	117	214	147	161	112	62	42	11	-	-	9100	
KEROSENE, ETC	104	16	31	22	21	5	4	5	-	1	-	7700	
ELECTRICITY	2 285	205	412	385	579	317	206	123	46	10	4	11200	
COAL OR COKE	83	30	25	9	10	6	3	-	-	-	-	4900	
WOOD	253	80	78	40	29	15	7	3	1	-	-	5400	
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER FUEL	5	2	2	-	-	-	-	1	-	-	-	---	
NONE	138	49	42	18	15	11	2	2	-	-	-	4900	
WATER HEATING FUEL													
OWNER OCCUPIED	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
NO HOT PIPED WATER	298	92	111	33	38	12	4	5	2	-	-	5000	
WITH HOT PIPED WATER	16 588	1 039	2 308	1 794	3 070	2 540	2 191	2 133	931	366	216	15200	
FUEL USED:													
UTILITY GAS	6 943	430	895	675	1 217	1 050	954	968	462	194	98	16200	
BOTTLED, TANK, OR LP GAS	1 076	114	282	146	237	124	112	57	18	8	7	10500	
FUEL OIL	265	6	32	20	43	36	32	47	31	12	7	19600	
KEROSENE, ETC	10	3	-	2	2	3	2	1	-	-	-	---	
ELECTRICITY	8 259	474	1 120	951	1 564	1 327	1 088	1 060	420	152	103	15100	
COAL OR COKE	5	2	1	-	3	-	-	-	-	-	-	-	
WOOD	8	3	3	-	2	-	1	-	-	-	-	-	
SOLAR HEAT	9	3	3	-	2	-	1	-	-	-	-	-	
OTHER FUEL	2	1	-	1	-	1	-	-	-	-	-	-	
NONE	9	4	3	2	-	-	1	-	-	-	-	-	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	
RENTER OCCUPIED	8 208	1 329	1 902	1 391	1 724	902	503	311	108	24	14	8900	
NO HOT PIPED WATER	385	170	119	52	24	13	4	2	1	-	-	3800	
WITH HOT PIPED WATER	7 824	1 160	1 783	1 339	1 700	889	500	308	107	24	14	9200	
FUEL USED:													
UTILITY GAS	3 740	682	884	612	784	385	195	138	43	7	11	8500	
BOTTLED, TANK, OR LP GAS	323	42	92	65	59	32	24	5	3	1	-	8300	
FUEL OIL	256	17	64	39	52	36	24	12	9	3	-	10800	
KEROSENE, ETC	5	-	2	1	-	1	-	-	-	-	-	---	
ELECTRICITY	3 465	411	731	617	798	432	254	153	51	13	3	9900	
COAL OR COKE	6	1	3	2	-	-	-	-	-	-	-	-	
WOOD	7	2	3	-	1	-	-	-	-	-	-	-	
SOLAR HEAT	-	-	-	-	2	-	-	-	-	-	-	-	
OTHER FUEL	10	3	-	2	3	1	2	-	-	-	-	-	
NONE	10	2	5	1	2	-	-	-	-	-	-	-	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	
COOKING FUEL													
OWNER OCCUPIED	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
UTILITY GAS	4 717	387	822	572	950	697	501	478	195	80	35	13000	
BOTTLED, TANK, OR LP GAS	1 777	228	429	254	395	208	141	83	26	7	5	9700	
FUEL OIL	10	1	5	1	2	1	1	1	-	-	-	---	
KEROSENE, ETC	4	1	-	2	-	1	-	1	-	-	-	---	
ELECTRICITY	10 298	483	1 137	988	1 754	1 643	1 551	1 575	710	280	176	17400	
COAL OR COKE	62	29	20	5	4	1	1	1	1	-	-	3500	
WOOD	62	29	20	5	4	1	1	1	1	-	-	---	
OTHER FUEL	1	-	-	1	-	-	-	-	-	-	-	---	
NONE	9	2	2	3	1	-	-	-	-	-	-	---	
RENTER OCCUPIED	8 208	1 329	1 902	1 391	1 724	902	503	311	108	24	14	8900	
UTILITY GAS	3 525	669	907	590	717	331	172	95	27	9	8	7900	
BOTTLED, TANK, OR LP GAS	645	139	196	126	95	45	28	9	5	2	-	6700	
FUEL OIL	5	3	-	-	-	-	-	2	-	-	-	---	
KEROSENE, ETC	5	2	1	-	-	-	-	2	-	-	-	---	
ELECTRICITY	3 936	473	774	663	906	522	299	202	76	14	6	10300	
COAL OR COKE	1	1	-	-	-	-	-	-	-	-	-	---	
WOOD	48	23	13	4	4	2	-	3	-	-	-	3300	
OTHER FUEL	3	1	-	-	1	-	2	-	-	-	-	---	
NONE	41	18	10	7	1	3	1	-	-	-	-	3800	
MONTHLY COST PAID FOR ELECTRICITY													
SPECIFIED OWNER OCCUPIED ¹	13 447	827	1 714	1 376	2 373	2 100	1 888	1 857	816	322	174	16000	
LESS THAN \$10	127	41	42	12	17	8	1	1	3	3	5100		
\$10 TO \$19	1 181	234	403	182	177	102	45	23	5	6	6500		
\$20 TO \$29	2 093	186	437	307	403	294	235	150	54	18	7	11400	
\$30 TO \$39	2 271	116	318	280	497	367	311	259	87	25	12	14200	
\$40 TO \$49	1 818	63	191	179	343	347	272	288	87	34	13	16900	
\$50 TO \$59	1 814	58	145	179	299	339	282	324	122	46	19	18300	
\$60 TO \$79	2 210	72	110	163	385	368	403	377	223	72	37	20100	
\$80 TO \$99	936	24	29	47	123	152	184	216	108	40	13	22500	
\$100 TO \$119	811	24	29	24	107	106	124	194	100	61	42	29700	
\$120 TO \$139	175	5	7	2	22	15	30	24	26	19	23	27600	
NO ELECTRICITY USED OR NOT REPORTED	12	5	3	-	-	1	-	-	-	1	-	---	
MEDIAN	45	27	28	36	42	47	53	56	64	68	75	---	

¹LIMITED 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: 1978--CONTINUED

(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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
MONTHLY COST PAID FOR ELECTRICITY--CONTINUED												
SPECIFIED RENTER OCCUPIED ¹	7 904	1 273	1 820	1 341	1 675	872	485	298	104	23	14	8900
LESS THAN \$10	375	152	103	51	54	9	5	-	-	-	-	4800
\$10 TO \$19.	1 398	337	411	220	246	111	47	22	5	-	-	6500
\$20 TO \$29.	1 360	194	375	264	285	119	68	31	12	3	7	8300
\$30 TO \$39.	1 088	143	242	208	252	131	54	36	17	4	-	9300
\$40 TO \$49.	766	63	160	126	189	113	62	36	12	4	2	10900
\$50 TO \$59.	492	29	65	63	134	91	62	21	5	-	1	12600
\$60 TO \$79.	474	39	66	73	104	66	50	52	19	5	-	12800
\$80 TO \$99.	131	9	11	24	36	23	18	7	3	1	-	13100
\$100 TO \$149.	100	6	16	8	15	16	18	17	4	-	1	16700
\$150 OR MORE.	12	-	1	-	2	3	2	-	2	2	2	...
INCLUDED IN RENT.	1 687	295	362	281	355	191	98	75	23	6	2	9000
NO ELECTRICITY USED OR NOT REPORTED	21	6	7	2	3	-	2	1	2	-	-	...
MEDIAN.	29	19	25	29	33	37	43	46	44	...	...	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED ²	13 447	827	1 714	1 376	2 373	2 100	1 888	1 857	816	322	174	16000
LESS THAN \$10	809	74	161	83	165	106	96	76	31	8	9	12600
\$10 TO \$19.	954	85	167	101	162	148	121	106	43	17	6	13900
\$20 TO \$29.	1 129	106	208	163	212	145	112	104	52	14	14	12100
\$25 TO \$29.	1 370	108	198	149	263	217	174	155	71	25	10	14400
\$30 TO \$39.	1 038	59	154	114	189	169	142	130	53	17	12	15100
\$40 TO \$49.	985	63	75	76	250	254	250	247	113	32	20	17400
\$50 TO \$69.	836	50	84	73	136	89	130	132	76	45	21	19200
\$70 TO \$99.	206	14	25	12	38	31	28	22	25	10	2	17400
\$100 OR MORE.	68	6	15	3	6	13	6	9	2	5	4	16800
NO GAS USED OR NOT REPORTED	4 463	187	929	456	780	771	676	725	268	109	62	17500
MEDIAN.	26	22	23	24	26	28	29	32	37	32	32	...
SPECIFIED RENTER OCCUPIED ¹	7 904	1 273	1 820	1 341	1 675	872	485	298	104	23	14	8900
LESS THAN \$10	733	160	195	121	151	66	20	14	4	1	2	7300
\$10 TO \$19.	638	122	160	118	147	55	23	9	2	-	2	7900
\$15 TO \$19.	553	115	139	98	123	33	31	12	2	-	-	7700
\$20 TO \$24.	392	49	94	81	81	34	34	10	7	-	2	9000
\$25 TO \$29.	323	45	89	92	66	45	18	11	5	2	1	9000
\$30 TO \$39.	424	84	101	74	75	44	28	9	4	4	1	8100
\$40 TO \$49.	229	32	54	40	43	29	12	12	5	2	-	9200
\$50 TO \$69.	178	21	41	22	31	26	13	14	10	-	-	10800
\$70 TO \$99.	37	3	6	4	9	7	3	2	3	-	-	13100
\$100 OR MORE.	21	10	4	2	2	-	1	-	2	-	-	...
INCLUDED IN RENT.	2 101	364	510	358	408	249	94	86	21	6	6	8500
NO GAS USED OR NOT REPORTED	2 276	268	427	383	538	285	206	119	41	7	2	10600
MEDIAN.	18	16	17	18	17	22	22	26	34	...	...	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED ¹	13 447	827	1 714	1 376	2 373	2 100	1 888	1 857	816	322	174	16000
LESS THAN \$100.	627	37	65	44	83	67	87	136	65	34	10	21100
\$100 TO \$199.	412	36	56	55	73	48	52	47	27	9	9	14000
\$200 TO \$299.	444	40	75	51	88	67	52	53	12	6	-	13200
\$300 TO \$399.	411	32	71	32	76	70	53	42	23	7	5	14600
\$400 TO \$499.	253	14	41	24	53	39	28	32	15	6	2	14500
\$500 TO \$599.	189	13	27	13	37	21	29	28	16	5	2	16800
\$600 TO \$699.	143	9	18	18	19	20	16	20	8	8	7	16900
\$700 TO \$799.	53	4	8	2	2	10	6	13	4	2	2	20200
\$800 OR MORE.	79	2	4	10	12	11	11	9	11	5	5	20600
FUELS NOT USED, FREE, OR NOT REPORTED	10 834	641	1 348	1 128	1 930	1 748	1 553	1 475	635	242	134	16100
MEDIAN.	259	251	281	249	274	290	252	214	194	167	342	...
SPECIFIED RENTER OCCUPIED ¹	7 904	1 273	1 820	1 341	1 675	872	485	298	104	23	14	8900
LESS THAN \$100.	140	34	53	15	14	10	7	3	3	-	-	5700
\$100 TO \$199.	155	37	48	23	30	11	1	2	2	-	2	6400
\$200 TO \$299.	146	33	37	30	28	10	4	4	-	-	-	7300
\$300 TO \$399.	147	28	36	24	23	18	12	6	1	-	-	8300
\$400 TO \$499.	73	14	13	10	17	11	4	4	4	-	-	9800
\$500 TO \$599.	46	2	11	5	9	4	10	3	1	-	-	12700
\$600 TO \$699.	41	4	9	5	13	7	1	3	-	-	-	11300
\$700 TO \$799.	15	3	-	1	4	5	-	2	-	-	-	...
\$800 OR MORE.	24	3	4	5	2	4	4	1	1	-	-	...
INCLUDED IN RENT.	656	106	178	113	130	55	46	19	6	5	-	5200
FUELS NOT USED, FREE, OR NOT REPORTED	6 458	1 009	1 431	1 109	1 404	738	397	250	89	16	12	9100
MEDIAN.	267	223	212	267	293	352	380	...	...	-	...	...
ALL OCCUPIED HOUSING UNITS.												
HEATING EQUIPMENT	25 094	2 460	4 320	3 218	4 832	3 454	2 698	2 448	1 041	390	230	12600
OWNER OCCUPIED.	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900
WARM-AIR FURNACE.	9 133	342	837	811	1 573	1 476	1 429	1 555	676	280	153	18400
HEAT PUMP	564	14	28	32	57	90	110	123	71	21	19	22800
STEAM OR HOT WATER.	505	13	60	45	81	75	70	62	59	19	21	18500
BUILT-IN ELECTRIC UNITS.	1 345	52	147	172	297	257	181	153	55	20	12	15100
FLOOR, WALL, OR PIPELESS FURNACE.	1 430	114	260	203	345	227	144	97	20	15	5	12000
ROOM HEATERS WITH FLUE.	1 256	185	373	168	236	135	87	46	16	7	2	8200
ROOM HEATERS WITHOUT FLUE.	1 674	273	472	256	316	168	106	49	28	4	4	8100
FIREPLACES, STOVES, OR PORTABLE HEATERS	919	131	233	127	195	110	68	51	6	2	1	9300
NONE.	60	9	9	13	9	12	3	2	3	-	-	10000

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

²LIMITED 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: 1978--CONTINUED

(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 (DOL- LARS)	
ALL OCCUPIED HOUSING UNITS--CONTINUED													
HEATING EQUIPMENT--CONTINUED													
RENTER OCCUPIED	8 208	1 329	1 902	1 391	1 724	902	503	311	108	24	14	8900	
WARM-AIR FURNACE	3 341	302	555	551	843	495	294	207	71	14	9	11600	
HEAT PUMP	160	13	43	27	25	22	16	10	3	1	1	9800	
STEAM OR HOT WATER	539	73	148	96	90	56	41	26	9	2	-	8500	
BUILT-IN ELECTRIC UNITS	639	87	152	123	132	77	39	18	9	2	-	9000	
FLOOR, WALL, OR PIPELESS FURNACE	765	136	180	158	168	73	37	11	1	1	-	8300	
ROOM HEATERS WITH FLUE	849	198	247	149	149	58	21	15	10	2	-	6700	
ROOM HEATERS WITHOUT FLUE	1 233	306	379	195	218	79	32	17	3	2	2	6300	
FIREPLACES, STOVES, OR PORTABLE HEATERS	545	166	157	74	84	33	21	5	2	-	2	5700	
NONE	138	49	42	18	15	11	2	2	-	-	-	4900	
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
OWNER OCCUPIED	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
NO HEATING EQUIPMENT	60	9	9	13	9	12	3	2	3	-	-	10000	
WITH HEATING EQUIPMENT	16 825	1 123	2 410	1 815	3 099	2 540	2 192	2 136	930	366	216	14900	
NO THERMOSTAT CONTROL	3 616	513	959	537	718	397	278	147	47	10	10	8900	
WITH THERMOSTAT CONTROL	13 160	599	1 441	1 270	2 369	2 139	1 912	1 987	880	356	206	17100	
NOT CLOCK OPERATED	10 853	460	1 137	998	1 936	1 797	1 591	1 698	751	312	174	17500	
CONSTANT TEMPERATURE SETTING MAINTAINED	3 198	133	357	312	648	541	486	451	192	48	48	16600	
TEMPERATURE SETTING IS CHANGED	7 579	323	794	672	1 275	1 243	1 100	1 236	553	259	126	17900	
OCCASIONALLY	2 297	105	250	232	401	388	323	351	156	60	32	17100	
REGULARLY	5 164	209	527	428	860	835	749	878	390	196	91	18300	
DON'T KNOW	102	8	15	12	12	17	27	5	5	2	1	16600	
NOT REPORTED	16	2	2	1	2	2	1	2	5	5	2	15800	
NOT REPORTED	77	5	6	13	13	6	6	6	10	6	-	8800	
CLOCK OPERATED	2 245	134	297	265	421	332	316	278	125	46	32	15100	
NOT REPORTED	62	4	7	7	13	11	4	11	5	-	-	14800	
NOT REPORTED	50	11	10	8	11	4	2	2	2	-	-	8800	
RENTER OCCUPIED	8 208	1 329	1 902	1 391	1 724	902	503	311	108	24	14	8900	
NO HEATING EQUIPMENT	138	49	42	18	15	11	2	2	-	-	-	4900	
WITH HEATING EQUIPMENT	8 070	1 280	1 860	1 373	1 709	892	501	309	108	24	14	9000	
NO THERMOSTAT CONTROL	3 157	730	959	535	552	216	114	44	17	8	3	6600	
WITH THERMOSTAT CONTROL	4 891	546	916	834	1 153	675	385	263	92	16	11	10600	
NOT CLOCK OPERATED	4 040	419	733	681	990	578	323	219	79	10	7	10900	
CONSTANT TEMPERATURE SETTING MAINTAINED	1 419	167	253	235	320	218	112	73	33	5	3	10800	
TEMPERATURE SETTING IS CHANGED	2 553	246	462	436	647	384	208	145	46	5	4	11000	
OCCASIONALLY	672	84	177	153	233	107	63	44	9	1	1	10500	
REGULARLY	1 598	150	261	268	399	241	139	100	34	3	3	11500	
DON'T KNOW	73	10	22	14	12	4	5	1	3	2	-	8000	
NOT REPORTED	10	2	2	1	3	2	-	-	-	-	-	10100	
NOT REPORTED	68	6	18	10	23	7	3	2	-	-	-	9200	
CLOCK OPERATED	808	120	178	144	150	91	61	44	12	4	3	10400	
NOT REPORTED	43	6	6	9	12	6	2	-	-	-	1	10400	
NOT REPORTED	23	5	5	4	5	1	2	2	-	-	-	***	
ALL OCCUPIED HOUSING UNITS	25 094	2 460	4 320	3 218	4 832	3 454	2 698	2 448	1 041	390	230	12600	
UNITS OCCUPIED LAST WINTER	20 354	2 019	3 550	2 451	3 793	2 810	2 272	2 057	882	331	189	12800	
INSUFFICIENT HEAT													
CLOSURE OF ROOMS:													
OWNER OCCUPIED	15 170	1 090	2 289	1 661	2 772	2 235	1 957	1 861	811	316	179	14600	
WITH HEATING EQUIPMENT	15 123	1 081	2 280	1 651	2 766	2 228	1 954	1 860	807	316	179	14600	
NO ROOMS CLOSED	14 095	903	2 007	1 529	2 596	2 123	1 866	1 810	782	310	168	15000	
CLOSED CERTAIN ROOMS	893	158	250	101	148	97	71	36	19	5	8	8100	
LIVING ROOM ONLY	45	9	10	6	11	6	1	1	1	1	1	8800	
DINING ROOM ONLY	14	2	4	-	1	1	1	3	-	3	-	1000	
1 OR MORE BEDROOMS ONLY	582	110	179	66	92	60	42	18	10	3	2	7100	
OTHER ROOMS OR COMBINATION OF ROOMS	243	34	54	28	43	30	22	18	5	2	6	10600	
NOT REPORTED	10	3	3	-	1	1	3	-	-	-	-	1000	
NOT REPORTED	135	20	23	21	23	8	17	14	6	1	3	10700	
NO HEATING EQUIPMENT	47	9	9	9	5	7	3	2	3	-	-	9000	
RENTER OCCUPIED	5 183	929	1 261	790	1 021	575	315	195	72	15	10	8500	
WITH HEATING EQUIPMENT	5 112	906	1 241	779	1 012	566	315	195	72	15	10	8600	
NO ROOMS CLOSED	4 510	753	1 060	694	917	523	287	186	68	13	9	8900	
CLOSED CERTAIN ROOMS	526	142	166	78	77	33	23	6	2	-	-	5900	
LIVING ROOM ONLY	40	12	7	6	11	2	-	1	-	-	-	7400	
DINING ROOM ONLY	8	2	-	3	2	-	-	1	-	-	-	1000	
1 OR MORE BEDROOMS ONLY	361	91	130	50	44	23	17	4	2	-	-	5800	
OTHER ROOMS OR COMBINATION OF ROOMS	113	37	26	19	19	6	5	1	-	-	-	6000	
NOT REPORTED	3	-	2	-	-	1	1	-	-	-	-	1000	
NOT REPORTED	77	13	15	7	18	10	5	3	2	2	2	10800	
NO HEATING EQUIPMENT	71	22	20	12	9	-	-	-	-	-	-	5800	
ADDITIONAL HEAT SOURCE:													
OWNER OCCUPIED	15 170	1 090	2 289	1 661	2 772	2 235	1 957	1 861	811	316	179	14600	
WITH SPECIFIED HEATING EQUIPMENT	12 639	684	1 601	1 290	2 277	1 969	1 788	1 767	777	312	174	16200	
NO ADDITIONAL HEAT SOURCE USED	11 427	588	1 424	1 134	2 047	1 789	1 640	1 640	724	292	148	16500	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	1 110	87	155	137	213	174	135	117	50	19	23	14100	
NOT REPORTED	103	9	21	19	17	6	13	10	3	1	3	10600	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 531	406	688	371	495	266	169	94	33	4	5	8400	
RENTER OCCUPIED	5 183	929	1 261	790	1 021	575	315	195	72	15	10	8500	
WITH SPECIFIED HEATING EQUIPMENT	3 821	541	639	619	799	479	278	178	67	15	6	9600	
NO ADDITIONAL HEAT SOURCE USED	3 289	457	698	531	699	428	241	156	62	12	6	9800	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	496	80	134	84	91	47	34	18	5	2	1	8200	
NOT REPORTED	36	4	8	4	9	4	3	3	-	2	2	11600	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 362	388	422	171	222	96	37	18	5	-	4	5800	

*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: 1978--CONTINUED

(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 \$14,999	\$10,000 TO \$19,999	\$15,000 TO \$24,999	\$20,000 TO \$29,999	\$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													
ROOMS LACKING SPECIFIED HEAT SOURCE:													
OWNER OCCUPIED:	15 170	1 090	2 289	1 661	2 772	2 235	1 957	1 861	811	316	179	14600	
WITH SPECIFIED HEATING EQUIPMENT:	12 639	684	1 601	1 290	2 277	1 969	1 788	1 767	777	312	174	16200	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS:	9 449	399	979	869	1 600	1 543	1 442	1 511	676	277	155	17800	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS:	3 044	272	595	398	647	417	327	243	94	34	16	12000	
1 ROOM:	716	54	110	68	146	98	92	80	45	14	9	14300	
2 ROOMS:	705	81	146	107	151	88	63	51	11	6	2	10600	
3 ROOMS OR MORE:	1 623	138	340	223	350	231	172	112	38	15	6	11600	
NOT REPORTED:	146	12	27	23	30	10	19	14	7	1	3	11900	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE:	2 531	406	688	371	495	266	169	94	33	4	5	8400	
RENTER OCCUPIED:	5 183	929	1 261	790	1 021	575	315	195	72	15	10	8500	
WITH SPECIFIED HEATING EQUIPMENT:	3 821	541	839	619	799	479	278	178	67	15	6	9600	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS:	2 628	298	522	413	576	367	224	152	56	13	6	10700	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS:	1 135	236	303	200	209	105	49	21	11	1	-	7400	
1 ROOM:	266	44	89	46	45	21	9	3	-	-	-	7000	
2 ROOMS:	334	76	93	49	62	34	14	3	2	-	-	6900	
3 ROOMS OR MORE:	536	117	121	105	103	50	25	9	6	1	-	7900	
NOT REPORTED:	57	6	14	6	13	7	5	4	-	2	-	10900	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE:	1 362	388	422	171	222	96	37	18	5	-	4	5800	
ALL OCCUPIED HOUSING UNITS:	25 094	2 460	4 320	3 218	4 832	3 454	2 698	2 448	1 041	390	230	12600	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
OWNER OCCUPIED:													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE:	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
WITH SELECTED HEATING EQUIPMENT:	979	139	242	139	204	122	68	53	9	2	1	9300	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED:	15 907	992	2 177	1 688	2 904	2 430	2 127	2 085	924	364	215	15400	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED:	15 002	943	2 084	1 593	2 724	2 286	2 007	1 951	859	354	201	15300	
SOLAR HEATING EQUIPMENT:	826	37	80	83	167	138	116	128	56	8	13	16700	
STOVE, BURNING WOOD OR COAL:	239	11	21	20	54	50	31	39	8	3	1	16300	
FIREPLACE, BURNING WOOD OR COAL:	109	2	4	6	12	25	15	32	11	-	1	21700	
PORTABLE ELECTRIC HEATER:	244	16	26	30	50	31	36	34	12	2	7	15000	
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE:	77	6	11	8	17	14	10	5	5	1	-	14000	
OTHER:	148	2	15	18	34	19	18	18	19	2	4	16600	
NOT REPORTED:	14	-	3	1	1	2	5	1	2	-	-	---	
NOT REPORTED:	79	12	13	12	13	6	4	6	9	2	2	11000	
RENTER OCCUPIED:	8 208	1 329	1 902	1 391	1 724	902	503	311	108	24	14	8900	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE:	663	215	199	92	99	44	23	6	2	-	2	5500	
WITH SELECTED HEATING EQUIPMENT:	7 525	1 114	1 703	1 299	1 625	858	480	304	106	24	12	9200	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED:	7 202	1 070	1 625	1 229	1 563	824	458	297	99	23	12	9200	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED:	288	34	67	60	51	31	18	3	3	1	-	8700	
SOLAR HEATING EQUIPMENT:	-	-	-	-	-	-	-	-	-	-	-	-	
STOVE, BURNING WOOD OR COAL:	29	6	8	6	4	3	-	-	1	2	-	---	
FIREPLACE, BURNING WOOD OR COAL:	4	-	2	1	-	-	-	-	1	-	-	---	
PORTABLE ELECTRIC HEATER:	160	12	38	35	35	20	17	1	2	1	-	9600	
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE:	69	14	15	11	5	3	1	-	-	-	-	5900	
OTHER:	25	2	5	6	8	3	1	-	-	-	-	---	
NOT REPORTED:	1	-	-	-	-	1	-	-	-	-	-	---	
NOT REPORTED:	56	10	11	10	10	3	3	4	4	-	-	9100	
AGE OF HEATING EQUIPMENT													
OWNER OCCUPIED:													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE:	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
WITH SELECTED HEATING EQUIPMENT:	3 909	597	1 087	563	756	425	261	148	53	11	7	8400	
LESS THAN 4 YEARS:	12 976	534	1 332	1 264	2 352	2 127	1 934	1 989	880	355	209	17400	
4 TO 9 YEARS:	3 004	88	222	263	533	530	475	504	236	91	67	16800	
10 TO 19 YEARS:	4 397	176	435	463	792	776	647	678	262	112	55	17100	
20 TO 39 YEARS:	3 578	140	376	321	636	525	579	544	289	110	60	18000	
40 YEARS OR MORE:	1 213	67	187	124	226	183	155	170	60	21	19	15100	
DON'T KNOW:	553	49	71	62	115	94	60	58	23	14	7	14100	
NOT REPORTED:	161	11	32	25	43	13	11	20	5	2	-	11500	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
OWNER OCCUPIED:													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE:	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
WITH SELECTED HEATING EQUIPMENT:	3 909	597	1 087	563	756	425	261	148	53	11	7	8400	
NO MAINTENANCE OR MODIFICATION:	12 976	534	1 332	1 264	2 352	2 127	1 934	1 989	880	355	209	17400	
WITH MAINTENANCE OR MODIFICATION:	10 532	432	1 110	1 061	1 932	1 717	1 552	1 619	696	270	142	17100	
NOT REPORTED:	2 277	88	187	177	383	396	370	352	180	81	63	18800	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
OWNER OCCUPIED:													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE:	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
WITH SELECTED HEATING EQUIPMENT:	3 909	597	1 087	563	756	425	261	148	53	11	7	8400	
NO MAINTENANCE CONTRACT:	12 976	534	1 332	1 264	2 352	2 127	1 934	1 989	880	355	209	17400	
WITH MAINTENANCE CONTRACT:	11 441	480	1 174	1 132	2 082	1 902	1 716	1 732	746	302	174	17200	
NOT REPORTED:	1 340	43	119	111	225	200	203	234	127	49	29	19300	
196	12	39	21	45	25	14	23	7	4	6	6	12900	

*EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

**EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

†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: 1978--CONTINUED

(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 TO \$74,999	MEDIAN (DOL- LARS)	
ALL OCCUPIED HOUSING UNITS--CONTINUED													
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
OWNER OCCUPIED.	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
NO HOT PIPED WATER.	298	92	111	33	38	12	4	5	2	-	-	5000	
WITH HOT PIPED WATER.	16 588	1 039	2 308	1 794	3 070	2 540	2 191	2 133	931	366	216	15200	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	16 222	987	2 235	1 751	3 006	2 493	2 164	2 106	911	359	211	15300	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	81	9	6	5	10	15	8	9	11	3	5	18600	
NOT REPORTED.	266	37	61	37	53	30	18	17	10	4	-	9900	
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-	
RENTER OCCUPIED	8 208	1 329	1 902	1 391	1 724	902	503	311	108	24	14	8900	
NO HOT PIPED WATER.	385	170	119	52	24	13	4	2	1	-	-	3800	
WITH HOT PIPED WATER.	7 824	1 160	1 783	1 339	1 700	889	500	308	107	24	14	9200	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 614	1 116	1 730	1 300	1 667	870	491	297	103	24	14	9200	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	29	2	-	9	3	5	3	5	2	-	-	---	
NOT REPORTED.	170	40	48	28	28	12	5	6	2	-	-	6800	
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-	
AIR CONDITIONING													
OWNER OCCUPIED.	16 885	1 131	2 419	1 827	3 108	2 552	2 195	2 138	933	366	216	14900	
WITH AIR CONDITIONING	12 912	577	1 406	1 268	2 337	2 072	1 909	1 921	877	339	204	17100	
ROOM UNITS.	6 012	389	983	785	1 309	1 002	769	521	169	56	29	13200	
1	3 469	290	667	525	769	542	390	200	60	20	6	11600	
2	1 811	75	235	199	410	351	252	197	62	22	9	14800	
3	533	17	71	45	102	79	93	81	30	9	7	17000	
4	141	5	8	9	19	26	25	32	7	5	5	20700	
5 OR MORE	57	2	4	7	9	4	8	10	10	-	2	21300	
CENTRAL SYSTEM.	6 900	188	423	483	1 029	1 071	1 140	1 400	709	283	175	21100	
WITH NO AIR CONDITIONING.	3 973	554	1 012	559	771	480	286	217	55	27	12	9300	
RENTER OCCUPIED	8 208	1 329	1 902	1 391	1 724	902	503	311	108	24	14	8900	
WITH AIR CONDITIONING	5 117	478	955	891	1 254	710	424	282	94	19	10	10900	
ROOM UNITS.	2 432	296	585	438	571	288	148	79	23	5	1	9300	
1	1 797	256	479	339	402	183	80	43	13	1	1	8400	
2	521	29	89	84	138	92	55	27	5	3	-	12100	
3	93	8	15	8	28	11	10	8	5	-	-	12700	
4	15	2	-	7	3	-	2	2	1	-	-	---	
5 OR MORE	5	-	2	-	-	2	-	-	-	-	-	-	
CENTRAL SYSTEM.	2 685	182	371	453	683	423	276	203	71	14	9	12500	
WITH NO AIR CONDITIONING.	3 091	851	946	500	471	192	79	29	14	5	4	5900	
ALL OCCUPIED HOUSING UNITS.	25 094	2 460	4 320	3 218	4 832	3 454	2 698	2 448	1 041	390	230	12600	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	20 211	1 783	3 195	2 399	3 789	2 921	2 366	2 210	966	368	213	13600	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
OWNER OCCUPIED.	16 309	1 095	2 281	1 755	2 993	2 499	2 145	2 073	907	357	206	15100	
ALL WINDOWS COVERED	4 831	201	535	427	817	809	724	759	355	142	62	17700	
SOME WINDOWS COVERED	1 669	130	214	164	308	246	233	200	91	50	34	15400	
NO WINDOWS COVERED	9 754	758	1 524	1 157	1 860	1 441	1 180	1 106	456	165	109	13900	
NOT REPORTED.	56	8	7	9	3	8	8	5	-	2	2	13900	
RENTER OCCUPIED	3 902	689	914	644	796	423	221	138	59	12	7	8600	
ALL WINDOWS COVERED	584	65	100	89	142	78	45	42	18	2	1	11300	
SOME WINDOWS COVERED	325	39	73	51	66	45	21	19	7	3	-	9900	
NO WINDOWS COVERED	2 884	556	721	483	570	287	150	72	33	6	5	8000	
NOT REPORTED.	109	29	19	20	17	13	5	4	2	-	-	-	
STORM DOORS													
OWNER OCCUPIED.	16 309	1 095	2 281	1 755	2 993	2 499	2 145	2 073	907	357	206	15100	
ALL DOORS COVERED	4 804	238	608	466	883	828	686	670	268	116	41	16200	
SOME DOORS COVERED	3 186	200	380	299	581	511	504	415	194	64	38	16300	
NO DOORS COVERED	8 230	648	1 284	976	1 515	1 157	936	974	437	177	125	14000	
NOT REPORTED.	89	10	8	14	14	3	18	13	8	-	2	14900	
RENTER OCCUPIED	3 902	689	914	644	796	423	221	138	59	12	7	8600	
ALL DOORS COVERED	537	53	96	89	127	68	38	47	14	4	1	11200	
SOME DOORS COVERED	406	55	67	68	102	54	31	13	11	2	2	10600	
NO DOORS COVERED	2 829	552	719	464	547	288	144	73	33	5	4	7900	
NOT REPORTED.	131	30	32	23	20	13	7	5	2	-	-	7500	
ATTIC OR ROOF INSULATION													
OWNER OCCUPIED.	16 309	1 095	2 281	1 755	2 993	2 499	2 145	2 073	907	357	206	15100	
YES	12 692	566	1 315	1 225	2 302	2 113	1 914	1 896	829	339	192	17200	
NO.	2 956	465	843	416	528	310	182	133	54	12	12	8200	
DON'T KNOW.	598	57	112	104	149	71	40	39	20	6	-	10900	
NOT REPORTED.	64	6	10	9	14	5	9	5	4	-	2	12100	
RENTER OCCUPIED	3 902	689	914	644	796	423	221	138	59	12	7	8600	
YES	1 376	126	247	217	332	223	115	69	35	7	7	11500	
NO.	1 488	385	426	244	239	98	47	32	13	3	-	6400	
DON'T KNOW.	914	148	218	161	203	87	53	33	10	2	-	8700	
NOT REPORTED.	125	31	23	22	15	6	4	2	-	-	-	8200	

¹LIMITED 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: 1978--CONTINUED

SOUTH REGION		TOTAL	LESS THAN \$3,000	DATA BASED ON SAMPLE, SEE TEXT FOR MINIMUM BASE FOR DERIVED FIGURES (PERCENT, MEDIAN, ETC.) AND MEANING OF SYMBOLS, SEE TEXT)								MEDIAN (DOL- LARS)			
				\$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				
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.															
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS:		16 309	1 095	2 281	1 755	2 993	2 499	2 145	2 073	907	357	206	15100		
NO WINDOWS COVERED.		9 758	758	1 528	1 157	1 860	1 441	1 180	1 106	456	165	109	13900		
SOME OR ALL WINDOWS COVERED		6 500	331	749	591	1 125	1 055	957	959	446	192	96	17200		
NONE ADDED OR INSTALLED		5 183	265	606	475	886	821	766	784	358	151	70	17200		
SOME OR ALL ADDED OR INSTALLED		1 202	61	134	100	221	213	177	158	82	32	24	17000		
NOT REPORTED.		115	5	9	16	18	21	14	16	5	8	2	17200		
NOT REPORTED.		56	6	8	7	9	3	8	6	5	-	2	13900		
STORM DOORS:															
NO DOORS COVERED.		8 230	648	1 284	976	1 515	1 157	936	974	437	177	125	14000		
SOME OR ALL DOORS COVERED		7 990	437	989	765	1 464	1 339	1 191	1 086	462	180	79	16300		
NONE ADDED OR INSTALLED		6 656	364	892	651	1 241	1 077	978	868	375	151	60	15800		
SOME OR ALL ADDED OR INSTALLED		1 008	52	64	69	159	203	164	186	72	23	16	18900		
NOT REPORTED.		326	22	33	45	64	59	48	32	15	6	2	14900		
NOT REPORTED.		89	10	8	14	14	3	18	13	8	-	2	14900		
ATTIC OR ROOF INSULATION:															
NO ATTIC OR ROOF INSULATION		2 956	465	843	416	528	310	182	133	54	12	12	8200		
WITH ATTIC OR ROOF INSULATION		12 692	566	1 315	1 225	2 302	2 113	1 914	1 896	829	339	192	17200		
NONE ADDED OR INSTALLED		11 054	507	1 197	1 083	2 016	1 820	1 622	1 665	693	299	151	17000		
SOME OR ALL ADDED OR INSTALLED		1 227	43	81	98	198	221	236	178	116	32	25	19400		
LESS THAN 3 INCHES ADDED		78	4	7	3	11	15	17	13	6	1	-	19500		
3 TO 6 INCHES ADDED		488	13	34	44	83	88	95	67	39	16	9	18900		
6 INCHES OR MORE ADDED		508	18	26	31	81	89	96	81	59	13	13	20500		
DON'T KNOW		109	9	10	11	19	15	16	15	12	1	2	17000		
NOT REPORTED		44	-	3	9	3	14	11	2	-	2	1	17500		
NOT REPORTED		411	16	37	44	88	71	56	53	19	8	17	16400		
DON'T KNOW		598	57	112	104	149	71	40	39	20	6	-	10900		
NOT REPORTED		64	6	10	9	14	5	9	5	4	-	2	12100		
WALL INSULATION:															
NONE ADDED OR INSTALLED		15 398	1 068	2 216	1 682	2 816	2 325	1 998	1 940	830	337	186	14900		
SOME OR ALL ADDED OR INSTALLED		822	22	53	61	158	164	135	125	69	17	18	18600		
NOT REPORTED		89	4	12	12	19	9	12	8	8	2	2	14300		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:															
NONE ADDED OR INSTALLED		13 238	970	2 071	1 498	2 441	1 984	1 603	1 557	685	270	159	14300		
SOME OR ALL ADDED OR INSTALLED		2 869	114	180	225	508	492	517	490	210	81	42	19100		
DON'T KNOW		145	7	16	25	31	16	16	16	7	6	3	13800		
NOT REPORTED		58	3	6	7	12	6	9	10	4	-	2	16100		
OTHER INSULATION:															
NONE ADDED OR INSTALLED		15 555	1 066	2 217	1 672	2 870	2 375	2 028	1 949	854	342	182	14900		
SOME OR ALL ADDED OR INSTALLED		653	22	53	66	110	114	103	108	44	14	19	18300		
NOT REPORTED		101	6	11	17	13	10	13	15	9	1	5	16500		
RENTER OCCUPIED		3 902	689	914	644	796	423	221	138	59	12	7	8600		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS:		2 884	556	721	483	570	287	150	72	33	6	5	8000		
NO WINDOWS COVERED		909	104	174	140	208	123	66	61	25	5	1	10500		
SOME OR ALL WINDOWS COVERED		663	79	117	98	150	95	47	50	24	3	1	11300		
NONE ADDED OR INSTALLED		221	25	47	40	54	26	16	8	1	-	1	9900		
SOME OR ALL ADDED OR INSTALLED		25	1	9	3	5	2	3	2	-	-	-	8000		
NOT REPORTED		109	29	19	20	17	13	5	4	2	-	-	8000		
STORM DOORS:		2 829	552	719	464	547	268	144	73	33	5	4	7900		
NO DOORS COVERED		943	108	163	158	229	122	69	59	25	6	3	10900		
SOME OR ALL DOORS COVERED		799	78	143	133	199	106	9	50	25	6	2	11200		
NONE ADDED OR INSTALLED		94	23	10	13	26	9	6	-	-	-	1	10100		
SOME OR ALL ADDED OR INSTALLED		49	7	10	12	4	7	5	3	-	-	1	8900		
NOT REPORTED		131	30	32	23	20	13	7	5	2	-	-	7500		
ATTIC OR ROOF INSULATION:															
NO ATTIC OR ROOF INSULATION		1 488	385	426	244	239	98	47	32	13	3	-	6400		
WITH ATTIC OR ROOF INSULATION		1 376	126	247	217	332	223	115	69	35	7	7	11500		
NONE ADDED OR INSTALLED		1 195	116	220	184	279	186	104	66	28	4	7	11400		
SOME OR ALL ADDED OR INSTALLED		101	6	20	17	23	19	6	1	3	-	-	11700		
LESS THAN 3 INCHES ADDED		9	1	1	3	1	3	-	-	-	-	-	11100		
3 TO 6 INCHES ADDED		44	4	11	5	14	4	3	-	2	2	-	11100		
6 INCHES OR MORE ADDED		16	1	2	1	3	6	2	1	-	-	-	11100		
DON'T KNOW		25	-	5	5	5	4	-	5	2	-	-	11100		
NOT REPORTED		8	1	2	2	-	2	1	-	-	-	-	11100		
NOT REPORTED		79	3	7	16	30	18	4	2	-	-	-	12300		
DON'T KNOW		914	148	218	161	203	87	53	33	10	2	-	8700		
NOT REPORTED		125	31	23	22	15	6	4	2	-	-	-	8200		
WALL INSULATION:															
NONE ADDED OR INSTALLED		3 660	651	870	605	743	387	209	125	55	8	7	8500		
SOME OR ALL ADDED OR INSTALLED		46	3	4	10	18	5	2	1	2	-	-	11700		
NOT REPORTED		196	36	40	30	35	31	9	12	3	2	-	9300		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:															
NONE ADDED OR INSTALLED		3 160	589	789	518	628	308	161	103	48	9	7	8200		
SOME OR ALL ADDED OR INSTALLED		343	28	52	63	87	55	30	18	8	2	-	11600		
DON'T KNOW		286	42	53	42	61	47	25	12	2	1	-	10400		
NOT REPORTED		113	30	20	21	19	13	5	4	2	-	-	8000		
OTHER INSULATION:															
NONE ADDED OR INSTALLED		3 650	648	868	599	741	391	206	124	56	9	7	8500		
SOME OR ALL ADDED OR INSTALLED		81	9	10	16	24	11	6	2	2	2	-	11300		
NOT REPORTED		170	32	34	29	31	21	9	11	2	2	-	8800		

TABLE D-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED

(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 \$14,999	\$10,000 TO \$19,999	\$15,000 TO \$24,999	\$20,000 TO \$34,999	\$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.													
NO INSULATION ADDED OR INSTALLED.	16 309	1 095	2 281	1 755	2 993	2 499	2 145	2 073	907	357	206	15100	
WITH INSULATION ADDED OR INSTALLED.	11 004	844	1 821	1 260	2 038	1 601	1 301	1 253	551	224	110	13900	
LESS THAN \$50.	4 563	209	374	393	803	785	746	732	324	119	77	18200	
\$50 TO \$99.	1 868	99	172	165	344	330	293	293	107	40	24	17300	
\$100 TO \$199.	477	20	36	42	84	89	94	71	22	12	8	18200	
\$200 TO \$399.	479	23	29	53	90	77	69	82	39	13	5	17900	
\$400 OR MORE.	407	12	35	30	70	54	80	73	35	11	7	20200	
DON'T KNOW.	698	26	48	46	90	126	104	130	80	27	22	20600	
NOT REPORTED.	289	14	20	26	56	48	56	31	23	6	9	17900	
MEDIAN.	345	15	34	32	68	62	51	53	18	9	2	16800	
NOT REPORTED OR DON'T KNOW.	60	50-	50-	53	50-	54	64	71	130	98	121	---	
	743	41	86	101	152	113	98	88	31	14	18	14700	
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
LESS THAN \$50.	409	31	81	45	88	65	34	29	19	11	8	12700	
\$50 TO \$99.	174	19	38	17	41	26	13	9	3	3	3	11600	
\$100 TO \$199.	30	1	5	2	8	6	3	3	-	1	2	---	
\$200 TO \$399.	57	2	8	12	13	9	2	4	3	3	2	12300	
\$400 OR MORE.	37	1	8	5	9	2	4	3	4	-	1	12700	
DON'T KNOW.	49	2	11	3	6	6	6	6	3	3	2	16600	
NOT REPORTED.	19	2	5	1	4	5	-	1	1	-	-	---	
MEDIAN.	42	3	6	3	7	10	5	2	5	-	-	15800	
ONLY ADDED OR INSTALLED STORM DOORS													
LESS THAN \$50.	377	24	24	31	63	78	50	72	22	6	6	18000	
\$50 TO \$99.	80	4	4	5	13	30	10	11	2	-	-	17300	
\$100 TO \$199.	143	9	10	14	26	26	23	25	4	4	2	17500	
\$200 TO \$399.	93	7	5	5	16	9	11	13	-	2	-	21900	
\$400 OR MORE.	13	2	1	2	2	-	1	1	-	-	2	---	
DON'T KNOW.	11	-	-	1	1	2	-	1	1	-	-	---	
NOT REPORTED.	7	-	1	2	-	1	-	4	2	-	2	---	
MEDIAN.	31	3	5	2	4	9	2	4	1	1	1	---	
	81	---	---	80	57	79	92	---	---	---	---	---	
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION													
LESS THAN \$50.	614	26	51	77	97	92	96	97	52	14	12	18000	
\$50 TO \$99.	93	8	11	9	20	6	14	15	9	-	-	14700	
\$100 TO \$199.	62	2	6	10	11	12	12	7	2	-	-	15700	
\$200 TO \$399.	89	3	3	11	15	17	10	18	9	1	2	18400	
\$400 OR MORE.	126	2	13	8	12	17	30	24	14	6	1	21900	
DON'T KNOW.	124	5	10	16	19	16	14	19	14	3	7	18600	
NOT REPORTED.	67	1	4	9	12	12	13	7	4	2	2	18000	
MEDIAN.	53	4	5	14	7	10	4	7	1	2	-	13000	
	205	---	221	172	150	186	227	217	259	---	---	---	
ALL OCCUPIED HOUSING UNITS													
	25 094	2 460	4 320	3 218	4 832	3 454	2 698	2 448	1 041	390	230	12600	
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK ¹													
OWNER OCCUPIED													
DRIVES SELF	11 569	275	663	993	2 257	2 117	1 970	1 936	832	331	195	18800	
CARPOOL	8 938	191	445	728	1 777	1 631	1 560	1 516	661	269	160	19100	
MASS TRANSPORTATION	1 935	36	121	175	359	388	330	340	126	40	19	18600	
BICYCLE OR MOTORCYCLE	157	10	19	12	28	21	15	27	20	2	3	17400	
TAXICAB	43	-	2	6	11	6	9	7	2	1	-	17400	
WALKS ONLY	10	4	2	-	-	5	-	-	-	-	-	---	
OTHER MEANS	178	7	31	29	33	29	18	15	5	6	6	13500	
WORKS AT HOME	38	2	2	7	6	6	4	5	4	-	-	15500	
NOT REPORTED	237	25	38	28	36	25	32	21	14	12	6	13800	
RENTER OCCUPIED	5 692	326	1 039	1 109	1 491	836	466	290	99	23	12	11200	
DRIVES SELF	3 751	159	518	723	1 049	612	359	226	76	18	10	12300	
CARPOOL	1 132	87	229	234	295	161	74	33	12	5	2	10300	
MASS TRANSPORTATION	340	31	133	70	53	28	8	11	6	-	-	7300	
BICYCLE OR MOTORCYCLE	41	4	3	7	19	2	4	1	-	-	-	11500	
TAXICAB	24	2	15	4	-	4	-	-	-	-	-	---	
WALKS ONLY	301	33	111	49	55	23	11	17	2	-	-	7400	
OTHER MEANS	17	4	7	1	2	1	-	-	-	-	-	---	
WORKS AT HOME	76	6	20	21	14	5	7	2	2	-	-	8900	
NOT REPORTED	9	-	3	1	3	-	2	-	-	-	-	---	
DISTANCE FROM HOME TO WORK ¹													
OWNER OCCUPIED													
LESS THAN 1 MILE.	11 569	275	663	993	2 257	2 117	1 970	1 936	832	331	195	18800	
1 TO 4 MILES.	738	28	101	101	156	114	85	83	38	16	17	14500	
5 TO 9 MILES.	2 367	61	165	222	505	425	369	362	156	60	41	17700	
10 TO 19 MILES.	2 255	49	115	200	461	401	380	374	183	73	38	18800	
20 TO 29 MILES.	2 527	36	90	180	501	493	470	459	201	59	36	19600	
30 TO 49 MILES.	951	18	30	63	163	177	185	197	80	29	10	20700	
50 MILES OR MORE.	616	6	17	40	127	138	121	122	34	8	4	19300	
WORKS AT HOME	211	3	6	16	38	51	39	44	11	2	-	19100	
NO FIXED PLACE OF WORK.	237	25	38	28	36	25	32	21	14	12	6	13800	
NOT REPORTED.	1 499	45	91	118	242	255	259	246	131	71	40	20000	
MEDIAN.	168	5	9	24	29	37	29	26	6	1	2	17300	
	8.8	6.2	4.9	7.2	8.4	9.5	9.9	10.0	9.5	8.3	7.0	---	
RENTER OCCUPIED													
LESS THAN 1 MILE.	5 692	326	1 039	1 109	1 491	836	466	290	99	23	12	11200	
1 TO 4 MILES.	598	44	171	113	142	54	31	36	7	1	-	9200	
5 TO 9 MILES.	1 494	97	320	332	383	193	93	51	12	7	5	10000	
10 TO 19 MILES.	1 207	64	196	261	314	179	97	64	24	5	2	11300	
20 TO 29 MILES.	1 088	49	156	197	321	175	105	64	17	2	1	12200	
30 TO 49 MILES.	309	10	37	53	85	62	32	24	7	-	-	13200	
50 MILES OR MORE.	176	3	19	34	47	38	14	8	12	-	1	13400	
WORKS AT HOME	76	6	20	21	14	5	7	1	2	-	-	12800	
NO FIXED PLACE OF WORK.	594	44	97	76	142	108	64	39	13	7	4	12800	
NOT REPORTED.	96	7	16	16	22	13	15	1	3	2	-	12100	
MEDIAN.	6.5	4.7	4.5	6.0	7.1	8.0	8.4	7.9	9.4	...	...	---

¹LIMITED 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: 1978--CONTINUED

(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	\$6,999 TO \$14,999	\$14,999 TO \$19,999	\$19,999 TO \$24,999	\$24,999 TO \$34,999	\$34,999 TO \$49,999	\$49,999 TO \$74,999	\$74,999 TO \$100,000	\$100,000 OR MORE	MEDIAN (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
TRAVEL TIME FROM HOME TO WORK¹												
OWNER OCCUPIED	11 569	275	663	993	2 257	2 117	1 970	1 936	832	331	195	18800
LESS THAN 15 MINUTES	3 311	94	239	313	657	576	528	511	219	106	68	18100
15 TO 29 MINUTES	3 702	45	183	308	794	697	643	630	271	78	54	18700
30 TO 44 MINUTES	1 629	47	64	130	313	306	302	292	117	37	22	19300
45 TO 59 MINUTES	576	10	20	38	103	114	112	114	44	17	4	20100
1 HOUR TO 1 HOUR AND 29 MINUTES	393	6	15	31	78	86	57	84	26	9	1	18900
1 HOUR AND 30 MINUTES OR MORE	114	2	8	9	18	30	20	20	5	1	-	18200
WORKS AT HOME	237	25	38	28	36	25	32	21	14	12	6	13800
NO FIXED PLACE OF WORK	1 499	45	91	118	242	255	259	246	131	71	40	20000
NOT REPORTED	108	2	5	17	17	28	16	17	5	-	1	17400
MEDIAN	21.2	17.8	17.0	19.9	21.1	22.0	22.0	22.4	21.7	18.4	16.7	...
RENTER OCCUPIED	5 692	326	1 039	1 109	1 491	836	466	290	99	23	12	11200
LESS THAN 15 MINUTES	1 978	120	378	415	547	251	135	97	24	5	5	10700
15 TO 29 MINUTES	1 846	97	340	361	476	290	162	80	28	9	3	11300
30 TO 44 MINUTES	698	30	117	139	182	106	52	54	15	2	-	11700
45 TO 59 MINUTES	245	8	35	52	62	41	24	9	13	-	1	12200
1 HOUR TO 1 HOUR AND 29 MINUTES	149	12	33	27	42	17	15	4	-	-	-	10400
1 HOUR AND 30 MINUTES OR MORE	56	2	12	7	16	13	5	2	1	-	-	12400
WORKS AT HOME	76	6	20	21	14	5	7	2	2	-	-	8900
NO FIXED PLACE OF WORK	594	44	97	76	142	108	64	39	13	7	4	12800
NOT REPORTED	50	8	8	11	9	5	3	2	2	-	-	9300
MEDIAN	19.1	17.1	18.4	18.5	18.6	20.5	20.6	19.9	23.5	...	...	...

¹LIMITED 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: 1978

(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		LESS THAN \$10,000	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000 OR MORE	MEDIAN (\$DOLLARS)
	TOTAL	\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	
SPECIFIED OWNER OCCUPIED¹											
HOUSE HEATING FUEL											
UTILITY GAS	7 115	444	1 148	1 406	1 419	936	611	556	368	213	12
BOTTLED, TANK, OR LP GAS.	919	145	238	216	139	79	41	29	18	13	23500
FUEL OIL	1 657	73	249	351	328	230	166	111	82	60	7
KEROSENE, ETC.	114	16	42	24	19	8	3	-	-	1	19900
ELECTRICITY	3 326	29	154	514	826	612	439	364	219	149	20
COAL OR COKE	55	14	11	18	4	4	3	-	2	1	42300
WOOD	206	48	60	38	33	13	5	7	3	-	21700
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	19200
OTHER FUEL	2	-	-	-	2	-	-	1	-	-	-
NONE	52	2	7	17	11	5	5	3	-	2	29600
WATER HEATING FUEL											
NO HOT PIPED WATER	195	106	44	26	10	2	2	2	-	2	-
WITH HOT PIPED WATER	13 252	665	1 864	2 559	2 770	1 883	1 270	1 071	691	438	40
FUEL USED:											
UTILITY GAS	6 313	356	1 009	1 200	1 278	851	551	523	329	203	13
BOTTLED, TANK, OR LP GAS	576	89	150	134	86	46	31	19	12	7	23600
FUEL OIL	200	-	8	28	27	38	37	30	19	11	49600
KEROSENE, ETC.	8	1	-	-	2	2	1	1	-	-	...
ELECTRICITY	6 134	214	690	1 193	1 376	947	644	498	331	217	24
COAL OR COKE	4	2	-	2	-	-	-	-	-	-	...
WOOD	5	2	2	-	-	1	-	-	-	-	...
SOLAR HEAT	7	-	-	2	-	-	5	-	-	-	...
OTHER FUEL	1	-	1	-	-	-	-	1	-	-	...
NONE	4	2	2	-	-	-	-	-	-	-	...
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	...
COOKING FUEL											
UTILITY GAS	4 075	372	901	946	780	413	253	212	122	69	8
BOTTLED, TANK, OR LP GAS	868	170	235	212	111	58	39	19	17	7	28100
FUEL OIL	9	-	2	2	1	4	-	-	-	-	21300
KEROSENE, ETC.	4	-	5	-	1	-	-	-	-	-	...
ELECTRICITY	8 451	214	758	1 415	1 884	1 408	981	842	552	364	32
COAL OR COKE	7	2	-	4	1	-	-	-	-	-	...
WOOD	27	10	9	4	2	2	-	1	-	-	...
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	...
NONE	6	3	-	3	-	-	-	-	-	-	...
MONTHLY COST PAID FOR ELECTRICITY											
LESS THAN \$10	127	36	39	31	14	2	3	-	3	-	17000
\$10 TO \$19	1 181	258	339	262	135	79	46	44	8	11	1
\$20 TO \$29	2 093	202	489	497	450	211	108	78	37	19	2
\$30 TO \$39	2 271	123	392	529	549	277	177	138	72	15	-
\$40 TO \$49	1 818	77	225	377	410	280	204	125	85	34	35600
\$50 TO \$59	1 814	38	199	348	432	303	169	170	102	55	-
\$60 TO \$79	2 210	19	141	354	472	418	281	241	179	93	11
\$80 TO \$99	936	2	47	116	189	183	137	110	91	60	2
\$100 TO \$149	811	7	31	65	111	122	126	132	98	112	7
\$150 OR MORE	175	2	4	6	19	11	22	36	20	38	16
NO ELECTRICITY USED OR NOT REPORTED	12	6	3	1	-	-	-	1	-	-	...
MEDIAN	45	24	32	39	45	53	55	58	65	77	124
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS											
LESS THAN \$10	809	79	159	200	151	92	69	33	18	10	-
\$10 TO \$14	954	85	201	215	163	113	68	55	29	26	2
\$15 TO \$19	1 129	124	242	280	203	123	66	42	28	16	4
\$20 TO \$24	1 370	83	264	297	308	165	108	74	42	28	2
\$25 TO \$29	1 038	66	190	218	227	133	77	74	37	16	-
\$30 TO \$39	1 587	89	246	285	328	214	154	154	79	34	3
\$40 TO \$49	985	45	137	152	181	135	111	104	73	45	2
\$50 TO \$69	836	65	77	122	128	124	75	93	95	55	2
\$70 TO \$99	206	13	31	40	33	21	13	18	15	19	-
\$100 OR MORE	68	7	7	7	14	5	5	9	4	10	1
NO GAS USED OR NOT REPORTED	4 463	115	353	769	1 044	761	527	416	273	182	23
MEDIAN	26	22	23	23	26	27	28	33	36	39	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.											
LESS THAN \$100	627	47	61	61	69	109	80	99	51	48	2
\$100 TO \$199	412	27	55	91	63	56	57	35	19	10	-
\$200 TO \$299	448	41	84	98	92	46	39	23	14	8	-
\$300 TO \$399	411	27	76	93	79	54	41	23	8	10	-
\$400 TO \$499	253	13	43	38	59	40	21	19	11	8	1
\$500 TO \$599	189	12	20	36	30	24	28	14	13	9	-
\$600 TO \$699	143	4	17	22	32	17	14	9	18	11	-
\$700 TO \$799	53	-	6	7	6	6	9	4	5	8	-
\$800 OR MORE	79	2	6	12	12	7	10	10	7	9	3
FUELS NOT USED, FREE, OR NOT REPORTED	10 834	599	1 540	2 129	2 336	1 527	973	836	544	319	30
MEDIAN	259	229	281	277	298	230	233	154	221	234	...
HEATING EQUIPMENT											
WARM-AIR FURNACE	7 206	69	403	1 086	1 710	1 347	931	798	519	313	31
HEAT PUMP	490	4	3	33	86	81	78	86	55	62	3
STEAM OR HOT WATER	424	5	40	51	72	58	64	68	41	22	2
BUILT-IN ELECTRIC UNITS	1 077	14	87	270	308	185	84	68	40	20	-
FLOOR, WALL, OR PIPELESS FURNACE	1 266	55	382	460	223	70	36	21	11	8	-
ROOM HEATERS WITH FLUE	986	179	319	258	129	58	22	8	7	5	18800
ROOM HEATERS WITHOUT FLUE	1 356	334	515	270	130	41	39	11	13	3	16700
FIREPLACES, STOVES, OR PORTABLE HEATERS	589	108	153	140	110	40	15	11	13	5	22300
NONE	52	2	7	17	11	5	5	3	2	-	29600

¹LIMITED 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: 1978--CONTINUED
(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		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 \$89,999	\$100,000 TO \$199,999	\$200,000 OR MORE TO \$1,000,000	MEDIAN (DOLLARS)
SPECIFIED OWNER OCCUPIED¹--CONTINUED												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT.	52	2	7	17	11	5	5	3	-	2	-	29600
WITH HEATING EQUIPMENT.	13 395	769	1 901	2 569	2 769	1 881	1 268	1 070	691	437	40	35300
NO THERMOSTAT CONTROL.	2 786	570	880	641	387	152	75	30	30	19	3	19400
WITH THERMOSTAT CONTROL.	10 576	196	1 019	1 914	2 373	1 725	1 191	1 041	662	418	37	39100
NOT CLOCK OPERATED.	8 804	153	826	1 551	1 947	1 457	1 019	898	559	367	26	39600
CONSTANT TEMPERATURE SETTING MAINTAINED.	2 611	60	260	533	604	415	266	237	133	95	9	37500
TEMPERATURE SETTING IS CHANGED.	6 132	92	564	1 007	1 332	1 030	744	656	421	270	17	40700
OCCASIONALLY.	1 848	33	192	337	401	227	183	121	56	8	8	39000
REGULARLY.	4 186	59	359	647	909	718	509	470	293	213	9	41700
DON'T KNOW.	88	-	10	20	22	18	8	2	7	1	-	36400
NOT REPORTED.	9	-	2	3	-	3	-	-	-	-	-	-
NOT REPORTED.	61	1	2	11	12	13	10	6	5	2	-	43700
CLOCK OPERATED.	1 725	43	188	347	413	258	172	142	100	51	12	36900
NOT REPORTED.	47	1	6	16	13	9	-	-	3	-	-	30800
NOT REPORTED.	33	2	2	13	9	4	2	-	-	-	-	-
SPECIFIED OWNER OCCUPIED¹	13 447	771	1 908	2 586	2 780	1 886	1 272	1 073	691	440	40	35200
UNITS OCCUPIED LAST WINTER.	12 174	740	1 835	2 394	2 545	1 670	1 074	932	600	349	35	34400
INSUFFICIENT HEAT												
CLOSURE OF ROOMS:												
WITH HEATING EQUIPMENT.	12 135	738	1 830	2 384	2 536	1 665	1 071	930	600	347	35	34400
NO ROOMS CLOSED.	11 345	607	1 627	2 223	2 408	1 594	1 030	903	583	338	32	35000
CLOSED CERTAIN ROOMS.	690	128	196	132	109	45	36	20	14	8	3	21600
LIVING ROOM ONLY.	37	4	6	14	4	-	5	2	1	1	-	25500
DINING ROOM ONLY.	9	2	2	2	2	1	-	2	-	-	-	-
1 OR MORE BEDROOMS ONLY.	442	91	142	86	61	25	19	6	9	2	-	19200
OTHER ROOMS OR COMBINATION OF ROOMS.	194	29	42	30	41	18	12	10	4	4	3	28700
NOT REPORTED.	9	2	4	-	1	1	-	-	1	-	-	-
NOT REPORTED.	100	4	7	28	19	25	5	7	3	1	-	35500
NO HEATING EQUIPMENT.	39	2	6	11	9	5	3	2	-	2	-	32000
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ² .	10 268	311	1 188	1 990	2 309	1 586	1 018	910	582	339	34	37100
NO ADDITIONAL HEAT SOURCE USED.	9 309	261	1 004	1 772	2 117	1 475	939	862	546	306	28	37600
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	886	48	180	195	179	90	79	42	34	32	6	31100
NOT REPORTED.	73	2	4	23	13	21	1	5	3	1	-	35600
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	1 906	429	648	404	236	83	56	22	17	10	1	18100
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ² .	10 268	311	1 188	1 990	2 309	1 586	1 018	910	582	339	34	37100
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	7 561	99	524	1 221	1 791	1 340	904	830	515	304	32	41100
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 604	208	656	741	501	220	110	68	61	35	3	25900
1 ROOM.	626	47	89	120	151	76	42	40	40	20	2	33700
2 ROOMS.	581	56	184	153	83	54	26	13	9	3	-	23300
3 ROOMS OR MORE.	1 397	105	383	468	267	91	43	15	12	12	1	24500
NOT REPORTED.	103	4	7	28	17	25	4	11	6	1	-	37700
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	1 906	429	648	404	236	83	56	22	17	10	1	18100
SPECIFIED OWNER OCCUPIED¹	13 447	771	1 908	2 586	2 780	1 886	1 272	1 073	691	440	40	35200
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	641	111	161	157	121	46	20	13	5	9	-	23100
WITH SELECTED HEATING EQUIPMENT ² .	12 805	661	1 748	2 428	2 659	1 840	1 253	1 060	657	431	40	35900
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	12 075	621	1 643	2 291	2 516	1 739	1 179	993	651	406	36	35900
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	664	36	92	121	132	93	68	61	33	23	4	36300
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	184	11	23	25	48	30	18	17	10	3	-	36900
FIREPLACE, BURNING WOOD OR COAL.	86	-	5	8	18	20	15	14	2	4	-	45900
PORTABLE ELECTRIC HEATER.	191	6	41	47	33	16	10	16	12	8	2	30500
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	64	13	7	15	10	7	7	2	3	-	-	28000
OTHER.	132	5	14	25	20	17	16	18	6	8	2	41000
NOT REPORTED.	12	1	-	4	3	2	-	-	2	-	-	-
NOT REPORTED.	66	4	13	16	10	8	6	5	2	-	-	29900
AGE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	2 983	624	994	685	380	145	81	32	25	16	1	18700
WITH SELECTED HEATING EQUIPMENT ² .	10 463	147	914	1 901	2 400	1 781	1 191	1 041	666	424	39	39500
LESS THAN 4 YEARS.	2 817	22	137	342	503	431	345	274	205	147	11	44800
4 TO 9 YEARS.	3 234	46	245	623	727	537	390	341	192	119	14	39700
10 TO 19 YEARS.	3 092	40	279	570	749	548	299	300	192	106	8	38800
20 TO 39 YEARS.	1 107	23	144	222	277	154	105	90	62	31	1	36600
40 YEARS OR MORE.	63	3	8	7	4	9	10	5	7	2	2	51600
DON'T KNOW.	674	11	88	121	121	57	37	19	9	9	3	31500
NOT REPORTED.	77	2	13	16	15	9	6	7	1	5	-	34000
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	2 983	624	994	685	380	145	81	32	25	16	1	18700
WITH SELECTED HEATING EQUIPMENT ² .	10 463	147	914	1 901	2 400	1 781	1 191	1 041	666	424	39	39500
NO MAINTENANCE OR MODIFICATION.	8 539	122	761	1 597	2 003	1 413	949	834	529	306	25	38900
WITH MAINTENANCE OR MODIFICATION.	1 843	23	143	288	378	315	237	199	137	111	12	42800
NOT REPORTED.	81	2	10	16	18	13	6	7	1	6	3	36900

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

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

*EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

**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: 1978--CONTINUED
(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	\$10,000 LESS THAN \$10,000	\$20,000 TO \$19,999	\$30,000 TO \$29,999	\$40,000 TO \$39,999	\$50,000 TO \$49,999	\$60,000 TO \$59,999	\$75,000 TO \$74,999	\$100,000 TO \$99,999	\$200,000 OR MORE	MEDIAN (DOL- LARS)
SPECIFIED OWNER OCCUPIED¹--CONTINUED												
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 983	624	994	685	380	145	81	32	25	16	1	18700
WITH SELECTED HEATING EQUIPMENT	10 463	147	914	1 901	2 400	1 741	1 191	1 041	666	424	39	39500
NO MAINTENANCE CONTRACT	9 277	138	843	1 739	2 186	1 508	1 023	905	563	386	26	38800
WITH MAINTENANCE CONTRACT	1 083	7	60	142	194	219	160	123	100	66	13	46400
NOT REPORTED	104	2	12	19	20	13	9	14	3	12	-	39200
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT												
NO HOT PIPED WATER	195	106	44	26	10	2	2	2	-	2	-	10000-
WITH HOT PIPED WATER	13 252	665	1 864	2 559	2 770	1 883	1 270	1 071	691	428	40	35600
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	12 967	638	1 823	2 501	2 721	1 843	1 240	1 060	680	425	37	35600
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	69	3	1	13	11	8	10	7	6	8	2	48300
NOT REPORTED	205	22	39	43	37	33	14	5	5	5	2	29600
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
AIR CONDITIONING												
WITH AIR CONDITIONING	10 479	251	1 120	1 923	2 305	1 655	1 142	985	654	409	36	38400
ROOM UNITS	4 801	227	996	1 384	1 130	521	235	163	101	38	6	28500
1	2 638	182	625	833	575	236	85	63	27	11	2	26200
2	1 525	37	307	425	377	194	90	49	37	9	-	29800
3	462	7	57	104	132	71	40	28	18	6	-	34800
4	122	1	4	18	38	10	12	19	14	5	1	40300
5 OR MORE	54	-	2	4	9	3	8	3	6	7	3	52100
CENTRAL SYSTEM	5 678	24	125	539	1 175	1 134	906	821	552	371	30	48600
WITH NO AIR CONDITIONING	2 968	520	788	663	474	230	130	88	38	31	4	22600
SPECIFIED OWNER OCCUPIED ¹	13 447	771	1 908	2 586	2 780	1 886	1 272	1 073	691	440	40	35200
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	13 447	771	1 908	2 586	2 780	1 886	1 272	1 073	691	440	40	35200
ALL WINDOWS COVERED	4 040	113	409	662	869	648	466	907	277	181	10	39600
SOME WINDOWS COVERED	1 365	74	181	263	293	171	133	114	77	53	6	35600
NO WINDOWS COVERED	8 003	581	1 313	1 653	1 613	1 063	667	549	335	206	23	32800
NOT REPORTED	38	2	6	7	5	3	7	4	2	-	2	37300
STORM DOORS												
ALL DOORS COVERED	4 115	123	518	841	993	639	400	307	197	91	6	35800
SOME DOORS COVERED	2 601	130	340	505	565	359	271	212	146	69	4	35800
NO DOORS COVERED	6 666	515	1 043	1 232	1 211	881	588	545	345	279	28	34500
NOT REPORTED	64	3	8	7	10	6	13	10	4	1	2	45600
ATTIC OR ROOF INSULATION												
YES	10 630	233	1 089	1 986	2 374	1 682	1 169	1 000	648	413	36	38500
NO	2 348	490	719	502	304	151	73	54	37	16	2	19500
DON'T KNOW	430	44	93	92	98	49	21	16	6	11	-	28400
NOT REPORTED	39	4	7	6	3	4	9	3	1	-	2	37400
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS												
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:												
NO WINDOWS COVERED	8 003	581	1 313	1 653	1 613	1 063	667	549	335	206	23	32800
SOME OR ALL WINDOWS COVERED	5 406	188	589	925	1 162	819	598	520	354	234	16	38600
NONE ADDED OR INSTALLED	4 321	131	474	748	930	679	475	403	288	161	11	38700
SOME OR ALL ADDED OR INSTALLED	993	53	105	168	210	121	112	110	62	48	3	38100
NOT REPORTED	92	3	10	9	22	19	11	7	4	5	1	41000
NOT REPORTED	38	2	6	7	5	3	7	4	2	-	2	37300
STORM DOORS:												
NO DOORS COVERED	6 666	515	1 043	1 232	1 211	881	588	545	345	279	28	34500
SOME OR ALL DOORS COVERED	6 717	253	857	1 347	1 559	998	671	519	343	160	10	35600
NONE ADDED OR INSTALLED	5 551	204	720	1 335	1 299	820	528	439	277	119	9	35500
SOME OR ALL ADDED OR INSTALLED	907	30	100	160	197	134	129	72	56	29	1	38300
NOT REPORTED	259	18	37	51	63	44	14	8	10	12	1	33600
NOT REPORTED	64	3	8	7	10	6	13	10	4	1	2	45600
ATTIC OR ROOF INSULATION:												
NO ATTIC OR ROOF INSULATION	2 348	490	719	502	304	151	73	54	37	16	2	19500
WITH ATTIC OR ROOF INSULATION	10 630	233	1 089	1 986	2 374	1 682	1 169	1 000	648	413	36	38500
NONE ADDED OR INSTALLED	9 213	188	955	1 754	2 052	1 468	1 019	851	554	343	30	38300
SOME OR ALL ADDED OR INSTALLED	1 081	36	98	179	228	159	114	128	82	54	2	39900
LESS THAN 3 INCHES ADDED	66	3	4	16	12	13	10	4	4	-	-	38800
3 TO 6 INCHES ADDED	436	19	41	77	114	54	36	44	30	19	1	37100
6 INCHES OR MORE ADDED	444	19	36	59	76	74	52	67	40	32	1	45900
DON'T KNOW	95	8	10	15	21	10	12	11	6	2	1	37000
NOT REPORTED	39	7	7	12	4	8	3	2	1	1	-	30600
NOT REPORTED	337	9	37	53	94	55	37	21	12	16	3	37400
DON'T KNOW	430	44	93	92	98	49	21	16	6	11	1	28400
NOT REPORTED	39	4	7	6	3	4	9	3	1	-	2	37400
WALL INSULATION:												
NONE ADDED OR INSTALLED	12 675	748	1 832	2 461	2 627	1 782	1 173	975	648	392	37	34900
SOME OR ALL ADDED OR INSTALLED	704	22	69	112	142	89	91	94	42	43	1	40800
NOT REPORTED	67	1	8	13	10	15	8	4	1	5	2	40900
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:												
NONE ADDED OR INSTALLED	10 841	683	1 661	2 147	2 232	1 477	939	816	531	329	27	34200
SOME OR ALL ADDED OR INSTALLED	2 441	75	231	407	519	379	320	246	152	104	10	39800
DON'T KNOW	123	13	11	22	25	23	8	9	5	8	1	36300
NOT REPORTED	41	-	6	10	3	8	6	3	4	-	2	42100
OTHER INSULATION:												
NONE ADDED OR INSTALLED	12 872	753	1 849	2 507	2 681	1 793	1 199	996	654	404	37	34900
SOME OR ALL ADDED OR INSTALLED	497	16	48	66	89	80	66	66	35	30	2	43700
NOT REPORTED	78	2	11	12	10	13	7	11	2	7	2	42500

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

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

³LIMITED 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: 1978--CONTINUED

(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 (DOL- LARS)
SPECIFIED OWNER OCCUPIED¹--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.		8 973	591	1 412	1 795	1 824	1 212	757	663	432	267	19	33800	
WITH INSULATION ADDED OR INSTALLED.		3 876	153	421	675	822	570	465	372	240	144	14	38400	
LESS THAN \$50.		1 543	87	181	292	329	225	172	124	79	47	7	36400	
\$50 TO \$99.		402	22	57	75	85	53	47	28	22	13	-	35600	
\$100 TO \$199.		420	9	52	76	90	73	41	35	29	16	-	38100	
\$200 TO \$399.		349	8	31	68	80	64	38	23	19	14	2	38500	
\$400 OR MORE.		618	10	51	77	126	76	79	105	57	34	3	45900	
DON'T KNOW.		251	7	14	43	53	38	40	30	11	13	2	42400	
NOT REPORTED.		294	11	35	45	58	41	48	26	23	7	-	39600	
MEDIAN.		65	50-	54	51	65	69	67	115	106	116	7	-	
NOT REPORTED OR DON'T KNOW.		598	28	75	116	134	104	50	38	19	29	7	36000	
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
299		29	52	57	55	32	23	28	13	9	2	2	32000	
LESS THAN \$50.		115	22	29	29	14	7	6	4	2	1	-	22500	
\$50 TO \$99.		21	4	2	4	6	1	3	2	1	-	-	-	
\$100 TO \$199.		46	3	7	10	7	6	2	8	2	2	-	34100	
\$200 TO \$399.		31	-	3	7	9	4	3	1	2	2	-	-	
\$400 OR MORE.		42	-	3	5	12	5	3	8	4	2	-	42900	
DON'T KNOW.		16	1	3	-	2	6	1	-	2	-	-	-	
NOT REPORTED.		28	-	5	3	5	4	5	5	2	-	-	-	
MEDIAN.		80	---	50-	50-	154	---	---	---	---	---	---	-	
ONLY ADDED OR INSTALLED STORM DOORS														
346		16	51	60	78	59	42	18	16	6	-	-	35900	
LESS THAN \$50.		73	3	10	22	17	9	6	2	5	-	-	31200	
\$50 TO \$99.		131	9	23	27	28	15	16	5	5	3	-	32300	
\$100 TO \$199.		87	1	9	7	19	22	14	7	5	3	-	43600	
\$200 TO \$399.		11	1	-	2	7	1	-	-	-	-	-	-	
\$400 OR MORE.		10	-	2	-	3	2	2	1	-	-	-	-	
DON'T KNOW.		7	1	1	-	3	-	1	1	-	-	-	-	
NOT REPORTED.		27	1	6	4	6	5	2	2	1	-	-	-	
MEDIAN.		81	---	76	61	80	113	93	---	---	---	-	-	
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION														
532		23	64	98	112	72	56	52	37	15	2	2	37200	
LESS THAN \$50.		78	8	10	13	18	7	11	4	2	4	-	34100	
\$50 TO \$99.		58	3	14	14	11	7	2	4	2	-	-	28000	
\$100 TO \$199.		79	2	11	15	18	13	6	4	5	1	-	36400	
\$200 TO \$399.		107	2	6	21	21	25	17	5	5	1	-	41500	
\$400 OR MORE.		108	2	17	12	17	11	8	24	13	2	-	45600	
DON'T KNOW.		57	3	13	15	7	6	6	4	4	1	-	36600	
NOT REPORTED.		48	3	2	10	11	2	7	5	1	2	-	35500	
MEDIAN.		200	---	139	170	174	235	245	400+	---	---	-	-	

³LIMITED 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: 1978
(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 \$199	\$150 TO \$249	\$200 TO \$299	\$250 TO \$349	\$300 TO \$399	\$350 TO \$399	\$400 TO \$499	\$500 OR MORE	NO CASH RENT	MEDIAN (DOL- LARS)
SPECIFIED RENTER OCCUPIED¹												
HOUSE HEATING FUEL												
UTILITY GAS	7 904	1 215	1 363	1 521	1 483	926	427	182	142	72	573	185
BOTTLED, TANK, OR LP GAS												
426	776	833	783	593	336	167	71	57	32	255	163	
835	97	77	53	14	11	5	2	1	93	93		
95	85	188	169	173	74	44	27	9	14	147		
ELECTRICITY												
2 264	115	142	416	631	486	204	77	74	29	90	184	
COAL OR COKE												
68	28	17	6	2	2	-	-	-	-	14	139	
WOOD												
175	96	18	16	5	1	-	-	-	-	40	100-	
SOLAR HEAT												
5	2	2	-	-	-	-	-	-	-	1	-	
OTHER FUEL												
NONE	136	24	36	40	16	6	2	2	-	10	153	
WATER HEATING FUEL												
NO HOT PIPED WATER												
WITH HOT PIPED WATER	302	199	31	5	5	-	-	-	-	63	100-	
FUEL USED												
UTILITY GAS	7 602	1 017	1 352	1 516	1 478	926	427	182	142	72	511	189
BOTTLED, TANK, OR LP GAS												
265	668	792	734	599	338	176	83	59	34	220	169	
253	48	55	56	30	10	9	2	1	53	53		
KEROSENE, ETC												
5	16	24	57	70	31	20	12	14	3	5	219	
ELECTRICITY												
3 386	273	456	666	774	544	218	84	69	34	228	210	
COAL OR COKE												
5	2	2	-	2	-	-	-	-	-	-	2	
WOOD												
5	2	1	-	-	-	-	-	-	-	-	2	
SOLAR HEAT												
2	-	-	-	-	-	-	-	-	-	-	2	
OTHER FUEL												
NONE	10	3	-	2	1	3	2	-	-	-	3	
NOT REPORTED	8	2	2	-	2	-	-	-	-	-	-	2
COOKING FUEL												
UTILITY GAS	3 495	703	774	726	550	284	156	58	34	17	192	162
BOTTLED, TANK, OR LP GAS												
542	123	113	110	63	19	9	2	1	1	102	142	
4	3	-	-	-	-	-	-	-	-	-	..	
KEROSENE, ETC												
4	1	1	-	-	-	-	-	-	-	3	2	
ELECTRICITY												
3 785	350	467	681	864	621	260	118	107	54	261	215	
COAL OR COKE												
1	-	-	-	-	-	-	-	-	-	1	-	
WOOD											12	..
34	17	3	1	-	-	-	-	-	-	-	3	
OTHER FUEL												
2	1	-	-	-	-	-	-	-	-	-	2	
NONE	37	18	5	3	5	2	-	-	-	-	4	
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN \$10	375	195	78	52	17	4	-	-	2	-	27	100-
\$10 TO \$19	1 398	384	291	170	67	8	11	3	2	114	136	
\$20 TO \$29	1 360	191	358	351	216	76	35	18	16	88	162	
\$30 TO \$39	1 086	77	208	239	271	126	54	13	19	6	73	
\$40 TO \$49	766	24	81	174	203	140	75	19	12	6	34	
\$50 TO \$59	492	6	33	86	128	131	59	19	12	5	33	
\$60 TO \$79	474	5	19	61	104	118	73	33	20	13	264	
\$80 TO \$99	131	-	3	7	17	30	26	12	12	7	300	
\$100 TO \$149	100	-	2	2	13	19	13	11	21	12	8	
\$150 OR MORE	12	-	-	-	-	2	-	1	2	7	-	
INCLUDED IN RENT	1 687	326	232	257	340	212	101	45	22	3	148	190
NO ELECTRICITY USED OR NOT REPORTED	21	8	2	-	2	-	2	2	2	5	-	
MEDIAN	29	16	23	27	36	45	48	54	56	68	27	..
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN \$10	733	168	152	178	124	30	17	9	5	-	50	156
\$10 TO \$19	638	149	143	138	92	40	14	7	13	1	62	152
\$20 TO \$29	553	113	158	96	78	37	22	3	2	2	52	144
\$25 TO \$29	392	55	93	93	64	27	10	5	7	5	33	167
\$30 TO \$39	523	36	90	69	48	21	15	4	4	2	35	163
\$40 TO \$49	424	48	110	100	55	34	15	12	7	5	39	167
\$50 TO \$69	229	14	63	51	33	30	13	7	6	7	24	194
\$70 TO \$99	178	6	27	41	30	13	21	9	7	10	14	215
\$100 OR MORE	37	-	2	7	9	3	5	2	3	6	-	..
INCLUDED IN RENT	21	-	-	1	8	7	1	-	3	3	2	..
NO GAS USED OR NOT REPORTED	2 101	419	308	346	408	274	129	50	22	3	144	186
MEDIAN	2 276	208	240	402	532	411	166	74	65	34	143	220
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN \$100	140	59	25	10	9	9	5	2	3	4	14	108
\$100 TO \$199	155	48	29	30	8	10	5	5	-	22	132	
\$200 TO \$299	146	32	45	32	10	4	5	2	-	17	136	
\$300 TO \$399	147	21	42	28	20	12	7	2	-	15	156	
\$400 TO \$499	73	4	20	11	13	5	6	5	2	5	192	
\$500 TO \$599	46	1	8	10	7	5	2	-	2	10	195	
\$600 TO \$699	41	-	4	9	13	5	4	1	2	5	221	
\$700 TO \$799	15	-	2	2	6	1	2	2	-	1	..	
\$800 OR MORE	24	-	2	3	6	6	2	1	1	4	..	
INCLUDED IN RENT	658	109	129	135	124	75	32	12	9	3	31	178
FUELS NOT USED, FREE, OR NOT REPORTED	6 458	942	1 058	1 252	1 268	795	357	154	126	56	450	189
MEDIAN	267	149	275	283	391	345	356	..	..	..	260	..
HEATING EQUIPMENT												
WARM-AIR FURNACE	3 308	182	259	518	867	683	322	135	107	56	179	234
HEAT PUMP												
159	12	4	22	38	25	17	14	17	1	10	248	
535	72	106	126	127	32	24	16	9	6	17	182	
STEAM OR HOT WATER												
527	49	79	202	147	83	29	6	4	2	24	192	
BUILT-IN ELECTRIC UNITS												
788	115	188	218	115	30	21	5	3	2	55	160	
FLOOR, WALL, OR PIPELESS FURNACE												
798	214	254	156	67	25	2	3	3	3	70	129	
ROOM HEATERS WITH FLUE												
1 163	378	355	177	79	33	8	2	2	2	131	119	
ROOM HEATERS WITHOUT FLUE												
430	169	83	62	26	9	2	2	2	2	78	105	
FIREPLACES, STOVES, OR PORTABLE HEATERS												
136	24	36	40	16	6	2	2	2	2	10	153	

¹EXCLUDES 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: 1978--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	\$100 TO \$199	\$150 TO \$249	\$200 TO \$299	\$250 TO \$349	\$300 TO \$399	\$350 TO \$499	\$400 TO \$499	\$500 OR MORE \$499	NO CASH RENT	MEDIAN (DOL- LARS)
SPECIFIED RENTER OCCUPIED¹--CONTINUED												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT.	136	24	36	40	16	6	2	2	-	-	10	153
WITH HEATING EQUIPMENT.	7 768	1 191	1 327	1 481	1 467	920	425	181	142	72	564	186
NO THERMOSTAT CONTROL.	2 933	822	796	537	341	109	36	17	6	3	266	132
WITH THERMOSTAT CONTROL.	4 816	364	527	939	1 123	810	389	164	135	68	294	219
NOT CLOCK OPERATED.	3 974	285	434	760	945	667	342	142	107	46	245	220
CONSTANT TEMPERATURE SETTING MAINTAINED.	1 395	114	114	257	350	239	132	59	39	12	79	224
TEMPERATURE SETTING IS CHANGED.	2 511	164	315	492	573	417	205	80	68	34	163	217
OCCASIONALLY.	856	58	117	147	207	167	82	19	15	4	41	220
REGULARLY.	1 573	98	192	319	353	247	112	60	51	28	114	217
DON'T KNOW.	73	6	6	22	11	3	12	1	3	2	7	197
NOT REPORTED.	10	2	-	5	2	-	-	-	-	-	2	..
NOT REPORTED.	67	7	5	11	23	11	4	3	1	-	2	220
CLOCK OPERATED.	799	76	88	164	169	140	48	20	28	22	45	214
NOT REPORTED.	43	3	6	15	9	3	-	2	-	-	5	181
NOT REPORTED.	19	5	3	4	3	-	-	-	-	-	4	..
SPECIFIED RENTER OCCUPIED¹.	7 904	1 215	1 363	1 521	1 483	926	427	182	142	72	573	185
UNITS OCCUPIED LAST WINTER.	4 980	976	949	906	755	483	216	92	71	32	460	167
INSUFFICIENT HEAT												
CLOSURE OF ROOMS¹												
WITH HEATING EQUIPMENT.	4 870	966	930	887	747	478	215	91	71	32	455	167
NO ROOMS CLOSED.	4 319	846	785	798	687	439	208	83	65	30	378	171
CLOSED CERTAIN ROOMS.	476	112	130	76	45	32	5	6	5	-	65	135
LIVING ROOM ONLY.	40	6	10	6	7	-	-	-	-	-	10	..
DINING ROOM ONLY.	8	2	1	4	-	-	-	1	-	-	-	..
1 OR MORE BEDROOMS ONLY.	323	80	86	54	25	25	3	2	3	-	45	134
OTHER ROOMS OR COMBINATION OF ROOMS.	103	25	31	12	10	8	1	3	2	-	10	133
NOT REPORTED.	3	-	1	-	2	-	-	-	-	-	-	..
NOT REPORTED.	75	8	15	13	15	6	2	2	1	2	12	183
NO HEATING EQUIPMENT.	70	10	19	19	9	5	2	2	2	-	6	159
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT² .	3 734	527	638	743	692	454	208	91	71	32	278	187
NO ADDITIONAL HEAT SOURCE USED.	3 215	440	535	627	605	401	186	81	67	26	246	190
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	482	85	100	109	74	48	21	7	3	4	29	168
NOT REPORTED.	36	2	3	7	12	5	2	2	1	2	3	..
LACKING SPECIFIED HEATING EQUIPMENT OR NONE .	1 207	449	311	164	64	28	8	2	-	-	182	110
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT² .	3 734	527	638	743	692	454	208	91	71	32	278	187
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 592	299	315	497	569	392	188	80	64	28	160	209
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 086	223	318	235	111	50	19	9	6	2	113	141
1 ROOM.	264	63	63	58	29	12	3	6	5	2	24	..
2 ROOMS.	316	65	116	61	26	3	7	2	-	-	36	132
3 ROOMS OR MORE.	505	95	139	116	56	35	9	1	2	-	52	146
NOT REPORTED.	56	6	5	10	11	12	2	2	1	-	6	218
LACKING SPECIFIED HEATING EQUIPMENT OR NONE .	1 207	449	311	164	64	28	8	2	-	-	182	110
SPECIFIED RENTER OCCUPIED¹.	7 904	1 215	1 363	1 521	1 483	926	427	182	142	72	573	185
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	566	193	119	102	42	16	4	2	-	2	87	119
WITH SELECTED HEATING EQUIPMENT ³ .	7 338	1 022	1 244	1 419	1 481	910	423	181	142	70	486	190
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	7 033	970	1 170	1 351	1 404	876	417	176	139	67	462	192
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	251	46	58	30	26	4	3	2	2	17	158	
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	21	10	4	4	-	1	-	-	-	-	2	..
FIREPLACE, BURNING WOOD OR COAL.	3	-	1	1	-	-	-	-	-	-	1	..
PORTABLE ELECTRIC HEATER.	157	17	39	39	21	23	4	2	2	2	8	173
ROOM HEATER WITHOUT FLUE OR VENT.	-	-	-	-	-	-	-	-	-	-	-	-
BURNING GAS, OIL, OR KEROSENE.	46	17	13	8	3	1	-	2	-	-	3	119
OTHER.	23	2	5	6	5	2	-	-	-	-	3	..
NOT REPORTED.	1	-	-	1	-	1	-	-	-	-	-	..
NOT REPORTED.	54	7	12	10	7	9	2	2	-	-	7	174
AIR CONDITIONING												
WITH AIR CONDITIONING.	5 013	301	580	993	1 222	839	396	176	134	69	304	219
ROOM UNITS.	2 346	235	499	656	417	198	63	41	15	4	198	175
1.	1 737	214	421	509	286	105	35	23	8	2	134	166
2.	500	16	69	134	111	75	40	6	3	-	45	204
3.	88	5	8	12	14	17	5	10	2	-	13	242
4.	15	-	1	2	6	1	2	2	-	-	3	..
5 OR MORE.	5	-	-	-	-	-	-	2	-	-	2	..
CENTRAL SYSTEM.	2 667	66	80	336	805	642	313	134	119	65	106	249
WITH NO AIR CONDITIONING.	2 891	914	784	528	261	87	31	7	7	2	269	125

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

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

³EXCLUDES 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: 1978--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 (DOL- LARS)
SPECIFIED RENTER OCCUPIED ¹	7 904	1 215	1 363	1 521	1 483	926	427	182	142	72	573	185
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 598	620	700	657	470	305	159	75	73	53	485	168
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	534	45	79	108	60	60	26	22	16	16	102	192
SOME WINDOWS COVERED	283	33	50	53	37	20	20	12	8	9	41	185
NO WINDOWS COVERED	2 675	518	548	478	359	213	109	37	47	29	358	160
NOT REPORTED	106	24	23	19	14	12	5	3	2	-	4	160
STORM DOORS												
ALL DOORS COVERED	487	32	71	108	62	44	24	21	11	10	103	190
SOME DOORS COVERED	371	26	76	61	53	26	21	14	10	14	69	189
NO DOORS COVERED	2 614	531	528	467	338	222	107	37	48	29	306	160
NOT REPORTED	126	31	25	21	16	13	6	3	4	-	7	159
ATTIC OR ROOF INSULATION												
YES	1 279	75	206	209	189	153	99	45	46	35	223	210
NO	1 318	399	311	205	108	57	16	12	9	11	191	126
DON'T KNOW	879	118	159	219	158	83	39	15	16	7	65	179
NOT REPORTED	121	28	24	24	15	12	6	3	2	-	7	161

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

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978
(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:	25 094	18 584	2 021	1 040	864	957	1 627
HOUSE HEATING FUEL							
OWNER OCCUPIED.	16 885	15 025	311	69	43	154	1 284
UTILITY GAS	7 997	7 456	154	26	10	13	336
BOTTLED, TANK, OR LP GAS.	1 785	1 346	7	-	-	-	432
FUEL OIL.	2 113	1 876	42	4	3	6	182
KEROSENE, ETC	179	140	3	2	-	-	35
ELECTRICITY	4 275	3 694	98	37	28	135	284
COAL OR COKE.	90	86	3	-	-	-	1
WOOD.	381	368	3	-	-	-	10
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	5	5	-	-	-	-	-
NONE.	60	54	-	-	2	-	5
RENTER OCCUPIED	8 208	3 558	1 711	972	821	803	343
UTILITY GAS	3 959	1 873	984	418	345	222	117
BOTTLED, TANK, OR LP GAS.	512	378	38	2	1	-	92
FUEL OIL.	867	398	169	87	61	92	60
KEROSENE, ETC	104	79	11	2	2	-	11
ELECTRICITY	2 285	450	456	449	398	472	60
COAL OR COKE.	83	66	11	-	3	3	-
WOOD.	253	237	11	2	-	-	3
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	5	2	-	-	2	2	-
NONE.	138	74	30	12	9	12	1
WATER HEATING FUEL							
OWNER OCCUPIED.	16 885	15 025	311	69	43	154	1 284
NO HOT PIPED WATER.	298	281	3	-	-	-	15
WITH HOT PIPED WATER.	16 588	14 745	308	69	43	154	1 269
FUEL USED:							
UTILITY GAS	6 943	6 560	144	35	9	16	179
BOTTLED, TANK, OR LP GAS.	1 076	891	8	-	-	-	177
FUEL OIL.	265	230	11	2	4	14	5
KEROSENE, ETC	10	10	-	-	-	-	1
ELECTRICITY	8 259	7 025	143	32	30	124	905
COAL OR COKE.	5	5	-	-	-	-	-
WOOD.	8	7	2	-	-	-	-
SOLAR HEAT.	9	7	2	-	-	-	-
OTHER FUEL.	2	1	-	-	-	-	1
NONE.	9	8	-	-	-	-	2
NOT REPORTED.	-	-	-	-	-	-	-
RENTER OCCUPIED	8 208	3 558	1 711	972	821	803	343
NO HOT PIPED WATER.	385	349	29	-	3	-	5
WITH HOT PIPED WATER.	7 824	3 210	1 682	972	819	803	339
FUEL USED:							
UTILITY GAS	3 740	1 647	938	452	372	265	67
BOTTLED, TANK, OR LP GAS.	323	231	32	7	5	7	43
FUEL OIL.	256	37	59	37	48	73	1
KEROSENE, ETC	5	4	1	-	-	-	-
ELECTRICITY	3 465	1 275	651	472	388	452	227
COAL OR COKE.	6	1	-	-	3	2	-
WOOD.	7	7	-	-	-	-	-
SOLAR HEAT.	2	2	-	-	-	-	-
OTHER FUEL.	10	1	-	-	3	5	-
NONE.	10	6	2	2	-	-	-
NOT REPORTED.	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED.	16 885	15 025	311	69	43	154	1 284
UTILITY GAS	4 717	4 260	107	22	10	18	299
BOTTLED, TANK, OR LP GAS.	1 777	1 218	11	1	-	-	547
FUEL OIL.	10	10	-	-	-	-	-
KEROSENE, ETC	4	4	-	-	-	-	-
ELECTRICITY	10 298	9 457	190	46	32	136	436
COAL OR COKE.	9	9	-	-	-	-	-
WOOD.	62	60	2	-	-	-	1
OTHER FUEL.	1	-	-	-	-	-	1
NONE.	9	7	1	-	-	-	1
RENTER OCCUPIED	8 208	3 558	1 711	972	821	803	343
UTILITY GAS	3 525	1 503	854	420	346	282	121
BOTTLED, TANK, OR LP GAS.	645	435	55	8	2	5	140
FUEL OIL.	5	3	-	-	-	2	-
KEROSENE, ETC	5	4	1	-	-	-	-
ELECTRICITY	3 936	1 551	792	535	471	504	82
COAL OR COKE.	1	1	-	-	-	-	-
WOOD.	48	44	3	-	-	2	-
OTHER FUEL.	3	2	-	-	-	2	-
NONE.	41	17	6	8	3	7	-

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
 (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								
LESS THAN \$10	13 447	13 447	NA	NA	NA	NA	NA	
\$10 TO \$19	127	127	NA	NA	NA	NA	NA	
\$20 TO \$29	1 181	1 181	NA	NA	NA	NA	NA	
\$30 TO \$39	2 093	2 093	NA	NA	NA	NA	NA	
\$40 TO \$49	2 271	2 271	NA	NA	NA	NA	NA	
\$50 TO \$59	1 818	1 818	NA	NA	NA	NA	NA	
\$60 TO \$79	1 814	1 814	NA	NA	NA	NA	NA	
\$80 TO \$99	2 210	2 210	NA	NA	NA	NA	NA	
\$100 TO \$149	936	936	NA	NA	NA	NA	NA	
\$150 OR MORE	811	811	NA	NA	NA	NA	NA	
NO ELECTRICITY USED OR NOT REPORTED	175	175	NA	NA	NA	NA	NA	
MEDIAN.	12	12	NA	NA	NA	NA	NA	
	45	45	NA	NA	NA	NA	NA	
SPECIFIED RENTER OCCUPIED ²	7 904	3 254	1 711	972	821	803	343	
LESS THAN \$10	375	137	138	36	40	17	8	
\$10 TO \$19	1 398	699	372	112	98	66	52	
\$20 TO \$29	1 360	692	277	125	105	92	70	
\$30 TO \$39	1 088	549	230	96	102	55	55	
\$40 TO \$49	766	311	173	92	82	78	29	
\$50 TO \$59	492	229	86	68	47	39	24	
\$60 TO \$79	474	249	86	36	38	39	26	
\$80 TO \$99	131	71	18	13	7	10	13	
\$100 TO \$149	100	61	10	7	1	5	15	
\$150 OR MORE	12	10	-	-	-	-	1	
INCLUDED IN RENT.	1 687	235	318	385	301	399	48	
NO ELECTRICITY USED OR NOT REPORTED	21	12	3	2	-	3	2	
MEDIAN.	29	29	26	32	32	34	33	
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS								
SPECIFIED OWNER OCCUPIED ¹	13 447	13 447	NA	NA	NA	NA	NA	
LESS THAN \$10	809	809	NA	NA	NA	NA	NA	
\$10 TO \$14	954	954	NA	NA	NA	NA	NA	
\$15 TO \$19	1 129	1 129	NA	NA	NA	NA	NA	
\$20 TO \$24	1 370	1 370	NA	NA	NA	NA	NA	
\$25 TO \$29	1 038	1 038	NA	NA	NA	NA	NA	
\$30 TO \$39	1 587	1 587	NA	NA	NA	NA	NA	
\$40 TO \$49	985	985	NA	NA	NA	NA	NA	
\$50 TO \$69	836	836	NA	NA	NA	NA	NA	
\$70 TO \$99	206	206	NA	NA	NA	NA	NA	
\$100 OR MORE	68	68	NA	NA	NA	NA	NA	
NO GAS USED OR NOT REPORTED	4 463	4 463	NA	NA	NA	NA	NA	
MEDIAN.	26	26	NA	NA	NA	NA	NA	
SPECIFIED RENTER OCCUPIED ²	7 904	3 254	1 711	972	821	803	343	
LESS THAN \$10	733	324	209	60	47	25	68	
\$10 TO \$14	638	381	157	39	32	9	20	
\$15 TO \$19	553	323	138	31	15	8	38	
\$20 TO \$24	392	262	81	15	9	2	23	
\$25 TO \$29	323	198	75	13	10	7	21	
\$30 TO \$39	424	307	81	16	5	1	16	
\$40 TO \$49	229	174	32	4	3	-	14	
\$50 TO \$69	178	149	16	2	2	-	9	
\$70 TO \$99	37	33	2	2	-	-	-	
\$100 OR MORE	21	12	6	-	-	-	3	
INCLUDED IN RENT.	2 101	357	454	433	390	395	72	
NO GAS USED OR NOT REPORTED	2 276	733	460	357	309	357	60	
MEDIAN.	18	21	16	13	12	10	17	
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.								
SPECIFIED OWNER OCCUPIED ¹	13 447	13 447	NA	NA	NA	NA	NA	
LESS THAN \$100	627	627	NA	NA	NA	NA	NA	
\$100 TO \$199	412	412	NA	NA	NA	NA	NA	
\$200 TO \$299	444	444	NA	NA	NA	NA	NA	
\$300 TO \$399	411	411	NA	NA	NA	NA	NA	
\$400 TO \$499	253	253	NA	NA	NA	NA	NA	
\$500 TO \$599	189	189	NA	NA	NA	NA	NA	
\$600 TO \$699	143	143	NA	NA	NA	NA	NA	
\$700 TO \$799	53	53	NA	NA	NA	NA	NA	
\$800 OR MORE	79	79	NA	NA	NA	NA	NA	
FUELS NOT USED, FREE, OR NOT REPORTED	10 834	10 834	NA	NA	NA	NA	NA	
MEDIAN.	259	259	NA	NA	NA	NA	NA	

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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	7 904	3 254	1 711	972	821	803	343	
LESS THAN \$100.	140	99	26	5	5	2	3	
\$100 TO \$199.	155	127	10	2	2	-	14	
\$200 TO \$299.	146	103	26	1	-	-	17	
\$300 TO \$399.	147	112	20	-	-	2	14	
\$400 TO \$499.	73	58	5	-	-	-	10	
\$500 TO \$599.	46	42	2	-	-	-	3	
\$600 TO \$699.	41	39	-	-	-	-	2	
\$700 TO \$799.	15	15	-	-	-	-	-	
\$800 OR MORE.	24	24	-	-	-	-	-	
INCLUDED IN RENT.	658	138	170	107	111	106	26	
FUELS NOT USED, FREE, OR NOT REPORTED	6 458	2 497	1 452	858	703	694	254	
MEDIAN.	267	280	230	***	***	***	287	
ALL OCCUPIED HOUSING UNITS.								
HEATING EQUIPMENT								
OWNER OCCUPIED.	16 885	15 025	311	69	43	154	1 284	
WARM-AIR FURNACE.	9 133	7 734	115	42	31	115	1 096	
HEAT PUMP	564	538	4	3	1	14	4	
STEAM OR HOT WATER.	505	462	32	2	-	5	3	
BUILT-IN ELECTRIC UNITS	1 345	1 214	41	13	7	18	52	
FLOOR, WALL, OR PIPELESS FURNACE.	1 430	1 362	28	-	-	-	39	
ROOM HEATERS WITH FLUE.	1 256	1 188	36	3	-	-	30	
ROOM HEATERS WITHOUT FLUE	1 674	1 612	35	4	-	-	23	
FIREPLACES, STOVES, OR PORTABLE HEATERS	919	861	20	2	2	2	33	
NONE.	60	54	-	-	2	-	5	
RENTER OCCUPIED	8 208	3 558	1 711	972	821	803	343	
WARM-AIR FURNACE.	3 341	874	512	603	571	523	257	
HEAT PUMP	160	27	29	18	27	57	2	
STEAM OR HOT WATER.	539	87	162	113	70	107	-	
BUILT-IN ELECTRIC UNITS	639	175	193	80	93	79	19	
FLOOR, WALL, OR PIPELESS FURNACE.	765	439	214	68	17	7	20	
ROOM HEATERS WITH FLUE.	849	545	223	37	21	11	12	
ROOM HEATERS WITHOUT FLUE	1 233	874	292	35	11	-	21	
FIREPLACES, STOVES, OR PORTABLE HEATERS	545	463	55	5	4	6	12	
NONE.	138	74	30	12	9	12	1	
THERMOSTAT CONTROLLED HEATING EQUIPMENT								
OWNER OCCUPIED.	16 885	15 025	311	69	43	154	1 284	
NO HEATING EQUIPMENT.	60	54	-	-	2	-	5	
WITH HEATING EQUIPMENT.	16 825	14 972	311	69	41	154	1 279	
NO THERMOSTAT CONTROL	3 616	3 409	94	10	11	16	77	
WITH THERMOSTAT CONTROL	13 160	11 519	215	57	30	138	1 200	
NOT CLOCK OPERATED	10 853	9 569	176	48	28	105	927	
CONSTANT TEMPERATURE SETTING MAINTAINED	3 198	2 802	68	13	11	22	282	
TEMPERATURE SETTING IS CHANGED	7 579	6 702	108	34	16	81	638	
OCCASIONALLY.	2 297	2 021	42	8	7	30	189	
REGULARLY.	5 164	4 576	63	25	9	48	443	
DON'T KNOW.	102	93	3	-	-	2	5	
NOT REPORTED.	16	12	-	1	-	2	2	
NOT REPORTED.	77	65	-	2	1	2	7	
CLOCK OPERATED.	2 245	1 893	40	9	2	33	268	
NOT REPORTED.	62	56	-	-	-	-	5	
NOT REPORTED.	50	44	2	2	-	-	2	
RENTER OCCUPIED	8 208	3 558	1 711	972	821	803	343	
NO HEATING EQUIPMENT.	138	74	30	12	9	12	1	
WITH HEATING EQUIPMENT.	8 070	3 485	1 680	959	812	791	343	
NO THERMOSTAT CONTROL	3 157	1 810	761	223	152	171	40	
WITH THERMOSTAT CONTROL	4 891	1 661	917	734	658	619	302	
NOT CLOCK OPERATED	4 040	1 396	755	617	562	473	235	
CONSTANT TEMPERATURE SETTING MAINTAINED	1 419	487	241	218	216	177	80	
TEMPERATURE SETTING IS CHANGED	2 553	886	501	393	338	285	151	
OCCASIONALLY.	872	264	186	131	126	121	43	
REGULARLY.	1 598	585	299	253	206	150	104	
DON'T KNOW.	73	30	16	8	5	12	3	
NOT REPORTED.	10	7	-	2	-	2	-	
CLOCK OPERATED.	68	24	14	6	9	12	4	
NOT REPORTED.	808	250	156	103	88	145	67	
NOT REPORTED.	43	15	6	13	7	2	-	
NOT REPORTED.	23	14	2	3	3	-	1	

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

TABLE D-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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					MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE	
ALL OCCUPIED HOUSING UNITS.	25 094	18 584	2 021	1 040	864	957	1 627
UNITS OCCUPIED LAST WINTER.	20 354	16 089	1 345	611	491	638	1 180
INSUFFICIENT HEAT							
CLOSURE OF ROOMS:							
OWNER OCCUPIED.	15 170	13 661	262	40	33	132	1 041
WITH HEATING EQUIPMENT.	15 123	13 620	262	40	32	132	1 037
NO ROOMS CLOSED.	14 095	12 663	241	38	31	127	995
CLOSED CERTAIN ROOMS.	893	849	19	-	1	2	23
LIVING ROOM ONLY.	45	43	2	-	-	-	-
DINING ROOM ONLY.	14	12	1	-	-	-	-
1 OR MORE BEDROOMS ONLY.	582	548	13	-	1	2	18
OTHER ROOMS OR COMBINATION OF ROOMS.	243	235	3	-	-	-	5
NOT REPORTED.	10	10	-	-	-	-	-
NOT REPORTED.	135	109	2	2	-	3	19
NO HEATING EQUIPMENT.	47	41	-	-	2	-	5
RENTER OCCUPIED.	5 183	2 428	1 082	571	458	506	139
WITH HEATING EQUIPMENT.	5 112	2 396	1 063	565	453	497	138
NO ROOMS CLOSED.	4 510	1 970	951	524	441	490	133
CLOSED CERTAIN ROOMS.	526	387	87	33	10	3	5
LIVING ROOM ONLY.	40	19	13	8	-	-	-
DINING ROOM ONLY.	8	8	-	1	-	-	-
1 OR MORE BEDROOMS ONLY.	361	268	56	19	10	3	5
OTHER ROOMS OR COMBINATION OF ROOMS.	113	91	16	5	1	-	-
NOT REPORTED.	3	1	2	-	-	-	-
NOT REPORTED.	77	39	25	8	2	3	1
NO HEATING EQUIPMENT.	71	32	19	6	5	9	1
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED.	15 170	13 661	262	40	33	132	1 041
WITH SPECIFIED HEATING EQUIPMENT ¹	12 639	11 244	211	34	30	131	989
NO ADDITIONAL HEAT SOURCE USED.	11 427	10 169	186	25	25	122	899
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	1 110	998	23	8	5	5	71
NOT REPORTED.	103	76	2	2	-	3	19
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	2 531	2 417	51	6	3	2	52
RENTER OCCUPIED.	5 183	2 428	1 082	571	458	506	139
WITH SPECIFIED HEATING EQUIPMENT ¹	3 821	1 388	835	535	446	494	123
NO ADDITIONAL HEAT SOURCE USED.	3 289	1 130	736	467	400	445	111
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	496	238	92	62	44	47	12
NOT REPORTED.	36	19	7	6	2	2	1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	1 362	1 040	247	35	12	12	15
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED.	15 170	13 661	262	40	33	132	1 041
WITH SPECIFIED HEATING EQUIPMENT ¹	12 639	11 244	211	34	30	131	989
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	9 449	8 205	155	28	22	122	918
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 044	2 931	52	5	6	5	44
1 ROOM.	716	683	9	2	2	-	21
2 ROOMS.	705	673	18	2	3	-	9
3 ROOMS OR MORE.	1 623	1 576	25	2	2	5	14
NOT REPORTED.	146	108	4	2	2	3	27
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	2 531	2 417	51	6	3	2	52
RENTER OCCUPIED.	5 183	2 428	1 082	571	458	506	139
WITH SPECIFIED HEATING EQUIPMENT ¹	3 821	1 388	835	535	446	494	123
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 628	693	531	429	396	466	114
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 135	667	291	97	45	26	9
1 ROOM.	266	132	86	23	18	5	2
2 ROOMS.	334	181	105	22	8	14	4
3 ROOMS OR MORE.	536	354	101	52	19	7	3
NOT REPORTED.	57	28	13	9	5	2	1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	1 362	1 040	247	35	12	12	15

¹EXCLUDES 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: 1978--CONTINUED
(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.	25 094	18 584	2 021	1 040	864	957	1 627
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED.							
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	16 885	15 025	311	69	43	154	1 284
WITH SELECTED HEATING EQUIPMENT ¹ .	979	915	20	2	3	2	37
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	15 907	14 110	291	67	39	152	1 247
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	15 002	13 276	281	63	38	149	1 196
SOLAR HEATING EQUIPMENT.	826	761	8	4	2	3	47
STOVE, BURNING WOOD OR COAL.	239	230	1	-	-	-	8
FIREPLACE, BURNING WOOD OR COAL.	109	106	-	-	-	-	3
PORTABLE ELECTRIC HEATER.	244	210	8	2	2	3	19
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	77	70	-	-	-	-	7
OTHER.	148	139	-	2	-	-	7
NOT REPORTED.	14	12	-	-	-	-	2
NOT REPORTED.	79	73	2	-	-	-	4
RENTER OCCUPIED.	8 208	3 558	1 711	972	821	803	343
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	683	537	85	17	13	18	12
WITH SELECTED HEATING EQUIPMENT ¹ .	7 525	3 022	1 625	954	808	784	351
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	7 202	2 845	1 558	929	785	767	317
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	268	157	50	16	17	16	12
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	29	26	2	-	-	-	1
FIREPLACE, BURNING WOOD OR COAL.	4	4	-	-	-	-	-
PORTABLE ELECTRIC HEATER.	160	71	36	16	12	16	9
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	49	39	9	-	-	-	1
OTHER.	25	17	4	-	3	-	-
NOT REPORTED.	1	-	-	-	1	-	-
NOT REPORTED.	56	20	17	9	6	2	2
AIR CONDITIONING							
OWNER OCCUPIED.	16 885	15 025	311	69	43	154	1 284
WITH AIR CONDITIONING.	12 912	11 433	235	65	43	152	985
ROOM UNITS.	6 012	5 315	142	14	11	21	508
1.	3 469	2 951	78	12	4	9	414
2.	1 811	1 669	37	1	7	8	89
3.	533	505	22	-	-	3	2
4.	141	134	3	2	-	-	2
5 OR MORE.	57	56	1	-	-	-	-
CENTRAL SYSTEM.	6 900	6 117	93	50	32	131	476
WITH NO AIR CONDITIONING.	3 973	3 592	76	4	-	2	299
RENTER OCCUPIED.	8 208	3 558	1 711	972	821	803	343
WITH AIR CONDITIONING.	5 117	1 697	969	748	709	752	242
ROOM UNITS.	2 432	1 232	566	195	138	146	156
1.	1 797	842	466	139	115	111	123
2.	521	311	89	46	14	29	33
3.	93	61	9	8	9	5	1
4.	15	13	-	2	-	-	-
5 OR MORE.	5	4	2	-	-	-	-
CENTRAL SYSTEM.	2 685	465	403	554	571	606	86
WITH NO AIR CONDITIONING.	3 091	1 861	742	223	112	51	101

¹EXCLUDES 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: 1978

(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.	25 094	222	526	2 386	5 152	6 673	5 234	4 901	5.1
HOUSE HEATING FUEL									
OWNER OCCUPIED.	16 885	27	103	499	2 399	4 957	4 405	4 496	5.6
UTILITY GAS.	7 997	5	28	171	1 033	2 295	2 193	2 271	5.7
BOTTLED, TANK, OR LP GAS.	1 785	9	28	118	420	582	397	231	5.0
FUEL OIL.	2 113	1	10	44	272	563	559	663	5.8
KEROSENE, ETC.	179	-	2	10	51	60	37	21	4.9
ELECTRICITY.	4 275	9	27	127	517	1 280	1 091	1 224	5.7
COAL OR COKE.	90	-	2	5	16	29	25	14	5.3
WOOD.	381	3	1	19	76	134	87	62	5.2
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	5	-	-	-	1	2	2	2	2
NONE.	60	-	6	6	13	13	14	8	4.9
RENTER OCCUPIED	8 208	195	422	1 887	2 753	1 716	829	405	4.1
UTILITY GAS.	3 959	90	164	883	1 286	923	425	189	4.1
BOTTLED, TANK, OR LP GAS.	512	7	9	83	171	123	78	42	4.4
FUEL OIL.	867	31	42	173	259	170	119	73	4.2
KEROSENE, ETC.	104	1	6	13	27	30	18	10	4.7
ELECTRICITY.	2 285	41	160	647	858	377	137	65	3.8
COAL OR COKE.	83	2	13	15	27	13	7	7	3.9
WOOD.	253	6	8	36	90	56	40	18	4.4
SOLAR HEAT.	-	-	-	-	-	-	-	-	-
OTHER FUEL.	5	2	-	2	1	-	-	-	2
NONE.	138	16	21	36	34	23	7	2	3.4
WATER HEATING FUEL									
OWNER OCCUPIED.	16 885	27	103	499	2 399	4 957	4 405	4 496	5.6
NO HOT PIPED WATER.	298	2	10	39	98	76	54	20	4.5
WITH HOT PIPED WATER.	16 588	24	94	460	2 301	4 881	4 351	4 476	5.6
FUEL USED:									
UTILITY GAS.	6 943	6	20	136	822	1 972	1 959	2 027	5.8
BOTTLED, TANK, OR LP GAS.	1 076	8	14	56	214	375	265	144	5.1
FUEL OIL.	265	-	-	9	21	41	70	125	6.4
KEROSENE, ETC.	10	-	-	-	1	3	2	5	5
ELECTRICITY.	8 259	10	58	259	1 239	2 482	2 049	2 162	5.5
COAL OR COKE.	5	-	-	-	-	2	2	2	2
WOOD.	8	-	-	-	1	2	2	3	3
SOLAR HEAT.	9	-	-	-	4	1	-	5	5
OTHER FUEL.	2	-	-	-	-	1	1	1	1
NONE.	9	1	1	-	1	3	2	2	2
NOT REPORTED.	-	-	-	-	-	-	-	-	-
RENTER OCCUPIED	8 208	195	422	1 887	2 753	1 716	829	405	4.1
NO HOT PIPED WATER.	385	15	28	84	145	61	39	13	3.9
WITH HOT PIPED WATER.	7 824	181	395	1 803	2 608	1 655	790	392	4.1
FUEL USED:									
UTILITY GAS.	3 740	84	164	868	1 202	851	397	173	4.1
BOTTLED, TANK, OR LP GAS.	323	10	6	47	101	87	44	27	4.5
FUEL OIL.	256	17	24	81	75	33	18	9	3.6
KEROSENE, ETC.	5	-	1	-	2	2	-	1	1
ELECTRICITY.	3 465	65	196	802	1 217	678	326	181	4.0
COAL OR COKE.	6	2	2	2	-	-	1	1	1
WOOD.	7	-	-	-	4	1	1	1	1
SOLAR HEAT.	2	-	-	-	-	2	-	-	-
OTHER FUEL.	10	-	2	2	4	2	1	-	-
NONE.	10	2	-	3	3	-	1	-	-
NOT REPORTED.	-	-	-	-	-	-	-	-	-
COOKING FUEL									
OWNER OCCUPIED.	16 885	27	103	499	2 399	4 957	4 405	4 496	5.6
UTILITY GAS.	4 717	5	21	151	814	1 489	1 259	979	5.4
BOTTLED, TANK, OR LP GAS.	1 777	10	35	156	474	567	344	191	4.9
FUEL OIL.	10	-	-	-	1	3	3	2	2
KEROSENE, ETC.	4	-	-	-	2	1	2	-	-
ELECTRICITY.	10 298	11	45	186	1 088	2 876	2 781	3 310	5.8
COAL OR COKE.	9	-	-	-	1	3	2	4	4
WOOD.	62	1	1	5	18	14	15	9	5.0
OTHER FUEL.	1	-	-	-	-	1	-	-	-
NONE.	9	-	1	2	2	3	1	-	-
RENTER OCCUPIED	8 208	195	422	1 887	2 753	1 716	829	405	4.1
UTILITY GAS.	3 525	79	190	841	1 179	777	329	131	4.0
BOTTLED, TANK, OR LP GAS.	645	8	18	126	239	151	66	37	4.2
FUEL OIL.	5	-	1	2	3	-	-	-	-
KEROSENE, ETC.	5	-	-	1	2	2	1	-	-
ELECTRICITY.	3 936	84	205	908	1 306	777	423	232	4.1
COAL OR COKE.	1	-	-	-	1	-	-	-	-
WOOD.	48	1	4	9	16	7	7	5	4.1
OTHER FUEL.	3	-	-	-	2	2	-	-	-
NONE.	41	24	5	2	7	1	3	-	1.5-

TABLE D-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$10	13 447	11	48	167	1 400	3 988	3 845	3 988	5.8
\$10 TO \$19.	127	-	2	12	45	35	13	19	4.6
\$20 TO \$29.	1 181	-	7	65	276	423	242	168	5.1
\$30 TO \$39.	2 093	3	5	37	328	722	633	366	5.4
\$40 TO \$49.	2 271	2	10	21	291	737	662	548	5.6
\$50 TO \$59.	1 818	2	11	11	164	602	545	482	5.7
\$60 TO \$79.	1 814	2	3	7	144	562	532	563	5.8
\$80 TO \$99.	2 210	-	5	6	92	565	712	829	6.1
\$100 TO \$149.	936	1	2	3	31	185	281	433	6.4
\$150 OR MORE.	811	-	1	2	21	136	197	453	6.5+
NO ELECTRICITY USED OR NOT REPORTED	175	-	2	1	4	18	27	123	6.5+
MEDIAN.	12	1	-	1	4	2	1	2	...
	45	...	40	21	32	41	46	57	...
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	7 904	192	419	1 871	2 675	1 637	754	357	4.0
\$10 TO \$19.	375	8	43	140	127	36	18	2	3.5
\$20 TO \$29.	1 398	22	72	413	504	261	95	32	3.9
\$30 TO \$39.	1 360	7	71	319	461	313	144	45	4.1
\$40 TO \$49.	1 088	4	37	205	394	238	146	63	4.3
\$50 TO \$59.	766	6	13	144	285	187	80	51	4.3
\$60 TO \$79.	492	1	5	87	177	133	59	31	4.4
\$80 TO \$99.	474	1	5	50	152	138	81	48	4.7
\$100 TO \$149.	131	-	-	9	44	40	19	19	4.8
\$150 OR MORE.	100	1	2	9	15	31	23	20	5.3
INCLUDED IN RENT.	12	-	-	-	1	5	1	5	...
NO ELECTRICITY USED OR NOT REPORTED	21	3	2	2	9	2	-	2	...
MEDIAN.	29	17	21	24	29	33	35	43	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$10	13 447	11	48	167	1 400	3 988	3 845	3 988	5.8
\$10 TO \$14.	809	-	5	32	154	253	188	176	5.3
\$15 TO \$19.	954	-	2	24	132	332	254	210	5.4
\$20 TO \$24.	1 129	-	4	24	174	398	291	238	5.4
\$25 TO \$29.	1 370	-	4	13	163	442	444	305	5.6
\$30 TO \$39.	1 038	3	10	11	124	311	313	266	5.7
\$40 TO \$49.	1 587	1	1	19	132	444	490	501	5.9
\$50 TO \$69.	985	2	1	6	86	235	273	381	6.1
\$70 TO \$99.	836	-	2	7	46	155	243	383	6.3
\$100 OR MORE.	206	-	1	2	10	40	79	75	6.1
NO GAS USED OR NOT REPORTED	68	-	-	1	8	13	13	34	6.5
MEDIAN.	4 463	5	18	28	371	1 364	1 256	1 421	5.8
	26	...	17	21	23	27	32	...	...
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	7 904	192	419	1 871	2 675	1 637	754	357	4.0
\$10 TO \$14.	733	6	50	223	248	124	65	17	3.8
\$15 TO \$19.	638	4	17	140	227	155	66	28	4.2
\$20 TO \$24.	553	5	19	131	186	137	54	21	4.1
\$25 TO \$29.	392	-	2	81	129	109	56	16	4.4
\$30 TO \$39.	323	1	3	47	105	103	43	23	4.6
\$40 TO \$49.	424	-	12	58	154	92	69	39	4.4
\$50 TO \$69.	229	2	-	32	49	62	50	33	5.0
\$70 TO \$99.	178	-	-	17	44	53	37	26	5.0
\$100 OR MORE.	37	-	-	-	8	5	15	8	5.8
INCLUDED IN RENT.	21	-	-	5	6	7	-	3	...
NO GAS USED OR NOT REPORTED	2 101	129	185	557	695	367	119	51	3.8
MEDIAN.	2 276	46	130	580	824	422	181	93	4.0
	18	...	10	15	17	20	23	31	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$100.	13 447	11	48	167	1 400	3 988	3 845	3 988	5.8
\$100 TO \$199.	627	-	2	10	52	140	160	263	6.2
\$200 TO \$299.	412	-	2	5	54	102	119	131	5.9
\$300 TO \$399.	444	2	-	4	62	139	133	103	5.6
\$400 TO \$499.	411	-	1	6	42	135	103	125	5.7
\$500 TO \$599.	253	-	2	2	20	55	95	79	6.0
\$600 TO \$699.	189	-	-	1	5	37	61	85	6.3
\$700 TO \$799.	143	-	2	-	3	29	32	78	6.5+
\$800 OR MORE.	53	1	-	-	1	7	15	29	6.5+
FUELS NOT USED, FREE, OR NOT REPORTED	79	-	-	-	1	11	17	49	6.5+
MEDIAN.	10 834	9	40	139	1 160	3 331	3 110	3 045	5.7
	259	...	...	...	222	261	266	274	...

¹LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.²EXCLUDES 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: 1978--CONTINUED

(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	7 904	192	419	1 871	2 675	1 637	754	357	4.0
LESS THAN \$100.	140	2	12	21	42	27	20	15	4.3
\$100 TO \$199.	155	2	2	25	55	41	21	8	4.4
\$200 TO \$299.	146	-	5	26	61	29	12	12	4.2
\$300 TO \$399.	147	-	4	12	42	38	33	18	4.9
\$400 TO \$499.	73	1	-	4	17	23	20	8	5.1
\$500 TO \$599.	46	-	-	3	8	15	14	5	5.3
\$600 TO \$699.	41	-	-	3	7	7	13	11	5.8
\$700 TO \$799.	15	-	-	2	3	3	4	3	...
\$800 OR MORE.	24	-	-	1	5	8	5	5	...
INCLUDED IN RENT.	658	41	44	209	187	123	44	11	3.7
FUELS NOT USED, FREE, OR NOT REPORTED	6 458	146	353	1 565	2 246	1 321	569	259	4.0
MEDIAN.	267	...	...	211	237	294	352	342	...
ALL OCCUPIED HOUSING UNITS.	25 094	222	526	2 386	5 152	6 673	5 234	4 901	5.1
HEATING EQUIPMENT									
OWNER OCCUPIED.	16 885	27	103	499	2 399	4 957	4 405	4 496	5.6
WARM-AIR FURNACE.	9 133	14	44	236	1 062	2 441	2 383	2 952	5.8
HEAT PUMP	564	-	5	7	33	119	152	250	6.3
STEAM OR HOT WATER.	505	-	-	5	16	68	158	257	6.5+
BUILT-IN ELECTRIC UNITS	1 345	2	8	38	168	469	361	300	5.5
FLOOR, WALL, OR PIPELESS FURNACE.	1 430	2	10	29	281	525	391	193	5.2
ROOM HEATERS WITH FLUE.	1 256	-	4	54	259	434	329	178	5.2
ROOM HEATERS WITHOUT FLUE	1 674	5	14	78	399	567	393	218	5.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	919	5	13	47	168	321	224	141	5.2
NONE.	60	-	6	6	13	13	14	8	4.9
RENTER OCCUPIED	8 208	195	422	1 887	2 753	1 716	829	405	4.1
WARM-AIR FURNACE.	3 341	35	124	764	1 190	701	340	187	14.1
HEAT PUMP	160	9	16	41	61	15	7	10	3.7
STEAM OR HOT WATER.	539	48	47	152	149	68	42	33	3.6
BUILT-IN ELECTRIC UNITS	639	14	66	198	214	97	35	15	3.7
FLOOR, WALL, OR PIPELESS FURNACE.	765	16	15	138	276	226	65	28	4.3
ROOM HEATERS WITH FLUE.	849	4	35	150	287	210	112	51	4.3
ROOM HEATERS WITHOUT FLUE	1 233	33	63	314	360	257	156	48	4.1
FIREPLACES, STOVES, OR PORTABLE HEATERS	545	21	35	94	181	118	65	31	4.2
NONE.	138	16	21	36	34	23	7	2	3.4
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED.	16 885	27	103	499	2 399	4 957	4 405	4 496	5.6
NO HEATING EQUIPMENT.	60	-	6	6	13	13	14	8	4.9
WITH HEATING EQUIPMENT.	16 825	27	97	493	2 386	4 944	4 391	4 487	5.6
NO THERMOSTAT CONTROL	3 616	11	32	180	764	1 248	868	513	5.1
WITH THERMOSTAT CONTROL	13 160	16	65	312	1 612	3 679	3 507	3 968	5.8
NOT CLOCK OPERATED.	10 853	9	53	233	1 311	2 991	2 884	3 372	5.8
CONSTANT TEMPERATURE SETTING MAINTAINED	3 198	1	11	67	404	966	880	867	5.7
TEMPERATURE SETTING IS CHANGED.	7 579	7	41	165	893	2 005	1 982	2 486	5.8
OCCASIONALLY.	2 297	2	8	48	246	598	629	766	5.9
REGULARLY.	5 164	5	33	115	628	1 379	1 316	1 688	5.8
DON'T KNOW.	102	-	-	1	15	26	30	30	5.8
NOT REPORTED.	16	-	-	2	3	2	7	2	...
NOT REPORTED.	77	-	-	2	14	21	21	19	5.6
CLOCK OPERATED.	2 245	7	13	77	297	657	610	584	5.6
NOT REPORTED.	62	-	-	2	5	31	13	11	5.3
NOT REPORTED.	50	-	-	1	10	17	15	6	5.3
RENTER OCCUPIED	8 208	195	422	1 887	2 753	1 716	829	405	4.1
NO HEATING EQUIPMENT.	138	16	21	36	34	23	7	2	3.4
WITH HEATING EQUIPMENT.	8 070	180	401	1 851	2 719	1 693	822	404	4.1
NO THERMOSTAT CONTROL	3 157	110	231	767	989	610	330	120	4.0
WITH THERMOSTAT CONTROL	4 891	70	168	1 082	1 724	1 078	487	282	4.1
NOT CLOCK OPERATED.	4 040	55	142	880	1 419	878	427	239	4.2
CONSTANT TEMPERATURE SETTING MAINTAINED	1 419	14	59	329	471	318	152	76	4.1
TEMPERATURE SETTING IS CHANGED.	2 553	39	81	533	922	550	267	161	4.2
OCCASIONALLY.	872	12	31	200	292	200	87	50	4.1
REGULARLY.	1 598	27	50	313	592	336	177	103	4.2
DON'T KNOW.	73	-	-	18	31	14	1	8	4.1
NOT REPORTED.	10	-	-	2	7	-	2	-	...
CLOCK OPERATED.	808	15	24	191	293	184	58	42	4.1
NOT REPORTED.	43	-	2	11	11	16	2	1	4.3
NOT REPORTED.	23	-	2	2	7	5	5	2	...

¹EXCLUDES 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: 1978--CONTINUED

(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.	25 094	222	526	2 386	5 152	6 673	5 234	4 901	5.1
UNITS OCCUPIED LAST WINTER.	20 354	143	319	1 612	3 837	5 590	4 556	4 297	5.3
INSUFFICIENT HEAT									
CLOSURE OF ROOMS:									
OWNER OCCUPIED.	15 170	17	85	421	2 116	4 502	4 006	4 024	5.6
WITH HEATING EQUIPMENT.	15 123	17	81	415	2 105	4 496	3 993	4 016	5.6
NO ROOMS CLOSED	14 095	17	77	387	1 931	4 141	3 733	3 809	5.6
CLOSED CERTAIN ROOMS.	893	-	2	25	143	313	227	183	5.4
LIVING ROOM ONLY.	45	-	-	2	6	10	16	11	5.8
DINING ROOM ONLY.	14	-	-	1	1	2	6	3	..
1 OR MORE BEDROOMS ONLY	582	-	1	19	110	221	136	95	5.2
OTHER ROOMS OR COMBINATION OF ROOMS	243	-	1	4	24	76	66	71	5.7
NOT REPORTED.	10	-	-	-	2	3	3	3	..
NOT REPORTED.	135	-	2	3	31	41	33	24	5.2
NO HEATING EQUIPMENT.	47	-	4	6	10	6	13	8	5.0
RENTER OCCUPIED	5 183	126	233	1 191	1 722	1 088	550	273	4.1
WITH HEATING EQUIPMENT.	5 112	119	225	1 167	1 704	1 078	547	273	4.1
NO ROOMS CLOSED	4 510	113	213	1 094	1 493	918	459	220	4.0
CLOSED CERTAIN ROOMS.	526	5	4	59	186	140	86	45	4.5
LIVING ROOM ONLY.	40	3	-	9	15	3	7	2	4.0
DINING ROOM ONLY.	8	-	-	2	1	1	2	2	..
1 OR MORE BEDROOMS ONLY	361	-	2	32	145	102	57	23	4.5
OTHER ROOMS OR COMBINATION OF ROOMS	113	2	3	15	24	33	18	17	4.9
NOT REPORTED.	3	-	-	-	2	1	1	-	..
NOT REPORTED.	77	1	8	14	25	20	2	7	4.1
NO HEATING EQUIPMENT.	71	7	8	25	18	10	2	-	3.3
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED.	15 170	17	85	421	2 116	4 502	4 006	4 024	5.6
WITH SPECIFIED HEATING EQUIPMENT.	12 639	9	58	301	1 571	3 639	3 391	3 671	5.7
NO ADDITIONAL HEAT SOURCE USED.	11 427	8	47	273	1 383	3 297	3 089	3 330	5.7
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	1 110	1	9	25	161	311	282	321	5.7
NOT REPORTED.	103	-	2	2	28	31	20	20	5.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 531	8	27	120	544	864	615	353	5.1
RENTER OCCUPIED	5 183	126	233	1 191	1 722	1 088	550	273	4.1
WITH SPECIFIED HEATING EQUIPMENT.	3 821	84	159	874	1 298	800	392	214	4.1
NO ADDITIONAL HEAT SOURCE USED.	3 289	78	136	781	1 122	673	329	169	4.1
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	496	6	21	87	163	118	61	40	4.3
NOT REPORTED.	36	-	2	6	13	9	2	5	4.3
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 362	42	74	317	423	288	158	59	4.1
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED.	15 170	17	85	421	2 116	4 502	4 006	4 024	5.6
WITH SPECIFIED HEATING EQUIPMENT.	12 639	9	58	301	1 571	3 639	3 391	3 671	5.7
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	9 449	9	47	231	1 038	2 652	2 536	2 936	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	3 044	-	9	65	503	944	824	699	5.5
1 ROOM.	716	-	3	21	93	160	187	252	5.9
2 ROOMS	705	-	4	29	177	184	166	145	5.3
3 ROOMS OR MORE	1 623	-	2	15	233	600	471	302	5.4
NOT REPORTED.	146	-	2	4	30	43	31	36	5.4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 531	8	27	120	544	864	615	353	5.1
RENTER OCCUPIED	5 183	126	233	1 191	1 722	1 088	550	273	4.1
WITH SPECIFIED HEATING EQUIPMENT.	3 821	84	159	874	1 298	800	392	214	4.1
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 628	72	136	669	864	507	249	132	4.0
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 135	12	22	195	416	279	135	77	4.3
1 ROOM.	266	2	7	102	77	47	21	10	3.8
2 ROOMS	334	5	7	47	188	52	18	16	4.1
3 ROOMS OR MORE	536	5	7	46	150	180	97	51	4.8
NOT REPORTED.	57	1	2	10	19	14	7	5	4.3
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 362	42	74	317	423	288	158	59	4.1

¹EXCLUDES 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: 1978--CONTINUED

(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.	25 094	222	526	2 386	5 152	6 673	5 234	4 901	5.1
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED.	16 885	27	103	499	2 399	4 957	4 405	4 496	5.6
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	979	5	19	53	181	334	239	149	5.2
WITH SELECTED HEATING EQUIPMENT ¹	15 907	22	84	446	2 218	4 623	4 166	4 347	5.6
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	15 002	20	77	424	2 117	4 395	3 906	4 063	5.6
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	826	2	6	21	92	203	237	265	5.9
SOLAR HEATING EQUIPMENT.	2	-	-	-	2	-	-	-	..
STOVE, BURNING WOOD OR COAL.	239	-	1	2	33	58	74	71	5.8
FIREPLACE, BURNING WOOD OR COAL.	109	-	-	-	5	19	41	43	6.2
PORTABLE ELECTRIC HEATER.	244	-	2	11	31	64	61	75	5.7
ROOM HEATER WITHOUT FLUE OR VENT.									
BURNING GAS, OIL, OR KEROSENE.	77	-	1	5	9	23	19	20	5.5
OTHER.	148	2	2	2	14	35	39	55	6.0
NOT REPORTED.	14	-	-	-	2	4	3	6	..
NOT REPORTED.	79	-	2	2	9	25	23	19	5.6
RENTER OCCUPIED	8 208	195	422	1 887	2 753	1 716	829	405	4.1
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	683	36	57	130	215	141	72	32	4.0
WITH SELECTED HEATING EQUIPMENT ¹	7 525	159	366	1 758	2 538	1 575	757	373	4.1
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	7 202	147	350	1 694	2 447	1 497	720	347	4.1
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	268	8	12	57	73	65	31	21	4.3
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	..
STOVE, BURNING WOOD OR COAL.	29	-	-	2	2	13	7	5	..
FIREPLACE, BURNING WOOD OR COAL.	4	-	-	-	1	2	1	1	..
PORTABLE ELECTRIC HEATER.	160	6	9	36	51	34	13	10	4.0
ROOM HEATER WITHOUT FLUE OR VENT.									
BURNING GAS, OIL, OR KEROSENE.	49	-	4	13	16	7	6	5	4.0
OTHER.	25	2	-	6	3	8	5	1	..
NOT REPORTED.	1	-	-	-	-	-	-	-	..
NOT REPORTED.	56	4	3	7	18	13	6	5	4.3
AIR CONDITIONING									
OWNER OCCUPIED.	16 885	27	103	499	2 399	4 957	4 405	4 496	5.6
WITH AIR CONDITIONING	12 912	20	70	321	1 614	3 627	3 455	3 805	5.7
ROOM UNITS.	6 012	5	37	204	998	2 017	1 634	1 116	5.4
1	3 469	5	30	164	708	1 218	882	462	5.2
2	1 811	1	6	36	236	621	533	378	5.5
3	533	-	2	2	47	155	167	160	5.9
4	141	-	-	2	6	17	43	72	6.5+
5 OR MORE	57	-	-	-	1	5	8	43	6.5+
CENTRAL SYSTEM.	6 900	15	33	118	615	1 610	1 820	2 690	6.1
WITH NO AIR CONDITIONING.	3 973	7	33	177	785	1 330	951	690	5.2
RENTER OCCUPIED	8 208	195	422	1 887	2 753	1 716	829	405	4.1
WITH AIR CONDITIONING	5 117	130	262	1 216	1 731	1 046	474	258	4.0
ROOM UNITS.	2 432	87	132	559	699	558	263	134	4.1
1	1 797	75	124	459	543	363	168	65	3.9
2	521	7	6	90	138	158	78	45	4.6
3	93	3	2	10	17	35	11	15	4.9
4	15	2	-	-	2	2	4	6	..
5 OR MORE	5	-	-	-	-	-	2	3	..
CENTRAL SYSTEM.	2 685	43	130	657	1 032	488	210	125	4.0
WITH NO AIR CONDITIONING.	3 091	65	161	671	1 022	670	355	147	4.1
ALL OCCUPIED HOUSING UNITS.	25 094	222	526	2 386	5 152	6 673	5 234	4 901	5.1
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	20 211	55	167	880	3 315	5 925	5 035	4 834	5.5
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED.	16 309	23	93	374	2 183	4 821	4 358	4 457	5.6
ALL WINDOWS COVERED	4 831	6	18	51	508	1 299	1 360	1 588	5.9
SOME WINDOWS COVERED.	1 669	-	5	30	182	422	452	578	5.9
NO WINDOWS COVERED.	9 754	17	69	291	1 481	3 081	2 533	2 281	5.5
NOT REPORTED.	56	-	-	2	12	19	13	10	5.3
RENTER OCCUPIED	3 902	32	74	506	1 131	1 104	677	377	4.7
ALL WINDOWS COVERED	584	3	7	42	146	184	114	88	5.0
SOME WINDOWS COVERED.	325	1	4	33	77	85	82	44	5.1
NO WINDOWS COVERED.	2 884	26	63	397	873	811	471	244	4.6
NOT REPORTED.	109	2	1	34	35	24	10	2	4.0

¹EXCLUDES 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: 1978--CONTINUED

(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.									
ALL DOORS COVERED	16 309	23	93	374	2 183	4 821	4 358	4 457	5.6
4 804	5	14	36	475	1 452	1 436	1 385	5.8	
SOME DOORS COVERED.	3 186	3	9	45	388	983	833	925	5.7
NO DOORS COVERED.	8 230	15	70	290	1 308	2 361	2 060	2 127	5.5
NOT REPORTED.	89	-	-	4	13	24	29	20	5.6
RENTER OCCUPIED									
ALL DOORS COVERED	3 902	32	74	506	1 131	1 104	677	377	4.7
537	3	3	29	134	171	117	79	5.1	
SOME DOORS COVERED.	406	-	4	21	96	123	87	76	5.2
NO DOORS COVERED.	2 829	27	66	414	862	780	460	219	4.5
NOT REPORTED.	131	2	1	41	40	30	13	3	4.0
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED.									
YES	16 309	23	93	374	2 183	4 821	4 358	4 457	5.6
12 692	17	64	202	1 386	3 677	3 481	3 864	5.8	
NO.	2 956	5	17	131	651	935	725	491	5.2
DON'T KNOW.	598	1	12	38	131	191	132	94	5.1
NOT REPORTED.	64	-	1	2	15	17	21	8	5.3
RENTER OCCUPIED									
YES	3 902	32	74	506	1 131	1 104	677	377	4.7
1 376	5	12	123	321	460	273	181	5.0	
NO.	1 488	16	42	224	480	362	247	116	4.5
DON'T KNOW.	914	8	19	122	294	254	143	74	4.5
NOT REPORTED.	125	2	2	37	36	27	14	6	4.1

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978

(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	25 094	6 423	18 671	6 201	4 614	2 803	5 053
HOUSE HEATING FUEL							
OWNER OCCUPIED	16 885	4 612	12 274	4 294	3 361	1 761	2 859
UTILITY GAS	7 997	1 378	6 618	2 103	1 924	979	1 612
BOTTLED, TANK, OR LP GAS	1 785	490	1 295	433	294	226	342
FUEL OIL	2 113	268	1 845	521	509	295	520
KEROSENE, ETC	179	21	158	52	36	24	46
ELECTRICITY	4 275	2 374	1 901	1 079	512	150	160
COAL OR COKE	90	8	82	12	12	18	39
WOOD	381	63	318	73	50	63	133
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	5	2	4	2	-	1	1
NONE	60	8	52	18	22	6	5
RENTER OCCUPIED	8 208	1 811	6 397	1 907	1 253	1 043	2 194
UTILITY GAS	3 959	499	3 460	847	738	650	1 225
BOTTLED, TANK, OR LP GAS	512	59	454	113	93	68	179
FUEL OIL	867	43	824	164	158	157	346
KEROSENE, ETC	104	1	103	20	22	12	49
ELECTRICITY	2 285	1 201	1 084	712	169	69	134
COAL OR COKE	83	1	82	4	8	10	60
WOOD	253	5	248	19	28	46	155
SOLAR HEAT	-	-	-	-	-	-	-
OTHER FUEL	5	2	4	1	-	-	-
NONE	138	-	138	27	37	32	43
WATER HEATING FUEL							
OWNER OCCUPIED	16 885	4 612	12 274	4 294	3 361	1 761	2 859
NO HOT PIPED WATER	298	28	270	43	44	73	109
WITH HOT PIPED WATER	16 588	4 584	12 004	4 251	3 316	1 688	2 749
FUEL USED:							
UTILITY GAS	6 943	1 155	5 787	1 809	1 718	856	1 404
BOTTLED, TANK, OR LP GAS	1 076	268	808	229	174	152	253
FUEL OIL	265	36	228	63	50	35	81
KEROSENE, ETC	10	2	9	2	3	-	4
ELECTRICITY	8 259	3 119	5 140	2 140	1 367	643	990
COAL OR COKE	5	-	5	-	-	2	4
WOOD	8	1	8	4	1	-	3
SOLAR HEAT	9	2	8	1	4	-	3
OTHER FUEL	2	1	1	1	1	-	1
NONE	9	-	9	2	1	-	7
NOT REPORTED	-	-	-	-	-	-	-
RENTER OCCUPIED	8 208	1 811	6 397	1 907	1 253	1 043	2 194
NO HOT PIPED WATER	365	4	381	28	54	63	235
WITH HOT PIPED WATER	7 824	1 807	6 017	1 879	1 199	980	1 959
FUEL USED:							
UTILITY GAS	3 740	486	3 254	832	680	609	1 133
BOTTLED, TANK, OR LP GAS	323	33	290	71	61	44	113
FUEL OIL	256	22	234	67	37	49	81
KEROSENE, ETC	5	-	5	-	1	1	2
ELECTRICITY	3 465	1 262	2 202	898	412	273	618
COAL OR COKE	6	-	6	2	-	-	4
WOOD	7	-	7	2	2	1	2
SOLAR HEAT	2	-	2	-	2	-	-
OTHER FUEL	10	3	8	7	1	-	-
NONE	10	-	10	1	2	2	6
NOT REPORTED	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED	16 885	4 612	12 274	4 294	3 361	1 761	2 859
UTILITY GAS	4 717	659	4 058	941	1 197	721	1 199
BOTTLED, TANK, OR LP GAS	1 777	516	1 260	461	253	201	346
FUEL OIL	10	-	10	3	1	2	4
KEROSENE, ETC	4	-	4	2	1	-	2
ELECTRICITY	10 298	3 430	6 868	2 878	1 903	823	1 263
COAL OR COKE	9	1	9	-	1	1	7
WOOD	62	4	58	8	5	13	33
OTHER FUEL	1	-	1	1	-	-	-
NONE	9	2	6	1	1	-	5
RENTER OCCUPIED	8 208	1 811	6 397	1 907	1 253	1 043	2 194
UTILITY GAS	3 525	393	3 132	717	618	639	1 158
BOTTLED, TANK, OR LP GAS	645	59	585	147	108	89	241
FUEL OIL	5	-	5	-	-	2	3
KEROSENE, ETC	5	-	5	-	-	1	3
ELECTRICITY	3 936	1 358	2 578	1 034	511	302	731
COAL OR COKE	1	-	1	-	1	-	-
WOOD	48	1	47	5	4	5	33
OTHER FUEL	3	-	3	2	1	5	1
NONE	41	-	41	3	10	4	24

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	APRIL 1970 OR LATER	YEAR STRUCTURE BUILT						
		MARCH 1970 OR EARLIER						
		TOTAL	MARCH 1970	1960 TO 1950	1950 TO 1959	1940 TO 1949	1939 OR EARLIER	
ALL OCCUPIED HOUSING UNITS--CONTINUED								
MONTHLY COST PAID FOR ELECTRICITY								
SPECIFIED OWNER OCCUPIED¹								
LESS THAN \$10	13 447	3 239	10 208	3 476	3 051	1 494	2 187	
\$10 TO \$19	127	11	115	7	20	21	68	
\$20 TO \$29	1 181	65	1 116	162	241	250	463	
\$30 TO \$39	2 093	247	1 846	458	538	357	494	
\$40 TO \$49	2 271	315	1 956	575	675	269	437	
\$50 TO \$59	1 818	392	1 425	505	471	197	252	
\$60 TO \$79	1 814	507	1 307	550	404	168	185	
\$80 TO \$99	2 210	816	1 394	675	405	146	168	
\$100 TO \$149	936	421	516	266	156	44	50	
\$150 OR MORE	811	385	426	231	112	33	50	
NO ELECTRICITY USED OR NOT REPORTED	175	76	99	47	29	8	15	
MEDIAN.	12	4	8	1	2	1	4	
	45	62	40	50	41	34	31	
SPECIFIED RENTER OCCUPIED²								
LESS THAN \$10	7 904	1 799	6 105	1 871	1 209	1 008	2 017	
\$10 TO \$19	375	29	345	58	63	56	168	
\$20 TO \$29	1 398	155	1 243	246	227	251	519	
\$30 TO \$39	1 360	219	1 141	291	235	200	414	
\$40 TO \$49	1 088	235	852	240	200	132	280	
\$50 TO \$59	766	251	515	192	96	80	147	
\$60 TO \$79	492	184	308	112	88	40	67	
\$80 TO \$99	474	187	287	116	50	45	76	
\$100 TO \$149	131	52	79	45	13	7	15	
\$150 OR MORE	100	46	54	25	12	8	9	
INCLUDED IN RENT	12	3	9	9	-	-	-	
NO ELECTRICITY USED OR NOT REPORTED	1 687	435	1 252	530	224	187	311	
MEDIAN.	21	2	19	6	1	2	9	
	29	41	27	33	28	25	23	
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS								
SPECIFIED OWNER OCCUPIED¹								
LESS THAN \$10	13 447	3 239	10 208	3 476	3 051	1 494	2 187	
\$10 TO \$14	809	125	684	181	195	131	176	
\$15 TO \$19	954	168	786	218	244	130	194	
\$20 TO \$24	1 129	142	987	289	285	176	237	
\$25 TO \$29	1 370	215	1 155	396	332	174	253	
\$30 TO \$39	1 038	155	884	251	277	125	230	
\$40 TO \$49	1 587	252	1 335	438	398	211	288	
\$50 TO \$69	985	145	840	272	265	102	201	
\$70 TO \$99	836	148	688	229	181	103	175	
\$100 OR MORE	206	28	178	59	50	24	45	
NO GAS USED OR NOT REPORTED	68	9	59	15	17	10	17	
MEDIAN.	4 463	1 852	2 611	1 127	806	308	370	
	26	26	26	26	26	24	26	
SPECIFIED RENTER OCCUPIED²								
LESS THAN \$10	7 904	1 799	6 105	1 871	1 209	1 008	2 017	
\$10 TO \$14	733	68	665	150	134	107	274	
\$15 TO \$19	638	37	601	120	139	112	230	
\$20 TO \$24	553	58	495	79	108	111	197	
\$25 TO \$29	392	30	362	67	106	66	122	
\$30 TO \$39	323	21	303	68	66	59	109	
\$40 TO \$49	424	30	394	53	95	70	176	
\$50 TO \$69	229	24	205	34	49	37	85	
\$70 TO \$99	178	12	166	36	22	31	77	
\$100 OR MORE	37	2	34	4	2	10	17	
INCLUDED IN RENT	21	2	19	4	3	5	7	
NO GAS USED OR NOT REPORTED	2 101	503	1 598	664	288	247	400	
MEDIAN.	2 276	1 014	1 262	592	198	150	322	
	18	18	18	17	18	18	18	
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.								
SPECIFIED OWNER OCCUPIED¹								
LESS THAN \$100	13 447	3 239	10 208	3 476	3 051	1 494	2 187	
\$100 TO \$199	627	215	412	165	120	47	80	
\$200 TO \$299	412	94	319	120	82	48	70	
\$300 TO \$399	444	42	402	112	116	78	96	
\$400 TO \$499	411	28	382	93	125	75	89	
\$500 TO \$599	253	22	231	55	59	38	79	
\$600 TO \$699	189	17	172	36	42	32	63	
\$700 TO \$799	143	13	130	22	30	29	44	
\$800 OR MORE	53	2	51	12	11	8	19	
FUELS NOT USED, FREE, OR NOT REPORTED	79	10	69	12	15	10	31	
MEDIAN.	10 834	2 794	8 040	2 848	2 452	1 128	1 611	
	259	108	287	226	284	314	347	

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	7 904	1 799	6 105	1 871	1 209	1 008	2 017		
LESS THAN \$100.	140	10	130	19	30	23	58		
\$100 TO \$199.	155	11	144	24	24	28	68		
\$200 TO \$299.	146	7	139	25	22	25	68		
\$300 TO \$399.	147	5	142	21	22	23	76		
\$400 TO \$499.	73	1	73	16	16	11	29		
\$500 TO \$599.	46	4	43	7	7	7	21		
\$600 TO \$699.	41	1	40	6	7	8	19		
\$700 TO \$799.	15	-	15	2	2	6	6		
\$800 OR MORE.	24	-	24	3	2	4	14		
INCLUDED IN RENT.	658	89	570	176	97	103	194		
FUELS NOT USED, FREE, OR NOT REPORTED	6 458	1 672	4 786	1 572	981	770	1 463		
MEDIAN.	267	188	271	275	256	263	278		
ALL OCCUPIED HOUSING UNITS.	25 094	6 423	18 671	6 201	4 614	2 803	5 053		
HEATING EQUIPMENT									
OWNER OCCUPIED.	16 885	4 612	12 274	4 294	3 361	1 761	2 859		
WARM-AIR FURNACE.	9 133	3 391	5 742	2 779	1 669	524	770		
HEAT PUMP.	564	381	183	101	58	15	9		
STEAM OR HOT WATER.	505	13	491	88	62	84	257		
BUILT-IN ELECTRIC UNITS.	1 345	516	829	456	211	77	84		
FLOOR, WALL, OR PIPELESS FURNACE.	1 430	52	1 378	252	515	278	334		
ROOM HEATERS WITH FLUE.	1 256	56	1 200	167	282	208	543		
ROOM HEATERS WITHOUT FLUE	1 674	71	1 603	239	348	425	592		
FIREPLACES, STOVES, OR PORTABLE HEATERS	919	123	796	195	193	143	265		
NONE.	60	8	52	18	22	6	5		
RENTER OCCUPIED	8 208	1 811	6 397	1 907	1 253	1 043	2 194		
WARM-AIR FURNACE.	3 341	1 422	1 919	1 114	377	176	252		
HEAT PUMP.	160	72	88	45	20	7	16		
STEAM OR HOT WATER.	539	14	525	62	69	123	271		
BUILT-IN ELECTRIC UNITS.	639	233	406	230	73	36	68		
FLOOR, WALL, OR PIPELESS FURNACE.	765	32	733	163	238	163	169		
ROOM HEATERS WITH FLUE.	849	9	839	87	161	139	453		
ROOM HEATERS WITHOUT FLUE	1 233	12	1 220	119	210	277	614		
FIREPLACES, STOVES, OR PORTABLE HEATERS	545	16	528	60	69	90	309		
NONE.	138	-	138	27	37	32	43		
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED.	16 885	4 612	12 274	4 294	3 361	1 761	2 859		
NO HEATING EQUIPMENT.	60	8	52	18	22	6	5		
WITH HEATING EQUIPMENT.	16 825	4 603	12 222	4 276	3 338	1 755	2 854		
NO THERMOSTAT CONTROL.	3 616	296	3 319	623	807	712	1 177		
WITH THERMOSTAT CONTROL.	13 160	4 299	8 861	3 644	2 525	1 035	1 658		
NOT CLOCK OPERATED.	10 853	3 586	7 267	3 034	2 072	820	1 340		
CONSTANT TEMPERATURE SETTING MAINTAINED	3 198	1 106	2 092	878	618	210	386		
TEMPERATURE SETTING IS CHANGED.	7 579	2 440	5 139	2 144	1 442	606	947		
OCCASIONALLY.	2 297	756	1 541	632	400	187	322		
REGULARLY.	5 164	1 645	3 518	1 487	1 013	407	611		
DON'T KNOW.	102	31	71	23	26	12	11		
NOT REPORTED.	16	8	8	2	4	-	2		
CLOCK OPERATED.	77	41	36	11	12	5	7		
NOT REPORTED.	2 245	697	1 548	594	435	208	311		
NOT REPORTED.	62	16	46	16	17	6	7		
NONE.	50	8	42	9	7	7	19		
RENTER OCCUPIED	8 208	1 811	6 397	1 907	1 253	1 043	2 194		
NO HEATING EQUIPMENT.	138	-	138	27	37	32	43		
WITH HEATING EQUIPMENT.	8 070	1 811	6 259	1 880	1 217	1 011	2 151		
NO THERMOSTAT CONTROL.	3 157	114	3 043	400	548	624	1 470		
WITH THERMOSTAT CONTROL.	4 891	1 696	3 195	1 478	668	383	667		
NOT CLOCK OPERATED.	4 040	1 363	2 676	1 246	553	333	544		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 819	491	928	462	188	89	189		
TEMPERATURE SETTING IS CHANGED.	2 553	851	1 702	766	350	241	346		
OCCASIONALLY.	872	303	569	276	115	75	102		
REGULARLY.	1 598	526	1 072	462	221	159	230		
DON'T KNOW.	73	18	55	26	13	6	10		
NOT REPORTED.	10	3	7	2	1	1	3		
CLOCK OPERATED.	68	22	46	19	15	4	9		
NOT REPORTED.	808	316	492	224	106	45	118		
NONE.	43	16	26	8	9	5	4		
NOT REPORTED.	23	1	21	3	1	3	15		

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

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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				
			1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949	1939 OR EARLIER	
ALL OCCUPIED HOUSING UNITS	25 094	6 423	18 671	6 201	4 614	2 803	5 053
UNITS OCCUPIED LAST WINTER	20 354	4 494	15 859	5 167	3 968	2 405	4 320
INSUFFICIENT HEAT							
CLOSURE OF ROOMS:							
OWNER OCCUPIED	15 170	3 566	11 604	4 011	3 180	1 674	2 739
WITH HEATING EQUIPMENT	15 123	3 563	11 560	3 996	3 160	1 670	2 734
NO ROOMS CLOSED	14 095	3 444	10 650	3 810	2 961	1 487	2 393
CLOSED CERTAIN ROOMS	893	79	815	152	179	162	321
LIVING ROOM ONLY	45	5	40	11	4	5	20
DINING ROOM ONLY	14	2	11	5	3	1	2
1 OR MORE BEDROOMS ONLY	582	57	524	91	114	113	207
OTHER ROOMS OR COMBINATION OF ROOMS	243	14	229	43	56	42	88
NOT REPORTED	10	-	10	3	2	2	4
NOT REPORTED	135	40	95	34	20	21	20
NO HEATING EQUIPMENT	47	3	44	15	20	4	5
RENTER OCCUPIED	5 183	928	4 255	1 155	788	731	1 581
WITH HEATING EQUIPMENT	5 112	928	4 184	1 145	765	716	1 557
NO ROOMS CLOSED	4 510	892	3 618	1 078	656	611	1 274
CLOSED CERTAIN ROOMS	526	28	497	50	98	94	255
LIVING ROOM ONLY	40	3	37	3	1	11	22
DINING ROOM ONLY	8	1	8	1	2	2	3
1 OR MORE BEDROOMS ONLY	361	20	341	41	75	62	163
OTHER ROOMS OR COMBINATION OF ROOMS	113	4	108	5	18	20	66
NOT REPORTED	3	-	3	-	3	-	-
NOT REPORTED	77	8	69	17	11	12	29
NO HEATING EQUIPMENT	71	-	71	10	23	14	24
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED	15 170	3 566	11 604	4 011	3 180	1 674	2 739
WITH SPECIFIED HEATING EQUIPMENT ¹	12 639	3 392	9 247	3 581	2 631	1 128	1 907
NO ADDITIONAL HEAT SOURCE USED	11 427	3 171	8 256	3 269	2 367	992	1 627
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE							
HEATER	1 110	185	925	281	251	124	269
NOT REPORTED	103	36	66	30	13	12	11
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 531	174	2 357	431	549	546	831
RENTER OCCUPIED	5 183	928	4 255	1 155	788	731	1 581
WITH SPECIFIED HEATING EQUIPMENT ¹	3 821	908	2 913	1 021	581	442	869
NO ADDITIONAL HEAT SOURCE USED	3 289	859	2 430	920	468	344	698
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE							
HEATER	496	44	452	90	103	97	161
NOT REPORTED	36	5	31	10	9	2	11
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 362	20	1 342	135	207	288	712
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED	15 170	3 566	11 604	4 011	3 180	1 674	2 739
WITH SPECIFIED HEATING EQUIPMENT ¹	12 639	3 392	9 247	3 581	2 631	1 128	1 907
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	9 449	3 127	6 323	2 939	1 745	642	997
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS							
3 044	212	2 832	604	866	471	891	
1 ROOM	716	103	613	186	162	88	177
2 ROOMS	705	34	671	105	191	112	262
3 ROOMS OR MORE	1 623	75	1 548	313	512	271	452
NOT REPORTED	146	53	92	37	21	16	19
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	2 531	174	2 357	431	549	546	831
RENTER OCCUPIED	5 183	928	4 255	1 155	788	731	1 581
WITH SPECIFIED HEATING EQUIPMENT ¹	3 821	908	2 913	1 021	581	442	869
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 628	854	1 774	794	330	236	414
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS							
1 135	48	1 088	207	239	202	440	
1 ROOM	266	12	254	45	51	46	112
2 ROOMS	334	13	321	66	66	50	139
3 ROOMS OR MORE	536	24	512	95	122	106	189
NOT REPORTED	57	6	51	20	11	5	15
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	1 362	20	1 342	135	207	288	712

¹EXCLUDES 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: 1978--CONTINUED

(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.	25 094	6 423	18 671	6 201	4 614	2 803	5 053
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED.	16 885	4 612	12 274	4 294	3 361	1 761	2 859
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	979	131	848	213	216	149	270
WITH SELECTED HEATING EQUIPMENT ¹	15 907	4 480	11 426	4 081	3 145	1 612	2 588
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	15 002	4 232	10 770	3 869	2 958	1 518	2 426
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	826	236	589	190	173	81	145
SOLAR HEATING EQUIPMENT.	2	-	2	-	2	-	-
STOVE, BURNING WOOD OR COAL.	239	72	167	64	44	19	41
FIREPLACE, BURNING WOOD OR COAL.	109	51	58	24	21	6	7
PORTABLE ELECTRIC HEATER.	244	62	182	54	53	28	46
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	77	8	69	21	13	11	24
OTHER.	148	41	107	26	39	16	27
NOT REPORTED.	14	6	8	2	3	2	1
NOT REPORTED.	79	12	67	21	14	14	18
RENTER OCCUPIED.	8 208	1 811	6 397	1 907	1 253	1 043	2 194
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	683	16	667	87	106	122	352
WITH SELECTED HEATING EQUIPMENT ¹	7 525	1 795	5 731	1 820	1 147	920	1 842
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	7 202	1 759	5 443	1 765	1 097	859	1 722
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	268	26	242	43	48	51	101
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	29	3	26	4	2	3	17
FIREPLACE, BURNING WOOD OR COAL.	4	1	3	-	1	-	2
PORTABLE ELECTRIC HEATER.	160	18	141	35	32	27	47
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	49	2	48	3	9	15	20
OTHER.	25	1	24	-	3	6	15
NOT REPORTED.	1	1	-	-	-	-	-
NOT REPORTED.	56	10	46	12	3	11	20
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED.	16 885	4 612	12 274	4 294	3 361	1 761	2 859
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	3 909	258	3 651	618	845	782	1 405
WITH SELECTED HEATING EQUIPMENT ²	12 976	4 353	8 623	3 676	2 515	978	1 454
LESS THAN 4 YEARS.	3 004	1 918	1 087	353	363	156	215
4 TO 9 YEARS.	4 397	2 333	2 064	900	556	236	371
10 TO 19 YEARS.	3 578	26	3 552	2 197	726	255	374
20 TO 39 YEARS.	1 213	-	1 213	37	701	227	248
40 YEARS OR MORE.	70	-	70	-	2	6	61
DON'T KNOW.	553	25	528	141	150	78	160
NOT REPORTED.	161	51	110	49	16	20	25
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED.	16 885	4 612	12 274	4 294	3 361	1 761	2 859
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	3 909	258	3 651	618	845	782	1 405
WITH SELECTED HEATING EQUIPMENT ²	12 976	4 353	8 623	3 676	2 515	978	1 454
NO MAINTENANCE OR MODIFICATION.	10 532	3 708	6 824	2 918	2 018	779	1 109
WITH MAINTENANCE OR MODIFICATION.	2 277	589	1 689	699	482	184	324
NOT REPORTED.	167	57	111	59	15	16	21
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED.	16 885	4 612	12 274	4 294	3 361	1 761	2 859
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	3 909	258	3 651	618	845	782	1 405
WITH SELECTED HEATING EQUIPMENT ²	12 976	4 353	8 623	3 676	2 515	978	1 454
NO MAINTENANCE CONTRACT.	11 441	3 816	7 624	3 329	2 239	845	1 211
WITH MAINTENANCE CONTRACT.	1 340	471	869	285	251	118	215
NOT REPORTED.	196	66	130	62	25	16	27

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.²EXCLUDES 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: 1978--CONTINUED

(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.	16 885	4 612	12 274	4 294	3 361	1 761	2 859		
NO HOT PIPED WATER.	298	28	270	43	44	73	109		
WITH HOT PIPED WATER.	16 588	4 584	12 004	4 251	3 316	1 688	2 749		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	16 222	4 502	11 719	4 170	3 231	1 644	2 674		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	81	37	44	24	10	2	7		
NOT REPORTED.	266	42	224	54	71	41	58		
NOT REPORTED.	-	-	-	-	-	-	-		
RENTER OCCUPIED.	8 208	1 811	6 397	1 907	1 253	1 043	2 194		
NO HOT PIPED WATER.	385	4	381	28	54	63	235		
WITH HOT PIPED WATER.	7 824	1 807	6 017	1 879	1 199	980	1 959		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	7 614	1 777	5 837	1 832	1 157	947	1 900		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	29	7	22	5	6	5	7		
NOT REPORTED.	170	23	147	41	33	26	47		
NOT REPORTED.	-	-	-	-	-	-	-		
AIR CONDITIONING									
OWNER OCCUPIED.	16 885	4 612	12 274	4 294	3 361	1 761	2 859		
WITH AIR CONDITIONING.	12 912	3 952	8 960	3 558	2 638	1 166	1 598		
ROOM UNITS.	6 012	792	5 219	1 428	1 579	879	1 333		
1	3 469	595	2 874	863	783	502	726		
2	1 811	175	1 637	428	561	259	388		
3	533	20	513	112	190	88	124		
4	141	2	140	18	27	26	68		
5 OR MORE	57	1	56	7	18	3	28		
CENTRAL SYSTEM.	6 900	3 160	3 741	2 130	1 059	287	265		
WITH NO AIR CONDITIONING.	3 973	659	3 314	736	723	595	1 261		
RENTER OCCUPIED.	8 208	1 811	6 397	1 907	1 253	1 043	2 194		
WITH AIR CONDITIONING.	5 117	1 626	3 491	1 489	755	451	795		
ROOM UNITS.	2 432	223	2 209	548	551	387	723		
1	1 797	186	1 610	427	376	277	530		
2	521	32	489	104	146	91	148		
3	93	5	88	18	24	15	32		
4	15	-	15	-	4	3	8		
5 OR MORE	5	-	5	-	1	-	5		
CENTRAL SYSTEM.	2 685	1 403	1 282	941	205	64	72		
WITH NO AIR CONDITIONING.	3 091	185	2 906	417	498	592	1 399		
ALL OCCUPIED HOUSING UNITS.	25 094	6 423	18 671	6 201	4 614	2 803	5 053		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS									
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	20 211	4 807	15 404	4 901	4 075	2 347	4 081		
OWNER OCCUPIED.	16 309	4 401	11 908	4 158	3 311	1 715	2 724		
ALL WINDOWS COVERED.	4 831	1 498	3 332	1 188	879	485	780		
SOME WINDOWS COVERED.	1 669	261	1 408	332	369	227	479		
NO WINDOWS COVERED.	9 754	2 616	7 138	2 630	2 059	999	1 449		
NOT REPORTED.	56	26	30	7	4	3	16		
RENTER OCCUPIED.	3 902	406	3 496	743	764	632	1 357		
ALL WINDOWS COVERED.	584	77	507	122	112	90	183		
SOME WINDOWS COVERED.	325	16	309	49	55	47	159		
NO WINDOWS COVERED.	2 884	288	2 596	539	571	491	995		
NOT REPORTED.	109	26	83	34	26	5	19		
STORM DOORS									
OWNER OCCUPIED.	16 309	4 401	11 908	4 158	3 311	1 715	2 724		
ALL DOORS COVERED.	4 804	1 080	3 723	1 231	1 009	558	926		
SOME DOORS COVERED.	3 186	951	2 235	786	605	315	529		
NO DOORS COVERED.	8 230	2 333	5 897	2 129	1 682	835	1 252		
NOT REPORTED.	89	37	52	12	16	7	18		
RENTER OCCUPIED.	3 902	406	3 496	743	764	632	1 357		
ALL DOORS COVERED.	537	55	482	97	139	82	164		
SOME DOORS COVERED.	406	51	355	65	79	71	139		
NO DOORS COVERED.	2 829	272	2 557	543	516	470	1 028		
NOT REPORTED.	131	28	103	38	30	8	26		

*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: 1978--CONTINUED

(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	MARCH 1970	1960 TO	1950 TO	1940 TO		
ALL OCCUPIED HOUSING UNITS--CONTINUED									
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS--CONTINUED									
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	16 309	4 401	11 908	4 158	3 311	1 715	2 724		
YES	12 692	4 051	8 641	3 577	2 576	1 068	1 420		
NO	2 956	201	2 754	414	613	578	1 150		
DON'T KNOW	598	125	473	158	119	65	132		
NOT REPORTED	64	24	40	9	3	5	23		
RENTER OCCUPIED	3 902	406	3 496	743	764	632	1 357		
YES	1 376	244	1 131	358	301	174	298		
NO	1 488	53	1 434	141	253	287	754		
DON'T KNOW	914	82	832	208	179	162	282		
NOT REPORTED	125	26	99	36	31	9	23		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED	16 309	4 401	11 908	4 158	3 311	1 715	2 724		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS									
NO WINDOWS COVERED	9 754	2 616	7 138	2 630	2 059	999	1 449		
SOME OR ALL WINDOWS COVERED	6 500	1 760	4 740	1 520	1 248	712	1 259		
NONE ADDED OR INSTALLED	5 183	1 366	3 817	1 243	995	577	1 002		
SOME OR ALL ADDED OR INSTALLED	1 202	351	851	252	233	123	244		
NOT REPORTED	115	43	72	25	20	13	14		
NOT REPORTED	56	26	30	7	4	3	16		
STORM DOORS:									
NO DOORS COVERED	8 230	2 333	5 897	2 129	1 682	835	1 252		
SOME OR ALL DOORS COVERED	7 990	2 032	5 958	2 016	1 614	874	1 455		
NONE ADDED OR INSTALLED	6 656	1 563	5 093	1 703	1 402	734	1 255		
SOME OR ALL ADDED OR INSTALLED	1 008	357	651	244	157	101	149		
NOT REPORTED	326	112	215	70	55	39	51		
NOT REPORTED	89	37	52	12	16	7	18		
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION	2 956	201	2 754	414	613	578	1 150		
WITH ATTIC OR ROOF INSULATION	12 692	4 051	8 641	3 577	2 576	1 068	1 420		
NONE ADDED OR INSTALLED	11 054	3 477	7 576	3 181	2 265	926	1 204		
SOME OR ALL ADDED OR INSTALLED	1 227	429	798	277	234	110	177		
LESS THAN 3 INCHES ADDED	78	21	57	27	11	9	10		
3 TO 6 INCHES ADDED	488	131	357	123	108	46	80		
6 INCHES OR MORE ADDED	508	225	283	96	83	44	61		
DON'T KNOW	109	40	69	20	25	8	17		
NOT REPORTED	44	12	31	11	6	4	10		
NOT REPORTED	411	144	267	119	77	32	38		
DON'T KNOW	598	125	473	158	119	65	132		
NOT REPORTED	64	24	40	9	3	5	23		
WALL INSULATION:									
NONE ADDED OR INSTALLED	15 398	4 023	11 375	3 991	3 175	1 632	2 577		
SOME OR ALL ADDED OR INSTALLED	822	330	492	154	127	80	130		
NOT REPORTED	89	48	41	12	9	3	17		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:									
NONE ADDED OR INSTALLED	13 238	3 474	9 764	3 357	2 700	1 441	2 266		
SOME OR ALL ADDED OR INSTALLED	2 869	855	2 014	757	578	256	423		
DON'T KNOW	145	45	99	37	23	15	25		
NOT REPORTED	58	27	31	7	10	3	10		
OTHER INSULATION:									
NONE ADDED OR INSTALLED	15 555	4 067	11 488	4 010	3 205	1 671	2 603		
SOME OR ALL ADDED OR INSTALLED	653	285	367	129	95	41	103		
NOT REPORTED	101	49	52	19	12	3	18		

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:									
NO WINDOWS COVERED.	3 902	406	3 496	743	764	632	1 357		
SOME OR ALL WINDOWS COVERED	2 884	288	2 596	539	571	491	995		
NONE ADDED OR INSTALLED	909	92	816	171	167	136	342		
SOME OR ALL ADDED OR INSTALLED	663	74	589	137	125	97	230		
NOT REPORTED.	221	15	206	25	38	34	108		
NOT REPORTED.	25	4	22	8	4	5	4		
NOT REPORTED.	109	26	83	34	26	5	19		
STORM DOORS:									
NO DOORS COVERED.	2 829	272	2 557	543	516	470	1 028		
SOME OR ALL DOORS COVERED	943	106	836	162	218	154	303		
NONE ADDED OR INSTALLED	799	89	710	130	187	129	264		
SOME OR ALL ADDED OR INSTALLED	94	10	85	18	18	19	30		
NOT REPORTED.	49	7	41	15	12	6	9		
NOT REPORTED.	131	28	103	38	30	8	26		
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION	1 488	53	1 434	141	253	287	754		
WITH ATTIC OR ROOF INSULATION	1 376	244	1 131	358	301	174	298		
NONE ADDED OR INSTALLED	1 195	221	974	316	257	151	250		
SOME OR ALL ADDED OR INSTALLED	101	15	87	11	22	14	39		
LESS THAN 3 INCHES ADDED	9	1	7	-	1	2	5		
3 TO 6 INCHES ADDED	44	7	37	2	10	8	16		
6 INCHES OR MORE ADDED	16	-	16	3	2	1	10		
DON'T KNOW	25	5	21	5	10	1	4		
NOT REPORTED	8	2	6	1	-	2	4		
NOT REPORTED	79	8	71	31	23	9	9		
DON'T KNOW	914	82	832	208	179	162	282		
NOT REPORTED	125	26	99	36	31	9	23		
WALL INSULATION:									
NONE ADDED OR INSTALLED	3 660	373	3 287	675	706	605	1 300		
SOME OR ALL ADDED OR INSTALLED	46	4	42	3	15	6	18		
NOT REPORTED	196	29	167	65	43	21	38		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:									
NONE ADDED OR INSTALLED	3 160	322	2 838	562	602	529	1 145		
SOME OR ALL ADDED OR INSTALLED	343	25	318	54	81	61	122		
DON'T KNOW	286	33	253	91	55	36	71		
NOT REPORTED	113	26	87	36	27	5	19		
OTHER INSULATION:									
NONE ADDED OR INSTALLED	3 650	369	3 281	670	707	608	1 296		
SOME OR ALL ADDED OR INSTALLED	81	8	73	14	14	13	33		
NOT REPORTED	170	29	141	59	43	11	28		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED									
NO INSULATION ADDED OR INSTALLED	16 309	4 401	11 908	4 158	3 311	1 715	2 724		
WITH INSULATION ADDED OR INSTALLED	11 004	2 826	8 177	2 807	2 283	1 202	1 885		
LESS THAN \$50									
\$50 TO \$99	4 563	1 326	3 237	1 165	893	444	735		
\$100 TO \$199	1 868	514	1 354	499	355	177	323		
\$200 TO \$399	477	136	341	117	89	53	82		
\$400 OR MORE	479	135	344	136	96	43	69		
DON'T KNOW	407	105	302	117	78	55	53		
NOT REPORTED	698	214	484	161	152	63	109		
MEDIAN	289	125	164	57	51	22	34		
NOT REPORTED OR DON'T KNOW	345	97	248	80	71	32	64		
MEDIAN									
NOT REPORTED OR DON'T KNOW	743	249	493	186	134	69	105		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	409	83	326	80	83	54	109		
LESS THAN \$50									
\$50 TO \$99	174	33	141	31	27	21	62		
\$100 TO \$199	30	7	23	5	8	3	6		
\$200 TO \$399	57	13	45	11	16	5	13		
\$400 OR MORE	37	6	31	8	8	12	3		
DON'T KNOW	49	11	38	11	12	4	11		
NOT REPORTED	19	3	16	7	5	2	3		
MEDIAN	42	10	32	6	7	7	11		
MEDIAN									
NOT REPORTED	50-	62	50-	73	101	71	50-		

TABLE D-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	377	121	255	103	54	39	59		
LESS THAN \$50	80	18	61	30	8	8	15		
\$50 TO \$99.	143	41	101	31	24	22	25		
\$100 TO \$199.	93	43	50	27	11	6	6		
\$200 TO \$399.	13	4	9	7	-	-	2		
\$400 OR MORE.	11	2	8	2	2	2	2		
DON'T KNOW.	7	3	5	2	2	1	-		
NOT REPORTED.	31	10	20	4	6	1	10		
MEDIAN.	81	93	76	80	80	74	69		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	614	165	449	160	130	69	90		
LESS THAN \$50	93	26	67	24	17	10	17		
\$50 TO \$99.	62	13	50	15	16	10	9		
\$100 TO \$199.	89	20	69	31	18	8	12		
\$200 TO \$399.	126	23	103	41	30	16	16		
\$400 OR MORE.	124	34	90	33	28	10	19		
DON'T KNOW.	67	33	34	8	9	9	8		
NOT REPORTED.	53	17	36	9	11	7	9		
MEDIAN.	205	195	208	213	223	188	187		

TABLE D-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978
(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												NO ELEC- TRICITY USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)
		LESS THAN \$10 \$19	\$10 TO \$29	\$20 TO \$39	\$30 TO \$49	\$40 TO \$49	\$50 TO \$59	\$60 TO \$79	\$80 TO \$99	\$100 TO \$149	\$150 OR MORE				
SPECIFIED OWNER OCCUPIED ²	13 447	127	1 181	2 093	2 271	1 818	1 814	2 210	936	811	175	12	45		
HOUSE HEATING FUEL															
ELECTRICITY	3 326	3	41	140	239	343	542	943	483	477	115	-	67		
OTHER THAN ELECTRICITY	10 068	123	1 138	1 942	2 017	1 464	1 271	1 260	452	332	60	10	38		
UTILITY GAS	7 115	94	790	1 375	1 367	998	936	930	338	246	40	2	39		
BOTTLED, TANK, OR LP GAS	919	12	143	204	183	134	92	90	33	23	5	1	38		
FUEL OIL	1 657	7	144	272	388	285	204	207	77	58	14	1	41		
KEROSENE, ETC.	114	1	18	27	12	13	12	-	2	2	2	-	34		
COAL OR COKE	55	2	11	16	11	6	2	6	1	-	-	-	28		
WOOD	206	6	31	48	42	28	24	15	4	2	-	5	33		
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTHER FUEL	2	-	-	-	-	2	1	-	-	-	-	-	-	-	
NONE	52	-	2	11	15	11	1	7	2	2	-	2	37		
WATER HEATING FUEL ³															
ELECTRICITY	6 134	17	240	599	846	842	918	1 353	638	554	128	-	55		
OTHER FUEL	7 114	90	862	1 442	1 402	965	891	855	298	257	47	6	37		
NONE	4	-	2	1	-	-	-	-	-	-	-	1	***		
COOKING FUEL															
ELECTRICITY	8 451	23	354	945	1 293	1 199	1 281	1 735	784	681	155	-	53		
OTHER FUEL	4 990	99	827	1 148	978	618	532	475	152	129	20	10	34		
NONE	6	5	-	-	-	-	-	-	-	-	-	2	***		
ALL ELECTRIC HOUSING UNITS															
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	3 027	-	35	106	194	309	502	878	456	440	107	-	68		
ALL OTHER FUEL COMBINATIONS OR NONE	10 419	126	1 146	1 987	2 077	1 508	1 312	1 332	480	371	69	12	39		
HEATING EQUIPMENT															
WARM-AIR FURNACE	7 206	30	292	892	1 130	1 032	1 103	1 390	643	568	124	2	52		
HEAT PUMP	490	2	1	9	23	41	88	140	74	96	16	-	71		
STEAM OR HOT WATER	424	6	76	84	114	47	37	40	12	4	3	-	34		
BUILT-IN ELECTRIC UNITS	1 077	-	26	62	99	145	198	330	118	80	20	-	61		
FLOOR, WALL, OR PIPELESS FURNACE	1 266	16	189	310	275	181	125	110	35	18	5	-	34		
ROOM HEATERS WITH FLUE	986	23	204	241	234	111	87	58	18	9	1	1	31		
ROOM HEATERS WITHOUT FLUE	1 356	38	315	347	268	166	112	69	20	15	2	2	28		
FIREPLACES, STOVES, OR PORTABLE HEATERS	589	11	76	137	113	82	63	67	15	17	2	5	35		
NONE	52	-	2	11	15	11	1	7	2	2	-	2	37		
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT	52	-	2	11	15	11	1	7	2	2	-	2	37		
WITH HEATING EQUIPMENT	13 395	127	1 179	2 081	2 257	1 806	1 813	2 203	935	809	175	10	45		
NO THERMOSTAT CONTROL	2 786	66	537	642	544	334	281	234	83	52	8	7	32		
WITH THERMOSTAT CONTROL	10 576	60	639	1 431	1 706	1 473	1 530	1 963	851	754	165	3	49		
NOT CLOCK OPERATED	8 804	46	506	1 192	1 431	1 232	1 281	1 655	715	619	126	1	49		
CONSTANT TEMPERATURE SETTING MAINTAINED	2 611	15	167	319	438	321	390	500	231	196	33	-	51		
TEMPERATURE SETTING IS CHANGED	6 132	28	339	860	984	911	876	1 141	481	417	93	1	48		
OCCASIONALLY	1 848	7	108	215	304	270	251	392	173	135	33	-	51		
REGULARLY	4 186	20	228	623	664	624	611	779	301	280	55	1	48		
DON'T KNOW	88	1	2	20	17	13	14	11	7	2	4	-	44		
NOT REPORTED	9	-	2	2	-	4	1	-	-	-	-	-	**		
NOT REPORTED	61	2	-	12	9	-	15	14	2	6	-	-	54		
CLOCK OPERATED	1 725	14	132	232	270	232	245	296	133	131	39	1	48		
NOT REPORTED	47	1	2	7	4	9	4	12	4	4	-	-	52		
NOT REPORTED	33	1	3	8	7	-	2	6	1	3	2	-	**		
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	641	11	78	149	128	93	63	74	17	19	2	7	36		
WITH SELECTED HEATING EQUIPMENT	12 805	115	1 103	1 944	2 143	1 724	1 750	2 136	920	792	173	5	46		
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	12 075	107	1 058	1 836	2 014	1 617	1 657	2 004	864	760	154	5	46		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	664	8	36	97	115	100	86	125	50	29	18	-	47		
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STOVE, BURNING WOOD OR COAL	184	-	15	26	34	22	26	34	12	8	6	-	47		
FIREPLACE, BURNING WOOD OR COAL	86	-	7	17	15	10	25	5	7	7	-	-	54		
PORTABLE ELECTRIC HEATER	191	4	9	33	36	33	21	31	12	5	7	-	44		
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	64	4	6	13	9	13	8	6	6	6	-	1	41		
OTHER	132	-	7	14	20	16	19	31	11	8	7	-	55		
NOT REPORTED	12	-	-	5	2	2	2	-	3	-	-	-	**		
NOT REPORTED	66	1	8	12	14	7	8	6	6	3	2	-	38		
AGE OF HEATING EQUIPMENT															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 983	72	597	736	631	370	262	201	54	43	7	9	31		
WITH SELECTED HEATING EQUIPMENT	10 463	54	584	1 357	1 641	1 447	1 551	2 009	882	767	168	2	51		
LESS THAN 4 YEARS	2 417	12	65	216	290	286	403	583	273	245	45	-	58		
4 TO 9 YEARS	3 234	9	138	333	418	442	492	673	345	309	74	1	53		
10 TO 19 YEARS	3 092	12	155	451	557	479	451	563	203	185	36	-	47		
20 TO 39 YEARS	1 107	14	146	230	250	154	143	115	39	11	6	-	36		
40 YEARS OR MORE	63	2	14	17	15	4	4	7	-	1	-	-	29		
DON'T KNOW	474	3	59	104	93	69	48	63	19	13	3	1	37		
NOT REPORTED	77	2	7	17	12	10	6	4	5	5	5	-	43		

¹ RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

² LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³ LIMITED TO HOUSING UNITS WITH 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: 1978--CONTINUED
(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												MEDIAN (DOL- LARS)
		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 ELEC- TRICITY USED OR NOT REPORTED ¹		
SPECIFIED OWNER OCCUPIED²--CONTINUED														
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	2 983	72	597	736	631	370	262	201	54	43	7	9	31	
WITH SELECTED HEATING EQUIPMENT?	10 463	54	584	1 357	1 641	1 447	1 551	2 009	882	767	168	2	51	
NO MAINTENANCE OR MODIFICATION.	8 539	43	471	1 134	1 329	1 171	1 277	1 658	717	617	121	1	51	
WITH MAINTENANCE OR MODIFICATION.	1 843	7	107	211	300	267	266	342	155	188	41	1	51	
NOT REPORTED.	81	5	6	13	12	10	8	9	10	3	6	-	45	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	2 983	72	597	736	631	370	262	201	54	43	7	9	31	
WITH SELECTED HEATING EQUIPMENT?	10 463	54	584	1 357	1 641	1 447	1 551	2 009	882	767	168	2	51	
NO MAINTENANCE CONTRACT.	9 277	43	507	1 195	1 428	1 291	1 393	1 812	789	678	139	2	51	
WITH MAINTENANCE CONTRACT.	1 083	8	68	147	192	144	142	187	86	84	25	-	48	
NOT REPORTED.	104	4	9	15	21	12	16	10	8	5	4	-	42	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT														
NO HOT PIPED WATER.	195	20	79	50	23	11	5	2	1	-	1	5	19	
WITH HOT PIPED WATER.	13 252	107	1 102	2 043	2 248	1 807	1 809	2 208	936	811	174	7	46	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	12 967	104	1 066	1 992	2 200	1 773	1 769	2 185	916	793	164	5	46	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ³ .	69	-	2	11	8	10	6	7	9	6	-	-	53	
NOT REPORTED.	205	3	33	37	37	23	29	17	10	9	5	1	37	
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-	-	
AIR CONDITIONING														
WITH AIR CONDITIONING.	10 479	34	488	1 298	1 675	1 482	1 620	2 048	886	783	165	1	51	
ROOM UNITS.	4 801	26	420	902	1 054	764	644	651	205	118	14	1	39	
1.	2 638	22	301	559	597	396	298	308	102	51	2	1	42	
2.	1 525	2	93	268	331	283	224	231	67	40	5	-	47	
3.	462	-	16	57	96	79	96	73	22	18	5	-	52	
4.	122	2	7	14	21	13	23	26	9	5	2	-	47	
5 OR MORE.	54	-	3	5	9	13	3	13	5	3	-	-	61	
CENTRAL SYSTEM.	5 678	8	68	395	621	718	976	1 397	680	665	151	-	28	
WITH NO AIR CONDITIONING.	2 968	93	693	795	596	336	194	161	51	28	10	10	-	
PERSONS														
1 PERSON.	1 928	73	536	498	311	165	149	133	25	30	2	5	26	
2 PERSONS.	4 121	32	368	774	832	606	561	576	194	153	26	2	41	
3 PERSONS.	2 574	8	130	331	427	404	386	510	186	161	30	1	49	
4 PERSONS.	2 612	11	73	247	372	374	409	566	284	225	49	2	55	
5 PERSONS.	1 290	3	33	133	174	165	197	258	150	139	37	1	56	
6 PERSONS.	531	-	17	59	74	58	67	117	50	71	18	1	58	
7 PERSONS OR MORE.	390	-	24	52	80	45	44	50	48	32	14	-	48	
MEDIAN.	2.8	1.5-	1.6	2.2	2.5	2.8	3.0	3.3	3.7	3.8	4.1	-	***	
SPECIFIED OWNER OCCUPIED²														
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS.	13 447	127	1 181	2 093	2 271	1 818	1 814	2 210	936	811	175	12	45	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED.	4 040	34	306	623	708	546	564	682	289	233	54	1	46	
SOME WINDOWS COVERED.	1 365	13	133	250	262	192	153	209	77	52	21	2	41	
NO WINDOWS COVERED.	8 003	79	738	1 216	1 295	1 074	1 090	1 313	569	520	100	9	46	
NOT REPORTED.	38	-	4	3	6	5	6	6	2	5	-	-	50	
STORM DOORS														
ALL DOORS COVERED.	4 115	34	325	730	792	585	566	619	239	188	36	2	43	
SOME DOORS COVERED.	2 601	21	201	390	460	373	369	446	187	130	23	-	46	
NO DOORS COVERED.	6 666	72	650	963	1 012	853	871	1 135	504	482	115	9	47	
NOT REPORTED.	64	-	6	9	7	6	8	10	6	11	1	-	54	
ATTIC OR ROOF INSULATION														
YES.	10 630	54	575	1 410	1 758	1 525	1 575	1 981	837	755	158	2	49	
NO.	2 348	65	522	585	435	232	189	181	75	45	11	9	29	
DON'T KNOW.	430	6	80	94	72	55	47	44	21	4	7	-	34	
NOT REPORTED.	39	2	5	4	6	5	2	4	4	7	-	-	44	
SPECIFIED RENTER OCCUPIED³														
HOUSE HEATING FUEL	7 904	375	1 398	1 360	1 088	766	492	474	131	100	12	1	708	29
ELECTRICITY.	2 264	19	151	290	313	340	246	242	64	57	7	-	535	42
OTHER THAN ELECTRICITY.	5 505	389	1 223	1 046	747	418	238	229	67	44	5	1	139	25
UTILITY GAS.	3 901	274	897	734	512	273	163	162	45	30	5	-	807	25
BOTTLED, TANK, OR LP GAS.	426	14	92	99	73	42	27	28	10	5	-	-	36	28
FUEL OIL.	835	27	144	139	106	69	35	30	8	7	-	-	271	27
KEROSENE, ETC.	95	7	10	26	16	18	6	5	2	-	-	-	6	31
COAL OR COKE.	68	10	21	12	11	6	5	5	2	-	-	-	6	20
WOOD.	175	16	60	36	29	11	5	5	2	1	-	-	10	22
SOLAR HEAT.	5	2	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL.	136	6	25	24	27	9	6	2	-	-	-	-	3	**
NON.	-	-	-	-	-	-	-	-	-	-	-	-	35	27

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: 1978--CONTINUED
(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													MEDIAN (DOL- LARS)	
		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 ELEC- TRICITY USED OR NOT REPORTED ¹				
SPECIFIED RENTER OCCUPIED²--CONTINUED																
WATER HEATING FUEL³																
ELECTRICITY	3 346	47	327	523	583	494	316	304	92	71	5	1	582	37		
OTHER FUEL.	4 248	280	934	774	478	267	172	168	38	29	7	1	1 102	24		
NONE.	8	1	2	2	-	2	-	-	-	-	-	2	***			
COOKING FUEL																
ELECTRICITY	3 785	93	397	577	634	511	356	319	90	69	7	1	732	37		
OTHER FUEL.	4 082	282	996	781	453	255	136	154	41	30	5	1	949	23		
NONE.	37	-	5	2	1	-	-	-	1	-	-	-	28	***		
ALL ELECTRIC HOUSING UNITS																
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL.	1 835	11	105	234	267	307	217	211	60	49	5	1	370	43		
ALL OTHER FUEL COMBINATIONS OR NONE	6 069	364	1 293	1 125	821	460	276	263	72	52	6	1	1 339	26		
HEATING EQUIPMENT																
WARM-AIR FURNACE.	3 308	62	338	481	415	370	273	264	72	66	10	1	959	36		
HEAT PUMP	159	6	9	11	25	29	16	25	8	3	-	1	25	45		
STEAM OR HOT WATER.	535	52	114	60	26	26	2	5	3	-	-	1	244	17		
BUILT-IN ELECTRIC UNITS	627	4	65	101	112	98	65	61	20	9	1	1	91	38		
FLOOR, WALL, OR PIPELESS FURNACE.	748	36	187	153	119	68	40	33	10	5	-	1	97	26		
ROOM HEATERS WITH FLUE.	798	61	190	170	146	64	21	31	7	3	-	1	104	25		
ROOM HEATERS WITHOUT FLUE.	1 163	110	349	275	140	71	51	38	7	10	-	1	112	22		
FIREPLACES, STOVES, OR PORTABLE HEATERS	430	36	121	85	78	31	15	16	3	4	2	1	41	24		
NONE.	136	6	25	24	27	9	8	2	-	-	-	1	35	27		
THERMOSTAT CONTROLLED HEATING EQUIPMENT																
NO HEATING EQUIPMENT.	136	6	25	24	27	9	8	2	-	-	-	1	35	27		
WITH HEATING EQUIPMENT.	7 768	368	1 373	1 336	1 060	758	484	471	131	100	12	1	1 674	29		
NO THERMOSTAT CONTROL	2 933	240	766	563	393	202	107	97	26	18	2	1	519	23		
WITH THERMOSTAT CONTROL	4 816	126	604	769	665	553	377	373	105	83	10	1	1 149	35		
NOT CLOCK OPERATED.	3 974	103	507	613	556	466	300	305	77	67	4	1	977	34		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 395	38	157	187	197	159	89	116	34	24	3	1	392	35		
TEMPERATURE SETTING IS CHANGED.	2 511	63	340	417	350	299	206	182	41	41	1	1	572	34		
OCCASIONALLY.	856	22	102	141	124	99	67	50	18	9	-	1	223	34		
REGULARLY.	1 573	40	223	266	215	188	133	125	22	31	1	1	330	34		
DON'T KNOW.	73	2	14	7	9	12	6	8	-	-	1	1	16	36		
NOT REPORTED.	10	-	2	3	2	1	-	-	-	-	1	1	3	**		
CLOCK OPERATED.	67	2	9	9	9	5	7	3	1	-	1	1	14	38		
NOT REPORTED.	43	2	7	9	5	8	5	4	1	-	1	1	6	32		
NOT REPORTED.	19	2	3	3	2	2	-	1	-	-	1	1	5	**		
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	566	43	146	108	105	39	23	18	3	4	2	1	76	25		
WITH SELECTED HEATING EQUIPMENT ⁴	7 338	332	1 252	1 252	982	727	470	456	128	96	10	1	1 633	30		
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 033	312	1 183	1 179	947	706	456	436	126	95	10	1	1 585	30		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	251	18	58	59	31	19	14	17	1	1	1	1	32	25		
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
STOVE, BURNING WOOD OR COAL	21	1	4	7	3	3	2	1	-	-	-	1	-	-		
Fireplace, Burning Wood or Coal	3	-	1	-	1	1	-	1	-	-	-	1	-	-		
PORTABLE ELECTRIC HEATER.	157	11	31	35	19	9	12	11	-	-	1	1	26	26		
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	46	6	16	13	3	2	1	2	-	-	-	1	2	19		
OTHER	23	-	6	3	4	2	1	2	1	-	-	1	3	**		
NOT REPORTED.	1	-	-	-	1	1	-	2	-	-	-	1	-	-		
NOT REPORTED.	54	2	12	14	5	2	-	2	2	-	-	1	16	24		
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																
NO HOT PIPED WATER.	302	46	135	61	27	4	4	2	1	1	-	1	22	16		
WITH HOT PIPED WATER.	7 602	328	1 263	1 299	1 061	762	488	472	130	100	12	1	1 687	31		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 402	321	1 226	1 261	1 032	746	478	467	123	100	12	1	1 637	31		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁵	28	2	5	4	6	2	3	-	3	-	-	1	3	**		
NOT REPORTED.	162	5	29	32	22	13	8	5	4	-	-	1	44	27		
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
AIR CONDITIONING																
WITH AIR CONDITIONING	5 013	103	550	749	753	606	411	413	120	96	10	1	1 201	36		
ROOM UNITS.	2 346	88	368	449	453	265	161	146	43	29	2	1	342	32		
1	1 737	74	310	327	345	183	104	93	19	17	1	1	264	31		
2	500	14	47	106	87	71	49	44	18	8	-	1	58	36		
3	88	-	8	17	16	11	6	6	4	3	2	1	16	37		
4	15	-	3	3	3	-	-	2	2	2	1	1	3	**		
5 OR MORE	5	-	-	-	2	-	-	1	-	-	-	1	2	**		
CENTRAL SYSTEM.	2 667	14	182	300	300	342	250	267	77	67	8	1	859	43		
WITH NO AIR CONDITIONING.	2 891	272	848	611	335	160	81	61	11	5	2	1	507	21		
PERSONS																
1 PERSON.	2 554	247	541	414	303	162	82	55	7	14	2	1	729	23		
2 PERSONS	2 277	66	377	422	328	274	172	128	24	20	-	1	468	31		
3 PERSONS	1 327	24	207	210	206	150	108	114	37	15	-	1	257	34		
4 PERSONS	909	16	139	154	115	86	80	101	40	32	7	1	138	36		
5 PERSONS	413	13	62	75	60	48	26	46	12	9	3	1	58	34		
6 PERSONS	211	3	42	35	42	20	15	13	8	7	-	1	26	32		
7 PERSONS OR MORE	213	3	31	49	34	28	10	16	3	4	-	1	34	32		
MEDIAN.	2.1	1.5-	1.9	2.1	2.2	2.3	2.4	3.0	3.4	3.5	...	1	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: 1978--CONTINUED
(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 ELEC- TRICITY USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)	
SPECIFIED RENTER OCCUPIED ²	7 904	375	1 398	1 360	1 088	766	492	474	131	100	12	1 708	29	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	3 598	145	750	762	604	340	253	275	84	77	12	297	29	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED	534	5	82	100	90	57	56	54	14	13	2	60	35	
SOME WINDOWS COVERED	263	10	52	69	46	28	13	26	9	4	1	26	29	
NO WINDOWS COVERED	2 675	119	601	571	460	248	179	187	59	58	8	185	28	
NOT REPORTED	106	11	16	21	8	7	5	7	2	2	2	26	26	
STORM DOORS														
ALL DOORS COVERED	487	5	76	84	110	56	42	50	5	10	1	48	35	
SOME DOORS COVERED	371	7	71	81	53	42	33	28	15	5	3	32	32	
NO DOORS COVERED	2 614	121	586	567	429	234	173	188	60	59	6	190	28	
NOT REPORTED	126	12	17	30	11	8	5	8	3	3	2	27	26	
ATTIC OR ROOF INSULATION														
YES	1 279	21	176	213	214	155	129	145	49	46	7	123	37	
NO	1 318	81	368	326	215	91	66	64	15	17	2	74	25	
DON'T KNOW	879	34	186	198	166	82	53	58	18	12	1	72	28	
NOT REPORTED	121	10	20	24	9	12	5	9	2	2	2	28	26	

¹RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)
		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					
SPECIFIED OWNER OCCUPIED ²	13 447	809	954	1 129	1 370	1 038	1 587	985	836	206	68	4 463	26		
HOUSE HEATING FUEL															
GAS															
UTILITY GAS	8 034	517	776	1 014	1 266	975	1 502	936	797	191	60	-	27		
BOTTLED, TANK, OR LP GAS.	7 115	446	692	904	1 142	888	1 351	829	685	145	34	-	27		
OTHER THAN GAS	919	71	83	110	124	87	1 51	107	112	46	26	-	28		
FUEL OIL	5 361	286	173	112	98	60	84	49	39	15	8	4 436	15		
KEROSENE, ETC	1 657	127	77	47	40	18	29	14	11	6	5	1 284	13		
ELECTRICITY	114	12	11	7	6	2	2	1	-	2	-	70	13		
COAL OR COKE	55	6	2	3	1	-	-	-	1	-	-	44	44		
WOOD	206	17	17	15	6	2	5	6	5	2	1	130	16		
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-		
OTHER FUEL	2	-	-	-	-	-	-	-	-	-	-	2	-		
NONE	52	6	6	3	6	3	2	-	-	-	-	27	27	27	
WATER HEATING FUEL ³															
GAS	6 890	449	728	875	1 112	839	1 274	764	650	156	44	-	26		
UTILITY GAS	6 313	409	667	798	1 034	782	1 190	696	584	128	27	-	26		
BOTTLED, TANK, OR LP GAS	576	40	61	77	77	58	84	69	66	28	17	-	27		
OTHER FUEL	6 358	336	202	223	246	190	294	208	170	50	24	4 416	23		
NONE	4	-	1	1	-	-	1	-	-	-	-	2	2	27	
COOKING FUEL															
GAS	4 942	457	584	702	816	537	794	493	425	100	35	-	24		
UTILITY GAS	4 075	304	475	585	714	475	684	412	340	72	15	-	24		
BOTTLED, TANK, OR LP GAS	868	153	109	118	102	62	110	81	85	28	20	-	22		
OTHER FUEL	8 498	352	369	427	554	501	794	490	411	106	33	4 460	28		
NONE	6	-	1	-	-	-	2	-	-	-	-	3	3	27	
ALL GAS HOUSING UNITS															
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	3 864	224	414	537	684	448	676	420	354	82	23	-	26		
ALL OTHER FUEL COMBINATIONS OR NONE	9 583	584	541	592	686	590	911	564	482	124	45	4 463	26		
HEATING EQUIPMENT															
WARM-AIR FURNACE	7 206	316	399	518	768	600	1 007	657	573	129	37	2 202	28		
HEAT PUMP	490	6	11	1	4	3	4	2	7	-	1	450	22		
STEAM OR HOT WATER	424	47	33	24	22	23	41	37	49	9	7	133	28		
BUILT-IN ELECTRIC UNITS	1 077	47	14	5	6	11	9	5	3	2	1	973	11		
FLOOR, WALL, OR PIPELESS FURNACE	1 266	102	154	169	195	159	191	86	58	21	3	128	23		
ROOM HEATERS WITH FLUE	986	91	99	107	115	71	110	76	47	25	8	237	23		
ROOM HEATERS WITHOUT FLUE	1 356	130	177	258	223	151	200	102	79	15	10	12	22		
FIREPLACES, STOVES, OR PORTABLE HEATERS	589	65	63	43	30	16	25	19	19	6	2	301	17		
NONE	52	6	6	3	6	3	2	-	-	-	-	27	27	27	
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT	52	6	3	6	3	2	-	-	-	-	-	27	27	27	
WITH HEATING EQUIPMENT	13 395	803	949	1 126	1 365	1 035	1 586	985	836	206	68	4 436	26		
NO THERMOSTAT CONTROL	2 786	278	324	318	218	311	155	130	32	16	16	622	21		
WITH THERMOSTAT CONTROL	10 576	522	618	743	1 043	814	1 273	828	704	173	50	3 806	27		
NOT CLOCK OPERATED	8 804	452	503	608	838	686	1 084	678	585	133	44	3 194	27		
CONSTANT TEMPERATURE SETTING MAINTAINED	2 611	158	134	174	238	200	270	212	152	33	10	1 031	27		
TEMPERATURE SETTING IS CHANGED	6 132	282	362	428	600	487	809	462	430	100	34	2 137	28		
OCCASIONALLY	1 848	91	100	131	192	127	213	130	129	32	7	698	27		
REGULARLY	4 186	187	256	286	407	351	587	528	293	68	28	1 395	28		
DON'T KNOW	88	4	6	9	1	9	8	4	8	-	-	40	27		
NOT REPORTED	9	-	3	-	-	2	-	-	-	-	-	4	27		
CLOCK OPERATED	1 725	67	107	132	198	123	181	149	117	40	6	604	27		
NOT REPORTED	47	4	8	3	7	5	8	2	2	-	-	8	22		
NOT REPORTED	33	2	6	3	4	3	2	1	2	1	2	7	22	22	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	641	70	68	46	36	20	27	19	19	6	2	328	17		
WITH SELECTED HEATING EQUIPMENT ⁴	12 805	739	886	1 083	1 334	1 019	1 561	965	817	201	66	4 135	26		
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	12 075	693	833	1 019	1 270	962	1 490	923	777	192	60	3 855	26		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	664	37	47	57	58	50	59	42	34	8	6	266	24		
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-		
STOVE, BURNING WOOD OR COAL	184	9	10	16	7	8	9	10	5	3	2	105	22		
FIREPLACE, BURNING WOOD OR COAL	86	2	9	4	3	8	8	3	5	5	-	44	27		
PORTABLE ELECTRIC HEATER	191	8	13	19	27	9	24	14	11	1	-	65	24		
ROOM HEATER WITHOUT FLUE OR VENT	-	-	-	-	-	-	-	-	-	-	-	-	-		
BURNING GAS, OIL, OR KEROSENE	64	6	6	6	10	9	8	4	6	1	1	7	25		
OTHER	132	11	8	9	9	15	7	10	7	2	3	48	26		
NOT REPORTED	12	2	1	2	2	1	2	-	-	-	-	2	2	2	
NOT REPORTED	66	8	6	7	6	7	11	1	5	1	1	14	23		
AGE OF HEATING EQUIPMENT															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 983	291	344	412	374	241	336	197	145	45	20	577	22		
WITH SELECTED HEATING EQUIPMENT ⁵	10 463	517	611	718	996	797	1 251	788	691	161	48	3 886	27		
LESS THAN 4 YEARS	2 417	108	101	134	175	123	227	116	117	31	17	1 257	27		
4 TO 9 YEARS	3 234	135	170	187	270	248	366	237	215	49	8	1 348	28		
10 TO 19 YEARS	3 092	144	180	237	357	282	439	275	216	59	16	886	28		
20 TO 39 YEARS	1 107	75	103	94	122	92	149	99	83	11	6	274	26		
40 YEARS OR MORE	63	9	8	8	3	3	5	9	7	2	2	7	22		
DON'T KNOW	474	43	43	40	54	47	57	47	47	9	1	85	26		
NOT REPORTED	77	2	5	16	13	2	8	5	5	2	1	17	22		

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 D-9. MONTHLY COST PAID FOR GAS BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978--CONTINUED
(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													MEDIAN (DOL- LARS)	
		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				
SPECIFIED OWNER OCCUPIED²--CONTINUED																
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	2 983	291	344	412	374	241	336	197	145	45	20	577	22			
WITH SELECTED HEATING EQUIPMENT ³ .	10 463	517	611	718	996	797	1 251	788	691	161	48	3 886	27			
NO MAINTENANCE OR MODIFICATION.	8 539	414	507	600	663	649	1 034	644	545	132	32	3 119	27			
WITH MAINTENANCE OR MODIFICATION.	1 843	97	97	101	123	144	210	140	141	29	15	747	29			
NOT REPORTED.	81	7	7	16	10	4	7	4	5	1	1	19	20			
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	2 983	291	344	412	374	241	336	197	145	45	20	577	22			
WITH SELECTED HEATING EQUIPMENT ³ .	10 463	517	611	718	996	797	1 251	788	691	161	48	3 886	27			
NO MAINTENANCE CONTRACT.	9 277	417	547	638	905	721	1 149	720	604	136	37	3 401	27			
WITH MAINTENANCE CONTRACT.	1 083	94	59	60	75	72	89	61	81	25	10	457	26			
NOT REPORTED.	104	6	5	19	15	4	13	7	5	1	1	27	22			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																
NO HOT PIPED WATER.	195	25	23	30	13	9	19	13	17	1	1	45	19			
WITH HOT PIPED WATER.	13 252	784	931	1 099	1 357	1 029	1 569	972	819	206	67	4 418	26			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	12 967	764	907	1 079	1 327	994	1 541	960	812	198	67	4 318	26			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴ .	69	2	5	4	10	6	7	2	-	2	-	31	23			
NOT REPORTED.	205	18	16	15	20	29	20	10	7	6	-	64	25			
AIR CONDITIONING																
WITH AIR CONDITIONING	10 479	554	697	807	1 093	810	1 272	798	657	155	54	3 582	26			
ROOM UNITS.	4 801	345	396	473	560	420	601	328	216	65	21	1 374	24			
1.	2 638	210	216	273	293	218	307	163	112	35	10	799	23			
2.	1 525	96	140	137	194	135	192	116	68	18	5	424	24			
3.	462	29	31	49	52	41	75	38	21	11	4	111	26			
4.	122	9	5	10	10	20	19	7	11	1	2	28	28			
5 OR MORE.	54	1	3	3	11	7	8	3	4	-	-	13	26			
CENTRAL SYSTEM.	5 678	209	301	334	533	390	671	470	441	90	32	2 208	29			
WITH NO AIR CONDITIONING.	2 968	255	257	323	278	228	315	187	179	52	15	681	23			
PERSONS																
1 PERSON.	1 928	185	198	263	231	184	174	99	84	22	11	476	21			
2 PERSONS.	4 121	280	310	356	412	347	479	268	199	47	11	1 413	24			
3 PERSONS.	2 578	124	158	180	202	179	302	202	164	44	15	934	27			
4 PERSONS.	2 612	128	176	164	242	159	321	217	175	43	16	970	28			
5 PERSONS.	1 290	51	55	89	126	106	187	103	122	34	5	414	31			
6 PERSONS.	531	27	32	58	47	33	65	54	48	11	2	155	28			
7 PERSONS OR MORE.	390	14	24	20	41	30	59	43	44	5	8	101	32			
MEDIAN.	2.8	2.3	2.4	2.3	2.6	2.5	3.0	3.1	3.3	3.3	3.3	2.9	...			
SPECIFIED OWNER OCCUPIED²																
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS.	13 447	809	954	1 129	1 370	1 038	1 587	985	836	206	68	4 463	26			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	13 447	809	954	1 129	1 370	1 038	1 587	985	836	206	68	4 463	26			
ALL WINDOWS COVERED.	4 040	195	168	199	323	274	426	323	262	64	20	1 787	29			
SOME WINDOWS COVERED.	1 365	77	95	89	128	87	187	121	93	35	11	442	28			
NO WINDOWS COVERED.	8 003	534	687	836	917	675	969	541	479	107	37	2 220	24			
NOT REPORTED.	38	3	4	5	2	2	5	1	2	1	-	15	...			
STORM DOORS																
ALL DOORS COVERED.	4 115	206	203	249	359	326	468	331	277	70	18	1 610	28			
SOME DOORS COVERED.	2 601	133	153	210	274	212	339	205	194	48	18	812	27			
NO DOORS COVERED.	6 666	467	590	660	732	499	776	447	362	87	32	2 014	23			
NOT REPORTED.	64	2	8	10	6	1	4	2	3	1	-	27	18			
ATTIC OR ROOF INSULATION																
YES.	10 630	533	660	750	1 027	794	1 264	794	654	147	47	3 959	27			
NO.	2 348	217	259	316	282	213	278	170	149	45	21	398	23			
DON'T KNOW.	430	54	33	56	59	30	43	19	30	13	-	93	22			
NOT REPORTED.	39	5	2	7	2	2	2	2	3	1	-	13	...			
SPECIFIED RENTER OCCUPIED³																
HOUSE HEATING FUEL	7 904	733	638	553	392	323	424	229	178	37	21	4 377	18			
GAS.	4 326	493	532	471	346	291	404	218	163	36	15	1 356	19			
UTILITY GAS.	3 901	436	486	417	305	253	357	171	129	30	11	1 307	19			
BOTTLED, TANK, OR LP GAS.	426	57	47	54	42	38	48	47	34	6	4	49	23			
OTHER THAN GAS.	3 442	216	92	76	42	27	16	10	14	1	6	2 941	11			
FUEL OIL.	835	94	39	34	19	10	7	2	7	-	4	619	11			
KEROSENE, ETC.	95	13	2	5	6	2	2	2	1	-	-	63	...			
ELECTRICITY.	2 264	75	35	28	12	10	3	7	3	1	-	2 090	11			
COAL OR COKE.	68	12	3	1	-	-	1	-	-	-	1	51	...			
WOOD.	175	21	14	9	6	5	3	-	3	-	1	114	13			
SOLAR HEAT.	5	2	-	-	-	-	-	-	-	-	-	-	-			
OTHER FUEL.	136	24	13	6	3	5	3	-	1	-	-	3	...			
NONE.	136	24	13	6	3	5	3	-	1	-	-	80	11			

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

⁴LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

⁵EXCLUDES 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: 1978--CONTINUED
(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 TO MORE	NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)		
SPECIFIED RENTER OCCUPIED²--CONTINUED															
WATER HEATING FUEL ³															
GAS	3 968	462	481	412	295	244	314	171	124	25	11	1 430	18		
UTILITY GAS	3 704	435	456	371	273	226	288	148	108	20	6	1 373	18		
BOTTLED, TANK, OR LP GAS	265	27	25	42	21	18	26	23	16	5	4	57	22		
OTHER FUEL	3 626	233	121	106	78	67	94	47	45	11	9	2 815	17		
NONE	8	-	-	2	-	-	-	-	-	-	-	7	...		
COOKING FUEL															
GAS	4 036	627	498	454	282	282	300	162	118	28	10	1 320	17		
UTILITY GAS	3 495	503	424	367	243	210	254	124	88	22	3	1 256	17		
BOTTLED, TANK, OR LP GAS	542	124	74	87	38	31	46	38	27	6	7	64	17		
OTHER FUEL	3 831	106	138	98	110	81	124	66	68	9	11	3 026	22		
NONE	37	-	2	1	-	1	-	-	-	-	-	33	...		
ALL GAS HOUSING UNITS															
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 740	333	356	332	208	184	249	133	83	23	2	836	18		
ALL OTHER FUEL COMBINATIONS OR NONE	5 164	400	282	221	184	138	174	96	95	14	19	3 541	18		
HEATING EQUIPMENT															
WARM-AIR FURNACE	3 308	191	167	143	135	102	122	82	67	13	6	2 281	20		
HEAT PUMP	159	21	2	2	-	1	-	-	-	-	-	133	...		
STEAM OR HOT WATER	535	72	30	22	9	6	11	9	12	-	-	363	12		
BUILT-IN ELECTRIC UNITS	627	26	2	17	3	2	2	2	2	1	-	572	13		
FLOOR, WALL, OR PIPELESS FURNACE	748	94	111	89	56	50	71	32	25	3	1	216	18		
ROOM HEATERS WITH FLUE	798	83	75	72	58	59	72	34	25	6	10	303	21		
ROOM HEATERS WITHOUT FLUE	1 163	170	191	178	115	90	131	66	43	14	2	163	18		
FIREPLACES, STOVES, OR PORTABLE HEATERS	430	53	47	24	12	10	11	3	4	-	2	265	13		
NONE	136	24	13	6	3	5	3	-	1	-	-	80	11		
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT	136	24	13	6	3	5	3	-	1	-	-	80	11		
WITH HEATING EQUIPMENT	7 768	709	625	547	389	318	421	229	177	37	21	4 297	18		
NO THERMOSTAT CONTROL	2 933	397	328	285	182	150	200	91	61	18	11	1 211	17		
WITH THERMOSTAT CONTROL	4 816	309	295	257	207	168	221	137	117	19	10	3 076	20		
NOT CLOCK OPERATED	3 974	258	235	200	171	137	187	113	97	13	7	2 555	20		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 395	81	71	74	48	37	42	41	33	3	6	959	19		
TEMPERATURE SETTING IS CHANGED	2 511	165	158	123	121	98	144	72	65	6	4	1 555	21		
OCCASIONALLY	856	53	46	39	36	30	50	18	16	2	1	566	21		
REGULARLY	1 573	108	107	83	79	68	87	48	44	4	2	942	21		
DON'T KNOW	73	4	3	2	4	-	8	6	4	-	1	42	...		
NOT REPORTED	10	-	3	-	2	-	-	-	-	-	-	5	...		
NOT REPORTED	67	13	6	3	2	1	-	-	-	2	-	41	...		
CLOCK OPERATED	799	49	54	54	34	29	34	24	18	5	2	494	19		
NOT REPORTED	43	2	5	3	2	1	1	1	1	1	-	26	...		
NOT REPORTED	19	2	2	5	-	1	-	-	-	-	-	9	...		
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	566	76	60	30	15	15	15	3	5	-	2	346	12		
WITH SELECTED HEATING EQUIPMENT	7 338	656	578	523	377	308	409	225	173	37	19	4 032	18		
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	7 033	623	544	495	357	292	385	208	161	35	19	3 915	16		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	251	25	29	23	17	14	22	17	13	2	-	89	21		
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-		
STOVE, BURNING WOOD OR COAL	21	2	2	2	4	-	1	3	1	-	-	7	...		
FIREPLACE, BURNING WOOD OR COAL	3	-	1	1	-	-	-	-	1	-	-	1	...		
PORTABLE ELECTRIC HEATER	157	16	21	10	8	7	17	6	4	2	-	67	18		
ROOM HEATER WITHOUT FLUE OR VENT	-	-	-	-	-	-	-	-	-	-	-	-	-		
BURNING GAS, OIL, OR KEROSENE	46	5	4	10	5	7	2	4	3	-	-	6	21		
OTHER	23	2	2	2	1	1	-	3	4	-	-	7	...		
NOT REPORTED	1	-	-	-	-	-	-	-	-	-	-	1	...		
NOT REPORTED	54	9	4	4	3	3	2	1	-	-	-	28	...		
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT															
NO HOT PIPED WATER	302	38	36	34	19	12	16	10	9	1	1	126	17		
WITH HOT PIPED WATER	7 602	695	602	519	372	311	408	218	169	36	20	4 252	18		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 402	684	587	503	369	304	396	206	165	36	18	4 133	18		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴	28	3	3	4	-	-	4	3	-	-	-	11	...		
NOT REPORTED	162	8	12	10	3	7	8	9	4	-	2	99	21		
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-		
AIR CONDITIONING															
WITH AIR CONDITIONING	5 013	382	329	276	205	170	211	115	104	16	10	3 196	18		
ROOM UNITS	2 346	296	239	198	153	120	165	73	70	9	5	1 017	18		
1	1 737	216	172	136	105	80	111	58	42	7	5	805	17		
2	500	73	52	55	38	31	47	15	24	2	-	164	18		
3	88	7	10	6	8	5	7	1	4	-	-	40	20		
4	15	-	3	1	2	3	-	-	-	-	-	6	...		
5 OR MORE	5	2	2	2	-	-	-	1	-	-	-	2	...		
CENTRAL SYSTEM	2 667	86	90	78	52	50	46	42	34	7	4	2 179	19		
WITH NO AIR CONDITIONING	2 891	351	309	277	187	154	213	113	74	21	11	1 161	18		

¹ RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

² EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

³ 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: 1978--CONTINUED
(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 (DOL- LARS)	
SPECIFIED RENTER OCCUPIED²--CONTINUED														
PERSONS														
1 PERSON	2 554	290	217	149	90	73	68	31	20	4	10	1 601	13	
2 PERSONS	2 277	208	173	160	113	102	111	43	34	3	4	1 326	17	
3 PERSONS	1 327	110	120	101	73	48	93	52	35	3	2	690	19	
4 PERSONS	909	66	71	66	62	52	74	47	29	6	3	432	22	
5 PERSONS	413	30	25	34	27	22	31	24	33	12	2	174	26	
6 PERSONS	211	15	17	30	11	11	20	16	8	5	-	76	22	
7 PERSONS OR MORE	213	14	15	13	16	15	26	15	18	3	-	77	28	
MEDIAN.	2.1	1.9	2.1	2.3	2.4	2.4	2.8	3.3	3.5	4.6	...	1.9	...	
SPECIFIED RENTER OCCUPIED².														
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS														
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING														
ALL WINDOWS COVERED	534	43	47	39	29	33	42	30	26	1	3	241	22	
SOME WINDOWS COVERED.	263	25	13	32	24	18	37	14	13	5	3	100	24	
NO WINDOWS COVERED.	2 675	312	334	280	229	165	240	144	119	27	10	816	20	
NOT REPORTED.	106	12	8	10	3	2	3	1	-	-	-	65	15	
STORM DOORS														
ALL DOORS COVERED	687	29	37	28	25	41	46	19	31	3	2	224	26	
SOME DOORS COVERED.	371	32	28	38	35	15	45	24	22	2	3	125	23	
NO DOORS COVERED.	2 614	317	325	280	220	160	225	144	104	27	9	803	19	
NOT REPORTED.	126	14	11	15	5	2	6	2	-	1	-	69	16	
ATTIC OR ROOF INSULATION														
YES	1 279	113	110	107	103	81	110	62	58	10	4	521	22	
NO.	1 318	147	173	140	103	79	144	88	63	14	8	359	21	
DON'T KNOW.	879	118	110	100	74	55	65	35	38	9	3	273	18	
NOT REPORTED.	121	13	9	14	5	4	3	4	-	-	-	69	16	

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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.										FUELS USED, FREE, OR NOT REPORTED ¹	MEDIAN (DOL- LARS)	
		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				
SPECIFIED OWNER OCCUPIED ²	13 447	627	412	444	411	253	189	143	53	79	10 834	259		
HOUSE HEATING FUEL														
OIL, COAL, KEROSENE, WOOD, ETC.	2 032	151	239	371	370	234	180	134	50	77	225	338		
FUEL OIL	1 657	107	177	312	339	217	175	124	47	73	65	355		
COAL OR COKE	55	5	8	15	10	7	2	1	-	2	6	280		
KEROSENE, ETC.	114	17	24	23	17	7	4	9	2	2	9	249		
WOOD	206	22	31	20	5	3	-	-	-	-	125	159		
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC.	11 362	473	172	73	41	19	9	9	3	2	10 580	100-		
UTILITY GAS	7 115	301	87	36	25	13	2	3	3	2	6 642	100-		
BOTTLED, TANK, OR LP GAS	919	30	19	9	2	4	1	-	-	-	857	131		
ELECTRICITY	3 326	143	66	28	8	3	5	1	-	-	3 070	100-		
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-		
OTHER FUEL	2	-	-	-	1	1	-	-	-	-	1	---		
NONE	52	2	1	-	-	-	-	-	-	-	49	---		
HEATING EQUIPMENT														
WARM-AIR FURNACE	7 206	384	193	242	231	134	111	89	26	40	5 758	260		
HEAT PUMP	490	26	12	7	-	1	1	2	-	-	442	100-		
STEAM OR HOT WATER	424	10	3	22	40	51	47	32	22	34	182	508		
BUILT-IN ELECTRIC UNITS	1 077	22	17	6	5	2	2	-	-	-	1 024	126		
FLOOR, WALL, OR PIPELESS FURNACE	1 266	46	48	33	40	12	9	2	2	1	1 073	209		
ROOM HEATERS WITH FLUE	986	59	78	88	67	45	17	15	4	3	611	258		
ROOM HEATERS WITHOUT FLUE	1 356	35	13	2	4	2	1	3	-	-	1 297	100-		
FIREPLACES, STOVES, OR PORTABLE HEATERS	589	43	49	44	24	8	2	-	-	2	419	186		
NONE	52	2	1	-	-	-	-	-	-	-	49	---		
THERMOSTAT CONTROLLED HEATING EQUIPMENT														
NO HEATING EQUIPMENT	52	2	1	-	-	-	-	-	-	-	49	---		
WITH HEATING EQUIPMENT	13 395	625	411	444	411	253	189	143	53	79	10 785	260		
NO THERMOSTAT CONTROL	2 786	122	111	110	72	44	17	14	2	4	2 290	213		
WITH THERMOSTAT CONTROL	10 576	501	300	331	339	209	172	130	51	75	8 468	276		
NOT CLOCK OPERATED	8 804	441	255	278	293	181	133	113	43	64	7 004	273		
CONSTANT TEMPERATURE SETTING MAINTAINED	2 611	112	78	88	87	45	34	31	9	18	2 109	269		
TEMPERATURE SETTING IS CHANGED	6 132	329	177	190	205	134	96	82	35	46	4 840	273		
OCCASIONALLY	1 848	77	65	48	59	34	31	23	13	12	1 486	280		
REGULARLY	4 186	243	106	139	143	99	63	57	22	34	3 278	274		
DON'T KNOW	88	8	3	2	3	1	1	1	-	-	69	---		
NOT REPORTED	9	-	2	-	-	-	-	-	-	-	7	---		
NOT REPORTED	61	-	-	-	2	2	3	-	-	-	55	---		
CLOCK OPERATED	1 725	55	43	53	44	26	40	17	7	11	1 428	294		
NOT REPORTED	47	5	2	-	2	2	-	-	-	-	36	---		
NOT REPORTED	33	2	-	3	-	-	-	-	1	-	27	---		
AGE OF HEATING EQUIPMENT														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 983	140	140	134	95	54	19	19	4	5	2 375	218		
WITH SELECTED HEATING EQUIPMENT ³	10 463	488	272	310	316	199	170	125	49	74	8 459	277		
LESS THAN 4 YEARS	2 417	125	64	43	42	35	22	23	7	10	2 046	194		
4 TO 9 YEARS	3 234	168	65	81	65	39	34	29	7	14	2 731	222		
10 TO 19 YEARS	3 092	137	102	139	111	58	53	33	18	16	2 424	267		
20 TO 39 YEARS	1 107	38	30	33	72	48	44	28	9	22	783	385		
40 YEARS OR MORE	63	4	3	2	3	4	3	5	2	3	33	---		
DON'T KNOW	474	11	6	13	20	15	12	8	5	6	378	388		
NOT REPORTED	77	4	2	-	3	-	1	-	1	2	64	---		
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 983	140	140	134	95	54	19	19	4	5	2 375	218		
WITH SELECTED HEATING EQUIPMENT ³	10 463	488	272	310	316	199	170	125	49	74	8 459	277		
NO MAINTENANCE OR MODIFICATION	8 539	374	224	227	218	115	105	73	28	41	7 135	245		
WITH MAINTENANCE OR MODIFICATION	1 843	109	46	83	95	84	64	52	21	32	1 257	357		
NOT REPORTED	81	4	2	1	3	1	1	-	1	2	67	---		
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT														
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	2 983	140	140	134	95	54	19	19	4	5	2 375	218		
WITH SELECTED HEATING EQUIPMENT ³	10 463	488	272	310	316	199	170	125	49	74	8 459	277		
NO MAINTENANCE CONTRACT	9 277	437	244	271	245	135	121	81	28	31	7 684	242		
WITH MAINTENANCE CONTRACT	1 083	44	26	39	66	64	48	41	21	42	693	430		
NOT REPORTED	104	7	2	1	5	1	2	3	1	2	82	---		
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT														
NO HOT PIPED WATER	195	25	7	22	11	6	1	2	2	3	117	230		
WITH HOT PIPED WATER	13 252	602	405	422	400	248	189	142	51	76	10 717	261		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	12 967	588	389	411	393	246	184	136	51	73	10 497	262		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴	69	5	4	2	-	-	2	-	-	-	56	---		
NOT REPORTED	205	8	10	10	6	2	2	6	-	-	3	157	259	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-		
AIR CONDITIONING														
WITH AIR CONDITIONING	10 479	489	298	253	248	165	122	98	41	49	8 714	237		
ROOM UNITS	4 801	136	153	141	162	116	85	56	29	35	3 887	316		
1	2 638	66	97	87	99	61	49	24	11	11	2 132	303		
2	1 525	33	39	37	41	44	27	21	11	9	1 262	354		
3	462	24	10	15	18	8	4	11	4	8	361	314		
4	122	7	3	2	5	2	3	-	3	3	96	---		
5 OR MORE	54	6	4	-	-	1	1	-	3	3	35	---		
CENTRAL SYSTEM	5 678	353	145	112	86	49	38	43	11	14	4 828	149		
WITH NO AIR CONDITIONING	2 968	138	114	191	163	88	67	45	12	30	2 120	289		

¹ RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

² LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³ EXCLUDES 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.

TABLE D-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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.										FUELS NOT USED, FREE, OR NOT REPORTED ¹	MEDIAN (DOL- LARS)		
		LESS THAN \$100 \$199	\$100 TO \$299	\$200 TO \$399	\$300 TO \$499	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE					
SPECIFIED OWNER OCCUPIED²--CONTINUED															
PERSONS															
1 PERSON	1 928	80	56	77	76	35	24	25	9	10	1 536	277			
2 PERSONS	4 121	182	144	157	136	87	68	40	18	18	3 272	263			
3 PERSONS	2 574	132	81	91	81	47	34	26	8	18	2 056	250			
4 PERSONS	2 612	137	67	73	72	40	30	24	8	14	2 146	239			
5 PERSONS	1 290	55	36	26	25	24	22	13	1	9	1 078	253			
6 PERSONS	531	29	17	9	12	13	6	11	6	5	424	292			
7 PERSONS OR MORE	390	14	10	12	8	8	5	4	4	4	322	293			
MEDIAN.	2.8	2.9	2.6	2.4	2.4	2.6	2.6	2.8	2.5	3.1	2.6	2.6	...		
SPECIFIED OWNER OCCUPIED²															
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	13 447	627	412	444	411	253	189	143	53	79	10 834	259			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING															
ALL WINDOWS COVERED	4 040	181	122	165	208	127	103	73	22	38	3 001	325			
SOME WINDOWS COVERED	1 365	77	42	58	51	51	38	26	11	12	1 000	312			
NO WINDOWS COVERED	8 003	369	249	221	151	74	48	45	20	29	6 797	193			
NOT REPORTED.	38	-	-	-	1	1	-	-	1	-	36	...			
STORM DOORS															
ALL DOORS COVERED	4 115	150	115	174	209	142	106	68	25	35	3 091	334			
SOME DOORS COVERED	2 601	107	75	89	95	68	42	33	17	22	2 054	303			
NO DOORS COVERED	6 666	364	220	180	107	44	41	41	11	22	5 637	168			
NOT REPORTED.	64	7	2	2	-	-	-	1	1	-	51	...			
ATTIC OR ROOF INSULATION															
YES	10 630	511	318	344	313	193	152	117	40	60	8 581	256			
NO.	2 348	100	83	86	85	48	33	22	12	17	1 862	270			
DON'T KNOW.	430	16	11	13	12	13	4	4	-	2	356	278			
NOT REPORTED.	39	-	1	1	1	-	-	-	1	-	35	...			
SPECIFIED RENTER OCCUPIED ³	7 904	140	155	146	147	73	46	41	15	28	7 117	267			
HOUSE HEATING FUEL															
OIL, COAL, KEROSENE, WOOD, ETC.	1 174	65	118	132	129	67	42	38	14	21	547	298			
FUEL OIL	835	27	56	82	96	59	37	30	11	10	427	340			
COAL OR COKE	68	7	19	11	9	1	1	2	2	4	15	209			
KEROSENE, ETC	95	10	17	23	12	5	5	4	1	6	13	260			
WOOD	175	20	26	16	12	3	3	3	2	2	93	180			
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC	6 595	75	36	14	18	6	4	3	1	2	6 435	113			
UTILITY GAS	3 901	41	26	8	15	5	2	2	1	-	3 800	135			
BOTTLED, TANK, OR LP GAS	426	17	5	5	1	2	1	1	-	1	395	...			
ELECTRICITY	2 264	15	5	2	2	-	-	-	-	-	2 237	...			
SOLAR HEAT	5	-	-	-	-	-	-	-	-	-	-	-			
OTHER FUEL	136	2	1	-	-	-	-	-	-	-	3	135	...		
NONE.	136	-	1	-	-	-	-	-	-	-	-	-			
HEATING EQUIPMENT															
WARM-AIR FURNACE	3 308	25	32	45	47	32	14	16	2	5	3 090	315			
HEAT PUMP	159	1	-	-	-	-	-	-	-	-	158	...			
STEAM OR HOT WATER	535	6	2	4	16	10	8	7	6	5	471	448			
BUILT-IN ELECTRIC UNITS	627	6	2	-	-	-	-	-	-	1	617	...			
FLOOR, WALL, OR PIPELESS FURNACE	748	12	13	13	13	5	3	2	2	-	687	250			
ROOM HEATERS WITH FLUE	798	34	53	51	44	22	19	13	2	2	552	270			
ROOM HEATERS WITHOUT FLUE	1 163	26	5	3	3	-	-	-	-	1	1 124	100-			
FIRESIDES, STOVES, OR PORTABLE HEATERS	430	31	50	30	24	3	1	4	3	4	281	187			
NONE.	136	-	1	-	-	-	-	-	-	-	135	...			
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT.	136	-	1	-	-	-	-	-	-	-	135	...			
WITH HEATING EQUIPMENT.	7 766	140	158	146	147	73	46	41	15	24	6 982	267			
NO THERMOSTAT CONTROL	2 933	90	99	76	70	18	17	14	5	13	2 532	215			
WITH THERMOSTAT CONTROL	8 816	49	54	69	78	54	30	27	10	11	4 434	324			
NOT CLOCK OPERATED	3 974	36	42	64	67	50	26	25	9	9	3 645	332			
CONSTANT TEMPERATURE SETTING MAINTAINED	1 395	8	12	16	25	20	5	6	2	2	1 298	348			
TEMPERATURE SETTING IS CHANGED	2 511	28	30	47	42	29	21	18	5	7	2 284	321			
OCCASIONALLY	856	2	8	12	15	8	11	11	-	1	.786	380			
REGULARLY	1 573	25	20	31	26	21	11	7	5	5	1 421	296			
DON'T KNOW.	73	-	2	4	1	-	-	-	-	-	67	...			
NOT REPORTED.	10	-	-	-	-	-	-	-	-	-	10	...			
CLOCK OPERATED	67	-	-	2	-	-	-	1	2	-	63	...			
NOT REPORTED.	799	12	12	5	10	5	4	2	1	2	747	239			
NOT REPORTED.	43	-	1	-	1	-	-	-	-	-	41	...			
NOT REPORTED.	19	1	1	1	-	-	1	-	-	-	16	...			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT															
NO HOT PIPED WATER	302	39	42	18	15	5	3	4	1	6	170	163			
WITH HOT PIPED WATER	7 602	100	113	128	133	69	43	37	14	18	6 947	288			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 402	95	104	126	128	66	43	37	14	18	6 772	291			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT*.	28	-	-	-	-	-	-	1	-	-	27	...			
NOT REPORTED.	162	5	6	2	4	2	-	1	-	-	142	...			
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-			

*RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

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

^EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

*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 CHARACTERISTICS¹ 1978--CONTINUED

(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.										FUELS NOT USED, FREE, OR NOT REPORTED ²	MEDIAN (DOL- LARS)		
		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					
SPECIFIED RENTER OCCUPIED²--CONTINUED															
AIR CONDITIONING															
WITH AIR CONDITIONING	5 013	57	38	46	44	30	20	14	6	5	4	752	276		
ROOM UNITS	2 346	43	26	43	38	25	17	10	6	4	2	133	286		
1	1 737	36	24	32	29	21	13	9	5	2	1	567	281		
2	500	8	2	8	9	4	4	1	1	1	1	462	314		
3	88	-	-	2	-	-	-	-	1	1	1	85	---		
4	15	-	-	2	-	-	-	-	-	-	-	14	---		
5 OR MORE	5	-	-	-	-	-	-	-	-	-	-	5	---		
CENTRAL SYSTEM	2 667	14	12	3	7	5	2	4	-	1	2	619	181		
WITH NO AIR CONDITIONING	2 891	83	116	100	103	44	27	27	8	18	2	365	283		
PERSONS															
1 PERSON	2 554	48	31	32	42	9	2	9	1	1	2	381	223		
2 PERSONS	2 277	31	53	42	45	25	21	9	8	5	2	037	284		
3 PERSONS	1 327	25	23	25	19	19	3	8	3	9	1	194	274		
4 PERSONS	909	18	26	15	13	11	8	9	1	3	3	805	253		
5 PERSONS	413	13	10	17	12	5	8	5	1	2	3	341	272		
6 PERSONS	211	1	4	7	11	2	3	1	1	2	2	181	---		
7 PERSONS OR MORE	213	4	8	7	6	4	2	1	1	2	1	178	280		
MEDIAN	2.1	2.2	2.4	2.5	2.2	2.6	2.8	2.9	...	...	2.1	...	---
SPECIFIED RENTER OCCUPIED²															
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 904	140	155	146	147	73	46	41	15	24	7	117	267		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING															
ALL WINDOWS COVERED	534	15	21	27	33	15	12	13	4	5	3	390	330		
SOME WINDOWS COVERED	283	8	14	17	18	9	10	2	3	3	1	200	319		
NO WINDOWS COVERED	2 675	60	107	76	75	42	22	27	6	15	2	226	250		
NOT REPORTED	106	-	-	-	1	3	-	-	2	-	-	101	---		
STORM DOORS															
ALL DOORS COVERED	487	11	23	18	22	18	13	12	6	4	3	360	352		
SOME DOORS COVERED	371	4	12	15	28	10	9	8	1	6	1	279	354		
NO DOORS COVERED	2 614	67	104	86	76	38	23	22	7	14	2	158	242		
NOT REPORTED	126	-	2	-	1	3	-	-	2	-	-	119	---		
ATTIC OR ROOF INSULATION															
YES	1 279	28	39	36	39	24	18	15	5	5	1	070	304		
NO	1 318	55	71	55	53	26	18	21	3	18	9	997	261		
DON'T KNOW	879	20	30	28	30	15	8	6	5	1	1	735	278		
NOT REPORTED	121	-	-	-	3	3	-	-	2	-	-	114	---		

¹ RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

² EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE D-11. HOUSEHOLD HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1978

(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								WORKS AT HOME OR NOT REPORTED
		DRIVES SELF	CARPOOL	MASS TRANS- PORTATION	BICYCLE OR MOTOR- CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS		
HOUSING UNITS WITH EMPLOYED HEADS ¹	17 260	12 690	3 067	497	84	34	480	55	355	
DISTANCE FROM HOME TO WORK										
OWNER OCCUPIED										
LESS THAN 1 MILE	11 569	8 938	1 935	157	43	10	178	38	270	
1 TO 4 MILES	738	502	63	-	3	2	160	5	2	
5 TO 9 MILES	2 367	2 014	277	36	19	2	14	6	-	
10 TO 19 MILES	2 255	1 882	314	42	10	2	-	3	2	
20 TO 29 MILES	2 527	2 033	457	30	5	-	-	1	2	
30 TO 49 MILES	951	673	257	18	2	-	-	1	-	
50 MILES OR MORE	616	400	200	11	-	-	-	2	-	
WORKS AT HOME	211	116	93	2	-	-	-	-	-	
NO FIXED PLACE OF WORK	237	-	-	-	-	-	-	-	-	
NOT REPORTED	1 499	1 212	249	10	-	5	4	16	2	237
MEDIAN	8.8	8.4	13.9	9.0	4.8	-	-	3	26	
RENTER OCCUPIED										
LESS THAN 1 MILE	5 692	3 751	1 132	340	41	24	301	17	85	
1 TO 4 MILES	598	283	61	8	4	6	234	2	-	
5 TO 9 MILES	1 494	1 031	260	119	20	15	44	3	2	
10 TO 19 MILES	1 207	861	222	109	9	2	2	3	-	
20 TO 29 MILES	1 088	775	240	67	1	2	-	2	2	
30 TO 49 MILES	309	214	84	9	1	-	-	-	-	
50 MILES OR MORE	176	103	72	1	1	-	-	-	-	
WORKS AT HOME	53	31	20	1	1	-	-	-	-	
NO FIXED PLACE OF WORK	76	-	-	-	-	-	-	-	-	76
NOT REPORTED	594	399	154	12	4	-	-	21	5	*
MEDIAN	9.0	5.5	19	14	-	-	-	2	5	
6.5	6.9	8.6	6.3	3.9	-	-	1.0-	---	5	
TRAVEL TIME FROM HOME TO WORK										
OWNER OCCUPIED										
LESS THAN 15 MINUTES	11 569	8 938	1 935	157	43	10	178	38	270	
15 TO 29 MINUTES	3 311	2 801	339	2	17	3	142	6	2	
30 TO 44 MINUTES	3 702	3 041	582	35	16	2	21	4	2	
45 TO 59 MINUTES	1 629	1 192	378	39	7	-	9	3	-	
1 HOUR TO 1 HOUR AND 29 MINUTES	576	359	181	35	1	-	-	-	-	
1 HOUR AND 30 MINUTES OR MORE	393	210	148	32	2	-	2	-	-	
WORKS AT HOME	114	62	48	2	-	-	-	2	-	
NO FIXED PLACE OF WORK	237	-	-	-	-	-	-	-	-	
NOT REPORTED	1 499	1 212	249	10	-	5	4	16	2	237
MEDIAN	21.2	20.0	27.6	43.5	18.9	-	15.0-	6	28	
RENTER OCCUPIED										
LESS THAN 15 MINUTES	5 692	3 751	1 132	340	41	24	301	17	85	
15 TO 29 MINUTES	1 978	1 401	305	25	21	17	207	2	-	
30 TO 44 MINUTES	1 846	1 325	348	95	11	7	55	4	-	
45 TO 59 MINUTES	698	416	183	84	3	-	8	2	2	
1 HOUR TO 1 HOUR AND 29 MINUTES	245	115	62	42	1	-	3	-	2	
1 HOUR AND 30 MINUTES OR MORE	149	54	38	52	-	-	5	-	-	
WORKS AT HOME	56	18	15	23	1	-	-	-	-	
NO FIXED PLACE OF WORK	76	-	-	-	-	-	-	-	-	76
NOT REPORTED	594	399	154	12	4	-	-	21	5	*
MEDIAN	50	24	7	7	-	-	-	3	3	5
19.1	17.9	22.7	37.2	15.0-	-	-	15.0-	---	5	

¹LIMITED 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: 1978
 (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.	14 950	11 900	5 039	6 862	3 049
HOUSE HEATING FUEL					
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069
UTILITY GAS.	6 407	5 496	2 124	3 373	2 910
BOTTLED, TANK, OR LP GAS.	297	117	5	112	181
FUEL OIL.	522	323	136	187	200
KEROSENE, ETC.	1	-	-	-	1
ELECTRICITY.	1 547	889	257	631	658
COAL OR COKE.	10	4	2	2	6
WOOD.	145	45	11	34	101
SOLAR HEAT.	2	-	-	-	2
OTHER FUEL.	2	-	-	-	2
NONE.	157	149	58	91	9
RENTER OCCUPIED	5 859	4 878	2 446	2 432	981
UTILITY GAS.	3 718	3 240	1 639	1 601	478
BOTTLED, TANK, OR LP GAS.	111	43	2	41	68
FUEL OIL.	215	141	86	55	74
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	1 466	1 162	549	613	304
COAL OR COKE.	11	-	-	-	11
WOOD.	60	32	10	23	27
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	56	53	52	2	2
NONE.	222	205	108	97	16
WATER HEATING FUEL					
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069
NO HOT PIPED WATER.	23	5	-	5	18
WITH HOT PIPED WATER.	9 068	7 017	2 592	4 425	2 051
FUEL USED:					
UTILITY GAS.	6 160	5 377	2 094	3 283	782
BOTTLED, TANK, OR LP GAS.	253	95	10	84	158
FUEL OIL.	19	13	2	12	6
KEROSENE, ETC.	1	-	-	-	1
ELECTRICITY.	2 619	1 527	484	1 042	1 092
COAL OR COKE.	-	-	-	-	-
WOOD.	9	-	-	-	9
SOLAR HEAT.	2	-	-	-	2
OTHER FUEL.	1	-	-	-	1
NONE.	5	5	2	3	-
NOT REPORTED.	-	-	-	-	-
RENTER OCCUPIED	5 859	4 878	2 446	2 432	981
NO HOT PIPED WATER.	20	6	-	6	14
WITH HOT PIPED WATER.	5 839	4 872	2 446	2 426	967
FUEL USED:					
UTILITY GAS.	3 862	3 443	1 761	1 682	420
BOTTLED, TANK, OR LP GAS.	93	41	2	39	52
FUEL OIL.	23	10	10	-	13
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	1 776	1 307	611	696	469
COAL OR COKE.	5	-	-	-	5
WOOD.	1	1	-	-	-
SOLAR HEAT.	2	2	-	2	-
OTHER FUEL.	74	66	62	5	8
NONE.	3	3	2	2	-
NOT REPORTED.	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069
UTILITY GAS.	3 493	3 091	1 208	1 883	402
BOTTLED, TANK, OR LP GAS.	294	110	8	101	185
FUEL OIL.	4	3	-	3	1
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	5 270	3 810	1 372	2 438	1 460
COAL OR COKE.	2	2	-	2	-
WOOD.	21	1	-	1	20
OTHER FUEL.	2	2	-	2	-
NONE.	5	4	3	1	1
RENTER OCCUPIED	5 859	4 878	2 446	2 432	981
UTILITY GAS.	2 809	2 538	1 380	1 158	271
BOTTLED, TANK, OR LP GAS.	114	39	2	37	75
FUEL OIL.	3	2	2	-	2
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	2 874	2 256	1 032	1 224	618
COAL OR COKE.	1	-	-	-	1
WOOD.	2	1	-	1	2
OTHER FUEL.	3	-	-	-	3
NONE.	52	43	31	12	9

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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							
LESS THAN \$10	7 371	5 849	2 309	3 540	1 522		
\$10 TO \$19.	323	267	134	133	56		
\$20 TO \$29.	2 099	1 673	703	970	425		
\$30 TO \$39.	2 075	1 679	616	1 063	396		
\$40 TO \$49.	1 298	1 022	380	642	276		
\$50 TO \$59.	577	448	179	269	128		
\$60 TO \$79.	415	318	128	190	97		
\$80 TO \$99.	344	262	89	173	82		
\$100 TO \$149.	107	83	28	55	24		
\$150 OR MORE.	93	68	40	28	25		
NO ELECTRICITY USED OR NOT REPORTED	35	25	13	13	10		
MEDIAN.	6	4	-	4	2		
	25	25	25	26	26		
SPECIFIED RENTER OCCUPIED ²							
LESS THAN \$10	5 785	4 849	2 444	2 405	935		
\$10 TO \$19.	1 108	998	504	494	110		
\$20 TO \$29.	1 792	1 543	774	769	249		
\$30 TO \$39.	927	757	329	429	169		
\$40 TO \$49.	423	338	126	212	85		
\$50 TO \$59.	157	119	59	60	38		
\$60 TO \$79.	74	47	16	31	28		
\$80 TO \$99.	73	50	27	24	23		
\$100 TO \$149.	15	10	5	5	6		
\$150 OR MORE.	11	11	10	2	-		
INCLUDED IN RENT.	10	3	2	2	7		
NO ELECTRICITY USED OR NOT REPORTED	1 179	965	592	372	215		
MEDIAN.	15	8	2	7	7		
	16	15	15	16	19		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED ¹							
LESS THAN \$10	7 371	5 849	2 309	3 540	1 522		
\$10 TO \$14.	959	841	317	525	118		
\$15 TO \$19.	1 382	1 248	497	751	134		
\$20 TO \$24.	1 118	974	368	605	144		
\$25 TO \$29.	843	686	305	380	158		
\$30 TO \$39.	568	440	176	263	129		
\$40 TO \$49.	627	474	218	256	153		
\$50 TO \$69.	256	188	70	118	68		
\$70 TO \$99.	152	113	50	64	38		
\$100 OR MORE.	31	26	12	13	6		
NO GAS USED OR NOT REPORTED	18	16	13	3	2		
MEDIAN.	1 417	844	283	561	572		
	17	17	17	16	22		
SPECIFIED RENTER OCCUPIED ²							
LESS THAN \$10	5 785	4 849	2 444	2 405	935		
\$10 TO \$14.	1 507	1 401	691	710	106		
\$15 TO \$19.	733	631	320	311	102		
\$20 TO \$24.	391	311	148	164	79		
\$25 TO \$29.	193	154	73	81	39		
\$30 TO \$39.	114	89	48	42	24		
\$40 TO \$49.	106	82	35	47	24		
\$50 TO \$69.	37	28	14	14	9		
\$70 TO \$99.	36	18	10	8	18		
\$100 OR MORE.	9	6	5	1	4		
INCLUDED IN RENT.	3	2	2	-	2		
NO GAS USED OR NOT REPORTED	1 250	1 025	547	477	225		
MEDIAN.	1 405	1 103	553	551	302		
	10	10-	10-	10-	14		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED ¹							
LESS THAN \$100.	7 371	5 849	2 309	3 540	1 522		
\$100 TO \$199.	306	221	91	130	85		
\$200 TO \$299.	159	106	44	61	54		
\$300 TO \$399.	115	63	26	36	52		
\$400 TO \$499.	107	73	40	34	34		
\$500 TO \$599.	108	76	30	46	32		
\$600 TO \$699.	54	39	19	21	14		
\$700 TO \$799.	35	30	7	23	5		
\$800 OR MORE.	9	7	2	5	2		
FUELS NOT USED, FREE, OR NOT REPORTED	14	12	-	12	1		
MEDIAN.	6 465	5 222	2 050	3 172	1 243		
	192	187	186	188	202		

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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							
LESS THAN \$100.	5 785	4 849	2 444	2 405	935		
\$100 TO \$199.	80	61	24	37	19		
\$200 TO \$299.	28	7	3	4	21		
\$300 TO \$399.	35	25	11	13	11		
\$400 TO \$499.	37	21	10	11	16		
\$500 TO \$599.	4	2	-	2	2		
\$600 TO \$699.	2	-	-	-	2		
\$700 TO \$799.	7	4	3	1	3		
\$800 OR MORE.	3	3	2	2	-		
INCLUDED IN RENT.	6	2	2	1	4		
FUELS NOT USED, FREE, OR NOT REPORTED	272	205	93	111	68		
MEDIAN.	5 310	4 519	2 297	2 223	791		
	175	127	204	100-	190		
ALL OCCUPIED HOUSING UNITS.	14 950	11 900	5 039	6 862	3 049		
HEATING EQUIPMENT							
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069		
WARM-AIR FURNACE.	5 832	4 737	1 746	2 991	1 095		
HEAT PUMP.	133	99	29	70	33		
STEAM OR HOT WATER.	190	101	47	53	90		
BUILT-IN ELECTRIC UNITS.	717	362	102	259	355		
FLOOR, WALL, OR PIPELESS FURNACE.	1 465	1 287	514	773	178		
ROOM HEATERS WITH FLUE.	290	163	61	102	127		
ROOM HEATERS WITHOUT FLUE.	59	40	12	28	19		
FIREPLACES, STOVES, OR PORTABLE HEATERS.	248	84	23	61	164		
NONE.	157	149	58	91	9		
RENTER OCCUPIED	5 859	4 878	2 446	2 432	981		
WARM-AIR FURNACE.	1 651	1 363	627	736	288		
HEAT PUMP.	30	26	10	16	5		
STEAM OR HOT WATER.	392	306	254	53	86		
BUILT-IN ELECTRIC UNITS.	1 083	867	426	441	216		
FLOOR, WALL, OR PIPELESS FURNACE.	1 803	1 640	777	862	163		
ROOM HEATERS WITH FLUE.	458	336	176	160	122		
ROOM HEATERS WITHOUT FLUE.	97	68	48	20	28		
FIREPLACES, STOVES, OR PORTABLE HEATERS.	124	67	20	47	57		
NONE.	222	205	108	97	16		
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069		
NO HEATING EQUIPMENT.	157	149	58	91	9		
WITH HEATING EQUIPMENT.	8 933	6 873	2 534	4 339	2 060		
NO THERMOSTAT CONTROL.	906	629	238	391	277		
WITH THERMOSTAT CONTROL	8 007	6 234	2 295	3 939	1 773		
NOT CLOCK OPERATED.	6 865	5 291	1 929	3 361	1 574		
CONSTANT TEMPERATURE SETTING MAINTAINED.	1 739	1 375	529	846	364		
TEMPERATURE SETTING IS CHANGED.	5 101	3 899	1 392	2 507	1 202		
OCCASIONALLY.	950	741	280	461	210		
REGULARLY.	4 109	3 127	1 099	2 028	982		
DON'T KNOW.	38	28	13	15	10		
NOT REPORTED.	3	3	-	3	-		
CLOCK OPERATED.	25	16	9	7	8		
NOT REPORTED.	1 091	907	353	554	183		
NOT REPORTED.	51	36	12	24	16		
NOT REPORTED.	20	10	2	9	10		
RENTER OCCUPIED	5 859	4 878	2 446	2 432	981		
NO HEATING EQUIPMENT.	222	205	108	97	16		
WITH HEATING EQUIPMENT.	5 638	4 673	2 338	2 335	965		
NO THERMOSTAT CONTROL.	1 734	1 428	785	643	307		
WITH THERMOSTAT CONTROL	3 893	3 239	1 552	1 688	654		
NOT CLOCK OPERATED.	3 455	2 867	1 381	1 485	589		
CONSTANT TEMPERATURE SETTING MAINTAINED.	1 054	881	465	416	173		
TEMPERATURE SETTING IS CHANGED.	2 370	1 959	901	1 058	411		
OCCASIONALLY.	598	516	235	281	83		
REGULARLY.	1 738	1 418	649	769	320		
DON'T KNOW.	33	25	17	8	8		
NOT REPORTED.	-	-	-	-	-		
NOT REPORTED.	31	27	15	12	5		
CLOCK OPERATED.	424	367	169	199	56		
NOT REPORTED.	14	6	2	4	9		
NOT REPORTED.	10	6	2	4	4		

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

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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.	14 950	11 900	5 039	6 862	3 049
UNITS OCCUPIED LAST WINTER.	11 438	9 154	3 848	5 306	2 283
INSUFFICIENT HEAT					
CLOSURE OF ROOMS:					
OWNER OCCUPIED.	8 025	6 252	2 331	3 921	1 773
WITH HEATING EQUIPMENT.	7 870	6 104	2 273	3 831	1 766
NO ROOMS CLOSED.	7 613	5 920	2 201	3 718	1 694
CLOSED CERTAIN ROOMS.	193	140	57	82	54
LIVING ROOM ONLY.	3	1	-	1	1
DINING ROOM ONLY.	7	5	3	2	2
1 OR MORE BEDROOMS ONLY.	139	102	44	59	36
OTHER ROOMS OR COMBINATION OF ROOMS.	41	28	8	19	13
NOT REPORTED.	3	3	2	2	-
NOT REPORTED.	63	44	14	31	19
NO HEATING EQUIPMENT.	155	148	58	90	7
RENTER OCCUPIED.	3 413	2 902	1 517	1 385	510
WITH HEATING EQUIPMENT.	3 272	2 769	1 435	1 334	503
NO ROOMS CLOSED.	3 100	2 630	1 369	1 261	470
CLOSED CERTAIN ROOMS.	121	99	54	45	23
LIVING ROOM ONLY.	3	3	2	2	-
DINING ROOM ONLY.	2	2	-	2	-
1 OR MORE BEDROOMS ONLY.	95	75	42	33	20
OTHER ROOMS OR COMBINATION OF ROOMS.	20	18	10	7	2
NOT REPORTED.	1	1	-	1	-
NOT REPORTED.	50	40	12	28	11
NO HEATING EQUIPMENT.	141	134	82	52	7
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED.	8 025	6 252	2 331	3 921	1 773
WITH SPECIFIED HEATING EQUIPMENT.	7 602	5 992	2 241	3 751	1 610
NO ADDITIONAL HEAT SOURCE USED.	7 167	5 656	2 105	3 551	1 511
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	388	304	126	179	84
NOT REPORTED.	47	32	10	22	14
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	423	259	89	170	163
RENTER OCCUPIED.	3 413	2 902	1 517	1 385	510
WITH SPECIFIED HEATING EQUIPMENT.	3 130	2 678	1 391	1 287	453
NO ADDITIONAL HEAT SOURCE USED.	2 807	2 411	1 250	1 161	396
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	276	228	128	100	47
NOT REPORTED.	47	38	13	25	9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	282	225	126	99	58
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED.	8 025	6 252	2 331	3 921	1 773
WITH SPECIFIED HEATING EQUIPMENT.	7 602	5 992	2 241	3 751	1 610
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	5 416	4 258	1 558	2 700	1 158
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 113	1 683	668	1 015	430
1 ROOM.	533	403	159	244	130
2 ROOMS.	596	471	213	258	124
3 ROOMS OR MORE.	984	808	296	512	176
NOT REPORTED.	73	52	15	37	21
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	423	259	89	170	163
RENTER OCCUPIED.	3 413	2 902	1 517	1 385	510
WITH SPECIFIED HEATING EQUIPMENT.	3 130	2 678	1 391	1 287	453
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 714	1 448	774	673	266
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 354	1 180	597	583	174
1 ROOM.	478	432	236	196	45
2 ROOMS.	537	469	213	256	68
3 ROOMS OR MORE.	339	278	148	130	61
NOT REPORTED.	63	50	20	30	12
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	282	225	126	99	58

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

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
(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:	14 950	11 900	5 039	6 862	3 049
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	405	233	81	152	172
WITH SELECTED HEATING EQUIPMENT ¹	8 685	6 789	2 511	4 278	1 896
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	8 319	6 559	2 431	4 127	1 760
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	323	211	74	137	111
SOLAR HEATING EQUIPMENT	3	3	2	1	1
STOVE, BURNING WOOD OR COAL	80	35	11	24	45
FIREPLACE, BURNING WOOD OR COAL	45	27	8	18	18
PORTABLE ELECTRIC HEATER.	103	75	29	46	28
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	7	5	3	2	2
OTHER	79	63	21	42	17
NOT REPORTED.	6	5	-	5	1
NOT REPORTED.	44	19	5	13	25
RENTER OCCUPIED	5 859	4 878	2 446	2 432	981
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	346	272	128	144	74
WITH SELECTED HEATING EQUIPMENT ¹	5 513	4 606	2 318	2 288	907
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 351	4 481	2 262	2 218	871
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	131	99	47	52	32
SOLAR HEATING EQUIPMENT	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	5	-	-	-	5
FIREPLACE, BURNING WOOD OR COAL	7	2	2	-	5
PORTABLE ELECTRIC HEATER.	97	79	38	40	18
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	5	3	3	-	2
OTHER	16	13	3	10	2
NOT REPORTED.	3	3	2	2	-
NOT REPORTED.	31	26	9	18	5
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	754	436	154	282	318
WITH SELECTED HEATING EQUIPMENT ²	8 337	6 586	2 439	4 147	1 751
LESS THAN 4 YEARS	1 549	1 152	387	765	397
4 TO 9 YEARS.	2 189	1 643	501	1 142	547
10 TO 19 YEARS.	2 291	1 853	700	1 153	438
20 TO 39 YEARS.	1 667	1 412	592	820	255
40 YEARS OR MORE.	174	153	98	55	20
DON'T KNOW.	336	274	123	151	61
NOT REPORTED.	130	98	37	60	32
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	754	436	154	282	318
WITH SELECTED HEATING EQUIPMENT ²	8 337	6 586	2 439	4 147	1 751
NO MAINTENANCE OR MODIFICATION.	6 861	5 428	1 960	3 468	1 433
WITH MAINTENANCE OR MODIFICATION.	1 352	1 065	441	623	287
NOT REPORTED.	123	93	37	56	30
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	9 091	7 022	2 592	4 430	2 069
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	754	436	154	282	318
WITH SELECTED HEATING EQUIPMENT ²	8 337	6 586	2 439	4 147	1 751
NO MAINTENANCE CONTRACT	7 674	6 057	2 238	3 819	1 618
WITH MAINTENANCE CONTRACT	486	393	148	245	93
NOT REPORTED.	177	136	53	83	40

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED
(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	9 091	7 022	2 592	4 430	2 069		
NO HOT PIPED WATER	23	5	-	5	18		
WITH HOT PIPED WATER	9 068	7 017	2 592	4 425	2 051		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	8 858	6 841	2 525	4 315	2 018		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	71	58	23	35	13		
NOT REPORTED	132	114	43	71	18		
NOT REPORTED	-	-	-	-	-		
RENTER OCCUPIED	5 859	4 878	2 446	2 432	981		
NO HOT PIPED WATER	20	6	-	6	14		
WITH HOT PIPED WATER	5 839	4 872	2 446	2 426	967		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 726	4 775	2 407	2 368	951		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	34	28	12	16	6		
NOT REPORTED	74	65	26	39	10		
NOT REPORTED	-	-	-	-	-		
AIR CONDITIONING							
OWNER OCCUPIED	9 091	7 022	2 592	4 430	2 069		
WITH AIR CONDITIONING ROOM UNITS	3 224	2 575	867	1 708	649		
1	1 128	853	289	565	275		
2	872	648	206	442	224		
3	217	176	71	105	42		
4	31	25	10	14	6		
5 OR MORE	4	2	-	2	2		
CENTRAL SYSTEM	2 096	1 722	579	1 143	374		
WITH NO AIR CONDITIONING	5 866	4 447	1 725	2 722	1 419		
RENTER OCCUPIED	5 859	4 878	2 446	2 432	981		
WITH AIR CONDITIONING ROOM UNITS	1 623	1 395	646	749	228		
1	932	802	371	431	130		
2	839	729	334	395	110		
3	75	56	30	26	19		
4	15	14	5	9	2		
5 OR MORE	3	3	2	2	-		
CENTRAL SYSTEM	691	593	275	318	98		
WITH NO AIR CONDITIONING	4 236	3 484	1 800	1 683	752		
ALL OCCUPIED HOUSING UNITS	14 950	11 900	5 039	6 862	3 049		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS							
10 771	8 151	3 003	5 148	2 620			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	8 680	6 653	2 423	4 229	2 028		
ALL WINDOWS COVERED	1 462	689	269	420	773		
SOME WINDOWS COVERED	802	486	209	277	316		
NO WINDOWS COVERED	6 372	5 440	1 925	3 516	932		
NOT REPORTED	44	37	20	17	7		
RENTER OCCUPIED	2 090	1 498	580	918	592		
ALL WINDOWS COVERED	183	64	22	41	119		
SOME WINDOWS COVERED	162	75	39	36	87		
NO WINDOWS COVERED	1 622	1 255	482	773	367		
NOT REPORTED	124	105	37	67	19		
STORM DOORS							
OWNER OCCUPIED	8 680	6 653	2 423	4 229	2 028		
ALL DOORS COVERED	1 066	542	263	279	525		
SOME DOORS COVERED	829	510	205	305	319		
NO DOORS COVERED	6 714	5 552	1 934	3 619	1 162		
NOT REPORTED	71	48	22	27	22		
RENTER OCCUPIED	2 090	1 498	580	918	592		
ALL DOORS COVERED	135	57	27	30	78		
SOME DOORS COVERED	110	58	17	42	52		
NO DOORS COVERED	1 707	1 266	494	772	441		
NOT REPORTED	138	117	42	75	21		

¹LIMITED 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: 1978--CONTINUED
 (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							
YES	8 680	6 653	2 423	4 229	2 028		
NO.	6 688	4 964	1 711	3 253	1 724		
DON'T KNOW	1 499	1 298	558	740	201		
NOT REPORTED	447	354	138	216	93		
	47	38	17	21	9		
RENTER OCCUPIED							
YES	2 090	1 498	580	918	592		
NO.	725	435	158	277	290		
DON'T KNOW	650	511	208	303	140		
NOT REPORTED	589	447	177	270	141		
	126	106	37	68	20		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	8 680	6 653	2 423	4 229	2 028		
NO WINDOWS COVERED	6 372	5 440	1 925	3 516	932		
SOME OR ALL WINDOWS COVERED	2 264	1 175	479	697	1 089		
NONE ADDED OR INSTALLED	1 778	897	368	530	881		
SOME OR ALL ADDED OR INSTALLED	432	250	106	144	182		
NOT REPORTED	54	28	5	23	26		
NOT REPORTED	44	37	20	17	7		
STORM DOORS:							
NO DOORS COVERED	6 714	5 552	1 934	3 619	1 162		
SOME OR ALL DOORS COVERED	1 895	1 052	468	584	843		
NONE ADDED OR INSTALLED	1 574	878	392	485	697		
SOME OR ALL ADDED OR INSTALLED	229	126	53	73	102		
NOT REPORTED	92	48	22	26	44		
NOT REPORTED	71	48	22	27	22		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	1 499	1 298	558	740	201		
WITH ATTIC OR ROOF INSULATION	6 688	4 964	1 711	3 253	1 724		
NONE ADDED OR INSTALLED	5 894	4 383	1 480	2 903	1 512		
SOME OR ALL ADDED OR INSTALLED	569	416	157	260	153		
LESS THAN 3 INCHES ADDED	38	24	7	17	14		
3 TO 6 INCHES ADDED	261	190	82	109	71		
6 INCHES OR MORE ADDED	213	161	58	103	53		
DON'T KNOW	40	29	8	21	11		
NOT REPORTED	16	12	2	10	4		
NOT REPORTED	225	165	74	90	60		
DON'T KNOW	447	354	138	216	93		
NOT REPORTED	47	38	17	21	9		
WALL INSULATION:							
NONE ADDED OR INSTALLED	8 252	6 342	2 309	4 034	1 910		
SOME OR ALL ADDED OR INSTALLED	377	269	92	177	108		
NOT REPORTED	51	42	23	19	9		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	7 321	5 737	2 087	3 650	1 584		
SOME OR ALL ADDED OR INSTALLED	1 235	817	301	516	419		
DON'T KNOW	87	68	21	47	19		
NOT REPORTED	37	31	15	16	6		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	8 286	6 382	2 332	4 050	1 904		
SOME OR ALL ADDED OR INSTALLED	344	232	72	160	112		
NOT REPORTED	51	38	19	19	12		

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:	2 090	1 498	580	918	592		
NO WINDOWS COVERED	1 622	1 255	482	773	367		
SOME OR ALL WINDOWS COVERED	344	138	61	78	206		
NONE ADDED OR INSTALLED	251	101	45	55	150		
SOME OR ALL ADDED OR INSTALLED	74	23	12	12	51		
NOT REPORTED	20	15	4	11	5		
NOT REPORTED	124	105	37	67	19		
STORM DOORS:							
NO DOORS COVERED	1 707	1 266	494	772	441		
SOME OR ALL DOORS COVERED	245	115	44	71	130		
NONE ADDED OR INSTALLED	207	91	35	56	115		
SOME OR ALL ADDED OR INSTALLED	20	13	5	8	7		
NOT REPORTED	19	11	4	7	8		
NOT REPORTED	138	117	42	75	21		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	650	511	208	303	140		
WITH ATTIC OR ROOF INSULATION	725	435	158	277	290		
NONE ADDED OR INSTALLED	646	401	148	254	245		
SOME OR ALL ADDED OR INSTALLED	49	15	7	8	34		
LESS THAN 3 INCHES ADDED	5	1	-	1	5		
3 TO 6 INCHES ADDED	10	5	4	1	5		
6 INCHES OR MORE ADDED	8	2	-	2	5		
DON'T KNOW	21	6	2	4	16		
NOT REPORTED	5	2	2	-	4		
NOT REPORTED	30	18	3	15	11		
DON'T KNOW	589	447	177	270	141		
NOT REPORTED	126	106	37	68	20		
WALL INSULATION:							
NONE ADDED OR INSTALLED	1 905	1 353	526	827	552		
SOME OR ALL ADDED OR INSTALLED	28	19	8	11	9		
NOT REPORTED	157	125	45	80	31		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	1 676	1 211	472	739	466		
SOME OR ALL ADDED OR INSTALLED	132	72	31	40	61		
DON'T KNOW	161	114	39	75	46		
NOT REPORTED	121	101	37	64	19		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	1 922	1 371	538	833	551		
SOME OR ALL ADDED OR INSTALLED	25	10	-	10	15		
NOT REPORTED	143	117	42	75	26		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED	8 680	6 653	2 423	4 229	2 028		
NO INSULATION ADDED OR INSTALLED	6 334	5 047	1 807	3 240	1 288		
WITH INSULATION ADDED OR INSTALLED	1 980	1 333	506	828	646		
LESS THAN \$50	854	545	201	344	309		
\$50 TO \$99	203	118	38	80	84		
\$100 TO \$199	163	121	51	70	42		
\$200 TO \$399	198	142	55	87	56		
\$400 OR MORE	244	190	77	112	55		
DON'T KNOW	127	78	29	49	49		
NOT REPORTED	191	139	54	85	51		
MEDIAN	50-	55	63	52	50-		
NOT REPORTED OR DON'T KNOW	366	273	111	162	94		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
LESS THAN \$50	165	93	38	55	72		
\$50 TO \$99	74	28	9	19	46		
\$100 TO \$199	17	12	3	9	5		
\$200 TO \$399	16	11	9	2	5		
\$400 OR MORE	13	10	2	9	2		
DON'T KNOW	16	11	4	7	5		
NOT REPORTED	7	6	2	4	1		
MEDIAN	22	14	9	5	8		
	50-	84	...	74	50-		

TABLE E-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED
 (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	87	56	27	29	31		
LESS THAN \$50	18	10	3	7	9		
\$50 TO \$99.	36	22	11	11	14		
\$100 TO \$199.	17	14	7	7	3		
\$200 TO \$399.	1	1	-	1	-		
\$400 OR MORE.	1	-	-	-	1		
DON'T KNOW.	1	-	-	-	1		
NOT REPORTED.	12	9	5	4	3		
MEDIAN.	75	80	***	***	***		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	391	298	106	192	94		
LESS THAN \$50	43	29	12	17	14		
\$50 TO \$99.	48	32	9	23	16		
\$100 TO \$199.	47	35	9	25	13		
\$200 TO \$399.	91	68	30	38	23		
\$400 OR MORE.	84	69	25	44	15		
DON'T KNOW.	44	35	15	20	9		
NOT REPORTED.	35	30	5	25	5		
MEDIAN.	239	260	281	243	181		
ALL OCCUPIED HOUSING UNITS.	14 950	11 900	5 039	6 862	3 049		
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK¹							
OWNER OCCUPIED.							
DRIVES SELF	6 449	5 039	1 849	3 190	1 410		
CARPOOL	5 002	3 972	1 450	2 522	1 030		
MASS TRANSPORTATION	893	683	239	444	210		
BICYCLE OR MOTORCYCLE	164	153	78	75	12		
TAXICAB	61	49	19	30	11		
WALKS ONLY.	3	2	2	-	2		
OTHER MEANS	126	69	35	34	57		
WORKS AT HOME	43	30	10	19	14		
NOT REPORTED.	142	68	12	56	73		
MEDIAN.	15	13	4	9	2		
RENTER OCCUPIED							
DRIVES SELF	4 020	3 341	1 580	1 761	679		
CARPOOL	2 759	2 295	1 019	1 277	464		
MASS TRANSPORTATION	545	435	175	260	110		
BICYCLE OR MOTORCYCLE	298	292	212	80	6		
TAXICAB	84	68	26	42	16		
WALKS ONLY.	7	5	3	2	2		
OTHER MEANS	213	164	97	67	49		
WORKS AT HOME	19	16	8	8	3		
NOT REPORTED.	79	51	29	23	28		
MEDIAN.	16	15	11	4	1		
DISTANCE FROM HOME TO WORK¹							
OWNER OCCUPIED.							
LESS THAN 1 MILE.	6 449	5 039	1 849	3 190	1 410		
1 TO 4 MILES.	365	191	82	109	174		
5 TO 9 MILES.	1 250	838	382	456	412		
10 TO 19 MILES.	1 324	1 075	500	575	249		
20 TO 29 MILES.	1 407	1 242	413	829	165		
30 TO 49 MILES.	606	526	125	401	80		
50 MILES OR MORE.	296	248	53	195	48		
WORKS AT HOME	100	74	23	51	27		
NO FIXED PLACE OF WORK.	142	68	12	56	73		
NOT REPORTED.	882	705	234	472	176		
MEDIAN.	76	70	24	46	6		
MILES.	9.0	10.0	8.3	12.0	4.9		
RENTER OCCUPIED							
LESS THAN 1 MILE.	4 020	3 341	1 580	1 761	679		
1 TO 4 MILES.	412	289	150	139	123		
5 TO 9 MILES.	1 080	876	470	407	204		
10 TO 19 MILES.	791	688	347	341	103		
20 TO 29 MILES.	778	702	281	420	76		
30 TO 49 MILES.	237	213	75	138	24		
50 MILES OR MORE.	129	111	35	76	18		
WORKS AT HOME	35	21	11	9	15		
NO FIXED PLACE OF WORK.	79	51	29	23	28		
NOT REPORTED.	372	298	134	164	74		
MEDIAN.	107	91	47	45	16		
MILES.	6.5	7.1	5.9	8.2	4.1		

¹LIMITED 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: 1978--CONTINUED
(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 WORK¹							
OWNER OCCUPIED	6 449	5 039	1 849	3 190	1 410		
LESS THAN 15 MINUTES	1 814	1 187	476	711	627		
15 TO 29 MINUTES	2 153	1 808	745	1 063	345		
30 TO 44 MINUTES	871	774	245	529	97		
45 TO 59 MINUTES	274	235	67	168	40		
1 HOUR TO 1 HOUR AND 29 MINUTES	209	178	39	139	31		
1 HOUR AND 30 MINUTES OR MORE	59	46	17	29	13		
WORKS AT HOME	142	68	12	56	73		
NO FIXED PLACE OF WORK	882	705	234	472	176		
NOT REPORTED	44	37	14	23	8		
MEDIAN	21.1	22.6	21.4	23.5	15.0-		
RENTER OCCUPIED	4 020	3 341	1 580	1 761	679		
LESS THAN 15 MINUTES	1 449	1 128	538	590	321		
15 TO 29 MINUTES	1 320	1 150	554	596	170		
30 TO 44 MINUTES	495	448	203	246	46		
45 TO 59 MINUTES	145	134	59	75	10		
1 HOUR TO 1 HOUR AND 29 MINUTES	101	84	36	48	17		
1 HOUR AND 30 MINUTES OR MORE	26	20	5	15	6		
WORKS AT HOME	79	51	29	23	28		
NO FIXED PLACE OF WORK	372	298	134	164	74		
NOT REPORTED	32	26	21	5	6		
MEDIAN	18.6	19.6	19.3	19.9	15.0-		

¹LIMITED 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 CHARACTERISTICS¹ 1978

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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS	14 950	862	2 446	1 724	2 733	2 072	1 763	1 888	930	391	141	14500
HOUSE HEATING FUEL												
OWNER OCCUPIED	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000
UTILITY GAS	6 407	192	679	485	982	907	988	1 194	622	268	89	19800
BOTTLED, TANK, OR LP GAS	297	18	57	29	61	48	24	31	17	10	3	13700
FUEL OIL	522	20	62	54	75	80	82	81	49	13	7	16200
KEROSENE, ETC	1	-	1	-	-	-	-	-	-	-	-	..
ELECTRICITY	1 547	56	143	116	281	265	230	252	116	65	22	18300
COAL OR COKE	10	1	2	-	3	1	2	1	1	-	-	..
WOOD	145	19	23	21	31	22	11	12	4	1	1	11400
SOLAR HEAT	2	-	-	-	-	-	2	-	-	-	-	..
OTHER FUEL	2	-	1	-	-	-	-	-	2	-	-	..
NONE	157	3	12	13	26	17	25	32	26	2	2	21700
RENTER OCCUPIED	5 859	553	1 464	1 006	1 275	732	401	286	94	32	16	9700
UTILITY GAS	3 718	327	952	665	810	466	256	153	61	20	7	9600
BOTTLED, TANK, OR LP GAS	111	7	30	20	29	13	8	3	2	-	-	9900
FUEL OIL	215	19	56	36	43	33	9	13	4	2	-	9700
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	..
ELECTRICITY	1 466	161	326	225	332	193	97	96	22	8	6	10300
COAL OR COKE	11	2	2	-	4	1	2	-	-	-	-	..
WOOD	60	5	15	17	9	2	5	5	-	2	-	6800
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	..
OTHER FUEL	56	13	23	3	7	3	6	-	-	-	-	5600
NONE	222	20	61	41	40	20	18	15	4	-	3	9200
WATER HEATING FUEL												
OWNER OCCUPIED	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000
NO HOT PIPED WATER	9 23	6	10	3	1	-	2	-	-	-	-	..
WITH HOT PIPED WATER	9 068	303	971	715	1 456	1 340	1 360	1 602	837	359	125	19100
FUEL USED:												
UTILITY GAS	6 160	174	617	470	967	879	955	1 157	596	263	80	19800
BOTTLED, TANK, OR LP GAS	253	15	47	31	49	39	27	27	11	6	3	13600
FUEL OIL	19	2	-	4	3	2	2	3	2	-	-	..
KEROSENE, ETC	1	-	1	-	-	-	-	-	-	-	-	..
ELECTRICITY	2 619	109	307	210	433	420	372	411	228	88	41	18000
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	..
WOOD	9	-	-	-	4	1	4	-	-	-	-	..
SOLAR HEAT	2	-	-	-	-	-	-	2	-	-	-	..
OTHER FUEL	1	-	-	-	-	-	-	1	-	-	-	..
NONE	5	3	-	-	-	-	-	2	-	-	-	..
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	..
RENTER OCCUPIED	5 859	553	1 464	1 006	1 275	732	401	286	94	32	16	9700
NO HOT PIPED WATER	20	12	3	2	-	-	-	-	-	-	-	..
WITH HOT PIPED WATER	5 839	549	1 453	1 003	1 274	732	401	286	94	32	16	9700
FUEL USED:												
UTILITY GAS	3 862	341	1 000	690	832	472	259	173	66	17	12	9600
BOTTLED, TANK, OR LP GAS	93	3	25	19	21	12	6	4	1	-	-	..
FUEL OIL	23	-	5	9	2	4	-	3	-	-	-	..
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	..
ELECTRICITY	1 776	184	403	277	403	236	124	104	27	14	5	10300
COAL OR COKE	5	2	2	-	2	-	-	-	-	-	-	..
WOOD	1	-	-	-	1	-	-	-	-	-	-	..
SOLAR HEAT	2	-	-	-	-	2	-	-	-	-	-	..
OTHER FUEL	78	20	18	5	14	6	9	2	-	-	-	6800
NONE	3	-	-	3	-	-	-	-	-	-	-	..
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	..
COOKING FUEL												
OWNER OCCUPIED	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000
UTILITY GAS	3 493	120	502	336	631	503	516	513	253	84	35	16600
BOTTLED, TANK, OR LP GAS	294	27	57	37	58	49	33	16	8	6	2	12200
FUEL OIL	4	1	-	-	2	-	1	-	-	-	1	..
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	..
ELECTRICITY	5 270	154	410	342	765	788	807	1 073	575	268	86	21100
COAL OR COKE	2	7	9	1	1	-	1	-	1	-	-	..
WOOD	21	-	-	-	1	-	-	-	1	-	-	..
OTHER FUEL	2	-	2	-	1	-	-	-	-	-	-	..
NONE	5	-	2	1	-	-	-	2	-	-	1	..
RENTER OCCUPIED	5 859	553	1 464	1 006	1 275	732	401	286	94	32	16	9700
UTILITY GAS	2 809	263	811	537	573	323	174	81	31	9	6	8800
BOTTLED, TANK, OR LP GAS	114	10	30	24	28	11	6	6	-	-	-	9200
FUEL OIL	3	-	-	2	-	-	-	2	-	-	-	..
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	..
ELECTRICITY	2 874	266	598	437	667	393	220	198	62	23	10	11000
COAL OR COKE	1	-	1	-	-	-	-	-	-	-	-	..
WOOD	2	-	2	-	1	-	-	-	-	-	-	..
OTHER FUEL	3	2	2	-	-	-	-	-	-	-	-	..
NONE	52	13	21	6	7	5	-	-	1	-	-	5500
MONTHLY COST PAID FOR ELECTRICITY												
SPECIFIED OWNER OCCUPIED ¹	7 371	231	655	532	1 125	1 087	1 152	1 487	738	305	99	20200
LESS THAN \$10	323	33	96	41	48	40	30	22	8	5	-	9400
\$10 TO \$19	2 059	91	267	225	376	318	313	333	122	45	9	16400
\$20 TO \$29	2 075	40	160	154	326	315	353	432	203	74	19	20600
\$30 TO \$39	1 298	33	70	55	190	180	222	300	167	61	20	22700
\$40 TO \$49	577	10	26	17	71	94	79	146	83	36	15	24400
\$50 TO \$59	415	8	15	17	42	77	80	64	65	23	5	23000
\$60 TO \$69	364	7	11	17	45	37	50	85	51	30	12	25700
\$70 TO \$79	107	6	8	3	14	11	12	17	18	16	3	25300
\$80 TO \$89	93	2	2	-	13	11	5	26	14	13	6	30700
\$100 TO \$149	35	2	-	3	2	3	8	5	7	1	5	..
\$150 OR MORE	6	1	-	1	2	1	1	1	-	2	2	..
NO ELECTRICITY USED OR NOT REPORTED	25	18	18	20	24	25	26	28	32	34	40	..

¹LIMITED 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: 1978--CONTINUED

(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	5 785	546	1 456	996	1 255	723	392	279	92	30	16	9700
LESS THAN \$10	1 108	110	297	222	234	138	64	30	9	2	2	9000
\$10 TO \$19	1 792	137	940	302	422	261	114	82	23	6	4	10200
\$20 TO \$29	927	55	191	151	209	124	80	73	33	6	4	11600
\$30 TO \$39	423	18	89	63	104	54	47	34	6	5	2	12000
\$40 TO \$49	157	14	27	22	33	30	14	12	1	4	-	12300
\$50 TO \$59	74	2	14	7	22	11	13	1	3	-	2	13300
\$60 TO \$79	73	5	13	9	17	9	8	3	1	2	2	12800
\$80 TO \$99	15	-	1	2	6	2	-	2	-	-	-	...
\$100 TO \$149	11	-	6	2	1	-	2	2	-	-	-	...
\$150 OR MORE	10	2	2	2	2	2	-	-	2	-	-	...
INCLUDED IN RENT	1 179	202	372	212	200	91	48	34	14	5	2	7200
NO ELECTRICITY USED OR NOT REPORTED	15	2	4	2	5	1	2	-	-	-	-	...
MEDIAN	16	14	15	16	16	18	21	22	...	...	...	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
SPECIFIED OWNER OCCUPIED ²	7 371	231	655	532	1 125	1 087	1 152	1 447	738	305	99	20200
LESS THAN \$10	959	36	127	91	154	131	163	161	55	32	9	17700
\$10 TO \$14	1 382	43	133	110	239	215	205	279	117	32	10	18900
\$15 TO \$19	1 118	33	90	91	156	159	183	220	123	52	11	20800
\$20 TO \$24	843	23	65	56	122	115	145	178	89	35	17	21400
\$25 TO \$29	568	20	52	23	81	96	87	116	60	27	7	20700
\$30 TO \$39	627	16	30	31	84	77	107	148	85	34	14	23500
\$40 TO \$49	256	8	15	8	44	24	33	47	49	22	6	24400
\$50 TO \$69	152	4	6	3	15	21	18	37	22	15	9	27100
\$70 TO \$99	31	-	2	1	4	4	3	8	3	7	-	...
\$100 OR MORE	18	-	2	2	3	2	3	-	3	2	2	...
NO GAS USED OR NOT REPORTED	1 417	48	133	115	224	245	204	253	132	48	15	18800
MEDIAN	17	16	15	15	16	17	18	20	22	23	...	...
SPECIFIED RENTER OCCUPIED ¹	5 785	546	1 456	996	1 255	723	392	279	92	30	16	9700
LESS THAN \$10	1 507	103	401	283	311	208	108	63	24	5	2	9600
\$10 TO \$14	733	65	165	135	157	102	52	42	5	6	2	10000
\$15 TO \$19	391	32	94	76	94	43	21	13	13	2	2	9700
\$20 TO \$24	193	22	48	25	36	26	13	13	7	1	2	10200
\$25 TO \$29	114	13	19	16	26	19	11	8	2	-	-	11700
\$30 TO \$39	106	5	23	12	33	12	11	7	2	-	-	12000
\$40 TO \$49	37	2	13	7	10	2	1	3	-	-	-	8800
\$50 TO \$69	36	2	10	2	8	5	9	-	-	-	-	12500
\$70 TO \$99	9	1	-	-	5	2	-	-	-	2	-	...
\$100 OR MORE	3	-	1	-	2	-	-	-	-	-	-	...
INCLUDED IN RENT	1 250	141	355	240	266	123	62	39	19	4	3	8600
NO GAS USED OR NOT REPORTED	1 405	161	327	201	305	181	105	90	20	10	5	10200
MEDIAN	10	11	10-	10-	11	10	10	11	12	...	...	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
SPECIFIED OWNER OCCUPIED ²	7 371	231	655	532	1 125	1 087	1 152	1 447	738	305	99	20200
LESS THAN \$100	306	8	18	20	33	40	41	83	41	14	8	24100
\$100 TO \$199	159	5	16	13	22	26	19	23	21	7	6	19400
\$200 TO \$299	115	4	22	13	13	17	20	17	7	2	-	16800
\$300 TO \$399	107	2	14	7	11	25	14	17	13	2	1	18800
\$400 TO \$499	108	5	6	9	28	16	14	14	15	15	1	16800
\$500 TO \$599	54	1	5	5	4	7	11	10	6	2	3	22000
\$600 TO \$699	35	2	1	3	5	6	5	7	3	2	-	...
\$700 TO \$799	9	-	-	-	-	1	4	2	-	-	-	...
\$800 OR MORE	14	-	1	2	-	-	2	3	-	-	-	...
FUELS NOT USED, FREE, OR NOT REPORTED	6 485	204	573	459	1 009	948	1 021	1 269	627	273	81	20200
MEDIAN	192	...	235	225	221	221	221	125	167	...	...	...
SPECIFIED RENTER OCCUPIED ¹	5 785	546	1 456	996	1 255	723	392	279	92	30	16	9700
LESS THAN \$100	80	8	7	12	26	11	13	3	1	-	-	12700
\$100 TO \$199	28	4	6	4	6	4	1	3	-	-	-	...
\$200 TO \$299	35	1	8	7	5	7	5	3	2	-	-	11800
\$300 TO \$399	37	3	7	4	7	9	3	3	2	-	-	13600
\$400 TO \$499	4	-	-	1	2	-	-	-	1	-	-	...
\$500 TO \$599	2	1	-	-	-	-	1	-	1	-	-	...
\$600 TO \$699	7	1	-	3	1	-	-	1	2	-	-	...
\$700 TO \$799	3	-	-	2	-	-	-	2	-	-	-	...
\$800 OR MORE	6	2	2	1	-	2	-	-	-	-	-	...
INCLUDED IN RENT	272	25	86	52	56	20	9	16	6	2	-	8800
FUELS NOT USED, FREE, OR NOT REPORTED	5 310	502	1 341	912	1 152	670	360	250	79	28	16	9700
MEDIAN	175	...	...	100-	...	...	...	...	...	...	...	...
ALL OCCUPIED HOUSING UNITS	14 950	862	2 446	1 724	2 733	2 072	1 763	1 888	930	391	141	14500
HEATING EQUIPMENT												
OWNER OCCUPIED	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000
YARM-AIR FURNACE	5 832	145	451	375	894	863	920	1 177	648	267	92	21000
HEAT PUMP	133	3	7	4	29	19	26	25	10	8	2	20800
STEAM OR HOT WATER	190	3	14	13	20	18	21	34	31	28	7	26500
BUILT-IN ELECTRIC UNITS	717	28	78	58	125	130	102	113	42	30	10	17700
FLOOR, WALL, OR PIPELESS FURNACE	1 465	71	269	165	255	213	215	184	62	21	10	14500
ROOM HEATERS WITH FLUE	290	23	67	40	51	34	31	14	8	2	-	9600
ROOM HEATERS WITHOUT FLUE	59	3	22	10	8	11	2	2	1	-	-	8100
FIREPLACES, STOVES, OR PORTABLE HEATERS	288	30	40	39	49	36	21	21	8	2	2	11500
NONE	157	3	12	13	26	17	25	32	26	2	2	21700

¹EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.²LIMITED 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: 1978--CONTINUED

(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	\$3,000 TO \$9,999	\$7,000 TO \$14,999	\$10,000 TO \$19,999	\$15,000 TO \$24,999	\$20,000 TO \$34,999	\$25,000 TO \$49,999	\$35,000 TO \$74,999	\$50,000 TO \$74,999	\$75,000 OR MORE \$74,999	MEDIAN DOL- LARS	
ALL OCCUPIED HOUSING UNITS--CONTINUED													
HEATING EQUIPMENT--CONTINUED													
RENTER OCCUPIED	5 859	553	1 464	1 006	1 275	732	401	286	94	32	16	9700	
WARM-AIR FURNACE	1 651	100	314	239	402	240	166	116	55	14	5	12100	
HEAT PUMP	30	6	7	2	5	2	6	-	-	-	-	..	
STEAM OR HOT WATER	392	56	108	66	83	41	21	10	3	4	-	8500	
BUILT-IN ELECTRIC UNITS	1 083	126	248	164	252	130	69	65	16	8	5	10100	
FLOOR, WALL, OR PIPELESS FURNACE	1 803	160	517	330	380	233	106	60	11	5	2	9000	
ROOM HEATERS WITH FLUE	458	54	144	118	74	45	13	6	3	-	-	7800	
ROOM HEATERS WITHOUT FLUE	97	19	28	17	20	11	1	-	-	-	-	7300	
FIREPLACES, STOVES, OR PORTABLE HEATERS	124	13	38	29	23	7	5	7	2	-	-	8200	
NONE	222	20	61	41	40	20	18	15	4	-	-	9200	
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
OWNER OCCUPIED	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000	
NO HEATING EQUIPMENT	157	3	12	13	26	17	25	32	26	2	2	21700	
WITH HEATING EQUIPMENT	8 933	306	969	705	1 432	1 324	1 338	1 570	810	357	123	19000	
NO THERMOSTAT CONTROL	906	77	202	120	149	107	110	94	35	10	2	11800	
WITH THERMOSTAT CONTROL	8 007	225	760	582	1 281	1 216	1 228	1 475	775	347	118	19800	
NOT CLOCK OPERATED	6 865	192	684	490	1 124	1 056	1 062	1 243	659	296	99	19700	
CONSTANT TEMPERATURE SETTING MAINTAINED	1 739	53	183	112	315	287	288	252	155	69	25	18600	
TEMPERATURE SETTING IS CHANGED	5 101	137	460	375	806	763	770	986	503	226	74	20100	
OCCASIONALLY	950	31	81	69	181	143	137	163	96	41	9	19000	
REGULARLY	4 109	104	373	301	621	614	627	812	407	184	65	20300	
DON'T KNOW	38	2	6	4	4	6	7	8	-	2	-	18200	
NOT REPORTED	3	-	-	-	-	1	-	2	-	-	-	...	
NOT REPORTED	25	2	1	3	3	6	4	5	-	-	-	...	
CLOCK OPERATED	1 091	32	113	78	146	156	158	227	113	50	18	20600	
NOT REPORTED	51	-	2	14	11	4	8	6	4	-	2	13900	
NOT REPORTED	20	4	7	3	2	1	-	1	-	-	2	...	
RENTER OCCUPIED	5 859	553	1 464	1 006	1 275	732	401	286	94	32	16	9700	
NO HEATING EQUIPMENT	222	20	61	41	40	20	18	15	4	-	3	9200	
WITH HEATING EQUIPMENT	5 638	533	1 404	966	1 235	712	382	271	90	32	13	9700	
NO THERMOSTAT CONTROL	1 734	196	546	372	324	156	69	53	12	6	1	8000	
WITH THERMOSTAT CONTROL	3 893	335	855	591	910	555	313	218	78	26	12	10900	
NOT CLOCK OPERATED	3 455	295	749	535	807	502	278	187	69	24	11	10900	
CONSTANT TEMPERATURE SETTING MAINTAINED	1 054	85	266	167	245	139	81	52	8	9	1	10200	
TEMPERATURE SETTING IS CHANGED	2 370	207	472	366	554	360	193	135	60	14	9	11300	
OCCASIONALLY	598	42	114	96	154	92	47	36	15	1	-	11500	
REGULARLY	1 738	158	351	268	395	260	140	99	45	13	9	11200	
DON'T KNOW	33	6	7	1	4	8	6	-	-	-	-	...	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	...	
CLOCK OPERATED	31	3	11	2	8	3	3	-	-	-	-	...	
NOT REPORTED	424	36	103	56	99	52	35	30	9	2	2	10800	
NOT REPORTED	14	5	3	-	3	2	1	-	-	-	-	...	
NOT REPORTED	10	2	2	2	2	1	-	-	-	-	-	...	
ALL OCCUPIED HOUSING UNITS	14 950	862	2 446	1 724	2 733	2 072	1 763	1 888	930	391	141	14500	
UNITS OCCUPIED LAST WINTER	11 438	616	1 750	1 194	2 044	1 599	1 407	1 591	788	332	116	15400	
INSUFFICIENT HEAT													
CLOSURE OF ROOMS:													
OWNER OCCUPIED	8 025	283	921	638	1 284	1 155	1 179	1 412	731	315	106	18800	
WITH HEATING EQUIPMENT	7 870	280	909	625	1 260	1 139	1 154	1 380	705	313	104	18800	
NO ROOMS CLOSED	7 613	259	848	589	1 223	1 112	1 132	1 355	696	301	98	19000	
CLOSED CERTAIN ROOMS	193	17	48	22	31	21	19	14	7	8	5	11500	
LIVING ROOM ONLY	3	-	-	1	1	-	1	-	-	-	-	...	
DINING ROOM ONLY	7	1	2	-	2	2	2	2	-	-	-	...	
1 OR MORE BEDROOMS ONLY	139	15	34	19	24	14	10	8	5	5	5	10200	
OTHER ROOMS OR COMBINATION OF ROOMS	41	2	12	2	5	6	5	5	2	3	3	15500	
NOT REPORTED	3	-	-	2	2	-	2	-	-	-	-	...	
NO HEATING EQUIPMENT	63	4	13	14	6	6	3	10	2	4	1	10800	
155	3	12	13	23	17	25	32	26	2	2	2	21900	
RENTER OCCUPIED	3 413	334	829	555	761	444	228	179	57	17	10	9900	
WITH HEATING EQUIPMENT	3 272	320	789	534	738	429	215	165	57	17	8	10000	
NO ROOMS CLOSED	3 100	306	743	510	697	403	206	155	55	17	8	9800	
CLOSED CERTAIN ROOMS	121	13	39	17	27	15	6	3	2	-	-	8600	
LIVING ROOM ONLY	3	-	2	-	2	-	-	-	-	-	-	...	
DINING ROOM ONLY	2	-	2	-	2	-	-	-	-	-	-	...	
1 OR MORE BEDROOMS ONLY	95	11	27	15	20	12	6	3	2	-	-	8900	
OTHER ROOMS OR COMBINATION OF ROOMS	20	2	8	1	7	2	-	-	-	-	-	...	
NOT REPORTED	1	-	-	1	-	-	-	-	-	-	-	...	
NO HEATING EQUIPMENT	50	1	7	7	14	11	3	7	-	-	-	13400	
141	14	40	21	22	15	13	14	-	-	-	2	9400	
ADDITIONAL HEAT SOURCE:													
OWNER OCCUPIED	8 025	283	921	638	1 284	1 155	1 179	1 412	731	315	106	18800	
WITH SPECIFIED HEATING EQUIPMENT	7 602	248	851	588	1 212	1 099	1 134	1 359	697	312	102	19100	
NO ADDITIONAL HEAT SOURCE USED	7 167	230	787	543	1 138	1 045	1 077	1 294	658	300	95	19200	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER													
NOT REPORTED	388	16	54	38	66	52	53	59	36	10	6	17000	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	423	35	70	51	72	56	45	53	34	3	4	13900	
RENTER OCCUPIED	3 413	334	829	555	761	444	228	179	57	17	10	9900	
WITH SPECIFIED HEATING EQUIPMENT	3 130	297	749	506	711	419	211	160	55	15	7	10100	
NO ADDITIONAL HEAT SOURCE USED	2 807	262	669	462	634	378	190	139	51	15	7	10100	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER													
NOT REPORTED	276	34	74	37	63	30	19	13	5	-	-	9400	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	47	1	6	7	14	11	2	7	-	-	-	13600	
282	37	80	49	49	25	17	19	2	2	2	31	8500	

¹EXCLUDES 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: 1978--CONTINUED

(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 (DOL- LARS)	
ALL OCCUPIED HOUSING UNITS--CONTINUED													
UNITS OCCUPIED LAST WINTER--CONTINUED													
INSUFFICIENT HEAT--CONTINUED													
ROOMS LACKING SPECIFIED HEAT SOURCE:													
OWNER OCCUPIED.	8 025	283	921	638	1 284	1 155	1 179	1 412	731	315	106	18800	
WITH SPECIFIED HEATING EQUIPMENT ¹	7 602	248	851	588	1 212	1 099	1 134	1 359	697	312	102	19100	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	5 416	138	465	359	830	798	822	1 067	575	280	82	20700	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 113	107	375	211	374	298	304	280	115	30	19	14900	
1 ROOM.	533	16	85	47	82	65	74	103	45	8	8	17700	
2 ROOMS	596	41	138	67	119	87	72	55	21	9	7	12200	
3 ROOMS OR MORE	984	49	152	98	173	166	157	123	49	14	4	15600	
NOT REPORTED.	73	4	12	17	8	2	8	11	6	2	1	11900	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	423	35	70	51	72	56	45	53	34	3	4	13900	
RENTER OCCUPIED	3 413	334	829	555	761	448	228	179	57	17	10	9900	
WITH SPECIFIED HEATING EQUIPMENT ¹	3 130	297	749	506	711	419	211	160	55	15	7	10100	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 714	191	372	258	396	218	122	104	37	11	5	10400	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 354	104	369	238	296	187	86	47	19	5	2	9600	
1 ROOM.	478	41	140	97	86	59	29	10	10	5	2	8800	
2 ROOMS	537	45	138	84	132	85	34	13	5	-	-	10000	
3 ROOMS OR MORE	339	18	91	58	78	43	23	24	4	-	-	10100	
NOT REPORTED.	63	2	8	9	19	14	3	8	-	-	-	13400	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	282	37	80	49	49	25	17	19	2	2	3	8500	
ALL OCCUPIED HOUSING UNITS.	14 950	862	2 446	1 724	2 733	2 072	1 763	1 888	930	391	141	14500	
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
OWNER OCCUPIED.	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	405	32	52	52	75	53	46	52	34	4	4	14400	
WITH SELECTED HEATING EQUIPMENT ²	8 685	276	929	666	1 382	1 287	1 317	1 550	802	355	121	19200	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	8 319	272	908	639	1 326	1 225	1 251	1 483	767	333	114	19100	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	323	3	15	23	52	57	61	56	34	18	5	21000	
SOLAR HEATING EQUIPMENT	3	-	-	-	-	-	-	-	1	2	-	...	
STOVE, BURNING WOOD OR COAL	80	2	4	4	12	15	22	12	6	5	2	21000	
FIREPLACE, BURNING WOOD OR COAL	45	-	-	7	6	13	5	9	2	4	-	19000	
PORTABLE ELECTRIC HEATER	103	2	9	8	20	20	17	11	14	-	2	18100	
ROOM HEATER WITHOUT FLUE OR VENTS, BURNING GAS, OIL, OR KEROSENE	7	-	-	-	-	-	3	2	-	-	2	...	
OTHER	79	-	2	5	12	9	14	22	11	5	2	24900	
NOT REPORTED.	6	-	-	-	3	1	-	-	-	2	-	...	
NOT REPORTED.	44	1	6	4	5	5	5	11	1	5	2	21800	
RENTER OCCUPIED	5 859	553	1 464	1 006	1 275	732	401	286	94	32	16	9700	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	346	33	98	69	62	27	24	22	5	2	3	8800	
WITH SELECTED HEATING EQUIPMENT ²	5 513	520	1 366	937	1 213	705	377	264	88	30	13	9800	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 351	497	1 326	911	1 172	689	366	262	85	30	13	9800	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	131	16	33	22	36	13	7	2	-	-	-	9200	
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	
STOVE, BURNING WOOD OR COAL	5	-	2	-	2	-	1	-	-	-	-	...	
FIREPLACE, BURNING WOOD OR COAL	7	-	-	2	2	2	3	2	-	-	-	...	
PORTABLE ELECTRIC HEATER	97	13	25	19	25	9	3	2	-	-	-	6800	
ROOM HEATER WITHOUT FLUE OR VENTS, BURNING GAS, OIL, OR KEROSENE	5	-	2	-	2	-	1	-	-	-	-	...	
OTHER	16	3	3	3	2	2	2	2	-	-	-	...	
NOT REPORTED.	3	-	2	-	2	-	2	-	-	-	-	...	
NOT REPORTED.	31	7	7	4	5	2	4	-	2	-	-	...	
AGE OF HEATING EQUIPMENT													
OWNER OCCUPIED.	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	754	59	162	103	134	97	78	68	43	6	4	12000	
WITH SELECTED HEATING EQUIPMENT ²	8 337	250	819	615	1 323	1 243	1 285	1 534	794	353	121	19700	
LESS THAN 4 YEARS	1 549	42	93	87	224	245	236	336	176	88	21	21800	
4 TO 9 YEARS	2 189	58	183	153	370	324	347	432	206	100	17	20100	
10 TO 19 YEARS	2 291	56	251	170	335	317	357	409	238	107	52	20200	
20 TO 39 YEARS	1 667	60	196	155	272	256	272	272	129	90	16	18000	
40 YEARS OR MORE	174	8	23	10	31	30	23	24	13	4	7	17300	
DON'T KNOW	336	13	39	29	66	57	37	51	26	12	5	16800	
NOT REPORTED.	130	11	34	10	26	15	12	11	5	3	2	11700	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
OWNER OCCUPIED.	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	754	59	162	103	134	97	78	68	43	6	4	12000	
WITH SELECTED HEATING EQUIPMENT ²	8 337	250	819	615	1 323	1 243	1 285	1 534	794	353	121	19700	
NO MAINTENANCE OR MODIFICATION	6 861	208	677	539	1 101	1 027	1 071	1 238	635	274	90	19400	
WITH MAINTENANCE OR MODIFICATION	1 352	31	111	68	193	203	200	288	154	76	28	21700	
NOT REPORTED.	123	10	31	7	29	14	14	8	5	3	2	12300	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
OWNER OCCUPIED.	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	754	59	162	103	134	97	78	68	43	6	4	12000	
WITH SELECTED HEATING EQUIPMENT ²	8 337	250	819	615	1 323	1 243	1 285	1 534	794	353	121	19700	
NO MAINTENANCE CONTRACT	7 674	232	748	580	1 209	1 155	1 175	1 410	735	326	105	19600	
WITH MAINTENANCE CONTRACT	486	5	28	24	77	73	90	110	45	22	12	22000	
NOT REPORTED.	177	13	43	11	37	15	20	14	14	5	4	12800	

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

²EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

³EXCLUDES 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 CHARACTERISTICS¹ 1976--CONTINUED

(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	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000	
NO HOT PIPED WATER	23	6	10	3	1	-	2	-	-	-	-	-	-
WITH HOT PIPED WATER	9 068	303	971	715	1 456	1 340	1 360	1 602	837	359	125	19100	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	8 858	294	947	705	1 424	1 320	1 329	1 554	814	351	121	19000	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	71	2	5	4	6	5	13	19	14	3	-	25600	
NOT REPORTED	132	4	20	6	26	16	18	25	9	5	4	18500	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	
RENTER OCCUPIED	5 859	553	1 464	1 006	1 275	732	401	286	94	32	16	9700	
NO HOT PIPED WATER	20	4	12	3	2	-	-	-	-	-	-	-	
WITH HOT PIPED WATER	5 839	549	1 453	1 003	1 274	732	401	286	94	32	16	9700	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 726	537	1 424	979	1 256	717	393	281	91	32	16	9800	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	34	3	8	7	4	6	6	-	-	-	-	-	
NOT REPORTED	74	9	20	15	14	8	1	5	2	-	-	8600	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	
AIR CONDITIONING													
OWNER OCCUPIED	9 091	308	981	718	1 457	1 340	1 363	1 602	837	359	125	19000	
WITH AIR CONDITIONING	3 224	94	328	230	551	437	512	581	309	130	53	19700	
ROOM UNITS	1 128	41	158	100	199	166	161	180	86	26	11	17000	
1	872	32	142	76	168	116	127	129	61	16	5	15800	
2	217	3	14	22	29	40	30	41	20	10	7	20000	
3	31	2	1	2	1	8	3	7	5	-	-	-	
4	4	-	2	-	-	2	-	1	-	-	-	-	
5 OR MORE	4	2	-	-	-	-	-	2	-	-	-	-	
CENTRAL SYSTEM	2 096	53	170	130	353	271	351	400	223	104	42	21000	
WITH NO AIR CONDITIONING	5 866	215	653	488	906	903	851	1 022	528	229	71	18700	
RENTER OCCUPIED	5 859	553	1 464	1 006	1 275	732	401	286	94	32	16	9700	
WITH AIR CONDITIONING	1 623	94	355	268	344	258	153	100	35	8	8	11400	
ROOM UNITS	932	46	210	180	189	155	84	50	12	1	5	10800	
1	839	43	199	164	169	142	68	40	11	1	2	10400	
2	75	2	7	12	16	9	14	10	2	-	2	14900	
3	15	2	3	3	4	1	2	-	-	-	-	-	
4	3	-	-	-	-	2	-	-	-	-	2	-	
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-	
CENTRAL SYSTEM	691	48	145	88	154	103	70	49	23	7	3	12100	
WITH NO AIR CONDITIONING	4 236	459	1 109	739	932	474	247	186	59	24	8	9200	
ALL OCCUPIED HOUSING UNITS	14 950	862	2 446	1 724	2 733	2 072	1 763	1 888	930	391	141	14500	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 771	493	1 358	1 035	1 053	1 551	1 467	1 690	847	352	124	17100	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
OWNER OCCUPIED	8 680	294	916	681	1 385	1 266	1 314	1 563	806	339	115	19200	
ALL WINDOWS COVERED	1 462	39	109	122	238	244	220	265	137	69	19	19600	
SOME WINDOWS COVERED	802	38	95	79	137	135	106	123	53	22	15	16900	
NO WINDOWS COVERED	6 372	214	710	475	1 004	880	980	1 171	613	247	79	19500	
NOT REPORTED	44	3	3	5	6	8	8	4	2	2	3	17800	
RENTER OCCUPIED	2 090	199	442	354	468	285	153	127	42	13	8	10500	
ALL WINDOWS COVERED	183	17	34	23	45	24	22	11	5	2	1	12000	
SOME WINDOWS COVERED	162	13	29	19	46	31	15	6	1	1	-	12000	
NO WINDOWS COVERED	1 622	151	339	295	353	219	110	103	35	10	8	10400	
NOT REPORTED	124	18	40	17	23	11	6	6	2	-	-	7600	
STORM DOORS													
OWNER OCCUPIED	8 680	294	916	681	1 385	1 266	1 314	1 563	806	339	115	19200	
ALL DOORS COVERED	1 066	16	99	111	188	180	163	173	92	36	9	18300	
SOME DOORS COVERED	829	32	88	49	148	147	123	124	78	30	9	18300	
NO DOORS COVERED	6 714	239	722	512	1 042	931	1 019	1 253	632	270	94	19500	
NOT REPORTED	71	7	6	8	7	9	10	13	4	3	3	19000	
RENTER OCCUPIED	2 090	199	442	354	468	285	153	127	42	13	8	10500	
ALL DOORS COVERED	135	12	23	13	45	20	10	9	2	-	-	12100	
SOME DOORS COVERED	110	7	16	9	41	18	9	5	4	1	-	12800	
NO DOORS COVERED	1 707	161	355	311	356	236	128	106	32	12	8	10400	
NOT REPORTED	138	18	47	21	26	11	6	6	3	-	-	7500	
ATTIC OR ROOF INSULATION													
OWNER OCCUPIED	8 680	294	916	681	1 385	1 266	1 314	1 563	806	339	115	19200	
YES	6 688	195	601	474	1 051	997	1 052	1 275	664	295	85	20100	
NO	1 499	74	234	145	263	209	189	222	113	30	20	15800	
DON'T KNOW	447	20	77	56	65	54	66	61	27	11	8	15500	
NOT REPORTED	47	6	3	5	6	7	5	2	3	3	3	17200	
RENTER OCCUPIED	2 090	199	442	354	468	285	153	127	42	13	8	10500	
YES	725	71	119	109	171	100	68	54	23	5	5	11900	
NO	650	61	153	119	137	88	41	42	8	2	2	9800	
DON'T KNOW	589	47	130	109	137	86	38	25	9	6	2	10300	
NOT REPORTED	126	20	41	17	24	11	6	7	2	-	-	7400	

¹LIMITED 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: 1978--CONTINUED

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 (DOL- LARS)		
			\$6,999	\$9,999	\$14,999	\$19,999	\$24,999	\$34,999	\$49,999	\$74,999	\$39	115		
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.														
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:	8 680	294	916	681	1 385	1 266	1 314	1 563	806	339	115	19200		
NO WINDOWS COVERED.	6 372	214	710	475	1 004	880	980	1 171	613	247	79	19500		
SOME OR ALL WINDOWS COVERED.	2 264	77	204	201	375	379	326	388	191	91	34	18600		
NONE ADDED OR INSTALLED.	1 778	54	152	162	293	310	256	300	150	69	32	18700		
SOME OR ALL ADDED OR INSTALLED.	432	23	43	33	71	64	65	76	35	20	2	18600		
NOT REPORTED.	54	1	8	5	10	5	5	12	6	2	-	17100		
NOT REPORTED.	44	3	3	5	6	8	8	4	2	2	3	17800		
STORM DOORS:														
NO DOORS COVERED.	6 714	239	722	512	1 042	931	1 019	1 253	632	270	94	19500		
SOME OR ALL DOORS COVERED.	1 895	48	188	160	336	326	285	297	170	66	18	18300		
NONE ADDED OR INSTALLED.	1 574	42	152	144	279	267	243	239	133	57	18	18200		
SOME OR ALL ADDED OR INSTALLED.	229	6	24	12	36	45	36	42	22	7	-	19100		
NOT REPORTED.	92	1	12	5	20	15	6	17	15	3	-	18000		
NOT REPORTED.	71	7	6	8	7	9	10	13	4	3	3	19000		
ATTIC OR ROOF INSULATION:														
NO ATTIC OR ROOF INSULATION.	1 499	74	234	145	263	209	189	222	113	30	20	15800		
WITH ATTIC OR ROOF INSULATION.	6 668	195	601	474	1 051	997	1 052	1 275	664	295	85	20100		
NONE ADDED OR INSTALLED.	5 894	174	509	424	931	889	928	1 114	591	255	78	20100		
SOME OR ALL ADDED OR INSTALLED.	569	12	56	33	83	79	88	128	53	31	5	21200		
LESS THAN 3 INCHES ADDED.	38	-	4	5	6	2	4	10	2	4	-	21800		
3 TO 6 INCHES ADDED.	261	3	27	17	35	42	40	58	24	11	3	20800		
6 INCHES OR MORE ADDED.	213	1	15	9	40	25	42	50	17	12	2	21900		
DON'T KNOW.	40	8	5	1	1	9	8	6	4	4	-	18400		
NOT REPORTED.	16	-	4	2	2	1	2	2	4	-	-	...		
NOT REPORTED.	225	9	36	17	37	28	36	32	20	9	2	17600		
DON'T KNOW.	447	20	77	56	65	54	66	61	27	11	8	15500		
NOT REPORTED.	47	6	3	5	6	6	7	5	2	3	3	17200		
WALL INSULATION:														
NONE ADDED OR INSTALLED.	8 252	282	892	663	1 324	1 183	1 252	1 465	759	324	107	19100		
SOME OR ALL ADDED OR INSTALLED.	377	8	20	14	56	75	51	90	45	14	6	21600		
NOT REPORTED.	51	4	4	3	5	8	12	8	2	2	3	20000		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:														
NONE ADDED OR INSTALLED.	7 321	255	808	585	1 155	1 050	1 089	1 335	659	286	99	19100		
SOME OR ALL ADDED OR INSTALLED.	1 235	32	99	86	207	194	201	222	135	50	11	20000		
DON'T KNOW.	87	2	7	6	19	16	18	4	11	2	3	18200		
NOT REPORTED.	37	5	3	3	5	6	6	2	2	2	3	17200		
OTHER INSULATION:														
NONE ADDED OR INSTALLED.	8 286	278	893	648	1 332	1 191	1 257	1 483	770	322	111	19200		
SOME OR ALL ADDED OR INSTALLED.	344	11	18	29	47	66	49	77	30	16	2	20100		
NOT REPORTED.	51	5	5	3	6	9	8	3	7	2	3	18500		
RENTER OCCUPIED.	2 090	199	442	354	468	285	153	127	42	13	8	10500		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:														
NO WINDOWS COVERED.	1 622	151	339	295	353	219	110	103	35	10	8	10400		
SOME OR ALL WINDOWS COVERED.	344	30	63	42	92	54	36	18	5	3	1	12000		
NONE ADDED OR INSTALLED.	251	22	41	28	68	39	31	15	5	2	1	12600		
SOME OR ALL ADDED OR INSTALLED.	74	8	14	13	20	13	2	3	1	1	-	10700		
NOT REPORTED.	20	-	9	2	4	3	3	6	2	-	-	7600		
NOT REPORTED.	124	18	40	17	23	11	6	6	2	-	-	-		
STORM DOORS:														
NO DOORS COVERED.	1 707	161	355	311	356	236	128	106	32	12	8	10400		
SOME OR ALL DOORS COVERED.	245	19	40	22	86	37	19	15	6	1	-	12400		
NONE ADDED OR INSTALLED.	207	17	32	19	73	33	15	12	5	1	-	12500		
SOME OR ALL ADDED OR INSTALLED.	20	1	5	4	6	-	3	2	1	-	-	...		
NOT REPORTED.	19	2	3	-	8	4	1	6	3	-	-	7500		
ATTIC OR ROOF INSULATION:														
NO ATTIC OR ROOF INSULATION.	650	61	153	119	137	88	91	42	8	2	2	9800		
WITH ATTIC OR ROOF INSULATION.	725	71	119	109	171	100	68	54	23	5	5	11900		
NONE ADDED OR INSTALLED.	646	65	102	96	145	94	63	50	20	5	5	12100		
SOME OR ALL ADDED OR INSTALLED.	49	5	9	8	19	3	3	2	1	-	-	10600		
LESS THAN 3 INCHES ADDED.	5	-	1	-	2	2	1	-	-	-	-	...		
3 TO 6 INCHES ADDED.	10	1	-	4	3	1	1	1	-	-	-	...		
6 INCHES OR MORE ADDED.	8	-	3	1	3	1	1	-	-	-	-	...		
DON'T KNOW.	8	-	5	1	8	-	1	2	1	-	-	...		
NOT REPORTED.	21	4	5	1	8	-	1	2	1	-	-	...		
NOT REPORTED.	5	-	-	2	3	-	-	-	-	-	-	...		
DON'T KNOW.	30	1	8	5	7	3	2	2	2	-	-	...		
NOT REPORTED.	589	47	130	109	137	86	38	25	9	6	2	10300		
NOT REPORTED.	126	20	41	17	24	11	6	7	2	-	-	7400		
WALL INSULATION:														
NONE ADDED OR INSTALLED.	1 905	174	390	325	434	268	136	119	37	13	8	10700		
SOME OR ALL ADDED OR INSTALLED.	28	3	7	4	7	2	6	-	-	-	-	...		
NOT REPORTED.	157	22	45	25	27	15	11	8	5	-	-	8400		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:														
NONE ADDED OR INSTALLED.	1 676	145	346	290	381	233	117	108	35	13	8	10800		
SOME OR ALL ADDED OR INSTALLED.	132	15	17	19	36	22	13	9	1	-	-	12000		
DON'T KNOW.	161	21	37	30	29	20	16	4	4	-	-	9200		
NOT REPORTED.	121	18	42	16	21	10	6	6	2	-	-	7100		
OTHER INSULATION:														
NONE ADDED OR INSTALLED.	1 922	177	393	326	435	270	141	121	39	13	8	10700		
SOME OR ALL ADDED OR INSTALLED.	25	2	5	5	6	3	3	2	-	1	...	8000		
NOT REPORTED.	143	20	44	23	26	12	9	6	3	-	-	-		

TABLE E-2. INCOME OF FAMILIES AND PRIMARY INDIVIDUALS BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS: 1978--CONTINUED

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 (DOL- LARS)
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	8 680	294	916	681	1 385	1 266	1 314	1 563	806	339	115	19200
NO INSULATION ADDED OR INSTALLED	6 334	219	696	530	983	903	936	1 150	581	244	93	19100
WITH INSULATION ADDED OR INSTALLED	1 980	60	168	130	329	313	326	365	193	81	15	19800
LESS THAN \$50	854	34	69	61	156	142	137	137	89	24	5	18700
\$50 TO \$99	203	5	16	24	31	30	35	41	13	6	-	19100
\$100 TO \$199	163	2	12	8	21	37	32	28	18	7	1	20400
\$200 TO \$399	198	3	28	9	33	25	36	35	22	5	2	20100
\$400 OR MORE	244	3	16	9	41	38	38	61	23	15	1	22000
DON'T KNOW	127	4	13	10	18	15	17	24	13	10	3	20900
NOT REPORTED	191	8	15	9	29	26	31	39	15	15	3	21400
MEDIAN	50-	50-	53	50-	50-	50-	53	67	50-	85	---	---
NOT REPORTED OR DON'T KNOW	366	16	52	21	73	50	52	48	32	15	8	17200
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	165	11	22	12	37	16	26	26	11	4	-	15200
LESS THAN \$50	74	7	16	5	16	8	8	8	5	1	-	12900
\$50 TO \$99	17	2	-	5	1	1	-	6	2	-	-	---
\$100 TO \$199	16	-	2	-	6	-	4	2	3	-	-	---
\$200 TO \$399	13	-	-	-	2	3	4	2	2	2	-	---
\$400 OR MORE	16	1	-	2	4	1	5	4	-	-	-	---
DON'T KNOW	7	-	1	-	1	-	2	2	2	-	-	---
NOT REPORTED	22	2	4	-	7	1	2	3	1	2	-	---
MEDIAN	50-	---	---	---	---	---	---	---	---	---	---	---
ONLY ADDED OR INSTALLED STORM DOORS	87	4	6	1	11	23	14	16	8	4	-	19700
LESS THAN \$50	18	2	2	-	2	4	6	2	-	-	-	---
\$50 TO \$99	36	-	3	-	7	11	2	9	2	2	-	18300
\$100 TO \$199	17	-	-	-	2	3	6	1	1	1	-	---
\$200 TO \$399	1	-	-	-	-	-	-	-	-	-	-	---
\$400 OR MORE	1	-	-	-	-	-	-	-	-	-	-	---
DON'T KNOW	1	1	-	-	-	-	-	-	-	-	-	---
NOT REPORTED	12	2	1	-	-	4	-	4	-	2	-	---
MEDIAN	75	---	---	---	---	---	---	---	---	---	---	---
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	391	8	36	23	65	65	64	81	32	15	3	20000
LESS THAN \$50	43	1	1	1	9	7	4	14	4	4	-	24200
\$50 TO \$99	48	-	2	8	9	5	10	9	2	3	-	20500
\$100 TO \$199	47	-	2	4	3	14	10	11	1	1	-	20100
\$200 TO \$399	91	3	20	8	10	11	13	16	7	2	2	16900
\$400 OR MORE	84	1	8	-	23	14	10	20	6	2	1	18900
DON'T KNOW	44	2	1	-	10	8	8	5	3	1	1	20400
NOT REPORTED	35	1	3	1	1	6	9	6	7	-	-	---
MEDIAN	239	---	---	---	316	199	192	208	---	---	---	---
ALL OCCUPIED HOUSING UNITS	14 950	862	2 446	1 724	2 733	2 072	1 763	1 888	930	391	141	14500
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK ¹												
OWNER OCCUPIED	6 449	99	189	300	935	1 090	1 188	1 444	761	332	111	22600
DRIVES SELF	5 002	62	130	235	734	837	941	1 123	587	269	83	22700
CARPOOL	893	16	17	35	120	164	161	218	114	36	12	22900
MASS TRANSPORTATION	164	-	11	7	24	36	30	35	14	5	2	20500
BICYCLE OR MOTORCYCLE	61	2	2	3	6	12	11	19	3	-	3	22700
TAXICAB	3	-	-	-	2	-	-	-	-	2	-	---
WALKS ONLY	126	3	14	9	29	16	20	16	11	7	1	17500
OTHER MEANS	43	2	-	-	4	3	5	11	12	5	2	32700
WORKS AT HOME	142	12	14	12	16	21	17	18	16	8	8	19300
NOT REPORTED	15	3	1	-	-	1	3	5	2	-	-	---
RENTER OCCUPIED	4 020	177	633	753	1 087	641	352	248	84	29	16	12100
DRIVES SELF	2 759	99	339	510	787	488	260	178	63	23	12	12700
CARPOOL	545	17	92	101	147	80	54	43	9	-	3	12200
MASS TRANSPORTATION	298	15	92	75	61	30	10	9	5	2	-	8700
BICYCLE OR MOTORCYCLE	84	11	12	12	24	11	9	4	2	-	-	11600
TAXICAB	7	-	3	2	-	2	2	-	-	-	-	---
WALKS ONLY	213	29	66	43	35	21	9	8	2	1	-	7800
OTHER MEANS	19	-	6	1	4	2	2	2	1	2	-	---
WORKS AT HOME	79	6	20	9	25	7	3	4	2	2	1	11000
NOT REPORTED	16	-	3	1	6	2	3	-	-	-	-	---
DISTANCE FROM HOME TO WORK ¹												
OWNER OCCUPIED	6 449	99	189	300	935	1 090	1 188	1 444	761	332	111	22600
LESS THAN 1 MILE	365	10	22	32	78	58	66	48	32	15	5	18500
1 TO 4 MILES	1 250	19	52	80	217	207	219	229	141	65	22	21200
5 TO 9 MILES	1 324	16	38	62	213	255	246	293	131	54	16	21600
10 TO 19 MILES	1 407	10	24	51	165	260	266	370	172	69	20	23600
20 TO 29 MILES	606	11	7	16	84	88	105	173	74	36	10	24600
30 TO 49 MILES	296	4	2	7	26	45	58	80	59	11	5	25900
50 MILES OR MORE	100	2	1	5	16	17	25	17	6	8	3	21800
WORKS AT HOME	142	12	14	12	16	21	17	18	16	8	8	19300
NO FIXED PLACE OF WORK	882	13	24	31	105	133	178	200	114	63	22	23600
NOT REPORTED	76	3	5	6	16	7	8	16	14	3	-	21500
MEDIAN	9.0	7.3	4.9	6.2	7.4	8.9	9.2	10.9	10.2	9.6	9.0	---
RENTER OCCUPIED	4 020	177	633	753	1 087	641	352	248	84	29	16	12100
LESS THAN 1 MILE	412	30	97	93	102	44	19	20	7	-	-	9500
1 TO 4 MILES	1 080	52	204	237	291	145	78	49	12	8	3	10800
5 TO 9 MILES	791	26	102	152	223	140	76	49	20	2	2	12600
10 TO 19 MILES	778	33	95	130	231	135	72	55	17	5	4	12800
20 TO 29 MILES	237	10	28	34	59	53	30	15	5	3	2	14000
30 TO 49 MILES	129	4	20	16	29	25	15	12	6	2	-	14200
50 MILES OR MORE	35	-	2	5	20	2	-	5	-	2	-	12700
WORKS AT HOME	79	6	20	9	25	7	3	4	2	2	1	11000
NO FIXED PLACE OF WORK	372	16	45	54	82	71	55	36	7	2	4	14300
NOT REPORTED	107	-	22	22	26	19	4	3	8	5	-	12000
MEDIAN	6.5	4.7	4.5	5.1	6.9	8.0	8.1	8.4	8.6	...	...	---

¹LIMITED 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: 1978--CONTINUED

(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 (DOL- LARS)
ALL OCCUPIED HOUSING UNITS--CONTINUED												
TRAVEL TIME FROM HOME TO WORK¹												
OWNER OCCUPIED	6 449	99	189	300	935	1 090	1 188	1 444	761	332	111	22600
LESS THAN 15 MINUTES	1 814	26	61	118	306	281	346	349	194	96	38	21700
15 TO 29 MINUTES	2 153	23	56	85	320	437	397	482	238	98	18	22000
30 TO 44 MINUTES	871	15	22	34	119	131	142	237	117	36	19	24000
45 TO 59 MINUTES	274	5	8	8	32	39	45	87	37	12	2	25100
1 HOUR TO 1 HOUR AND 29 MINUTES	209	4	2	8	25	34	47	46	32	8	3	23300
1 HOUR AND 30 MINUTES OR MORE	59	-	1	3	6	9	10	12	8	8	1	24800
WORKS AT HOME	142	12	14	12	16	21	17	18	16	8	8	19300
NO FIXED PLACE OF WORK	882	13	24	31	105	133	178	200	114	63	22	23800
NOT REPORTED	44	3	1	3	7	6	7	12	5	1	-	22200
MEDIAN	21.1	21.6	18.9	16.7	19.6	21.3	20.5	23.0	22.5	20.0	16.9	...
RENTER OCCUPIED	4 020	177	633	753	1 087	641	352	248	84	29	16	12100
LESS THAN 15 MINUTES	1 449	76	257	310	414	197	95	74	17	5	3	11000
15 TO 29 MINUTES	1 320	55	187	243	353	229	125	80	33	9	5	12500
30 TO 44 MINUTES	495	16	74	86	134	83	53	27	15	4	2	12700
45 TO 59 MINUTES	145	3	21	29	28	29	15	10	6	3	-	13300
1 HOUR TO 1 HOUR AND 29 MINUTES	101	4	20	15	33	13	5	10	1	-	-	11700
1 HOUR AND 30 MINUTES OR MORE	26	-	3	2	12	4	-	3	4	2	2	-
WORKS AT HOME	79	6	20	9	25	7	3	4	2	2	1	11000
NO FIXED PLACE OF WORK	372	16	45	54	82	71	55	36	7	2	4	14300
NOT REPORTED	32	2	5	4	6	8	1	3	2	2	-	...
MEDIAN	18.6	15.2	16.9	16.9	18.1	20.2	21.1	20.2	23.7	...	...	...

¹LIMITED 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: 1978

WEST REGION	TOTAL	LESS	\$10,000	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000	MEDIAN
		THAN	TO	TO	TO	TO	TO	TO	TO	TO	OR	MORE
	\$10,999	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	\$199,999	\$199,999	DOL-
SPECIFIED OWNER OCCUPIED¹												
HOUSE HEATING FUEL												
UTILITY GAS	5 489	45	154	336	609	746	700	1 143	951	691	116	62000
BOTTLED, TANK, OR LP GAS.	120	6	11	18	11	17	17	15	6	14	4	47700
FUEL OIL	441	3	28	52	87	73	43	75	45	27	9	47000
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 098	8	33	83	189	194	163	180	142	91	16	52600
COAL OR COKE	5	-	2	-	-	2	-	1	-	1	-	-
WOOD	100	10	13	19	19	21	5	6	5	3	-	34600
SOLAR HEAT	2	-	-	-	-	-	2	-	-	-	-	-
OTHER FUEL	2	-	1	-	-	2	-	-	-	-	-	-
NONE	114	3	8	6	3	2	7	17	30	36	2	83700
WATER HEATING FUEL												
NO HOT PIPED WATER	13	5	4	2	2	-	-	-	-	-	-	-
WITH HOT PIPED WATER	7 358	69	247	510	916	1 056	934	1 438	1 178	863	146	59400
FUEL USED:												
UTILITY GAS	5 263	39	142	307	576	697	680	1 111	933	664	113	62600
BOTTLED, TANK, OR LP GAS.	106	5	15	12	15	12	13	10	7	13	3	44300
FUEL OIL	16	-	-	1	2	1	-	5	5	2	-	-
KEROSENE, ETC.	1	-	-	-	-	-	-	1	-	-	-	-
ELECTRICITY	1 961	25	90	186	318	345	242	313	231	183	29	50700
COAL OR COKE	-	-	-	-	-	-	-	-	-	-	-	-
WOOD	9	-	-	4	4	-	-	-	-	-	-	-
SOLAR HEAT	2	-	-	-	-	-	-	-	-	1	1	-
OTHER FUEL	1	-	-	-	1	-	-	-	-	-	-	-
NONE	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	2 812	33	130	229	368	371	370	586	424	253	50	57500
BOTTLED, TANK, OR LP GAS.	106	9	20	22	9	15	9	13	3	5	2	32300
FUEL OIL	3	-	-	1	-	-	-	-	1	1	-	-
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	4 428	26	95	257	539	670	554	840	749	605	94	61300
COAL OR COKE	2	-	-	-	-	-	-	-	2	-	-	-
WOOD	20	6	5	4	3	-	-	-	-	-	-	-
OTHER FUEL	-	-	-	-	-	-	-	-	-	-	-	-
NONE	2	-	1	-	-	-	-	-	1	-	-	-
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN \$10	323	5	29	51	64	53	36	46	26	12	-	42200
\$10 TO \$19	2 099	41	96	200	278	342	268	420	258	183	12	53400
\$20 TO \$29	2 075	19	67	122	275	297	270	443	355	206	21	59500
\$30 TO \$39	1 298	5	36	71	136	186	152	245	270	168	28	63800
\$40 TO \$49	577	4	18	33	61	71	63	106	87	93	24	63200
\$50 TO \$59	415	1	2	14	51	57	55	83	77	65	10	65000
\$60 TO \$79	344	-	3	11	30	32	47	61	65	77	18	72000
\$80 TO \$99	107	-	-	5	12	10	11	15	13	37	5	77500
\$100 TO \$149	93	-	-	2	11	4	7	16	20	17	15	82200
\$150 OR MORE	35	-	2	3	-	3	4	1	6	6	10	-
NO ELECTRICITY USED OR NOT REPORTED	6	-	1	1	-	-	-	2	-	2	-	-
MEDIAN	25	17	19	20	24	24	25	25	28	32	44	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN \$10	959	14	42	82	112	124	155	202	140	74	13	56700
\$10 TO \$14	1 382	12	35	76	178	179	156	296	244	180	26	62800
\$15 TO \$19	1 118	6	38	69	100	152	130	254	209	149	12	63800
\$20 TO \$24	843	5	23	46	112	143	108	162	129	96	17	58500
\$25 TO \$29	568	8	28	39	55	87	73	106	90	71	12	59200
\$30 TO \$39	627	8	12	38	62	93	90	113	113	70	26	61100
\$40 TO \$49	256	2	5	24	22	29	29	43	46	51	6	65900
\$50 TO \$59	152	1	4	7	27	9	10	34	24	27	10	68000
\$70 TO \$99	31	-	-	2	3	3	4	3	2	12	3	-
\$100 OR MORE	18	-	2	-	2	-	1	1	2	9	2	-
NO GAS USED OR NOT REPORTED	1 417	17	61	128	245	236	178	225	181	125	20	51100
MEDIAN	17	17	17	17	17	18	17	17	17	18	23	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN \$100	306	2	5	23	22	39	54	61	46	50	5	62100
\$100 TO \$199	159	-	8	15	24	22	11	33	32	15	-	59800
\$200 TO \$299	115	1	8	17	24	22	11	19	8	5	-	43300
\$300 TO \$399	107	1	9	12	13	22	13	22	6	7	2	48500
\$400 TO \$499	108	2	7	14	22	18	8	8	20	7	2	44700
\$500 TO \$599	54	1	3	4	10	7	6	11	7	3	2	53200
\$600 TO \$699	35	-	1	-	5	5	10	7	2	4	2	-
\$700 TO \$799	9	-	-	1	1	2	-	3	-	2	-	-
\$800 OR MORE	14	-	-	-	-	-	-	9	1	2	2	-
FUELS NOT USED, FREE, OR NOT REPORTED	6 465	68	209	427	800	919	821	1 264	1 058	768	131	59900
MEDIAN	192	...	288	231	258	233	119	179	146	100-	...	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	4 700	9	64	214	485	649	604	1 021	879	645	130	64800
HEAT PUMP	109	-	-	4	8	15	18	25	19	1	1	67300
STEAM OR HOT WATER	157	-	5	5	8	13	13	35	36	41	2	75200
BUILT-IN ELECTRIC UNITS	531	4	23	64	109	103	78	61	46	38	6	46300
FLOOR, WALL, OR PIPELESS FURNACE	1 330	10	69	138	254	211	194	238	144	68	4	49200
ROOM HEATERS WITH FLUE	216	23	42	44	24	29	11	23	10	7	2	29600
ROOM HEATERS WITHOUT FLUE	41	6	10	7	2	6	-	8	2	2	-	26500
FIREPLACES, STOVES, OR PORTABLE HEATERS	174	19	28	31	25	29	10	18	7	7	-	33600
NONE	114	3	6	6	3	2	7	17	30	36	2	83700

¹LIMITED 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: 1978--CONTINUED

WEST REGION	TOTAL	LESS THAN	\$10,000	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000	MEDIAN (DOL- LARS)	
		\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	\$199,999	OR MORE	
SPECIFIED OWNER OCCUPIED¹--CONTINUED													
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT.	114	3	8	6	3	2	7	17	30	36	2	83700	
WITH HEATING EQUIPMENT.	7 257	72	242	507	915	1 054	927	1 421	1 149	827	144	59100	
NO THERMOSTAT CONTROL.	741	42	74	93	143	109	88	102	49	37	5	41700	
WITH THERMOSTAT CONTROL.	6 502	28	168	411	771	941	837	1 319	1 097	790	139	61100	
NOT CLOCK OPERATED.	5 559	20	188	343	667	810	747	1 142	927	649	104	60600	
CONSTANT TEMPERATURE SETTING MAINTAINED.	1 397	5	39	84	198	220	232	266	203	127	20	56500	
TEMPERATURE SETTING IS CHANGED.	4 142	15	109	256	467	586	514	871	721	518	84	62100	
OCCASIONALLY.	3 319	12	85	213	371	463	425	693	566	428	62	62000	
REGULARLY.	29	1	2	2	1	3	7	3	3	8	2	...	
DON'T KNOW.	2	-	-	-	1	2	-	-	2	-	-	...	
NOT REPORTED.	20	-	-	3	2	4	-	3	3	5	-	...	
NOT REPORTED.	908	8	16	64	102	125	89	164	165	139	35	64500	
CLOCK OPERATED.	35	-	4	3	2	6	1	12	5	2	-	61800	
NOT REPORTED.	14	1	-	3	1	4	2	-	3	-	-	...	
SPECIFIED OWNER OCCUPIED¹													
UNITS OCCUPIED LAST WINTER.													
INSUFFICIENT HEAT													
CLOSURE OF ROOMS:													
WITH HEATING EQUIPMENT.	6 469	66	225	482	869	923	790	1 248	1 026	716	124	58500	
NO ROOMS CLOSED.	6 257	50	204	456	840	889	767	1 223	1 010	700	118	59000	
CLOSED CERTAIN ROOMS.	185	16	20	20	24	22	18	21	12	8	5	41600	
LIVING ROOM ONLY.	3	1	-	-	-	-	1	1	-	-	-	...	
DINING ROOM ONLY.	6	-	1	-	2	3	-	-	-	-	-	...	
1 OR MORE BEDROOMS ONLY.	118	11	17	16	15	13	13	14	9	7	3	40100	
OTHER ROOMS OR COMBINATION OF ROOMS.	35	5	2	4	7	2	3	7	2	2	2	41900	
NOT REPORTED.	3	-	-	-	-	3	-	-	-	-	-	...	
NOT REPORTED.	47	-	2	6	5	12	6	3	4	8	1	48500	
NO HEATING EQUIPMENT.	112	1	8	6	3	2	7	17	30	36	2	84700	
ADDITIONAL HEAT SOURCE:													
WITH SPECIFIED HEATING EQUIPMENT ² .	6 280	43	190	450	846	894	781	1 225	1 019	709	124	59200	
NO ADDITIONAL HEAT SOURCE USED.	5 901	39	168	415	790	841	731	1 161	970	664	120	59500	
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	345	4	20	28	53	44	48	62	46	36	3	54800	
NOT REPORTED.	34	-	2	6	3	8	2	2	2	8	1	...	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	301	24	44	37	26	31	16	40	37	44	2	46300	
ROOMS LACKING SPECIFIED HEAT SOURCE:													
WITH SPECIFIED HEATING EQUIPMENT ² .	6 280	43	190	450	846	894	781	1 225	1 019	709	124	59200	
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	4 319	17	74	224	473	606	525	891	804	599	106	64000	
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 912	26	114	221	366	278	249	330	211	99	17	48200	
1 ROOM.	460	6	24	41	86	67	60	89	55	24	7	51000	
2 ROOMS.	535	9	55	77	113	80	69	58	41	27	7	41700	
3 ROOMS OR MORE.	916	11	35	103	167	132	120	183	115	88	3	50900	
NOT REPORTED.	49	-	2	5	8	10	6	3	4	11	1	51000	
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	301	24	44	37	26	31	16	40	37	44	2	46300	
SPECIFIED OWNER OCCUPIED¹													
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	288	22	37	36	28	30	17	35	37	44	2	46800	
WITH SELECTED HEATING EQUIPMENT ³ .	7 083	53	214	476	890	1 025	917	1 403	1 141	820	144	59600	
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	6 781	51	199	448	842	981	887	1 336	1 109	794	133	59800	
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	264	2	12	20	42	39	28	61	28	22	11	56200	
SOLAR HEATING EQUIPMENT.	3	-	-	-	-	1	-	-	-	1	2	...	
STOVE, BURNING WOOD OR COAL.	63	-	1	6	12	7	5	18	7	5	2	59500	
FIREPLACE, BURNING WOOD OR COAL.	35	-	3	1	3	6	7	8	6	1	1	56100	
PORTABLE ELECTRIC HEATER.	79	1	5	9	15	11	7	15	2	10	4	48600	
ROOM HEATER WITHOUT FLUE OR VENT.	7	-	-	2	2	-	-	-	2	-	2	...	
BURNING GAS, OIL, OR KEROSENE.	75	1	3	4	9	13	7	19	12	6	2	60300	
OTHER.	4	-	-	-	2	-	-	1	-	-	1	...	
NOT REPORTED.	38	-	3	8	5	5	2	6	4	3	-	44800	
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	545	52	89	87	54	65	28	66	49	53	3	38300	
WITH SELECTED HEATING EQUIPMENT ⁴ .	6 626	23	162	425	864	991	906	1 373	1 130	810	142	60500	
LESS THAN 5 YEARS.	1 244	4	21	45	111	117	166	275	245	213	47	68600	
5 TO 9 YEARS.	1 574	2	27	106	186	251	221	306	287	172	17	59800	
10 TO 19 YEARS.	1 928	11	52	131	241	294	237	343	320	257	43	59900	
20 TO 39 YEARS.	1 578	6	42	108	239	248	218	360	221	114	22	56100	
40 YEARS OR MORE.	156	-	6	12	28	22	21	23	15	19	11	55300	
DON'T KNOW.	295	1	12	21	51	49	37	60	30	30	3	53400	
NOT REPORTED.	51	-	2	2	9	10	6	7	11	5	-	58800	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	545	52	89	87	54	65	28	66	49	53	3	38300	
WITH SELECTED HEATING EQUIPMENT ⁵ .	6 826	23	162	425	864	991	906	1 373	1 130	810	142	60500	
NO MAINTENANCE OR MODIFICATION.	5 635	15	140	359	719	813	757	1 134	947	644	108	60200	
WITH MAINTENANCE OR MODIFICATION.	1 142	8	20	65	140	168	145	234	168	160	34	61700	
NOT REPORTED.	49	-	2	2	5	11	4	5	14	6	-	62700	

¹LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.²EXCLUDES ROOM HEATERS WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.³EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.⁴EXCLUDES 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: 1978--CONTINUED
(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)	
		\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	\$100,000	\$200,000	
SPECIFIED OWNER OCCUPIED¹--CONTINUED													
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	545	52	89	87	54	65	28	66	49	53	3	38300	
WITH SELECTED HEATING EQUIPMENT ²	6 826	23	162	425	864	991	906	1 373	1 130	810	142	60500	
NO MAINTENANCE CONTRACT	6 342	23	154	404	790	937	844	1 277	1 053	734	127	60200	
WITH MAINTENANCE CONTRACT	397	-	4	18	59	42	54	80	61	64	16	64100	
NOT REPORTED	87	-	3	4	16	12	8	17	16	13	-	61200	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
NO HOT PIPED WATER	13	5	4	2	2	-	-	-	-	-	-	-	
WITH HOT PIPED WATER	7 358	69	247	510	916	1 056	934	1 438	1 178	863	146	59400	
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 191	68	242	508	898	1 034	902	1 411	1 146	844	139	59400	
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ³	65	1	-	1	5	9	4	11	18	9	7	76500	
NOT REPORTED	100	1	5	1	13	12	28	16	14	10	-	56100	
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	
AIR CONDITIONING													
WITH AIR CONDITIONING	2 459	14	69	151	293	381	320	493	399	275	65	60100	
ROOM UNITS	925	10	64	98	128	160	100	182	112	65	6	50200	
1	714	9	53	75	109	130	78	130	82	44	4	48500	
2	125	2	10	19	17	23	22	45	30	16	2	60000	
3	19	-	1	2	1	7	-	5	-	3	-	***	
4	3	-	-	2	-	-	-	2	-	-	-	***	
5 OR MORE	3	-	-	-	2	-	-	-	-	2	-	-	
CENTRAL SYSTEM	1 535	3	5	53	165	221	221	311	287	209	59	64800	
WITH NO AIR CONDITIONING	4 912	61	181	362	625	675	614	946	780	589	80	59000	
SPECIFIED OWNER OCCUPIED ¹	7 371	75	251	512	918	1 056	934	1 438	1 178	863	146	59400	
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 371	75	251	512	918	1 056	934	1 438	1 178	863	146	59400	
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING													
ALL WINDOWS COVERED	1 116	7	49	113	181	184	161	180	185	83	13	51500	
SOME WINDOWS COVERED	679	8	52	76	100	144	89	94	62	45	9	47200	
NO WINDOWS COVERED	5 546	60	148	321	632	722	680	1 160	967	733	123	62700	
NOT REPORTED	29	-	1	3	0	5	4	5	5	2	-	***	
STORM DOORS													
ALL DOORS COVERED	894	10	45	108	181	196	117	119	80	39	-	45300	
SOME DOORS COVERED	703	10	34	52	122	139	119	132	62	29	3	49500	
NO DOORS COVERED	5 720	55	167	344	611	708	689	1 180	1 031	792	142	63600	
NOT REPORTED	55	-	4	8	4	13	9	8	6	3	-	48900	
ATTIC OR ROOF INSULATION													
YES	5 636	41	158	364	693	825	736	1 128	915	659	116	60000	
NO	1 352	28	76	117	171	161	145	256	206	171	22	58500	
DON'T KNOW	353	5	16	29	50	61	49	49	54	32	8	53000	
NOT REPORTED	30	-	1	2	4	7	5	6	4	2	-	***	
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS													
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:													
NO WINDOWS COVERED	5 546	60	148	321	632	722	680	1 160	967	733	123	62700	
SOME OR ALL WINDOWS COVERED	1 796	15	101	189	281	328	250	274	206	128	23	49500	
NONE ADDED OR INSTALLED	1 381	11	74	136	211	257	194	225	162	93	17	50000	
SOME OR ALL ADDED OR INSTALLED	369	3	27	45	61	60	53	45	39	31	4	48100	
NOT REPORTED	46	1	-	7	9	11	2	5	5	4	1	45400	
NOT REPORTED	29	-	1	3	6	5	4	4	5	2	-	***	
STORM DOORS:													
NO DOORS COVERED	5 720	55	167	344	611	708	689	1 180	1 031	792	142	63600	
SOME OR ALL DOORS COVERED	1 597	20	79	160	303	335	236	250	142	68	3	47000	
NONE ADDED OR INSTALLED	1 300	13	62	139	241	276	189	205	114	58	3	47100	
SOME OR ALL ADDED OR INSTALLED	213	5	12	13	42	41	33	37	25	6	-	48400	
NOT REPORTED	84	2	5	8	20	18	15	8	3	4	-	43400	
NOT REPORTED	55	-	4	8	4	13	9	8	6	3	-	48900	
ATTIC OR ROOF INSULATION:													
NO ATTIC OR ROOF INSULATION	1 352	28	76	117	171	161	145	256	206	171	22	58500	
WITH ATTIC OR ROOF INSULATION	5 636	41	158	364	693	825	736	1 128	915	659	116	60000	
NONE ADDED OR INSTALLED	4 947	33	139	310	608	731	626	996	827	585	95	60400	
SOME OR ALL ADDED OR INSTALLED	519	7	12	35	73	72	90	100	65	48	16	56600	
LESS THAN 3 INCHES ADDED	24	-	1	2	6	3	6	3	-	2	-	***	
3 TO 6 INCHES ADDED	243	5	7	20	26	40	41	51	31	18	5	55000	
6 INCHES OR MORE ADDED	204	2	5	13	34	21	36	35	27	22	9	57800	
DON'T KNOW	35	1	-	-	4	7	7	5	4	2	2	59100	
NOT REPORTED	13	-	1	1	2	2	1	4	2	2	-	***	
NOT REPORTED	170	2	7	19	12	23	20	32	25	27	5	61100	
DON'T KNOW	353	5	16	29	50	61	49	49	54	32	8	53000	
NOT REPORTED	30	-	1	2	4	7	5	6	4	2	-	***	
WALL INSULATION:													
NONE ADDED OR INSTALLED	6 989	71	237	487	888	997	882	1 347	1 123	821	136	59200	
SOME OR ALL ADDED OR INSTALLED	350	4	13	24	28	50	47	83	51	41	10	61800	
NOT REPORTED	33	-	1	2	2	8	6	8	4	2	-	***	
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:													
NONE ADDED OR INSTALLED	6 215	61	204	431	766	850	789	1 239	991	761	122	60100	
SOME OR ALL ADDED OR INSTALLED	1 066	13	43	76	143	188	137	180	173	92	22	55100	
DON'T KNOW	69	-	3	3	7	12	4	15	13	9	2	63900	
NOT REPORTED	22	-	1	2	2	5	4	4	2	2	-	***	
OTHER INSULATIONS:													
NONE ADDED OR INSTALLED	7 068	73	239	499	880	1 000	894	1 375	1 134	839	135	59400	
SOME OR ALL ADDED OR INSTALLED	269	2	11	12	35	46	36	59	38	21	11	58300	
NOT REPORTED	35	-	1	2	3	9	4	5	7	3	-	***	

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

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

³LIMITED 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: 1978--CONTINUED
(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	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$75,000	\$100,000	\$200,000	MEDIAN	
		\$10,000	\$19,999	\$29,999	\$39,999	\$49,999	\$59,999	\$74,999	\$99,999	\$199,999	\$399,999	(DOL- LARS)	
SPECIFIED OWNER OCCUPIED¹--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.	5 350	48	163	346	649	711	650	1 099	904	674	106	61500	
WITH INSULATION ADDED OR INSTALLED.	1 740	23	76	139	235	295	250	293	242	155	33	54100	
LESS THAN \$50	735	9	40	78	96	126	117	103	93	65	10	51700	
\$50 TO \$99.	182	6	9	11	39	31	14	35	15	19	2	48200	
\$100 TO \$199.	142	2	4	10	12	33	22	28	21	7	2	54600	
\$200 TO \$399.	180	-	5	10	26	34	29	27	34	11	3	55000	
\$400 OR MORE.	219	3	9	14	32	28	30	55	28	12	8	57800	
DON'T KNOW.	116	2	4	7	9	20	16	15	21	16	4	59500	
NOT REPORTED.	165	1	4	10	20	23	22	30	30	22	5	62000	
MEDIAN.	50-	..	50-	50-	59	50	50-	80	58	50-	..	..
NOT REPORTED OR DON'T KNOW.	282	4	12	28	34	50	35	47	32	34	7	53800	
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	137	1	13	19	21	25	16	14	14	14	-	45900	
LESS THAN \$50	60	1	11	12	9	9	10	6	2	1	-	37300	
\$50 TO \$99.	16	-	-	2	2	3	1	2	-	7	-	..	
\$100 TO \$199.	14	-	-	2	1	5	2	-	4	-	-	..	
\$200 TO \$399.	10	-	-	2	2	2	2	2	2	2	-	..	
\$400 OR MORE.	16	-	-	1	5	3	-	2	4	1	-	..	
DON'T KNOW.	7	-	1	-	-	1	2	2	1	2	-	..	
NOT REPORTED.	13	-	2	2	2	4	1	-	1	2	-	..	
MEDIAN.	50-	..	..	..	..	..	..	..	..	..	-	..
ONLY ADDED OR INSTALLED STORM DOORS	81	2	4	6	8	19	15	17	6	4	-	50800	
LESS THAN \$50	17	-	-	6	2	6	2	-	2	-	-	..	
\$50 TO \$99.	34	1	2	-	4	9	6	5	4	2	-	..	
\$100 TO \$199.	17	2	1	-	-	2	2	8	-	1	-	..	
\$200 TO \$399.	1	-	-	-	-	-	-	-	-	-	-	..	
\$400 OR MORE.	1	-	-	-	-	-	-	-	-	-	-	..	
DON'T KNOW.	1	-	-	-	-	-	-	-	-	-	-	..	
NOT REPORTED.	11	-	-	1	1	2	4	4	-	-	-	..	
MEDIAN.	76	..	..	..	..	..	..	..	..	..	..	..
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	359	5	11	30	46	48	59	69	47	35	7	56400	
LESS THAN \$50	42	1	2	4	7	2	7	7	5	2	2	56200	
\$50 TO \$99.	45	2	3	4	10	4	3	11	1	7	-	48600	
\$100 TO \$199.	40	-	1	1	4	14	8	6	6	1	-	50900	
\$200 TO \$399.	85	-	-	8	11	15	17	12	14	8	-	54900	
\$400 OR MORE.	76	2	5	6	9	7	7	22	11	5	2	61300	
DON'T KNOW.	39	-	-	4	4	4	5	6	7	5	4	64400	
NOT REPORTED.	32	-	1	3	2	3	10	5	4	6	-	..	
MEDIAN.	240	..	..	..	194	213	232	281	302	..	..	..

¹LIMITED 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: 1978

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 \$449	\$500 OR MORE	NO CASH RENT	MEDIAN (DOL- LARS)
SPECIFIED RENTER OCCUPIED ¹	5 785	431	709	1 226	1 201	880	492	282	253	109	202	217
HOUSE HEATING FUEL												
UTILITY GAS	3 703	224	492	624	782	503	328	177	175	88	110	216
BOTTLED, TANK, OR LP GAS	94	9	14	25	14	8	1	-	-	1	21	176
FUEL OIL	205	18	30	62	35	11	22	6	4	2	14	187
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 454	148	118	211	334	329	120	83	57	14	40	234
COAL OR COKE	9	2	4	-	2	3	2	-	-	1	2	1
WOOD	44	6	5	17	5	3	2	-	-	6	171	-
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER FUEL	56	6	3	33	6	2	-	5	-	1	177	-
NONE	219	19	42	54	23	24	19	11	15	4	9	191
WATER HEATING FUEL												
NO HOT PIPED WATER	17	10	1	1	3	-	-	-	-	2	200	218
WITH HOT PIPED WATER	5 768	421	708	1 225	1 198	880	492	282	253	109	200	218
FUEL USED ²												
UTILITY GAS	3 852	231	510	844	802	548	337	193	182	96	110	217
BOTTLED, TANK, OR LP GAS	79	4	16	18	13	6	2	-	-	1	18	179
FUEL OIL	23	3	9	6	2	-	-	2	-	-	-	-
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	1 729	180	158	317	372	320	153	85	62	11	73	223
COAL OR COKE	5	2	2	-	2	-	-	-	-	-	-	-
WOOD	1	-	-	-	1	-	-	-	-	-	-	-
SOLAR HEAT	2	-	-	-	-	-	-	-	-	2	-	-
OTHER FUEL	74	2	10	39	6	6	-	3	8	-	-	182
NONE	3	-	3	-	-	-	-	-	-	-	-	-
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL												
UTILITY GAS	2 803	179	434	716	558	364	217	110	96	43	87	203
BOTTLED, TANK, OR LP GAS	103	13	18	27	11	6	2	-	-	1	24	165
FUEL OIL	3	-	2	-	-	-	-	-	-	-	-	-
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-
ELECTRICITY	2 817	217	231	478	628	508	271	172	155	65	90	234
COAL OR COKE	1	-	-	-	-	-	-	-	-	-	-	-
WOOD	2	1	-	-	1	-	-	-	-	-	-	-
OTHER FUEL	3	-	3	-	-	-	-	-	-	-	-	-
NONE	52	21	21	5	3	2	-	-	-	1	-	112
MONTHLY COST PAID FOR ELECTRICITY												
LESS THAN \$10	1 108	77	166	313	261	148	76	40	11	2	15	197
\$10 TO \$19	1 792	58	191	381	446	325	161	89	71	29	40	227
\$20 TO \$29	927	25	82	152	213	180	117	55	54	29	20	245
\$30 TO \$39	423	5	27	45	99	86	62	26	45	13	17	266
\$40 TO \$49	157	2	7	23	17	44	24	17	16	2	5	280
\$50 TO \$59	74	4	1	3	12	9	11	10	10	8	5	321
\$60 TO \$69	73	-	4	3	13	5	12	12	12	7	6	338
\$80 TO \$89	15	-	-	3	3	-	1	2	1	5	2	...
\$100 TO \$149	11	-	-	1	2	-	2	2	2	3	3	...
\$150 OR MORE	10	-	-	-	-	-	-	-	-	9	8	160
INCLUDED IN RENT	1 179	254	229	298	136	80	26	30	28	-	88	-
NO ELECTRICITY USED OR NOT REPORTED	15	7	2	3	2	2	-	-	-	-	-	-
MEDIAN	16	11	13	14	15	17	19	19	25	26	21	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS												
LESS THAN \$10	1 507	67	174	372	383	230	123	73	47	21	18	217
\$10 TO \$14	733	24	86	144	149	112	84	37	48	22	27	233
\$15 TO \$19	391	17	38	91	78	61	37	15	29	7	17	225
\$20 TO \$24	193	4	22	37	35	27	18	18	16	10	7	242
\$25 TO \$29	114	2	11	21	17	18	10	6	14	6	9	255
\$30 TO \$39	106	3	9	7	29	12	15	8	6	15	2	270
\$40 TO \$49	37	-	2	5	10	7	8	3	3	1	1	262
\$50 TO \$59	36	-	4	2	4	9	2	3	3	6	5	...
\$70 TO \$99	9	-	-	1	2	-	-	-	-	3	-	...
\$100 OR MORE	3	-	-	-	-	1	2	-	-	1	-	-
INCLUDED IN RENT	1 250	159	245	286	203	123	63	46	38	8	78	161
NO GAS USED OR NOT REPORTED	1 405	155	119	261	291	277	130	76	48	9	38	225
MEDIAN	10	10-	10-	10-	10-	10	11	11	13	17	14	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.												
LESS THAN \$100	80	3	9	7	13	15	8	10	10	2	2	268
\$100 TO \$199	28	2	5	2	7	3	2	-	-	4	3	...
\$200 TO \$299	35	1	5	6	6	4	5	2	3	6	2	260
\$300 TO \$399	37	-	6	3	7	4	6	2	-	-	1	...
\$400 TO \$499	4	-	1	1	1	-	1	-	-	-	-	...
\$500 TO \$599	2	-	-	-	-	-	-	-	-	-	-	...
\$600 TO \$699	7	-	-	2	1	-	2	-	-	1	-	...
\$700 TO \$799	3	-	-	-	-	-	-	2	-	2	2	...
\$800 OR MORE	6	-	-	-	-	1	1	2	-	2	1	175
INCLUDED IN RENT	272	32	65	67	40	26	10	10	8	3	10	218
FUELS NOT USED, FREE, OR NOT REPORTED	5 310	393	618	1 138	1 123	827	453	258	228	96	176	218
MEDIAN	175	---	---	---	172	---	---	---	---	---	---	...
HEATING EQUIPMENT												
WARM-AIR FURNACE	1 626	65	95	227	309	287	217	130	143	85	69	264
HEAT PUMP	30	3	-	3	5	11	-	2	6	-	1	...
STEAM OR HOT WATER	390	43	68	126	73	23	16	18	15	2	7	181
BUILT-IN ELECTRIC UNITS	1 075	130	101	153	256	243	72	54	33	5	27	227
FLOOR, WALL, OR PIPELESS FURNACE	1 795	87	249	486	436	245	137	62	35	14	44	206
ROOM HEATERS WITH FLUE	447	60	104	114	84	33	22	3	5	2	23	171
ROOM HEATERS WITHOUT FLUE	97	14	24	29	8	9	5	2	-	7	162	...
FIREPLACES, STOVES, OR PORTABLE HEATERS	106	12	26	34	7	5	4	-	1	4	16	159
NONE	219	19	42	54	23	24	19	11	15	9	15	191

¹EXCLUDES 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: 1978--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	\$100 TO \$149	\$150 TO \$199	\$200 TO \$249	\$250 TO \$299	\$300 TO \$349	\$350 TO \$399	\$400 TO \$449	\$500 OR MORE \$499	NO CASH RENT	MEDIAN (DOL- LARS)
SPECIFIED RENTER OCCUPIED¹--CONTINUED												
THERMOSTAT CONTROLLED HEATING EQUIPMENT												
NO HEATING EQUIPMENT.	219	19	42	54	23	24	19	11	15	4	9	191
WITH HEATING EQUIPMENT.	5 565	413	667	1 172	857	473	271	238	105	193	218	191
NO THERMOSTAT CONTROL.	1 706	156	368	515	298	170	85	40	15	7	55	179
WITH THERMOSTAT CONTROL.	3 851	257	298	655	882	686	387	231	223	98	136	236
NOT CLOCK OPERATED.	3 418	233	267	600	786	595	347	205	190	82	114	234
CONSTANT TEMPERATURE SETTING MAINTAINED.	1 047	87	83	196	226	178	104	60	53	25	35	230
TEMPERATURE SETTING IS CHANGED.	2 341	146	182	399	551	408	239	144	137	56	79	236
OCCASIONALLY.	592	20	52	111	151	107	65	30	28	11	15	234
REGULARLY.	1 716	119	129	279	394	299	172	112	108	43	62	237
DON'T KNOW.	32	6	2	8	5	2	3	2	2	2	2	***
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-
NOT REPORTED.	31	-	1	5	9	10	3	2	-	2	-	***
CLOCK OPERATED.	419	21	31	52	91	91	40	26	33	15	19	253
NOT REPORTED.	14	3	-	2	5	-	-	-	-	1	3	***
NOT REPORTED.	8	-	1	2	2	-	1	-	-	-	2	***
SPECIFIED RENTER OCCUPIED¹	5 785	431	709	1 226	1 201	880	492	282	253	109	202	217
UNITS OCCUPIED LAST WINTER.	3 360	328	483	718	694	457	247	121	130	41	142	206
INSUFFICIENT HEAT												
CLOSURE OF ROOMS:												
WITH HEATING EQUIPMENT.	3 220	311	456	682	677	443	238	115	121	39	138	207
NO ROOMS CLOSED.	3 051	307	432	643	636	415	227	105	116	37	133	206
CLOSED CERTAIN ROOMS.	119	2	24	24	25	19	9	0	3	-	2	214
LIVING ROOM ONLY.	3	-	-	2	-	-	-	2	-	-	-	***
DINING ROOM ONLY.	2	-	-	-	-	-	-	-	-	-	-	***
1 OR MORE BEDROOMS ONLY.	93	2	21	21	20	15	9	3	-	-	2	206
OTHER ROOMS OR COMBINATION OF ROOMS.	20	1	4	2	5	3	-	3	2	-	-	***
NOT REPORTED.	1	-	-	-	-	-	-	1	-	-	-	***
NOT REPORTED.	50	2	-	14	16	9	2	-	2	2	3	224
NO HEATING EQUIPMENT.	140	17	26	36	17	14	10	6	8	1	4	183
ADDITIONAL HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ² .	3 093	292	422	645	672	434	234	115	120	39	120	209
NO ADDITIONAL HEAT SOURCE USED.	2 778	279	366	559	604	391	218	101	118	34	109	211
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.	268	13	55	73	53	35	14	14	-	2	9	192
NOT REPORTED.	47	1	2	13	16	8	2	-	2	2	2	222
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	267	36	60	73	22	23	14	6	9	1	1	168
ROOMS LACKING SPECIFIED HEAT SOURCE:												
WITH SPECIFIED HEATING EQUIPMENT ² .	3 093	292	422	645	672	434	234	115	120	39	120	209
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 694	207	189	297	338	255	144	77	91	28	59	217
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 337	83	234	332	310	170	88	37	28	9	48	198
1 ROOM.	476	45	106	138	101	35	24	5	6	2	14	178
2 ROOMS.	530	27	80	120	145	83	30	11	10	5	19	210
3 ROOMS OR MORE.	330	12	47	73	64	51	34	21	11	2	14	220
NOT REPORTED.	63	2	-	17	24	9	2	2	2	2	3	223
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.	267	36	60	73	22	23	14	6	9	1	.22	168
SPECIFIED RENTER OCCUPIED¹	5 785	431	709	1 226	1 201	880	492	282	253	109	202	217
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS												
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	325	30	68	88	30	28	23	11	15	4	25	178
WITH SELECTED HEATING EQUIPMENT ³ .	5 460	401	640	1 138	1 170	852	469	271	237	105	177	219
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 301	389	611	1 100	1 137	832	456	265	236	103	172	220
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	128	11	25	32	23	15	10	6	2	-	4	189
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	5	-	3	-	-	2	-	-	-	-	-	***
FIREPLACE, BURNING WOOD OR COAL.	7	-	1	2	4	-	-	-	-	-	-	***
PORTABLE ELECTRIC HEATER.	96	11	17	23	16	10	8	6	2	-	-	***
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	4	-	2	2	-	2	2	-	-	-	-	***
OTHER.	15	-	3	4	2	3	2	-	-	-	-	***
NOT REPORTED.	3	-	2	5	5	10	5	3	-	-	-	***
NOT REPORTED.	30	-	5	5	5	10	5	3	-	2	1	***
AIR CONDITIONING												
WITH AIR CONDITIONING.	1 607	75	123	215	380	339	191	101	80	37	65	246
ROOM UNITS.	922	40	103	142	239	194	105	43	14	6	37	232
1.	831	36	99	133	218	174	92	35	10	5	31	230
2.	73	2	2	6	20	17	11	6	5	2	2	264
3.	14	-	3	-	-	1	2	-	-	-	5	***
4.	3	-	2	-	-	2	-	-	-	-	-	***
5 OR MORE.	-	-	-	-	-	-	-	-	-	-	-	***
CENTRAL SYSTEM.	685	36	20	73	141	146	87	58	66	30	28	269
WITH NO AIR CONDITIONING.	4 178	356	586	1 011	821	541	301	181	173	72	137	204

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

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

³EXCLUDES 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: 1978--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 (DOL- LARS)
SPECIFIED RENTER OCCUPIED ¹	5 785	431	709	1 226	1 201	880	492	282	253	109	202	217
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 016	103	286	383	319	246	186	114	155	74	148	225
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING												
ALL WINDOWS COVERED	168	7	25	31	34	14	10	15	11	2	19	217
SOME WINDOWS COVERED	149	7	21	35	32	23	10	3	7	-	10	210
NO WINDOWS COVERED	1 575	78	221	280	242	189	154	89	136	70	114	230
NOT REPORTED	123	11	19	37	12	19	12	7	1	1	4	190
STORM DOORS												
ALL DOORS COVERED	124	7	14	30	34	14	7	4	2	1	11	208
SOME DOORS COVERED	100	3	9	16	28	14	7	3	2	3	14	227
NO DOORS COVERED	1 655	83	242	297	284	198	159	99	184	69	120	229
NOT REPORTED	137	11	21	40	13	20	12	8	6	1	4	193
ATTIC OR ROOF INSULATION												
YES	685	31	70	112	101	77	72	47	74	26	76	245
NO	631	44	111	138	108	68	44	28	38	14	38	201
DON'T KNOW	575	17	84	98	99	82	59	31	42	32	30	236
NOT REPORTED	125	11	21	36	12	19	11	9	1	1	4	189

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

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978

(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						MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE		
ALL OCCUPIED HOUSING UNITS.	14 950	9 780	1 644	804	614	1 117		990
HOUSE HEATING FUEL								
OWNER OCCUPIED.	9 091	7 813	251	70	24	65	868	
UTILITY GAS.	6 407	5 653	174	26	8	18	527	
BOTTLED, TANK, OR LP GAS.	297	164	2	-	1	-	131	
FUEL OIL.	522	497	9	-	-	-	16	
KEROSENE, ETC.	1	1	-	-	-	-	-	
ELECTRICITY.	1 547	1 234	57	40	15	24	176	
COAL OR COKE.	10	10	-	-	-	-	-	
WOOD.	145	132	3	2	-	-	8	
SOLAR HEAT.	2	2	-	-	-	-	-	
OTHER FUEL.	2	2	-	-	-	-	-	
NONE.	157	117	7	2	-	23	9	
RENTER OCCUPIED	5 859	1 968	1 393	734	590	1 052	122	
UTILITY GAS	3 718	1 372	996	460	373	468	50	
BOTTLED, TANK, OR LP GAS.	111	66	10	2	-	-	33	
FUEL OIL.	215	104	35	16	10	49	2	
KEROSENE, ETC.	1	-	-	-	-	-	-	
ELECTRICITY.	1 466	288	295	234	194	425	31	
COAL OR COKE.	11	4	3	-	-	4	-	
WOOD.	60	49	9	-	-	-	1	
SOLAR HEAT.	-	-	-	-	-	-	-	
OTHER FUEL.	56	1	-	3	-	52	-	
NONE.	222	84	45	19	13	55	6	
WATER HEATING FUEL								
OWNER OCCUPIED.	9 091	7 813	251	70	24	65	868	
NO HOT PIPED WATER.	23	17	-	-	-	-	6	
WITH HOT PIPED WATER.	9 068	7 796	251	70	24	65	862	
FUEL USED:								
UTILITY GAS	6 160	5 404	175	29	13	28	510	
BOTTLED, TANK, OR LP GAS.	253	137	2	-	1	-	113	
FUEL OIL.	19	19	-	-	-	-	1	
KEROSENE, ETC.	1	1	-	-	-	-	-	
ELECTRICITY.	2 619	2 222	73	40	10	37	237	
COAL OR COKE.	-	-	-	-	-	-	-	
WOOD.	9	9	-	-	-	-	-	
SOLAR HEAT.	2	2	-	-	-	-	-	
OTHER FUEL.	1	1	-	-	-	-	-	
NONE.	5	2	2	-	-	-	2	
NOT REPORTED.	-	-	-	-	-	-	-	
RENTER OCCUPIED	5 859	1 968	1 393	734	590	1 052	122	
NO HOT PIPED WATER.	20	10	2	2	2	2	4	
WITH HOT PIPED WATER.	5 839	1 957	1 391	733	589	1 050	119	
FUEL USED:								
UTILITY GAS	3 862	1 315	1 027	496	422	561	40	
BOTTLED, TANK, OR LP GAS.	93	57	9	1	2	2	25	
FUEL OIL.	23	1	2	3	9	8	-	
KEROSENE, ETC.	-	-	-	-	-	-	-	
ELECTRICITY.	1 776	579	348	224	149	422	54	
COAL OR COKE.	5	-	3	-	-	2	-	
WOOD.	1	1	-	-	-	-	-	
SOLAR HEAT.	2	-	-	-	-	2	-	
OTHER FUEL.	74	2	2	9	6	55	-	
NONE.	3	3	-	-	-	-	-	
NOT REPORTED.	-	-	-	-	-	-	-	
COOKING FUEL								
OWNER OCCUPIED.	9 091	7 813	251	70	24	65	868	
UTILITY GAS.	3 493	2 862	103	19	8	3	497	
BOTTLED, TANK, OR LP GAS.	298	137	2	-	1	-	154	
FUEL OIL.	4	4	-	-	-	-	-	
KEROSENE, ETC.	-	-	-	-	-	-	-	
ELECTRICITY.	5 270	4 784	146	51	15	60	215	
COAL OR COKE.	2	2	-	-	-	-	-	
WOOD.	21	21	-	-	-	-	-	
OTHER FUEL.	2	-	-	-	-	-	2	
NONE.	5	3	-	-	-	-	2	
RENTER OCCUPIED	5 859	1 968	1 393	734	590	1 052	122	
UTILITY GAS	2 809	1 021	774	377	302	295	41	
BOTTLED, TANK, OR LP GAS.	114	59	7	4	-	-	44	
FUEL OIL.	3	3	-	-	-	-	-	
KEROSENE, ETC.	-	-	-	-	-	-	-	
ELECTRICITY.	2 874	877	606	351	284	719	38	
COAL OR COKE.	1	1	-	-	-	-	-	
WOOD.	2	2	-	-	-	-	-	
OTHER FUEL.	3	2	-	-	-	2	-	
NONE.	52	2	6	3	3	37	-	

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
 (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	7 371	7 371	NA	NA	NA	NA	NA	
LESS THAN \$10	323	323	NA	NA	NA	NA	NA	
\$10 TO \$19.	2 099	2 099	NA	NA	NA	NA	NA	
\$20 TO \$29.	2 075	2 075	NA	NA	NA	NA	NA	
\$30 TO \$39.	1 298	1 298	NA	NA	NA	NA	NA	
\$40 TO \$49.	577	577	NA	NA	NA	NA	NA	
\$50 TO \$59.	415	415	NA	NA	NA	NA	NA	
\$60 TO \$79.	344	344	NA	NA	NA	NA	NA	
\$80 TO \$99.	107	107	NA	NA	NA	NA	NA	
\$100 TO \$149.	93	93	NA	NA	NA	NA	NA	
\$150 OR MORE.	35	35	NA	NA	NA	NA	NA	
NO ELECTRICITY USED OR NOT REPORTED	6	6	NA	NA	NA	NA	NA	
MEDIAN.	25	25	NA	NA	NA	NA	NA	
SPECIFIED RENTER OCCUPIED ²	5 785	1 893	1 393	734	590	1 052	122	
LESS THAN \$10	1 108	214	370	177	156	175	15	
\$10 TO \$19.	1 792	624	449	234	209	240	35	
\$20 TO \$29.	927	432	211	109	60	98	17	
\$30 TO \$39.	423	208	94	39	21	49	11	
\$40 TO \$49.	157	75	33	16	12	16	5	
\$50 TO \$59.	74	49	10	5	3	5	2	
\$60 TO \$79.	73	56	10	2	3	3	-	
\$80 TO \$99.	15	14	-	-	-	2	-	
\$100 TO \$149.	11	7	2	-	2	-	1	
\$150 OR MORE.	10	7	4	-	-	-	-	
INCLUDED IN RENT.	1 179	205	208	149	120	461	35	
NO ELECTRICITY USED OR NOT REPORTED	15	2	2	3	3	3	1	
MEDIAN.	16	20	14	14	13	14	17	
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS								
SPECIFIED OWNER OCCUPIED ¹	7 371	7 371	NA	NA	NA	NA	NA	
LESS THAN \$10	959	959	NA	NA	NA	NA	NA	
\$10 TO \$14.	1 382	1 382	NA	NA	NA	NA	NA	
\$15 TO \$19.	1 118	1 118	NA	NA	NA	NA	NA	
\$20 TO \$24.	843	843	NA	NA	NA	NA	NA	
\$25 TO \$29.	568	568	NA	NA	NA	NA	NA	
\$30 TO \$39.	627	627	NA	NA	NA	NA	NA	
\$40 TO \$49.	256	256	NA	NA	NA	NA	NA	
\$50 TO \$69.	152	152	NA	NA	NA	NA	NA	
\$70 TO \$99.	31	31	NA	NA	NA	NA	NA	
\$100 OR MORE.	18	18	NA	NA	NA	NA	NA	
NO GAS USED OR NOT REPORTED	1 417	1 417	NA	NA	NA	NA	NA	
MEDIAN.	17	17	NA	NA	NA	NA	NA	
SPECIFIED RENTER OCCUPIED ²	5 785	1 893	1 393	734	590	1 052	122	
LESS THAN \$10	1 507	403	464	249	200	176	16	
\$10 TO \$14.	733	370	230	60	39	28	7	
\$15 TO \$19.	391	226	105	23	10	14	13	
\$20 TO \$24.	193	123	42	10	3	5	10	
\$25 TO \$29.	114	93	16	2	2	1	-	
\$30 TO \$39.	106	77	17	2	2	2	7	
\$40 TO \$49.	37	21	7	6	-	-	2	
\$50 TO \$69.	36	26	3	-	-	2	5	
\$70 TO \$99.	9	7	-	2	-	-	1	
\$100 OR MORE.	3	1	2	-	-	-	1	
INCLUDED IN RENT.	1 250	213	236	197	182	387	36	
NO GAS USED OR NOT REPORTED	1 405	333	271	185	154	438	24	
MEDIAN.	10	13	10-	10-	10-	10-	16	
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.								
SPECIFIED OWNER OCCUPIED ¹	7 371	7 371	NA	NA	NA	NA	NA	
LESS THAN \$100.	306	306	NA	NA	NA	NA	NA	
\$100 TO \$199.	159	159	NA	NA	NA	NA	NA	
\$200 TO \$299.	115	115	NA	NA	NA	NA	NA	
\$300 TO \$399.	107	107	NA	NA	NA	NA	NA	
\$400 TO \$499.	108	108	NA	NA	NA	NA	NA	
\$500 TO \$599.	54	54	NA	NA	NA	NA	NA	
\$600 TO \$699.	35	35	NA	NA	NA	NA	NA	
\$700 TO \$799.	9	9	NA	NA	NA	NA	NA	
\$800 OR MORE.	14	14	NA	NA	NA	NA	NA	
FUELS NOT USED, FREE, OR NOT REPORTED	6 465	6 465	NA	NA	NA	NA	NA	
MEDIAN.	192	192	NA	NA	NA	NA	NA	

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

²EXCLUDES 1-UNIT STRUCTURES ON 10 ACRES OR MORE.

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
 (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								
LESS THAN \$100.	5 785	1 893	1 393	734	590	1 052	122	
\$100 TO \$199.	80	58	11	2	2	8	-	
\$200 TO \$299.	28	26	2	-	-	-	4	
\$300 TO \$399.	35	31	1	-	-	-	-	
\$400 TO \$499.	37	30	5	-	2	-	-	
\$500 TO \$599.	4	4	-	-	-	-	-	
\$600 TO \$699.	2	2	-	-	-	-	-	
\$700 TO \$799.	7	7	-	-	-	-	-	
\$800 OR MORE.	3	3	-	-	-	-	-	
INCLUDED IN RENT.	6	6	-	-	-	-	-	
FUELS NOT USED, FREE, OR NOT REPORTED	272	77	50	47	37	54	8	
MEDIAN.	5 310	1 651	1 323	686	551	990	110	
175	198	***	***	***	***	***	***	
ALL OCCUPIED HOUSING UNITS.								
HEATING EQUIPMENT								
OWNER OCCUPIED.	9 091	7 813	251	70	24	65	868	
WARM-AIR FURNACE.	5 832	4 929	126	28	3	18	726	
HEAT PUMP.	133	124	3	2	-	2	-	
STEAM OR HOT WATER.	190	169	12	5	-	3	-	
BUILT-IN ELECTRIC UNITS	717	598	35	26	13	16	29	
FLOOR, WALL, OR PIPELESS FURNACE.	1 465	1 360	40	5	7	3	49	
ROOM HEATERS WITH FLUE.	290	249	17	-	-	-	24	
ROOM HEATERS WITHOUT FLUE	59	46	6	-	-	-	6	
FIREPLACES, STOVES, OR PORTABLE HEATERS	248	221	3	2	-	-	22	
NONE.	157	117	7	2	-	23	9	
RENTER OCCUPIED	5 859	1 968	1 393	734	590	1 052	122	
WARM-AIR FURNACE.	1 651	634	402	178	124	237	77	
HEAT PUMP.	30	8	13	2	3	5	-	
STEAM OR HOT WATER.	392	14	32	41	68	237	-	
BUILT-IN ELECTRIC UNITS	1 083	188	227	172	157	328	12	
FLOOR, WALL, OR PIPELESS FURNACE.	1 803	708	501	238	195	156	6	
ROOM HEATERS WITH FLUE.	458	196	117	74	27	29	14	
ROOM HEATERS WITHOUT FLUE	97	44	38	5	3	4	3	
FIREPLACES, STOVES, OR PORTABLE HEATERS	124	92	20	6	-	2	5	
NONE.	222	84	45	19	13	55	6	
THERMOSTAT CONTROLLED HEATING EQUIPMENT								
OWNER OCCUPIED.	9 091	7 813	251	70	24	65	868	
NO HEATING EQUIPMENT.	157	117	7	2	-	23	9	
WITH HEATING EQUIPMENT.	6 933	7 696	244	68	24	42	859	
NO THERMOSTAT CONTROL	906	818	30	9	3	7	40	
WITH THERMOSTAT CONTROL	8 007	6 861	215	59	21	36	815	
' NOT CLOCK OPERATED.	6 865	5 876	178	50	16	30	715	
CONSTANT TEMPERATURE SETTING MAINTAINED	1 739	1 475	60	18	2	8	175	
TEMPERATURE SETTING IS CHANGED.	5 101	4 379	118	32	14	22	536	
OCCASIONALLY.	950	838	22	12	7	5	67	
REGULARLY.	4 109	3 505	93	19	6	17	469	
DON'T KNOW.	38	32	3	-	2	-	1	
NOT REPORTED.	3	3	-	-	-	-	-	
NOT REPORTED.	25	22	-	-	-	-	3	
CLOCK OPERATED.	1 091	949	36	9	5	6	85	
NOT REPORTED.	51	36	-	-	-	-	15	
NOT REPORTED.	20	16	-	-	-	-	4	
RENTER OCCUPIED	5 859	1 968	1 393	734	590	1 052	122	
NO HEATING EQUIPMENT.	222	84	45	19	13	55	6	
WITH HEATING EQUIPMENT.	5 638	1 884	1 348	715	577	997	117	
NO THERMOSTAT CONTROL	1 734	601	423	224	159	303	24	
WITH THERMOSTAT CONTROL	3 893	1 276	922	490	419	694	93	
NOT CLOCK OPERATED.	3 455	1 137	805	435	379	627	71	
CONSTANT TEMPERATURE SETTING MAINTAINED	1 054	323	200	142	140	230	19	
TEMPERATURE SETTING IS CHANGED.	2 370	807	597	289	237	389	51	
OCCASIONALLY.	598	163	147	79	81	122	7	
REGULARLY.	1 738	631	444	209	155	255	44	
DON'T KNOW.	33	12	6	2	2	11	-	
NOT REPORTED.	-	-	-	-	-	-	-	
NOT REPORTED.	31	8	8	4	3	8	1	
CLOCK OPERATED.	424	133	111	55	39	65	21	
NOT REPORTED.	14	6	6	-	-	2	1	
NOT REPORTED.	10	7	2	1	-	-	-	

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

TABLE E-5. HOUSING UNITS IN STRUCTURE BY FUEL, FUEL COST, HEATING, AND AIR CONDITIONING CHARACTERISTICS: 1978--CONTINUED
(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						MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE		
ALL OCCUPIED HOUSING UNITS	14 950	9 780	1 644	804	614	1 117		990
UNITS OCCUPIED LAST WINTER	11 438	8 207	1 010	491	355	608		766
INSUFFICIENT HEAT								
CLOSURE OF ROOMS:								
OWNER OCCUPIED	8 025	6 966	216	59	18	49		718
WITH HEATING EQUIPMENT	7 870	6 851	209	57	18	26		709
NO ROOMS CLOSED	7 613	6 618	200	57	16	24		698
CLOSED CERTAIN ROOMS	193	182	6	-	2	-		4
LIVING ROOM ONLY	3	3	-	-	-	-		-
DINING ROOM ONLY	7	7	-	-	-	-		-
1 OR MORE BEDROOMS ONLY	139	128	6	-	2	-		4
OTHER ROOMS OR COMBINATION OF ROOMS	41	41	-	-	-	-		-
NOT REPORTED	3	3	-	-	-	-		-
NOT REPORTED	63	51	3	-	-	2		7
NO HEATING EQUIPMENT	155	115	7	2	-	23		9
RENTER OCCUPIED	3 413	1 241	794	433	337	560		48
WITH HEATING EQUIPMENT	3 272	1 184	767	417	327	529		48
NO ROOMS CLOSED	3 100	1 102	728	402	312	510		47
CLOSED CERTAIN ROOMS	121	67	25	7	10	11		1
LIVING ROOM ONLY	3	-	2	-	-	2		-
DINING ROOM ONLY	2	-	2	-	-	-		-
1 OR MORE BEDROOMS ONLY	95	54	20	7	7	7		1
OTHER ROOMS OR COMBINATION OF ROOMS	20	13	2	-	3	2		-
NOT REPORTED	1	-	-	-	-	1		-
NOT REPORTED	50	14	14	8	5	8		1
NO HEATING EQUIPMENT	141	58	27	16	10	31		-
ADDITIONAL HEAT SOURCE:								
OWNER OCCUPIED	8 025	6 966	216	59	18	49		718
WITH SPECIFIED HEATING EQUIPMENT ¹	7 602	6 618	200	55	18	26		685
NO ADDITIONAL HEAT SOURCE USED	7 167	6 213	190	54	18	23		670
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	388	367	7	2	-	2		11
NOT REPORTED	47	37	3	-	-	2		4
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	423	348	16	4	-	23		32
RENTER OCCUPIED	3 413	1 241	794	433	337	560		48
WITH SPECIFIED HEATING EQUIPMENT ¹	3 130	1 093	732	410	327	526		43
NO ADDITIONAL HEAT SOURCE USED	2 807	968	636	376	302	485		41
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	276	112	84	24	20	33		2
NOT REPORTED	47	12	13	10	5	8		-
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	282	149	61	23	10	34		5
ROOMS LACKING SPECIFIED HEAT SOURCE:								
OWNER OCCUPIED	8 025	6 966	216	59	18	49		718
WITH SPECIFIED HEATING EQUIPMENT ¹	7 602	6 618	200	55	18	26		685
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	5 416	4 561	143	51	13	21		627
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 113	2 002	53	4	4	5		45
1 ROOM	533	485	12	2	-	5		28
2 ROOMS	596	562	19	2	2	-		11
3 ROOMS OR MORE	984	954	21	-	3	-		6
NOT REPORTED	73	55	5	-	-	-		14
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	423	348	16	4	-	23		32
RENTER OCCUPIED	3 413	1 241	794	433	337	560		48
WITH SPECIFIED HEATING EQUIPMENT ¹	3 130	1 093	732	410	327	526		43
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 714	440	375	230	200	432		36
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 354	636	341	166	121	84		6
1 ROOM	478	145	135	77	65	50		5
2 ROOMS	537	265	132	68	48	23		1
3 ROOMS OR MORE	339	225	73	21	8	12		-
NOT REPORTED	63	17	16	13	7	9		1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	282	149	61	23	10	34		5

¹EXCLUDES 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: 1978--CONTINUED
 (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						MOBILE HOME OR TRAILER
		1	2 TO 4	5 TO 9	10 TO 19	20 OR MORE		
ALL OCCUPIED HOUSING UNITS	14 950	9 780	1 644	804	614	1 117		990
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS								
OWNER OCCUPIED								
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	9 091	7 813	251	70	24	65		868
WITH SELECTED HEATING EQUIPMENT ¹	405	338	10	4	-	23		30
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 685	7 474	241	66	24	42		837
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 319	7 144	236	66	24	42		806
SOLAR HEATING EQUIPMENT	323	290	5	-	-	-		28
STOVE, BURNING WOOD OR COAL	3	3	-	-	-	-		-
FIREPLACE, BURNING WOOD OR COAL	80	74	1	-	-	-		5
PORTABLE ELECTRIC HEATER	45	40	-	-	-	-		5
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	103	84	2	-	-	-		18
OTHER	7	7	-	-	-	-		-
NOT REPORTED	79	77	2	-	-	-		-
NOT REPORTED	6	6	-	-	-	-		-
NOT REPORTED	44	41	-	-	-	-		3
RENTER OCCUPIED	5 859	1 968	1 393	734	590	1 052		122
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	346	176	64	25	13	56		11
WITH SELECTED HEATING EQUIPMENT ¹	5 513	1 791	1 328	710	577	995		111
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 351	1 720	1 286	688	571	980		106
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	131	55	37	15	7	12		5
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-		-
STOVE, BURNING WOOD OR COAL	5	5	-	-	-	-		-
FIREPLACE, BURNING WOOD OR COAL	7	2	-	-	-	-		2
PORTABLE ELECTRIC HEATER	97	40	28	15	3	8		2
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	5	2	2	-	-	-		-
OTHER	16	7	5	-	3	2		1
NOT REPORTED	3	2	2	-	-	-		-
NOT REPORTED	31	16	6	6	-	4		-
AIR CONDITIONING								
OWNER OCCUPIED	9 091	7 813	251	70	24	65		868
WITH AIR CONDITIONING	3 224	2 606	84	34	7	39		453
ROOM UNITS	1 128	968	21	9	6	21		103
1	872	747	16	9	2	10		89
2	217	192	5	-	4	3		13
3	31	22	-	-	-	8		1
4	4	4	-	-	-	-		-
5 OR MORE	4	3	-	-	-	-		1
CENTRAL SYSTEM	2 096	1 638	63	25	2	18		350
WITH NO AIR CONDITIONING	5 866	5 206	167	35	17	26		415
RENTER OCCUPIED	5 859	1 968	1 393	734	590	1 052		122
WITH AIR CONDITIONING	1 623	435	311	211	202	424		40
ROOM UNITS	932	258	169	134	119	229		23
1	839	218	156	134	111	203		17
2	75	33	9	-	5	22		6
3	15	7	2	-	2	5		-
4	3	-	2	-	2	-		-
5 OR MORE	-	-	-	-	-	-		-
CENTRAL SYSTEM	691	177	142	77	84	195		16
WITH NO AIR CONDITIONING	4 236	1 533	1 081	523	388	628		83

¹EXCLUDES 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: 1978

(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.	14 950	399	613	1 802	3 293	3 363	2 704	2 776	4.9
HOUSE HEATING FUEL									
OWNER OCCUPIED.	9 091	40	98	310	1 343	2 479	2 279	2 541	5.6
UTILITY GAS.	6 407	13	34	167	864	1 776	1 713	1 838	5.7
BOTTLED, TANK, OR LP GAS.	297	8	19	40	69	82	41	37	4.6
FUEL OIL.	522	-	5	5	68	122	122	200	6.0
KEROSENE, ETC.	1	-	-	-	1	-	-	-	...
ELECTRICITY.	1 547	18	24	70	269	414	348	404	5.4
COAL OR COKE.	10	-	-	1	1	1	4	4	...
WOOD.	145	-	9	15	34	42	28	18	4.8
SOLAR HEAT.	2	-	-	-	-	-	2	-	...
OTHER FUEL.	2	-	-	-	1	-	2	2	...
NONE.	157	1	6	12	36	43	21	39	5.0
RENTER OCCUPIED	5 859	359	515	1 492	1 950	884	426	234	3.8
UTILITY GAS.	3 718	119	320	975	1 265	602	280	157	3.8
BOTTLED, TANK, OR LP GAS.	111	4	10	13	34	26	16	8	4.3
FUEL OIL.	215	23	18	35	44	45	28	23	4.2
KEROSENE, ETC.	-	-	-	-	-	-	-	-	...
ELECTRICITY.	1 466	136	130	388	529	165	79	39	3.6
COAL OR COKE.	11	-	2	4	2	2	2	2	...
WOOD.	60	1	3	11	22	11	8	4	4.2
SOLAR HEAT.	-	-	-	-	-	-	-	-	...
OTHER FUEL.	56	44	3	2	5	2	-	1	1.5-
NONE.	222	32	28	65	48	31	14	3	3.3
WATER HEATING FUEL									
OWNER OCCUPIED.	9 091	40	98	310	1 343	2 479	2 279	2 541	5.6
NO HOT PIPED WATER.	23	3	6	6	4	2	1	-	...
WITH HOT PIPED WATER.	9 068	37	92	304	1 339	2 477	2 278	2 541	5.6
FUEL USED:									
UTILITY GAS.	6 160	14	37	152	849	1 709	1 651	1 749	5.7
BOTTLED, TANK, OR LP GAS.	253	5	18	23	66	79	33	28	4.7
FUEL OIL.	19	-	-	-	-	5	6	8	...
KEROSENE, ETC.	1	-	-	-	-	-	-	1	...
ELECTRICITY.	2 619	16	37	124	423	682	584	754	5.5
COAL OR COKE.	-	-	-	-	-	-	-	-	...
WOOD.	9	-	1	4	-	-	4	1	...
SOLAR HEAT.	2	-	-	-	-	-	1	1	...
OTHER FUEL.	1	-	-	-	1	-	-	-	...
NONE.	5	2	-	2	-	2	-	-	...
NOT REPORTED.	-	-	-	-	-	-	-	-	...
RENTER OCCUPIED	5 859	359	515	1 492	1 950	884	426	234	3.8
NO HOT PIPED WATER.	20	8	6	2	2	1	-	-	...
WITH HOT PIPED WATER.	5 839	350	508	1 490	1 947	883	426	234	3.8
FUEL USED:									
UTILITY GAS.	3 862	148	370	1 031	1 304	599	274	137	3.8
BOTTLED, TANK, OR LP GAS.	93	4	5	8	38	24	11	5	4.3
FUEL OIL.	23	3	3	5	8	3	-	-	...
KEROSENE, ETC.	-	-	-	-	-	-	-	-	...
ELECTRICITY.	1 776	148	123	436	586	254	141	87	3.8
COAL OR COKE.	5	-	2	2	2	-	-	-	...
WOOD.	1	-	-	-	1	-	-	-	...
SOLAR HEAT.	2	-	-	-	2	-	-	-	...
OTHER FUEL.	74	47	6	6	6	3	-	5	1.5-
NONE.	3	-	-	2	2	-	-	-	...
NOT REPORTED.	-	-	-	-	-	-	-	-	...
COOKING FUEL									
OWNER OCCUPIED.	9 091	40	98	310	1 343	2 479	2 279	2 541	5.6
UTILITY GAS.	3 493	3	28	149	666	1 121	924	602	5.3
BOTTLED, TANK, OR LP GAS.	294	10	33	45	.88	70	30	19	4.2
FUEL OIL.	4	-	-	-	2	-	1	2	...
KEROSENE, ETC.	-	-	-	-	-	-	-	-	...
ELECTRICITY.	5 270	25	34	113	584	1 282	1 316	1 916	5.9
COAL OR COKE.	2	-	-	-	-	-	2	-	...
WOOD.	21	-	1	3	4	6	4	3	...
OTHER FUEL.	2	-	2	-	-	-	1	-	...
NONE.	5	2	-	-	-	-	2	-	...
RENTER OCCUPIED	5 859	359	515	1 492	1 950	884	426	234	3.8
UTILITY GAS.	2 809	68	307	798	948	421	190	76	3.7
BOTTLED, TANK, OR LP GAS.	114	6	14	19	38	23	11	4	4.0
FUEL OIL.	3	-	-	-	-	-	-	2	...
KEROSENE, ETC.	-	-	-	-	-	-	-	-	...
ELECTRICITY.	2 874	238	190	669	961	440	223	153	3.8
COAL OR COKE.	1	-	-	-	1	-	-	-	...
WOOD.	2	-	-	-	2	-	-	-	...
OTHER FUEL.	3	-	-	3	-	-	-	-	...
NONE.	52	47	3	2	-	-	-	-	1.5-

TABLE E-6. NUMBER OF ROOMS PER HOUSING UNIT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$10	7 371	11	37	115	724	2 058	2 049	2 377	5.9
\$10 TO \$19.	323	2	3	23	82	107	71	35	5.0
\$20 TO \$29.	2 099	3	9	46	310	715	563	451	5.4
\$30 TO \$39.	2 075	2	14	26	186	576	584	687	5.9
\$40 TO \$49.	1 298	2	5	11	83	315	371	511	6.1
\$50 TO \$59.	577	-	4	7	27	146	161	232	6.1
\$60 TO \$79.	415	1	-	1	20	85	137	171	6.2
\$80 TO \$99.	344	-	2	-	9	74	102	158	6.3
\$100 TO \$149.	107	-	-	-	3	24	23	57	6.5+
\$150 OR MORE.	93	-	-	-	2	9	28	55	6.5+
NO ELECTRICITY USED OR NOT REPORTED	35	-	-	-	2	6	7	21	...
MEDIAN.	6	2	-	1	-	1	3	-	...
	25	...	24	17	18	23	26	30	...
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	5 785	357	512	1 488	1 932	866	412	217	3.8
\$10 TO \$19.	1 108	19	143	428	376	99	30	13	3.4
\$20 TO \$29.	1 792	22	103	501	714	287	109	55	3.9
\$30 TO \$39.	927	9	42	171	360	182	115	48	4.2
\$40 TO \$49.	423	4	11	67	150	99	62	30	4.4
\$50 TO \$59.	157	-	3	25	54	45	17	13	4.4
\$60 TO \$79.	74	1	2	4	22	21	14	12	4.9
\$80 TO \$99.	73	-	-	6	18	32	8	9	4.9
\$100 TO \$149.	15	-	-	-	3	2	6	5	...
\$150 OR MORE.	11	-	-	-	4	3	2	2	...
INCLUDED IN RENT.	10	-	-	2	3	3	-	2	...
NO ELECTRICITY USED OR NOT REPORTED	1 179	299	208	280	224	92	49	28	2.8
MEDIAN.	15	3	2	3	6	1	-	-	...
	16	13	11	13	16	20	23	25	...
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$10	7 371	11	37	115	724	2 058	2 049	2 377	5.9
\$10 TO \$14.	959	2	8	33	158	305	288	166	5.4
\$15 TO \$19.	1 382	3	6	14	153	495	402	309	5.5
\$20 TO \$24.	1 118	-	5	9	94	341	345	323	5.8
\$25 TO \$29.	843	-	1	8	66	196	236	336	6.1
\$30 TO \$39.	568	2	5	4	51	124	153	230	6.1
\$40 TO \$49.	627	-	1	12	29	139	167	279	6.3
\$50 TO \$69.	256	-	1	2	14	47	50	142	6.5+
\$70 TO \$99.	152	-	-	2	2	26	26	95	6.5+
\$100 OR MORE.	31	-	-	-	3	3	7	18	...
NO GAS USED OR NOT REPORTED	18	-	-	-	-	2	6	11	...
MEDIAN.	1 417	3	10	30	152	381	370	469	5.8
	17	...	...	13	13	15	17	22	...
SPECIFIED RENTER OCCUPIED ²									
LESS THAN \$10	5 785	357	512	1 488	1 932	866	412	217	3.8
\$10 TO \$14.	1 507	23	126	518	570	182	65	22	3.6
\$15 TO \$19.	733	2	30	143	302	152	70	33	4.1
\$20 TO \$24.	391	3	10	61	153	100	41	23	4.3
\$25 TO \$29.	193	-	3	25	60	58	39	9	4.6
\$30 TO \$39.	114	2	2	16	26	29	22	17	4.9
\$40 TO \$49.	106	-	3	8	32	22	23	18	4.9
\$50 TO \$69.	37	-	1	3	11	8	10	4	4.9
\$70 TO \$99.	36	-	-	-	16	7	7	5	4.7
\$100 OR MORE.	9	-	-	-	2	3	1	4	...
INCLUDED IN RENT.	3	-	-	-	2	1	-	-	...
NO GAS USED OR NOT REPORTED	1 250	155	223	357	308	129	43	35	3.2
MEDIAN.	1 405	173	114	357	449	174	92	46	3.6
	10	...	10-	10-	10	13	15	17	...
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹									
LESS THAN \$100.	7 371	11	37	115	724	2 058	2 049	2 377	5.9
\$100 TO \$199.	306	-	3	1	31	58	85	128	6.2
\$200 TO \$299.	159	2	4	1	17	49	30	57	5.7
\$300 TO \$399.	115	-	-	3	18	38	33	23	5.4
\$400 TO \$499.	107	-	-	-	13	25	30	40	6.0
\$500 TO \$599.	108	-	2	1	15	18	26	46	6.2
\$600 TO \$699.	54	-	1	1	2	12	12	26	6.4
\$700 TO \$799.	35	-	-	-	2	6	15	12	...
\$800 OR MORE.	9	-	-	-	-	1	1	7	...
FUELS NOT USED, FREE, OR NOT REPORTED	14	-	-	-	-	2	2	11	...
MEDIAN.	6 465	9	27	109	624	1 850	1 816	2 029	5.8
	192	...	...	...	206	194	205	181	...

¹LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.²EXCLUDES 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: 1978--CONTINUED

(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	5 785	357	512	1 488	1 932	866	412	217	3.8
LESS THAN \$100.	80	2	2	17	18	18	12	13	4.6
\$100 TO \$199.	28	-	1	1	6	14	5	1	..
\$200 TO \$299.	35	-	1	9	11	5	4	5	4.2
\$300 TO \$399.	37	-	-	3	6	8	14	7	5.6
\$400 TO \$499.	4	-	-	-	2	1	1	-	..
\$500 TO \$599.	2	-	-	-	1	-	1	-	..
\$600 TO \$699.	7	-	-	2	1	1	3	-	..
\$700 TO \$799.	3	-	-	-	-	2	-	2	..
\$800 OR MORE.	6	-	-	-	2	-	-	5	..
INCLUDED IN RENT.	272	31	44	73	57	34	18	15	3.3
FUELS NOT USED, FREE, OR NOT REPORTED	5 310	324	465	1 383	1 830	783	354	171	3.8
MEDIAN.	175	...	...	...	184	146	283	...	..
ALL OCCUPIED HOUSING UNITS.									
HEATING EQUIPMENT									
OWNER OCCUPIED.	9 091	40	98	310	1 343	2 479	2 279	2 541	5.6
WARM-AIR FURNACE.	5 832	8	38	120	720	1 405	1 577	1 965	5.9
HEAT PUMP	133	-	1	2	10	32	40	48	6.0
STEAM OR HOT WATER.	190	2	-	1	12	38	44	94	6.5
BUILT-IN ELECTRIC UNITS	717	13	12	48	113	209	154	167	5.3
FLOOR, WALL, OR PIPELESS FURNACE.	1 465	5	11	54	303	577	339	175	5.1
ROOM HEATERS WITH FLUE.	290	4	10	39	73	96	49	19	4.7
ROOM HEATERS WITHOUT FLUE	59	3	2	12	11	19	6	5	4.5
FIREPLACES, STOVES, OR PORTABLE HEATERS	248	4	18	23	65	59	50	30	4.7
NONE.	157	1	6	12	36	43	21	39	5.0
RENTER OCCUPIED	5 859	359	515	1 492	1 950	884	426	234	3.8
WARM-AIR FURNACE.	1 651	27	59	294	563	357	217	134	4.3
HEAT PUMP	30	-	2	13	5	8	1	1	..
STEAM OR HOT WATER.	392	106	66	102	62	35	6	14	2.7
BUILT-IN ELECTRIC UNITS	1 083	123	110	285	384	115	46	21	3.6
FLOOR, WALL, OR PIPELESS FURNACE.	1 803	31	159	553	679	245	102	34	3.7
ROOM HEATERS WITH FLUE.	458	25	69	136	136	57	23	13	3.5
ROOM HEATERS WITHOUT FLUE	97	7	10	20	30	16	5	8	3.9
FIREPLACES, STOVES, OR PORTABLE HEATERS	124	7	13	24	43	20	11	5	3.9
NONE.	222	32	28	65	48	31	14	3	3.3
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED.	9 091	40	98	310	1 343	2 479	2 279	2 541	5.6
NO HEATING EQUIPMENT.	157	1	6	12	36	43	21	39	5.0
WITH HEATING EQUIPMENT.	8 933	39	92	298	1 307	2 436	2 258	2 503	5.6
NO THERMOSTAT CONTROL	906	14	25	69	200	318	186	95	4.9
WITH THERMOSTAT CONTROL	8 007	24	65	229	1 103	2 114	2 071	2 402	5.7
NOT CLOCK OPERATED.	6 865	22	54	213	941	1 829	1 741	2 065	5.7
CONSTANT TEMPERATURE SETTING MAINTAINED	1 739	2	13	65	251	477	460	471	5.6
TEMPERATURE SETTING IS CHANGED.	5 101	20	41	145	685	1 350	1 277	1 583	5.7
OCCASIONALLY.	950	2	4	33	115	294	236	266	5.6
REGULARLY.	4 109	19	37	111	567	1 043	1 026	1 306	5.8
DON'T KNOW.	38	-	-	-	3	12	13	11	5.8
NOT REPORTED.	3	-	-	1	-	-	2	-	..
NOT REPORTED.	25	-	-	2	5	2	4	11	..
CLOCK OPERATED.	1 091	2	9	15	147	270	324	325	5.8
NOT REPORTED.	51	-	2	2	14	15	7	12	5.0
NOT REPORTED.	20	2	2	1	4	4	1	6	..
RENTER OCCUPIED	5 859	359	515	1 492	1 950	884	426	234	3.8
NO HEATING EQUIPMENT.	222	32	28	65	48	31	14	3	3.3
WITH HEATING EQUIPMENT.	5 638	326	487	1 427	1 902	853	412	231	3.8
NO THERMOSTAT CONTROL	1 734	180	272	475	512	190	76	29	3.4
WITH THERMOSTAT CONTROL	3 893	146	215	950	1 386	660	335	200	3.9
NOT CLOCK OPERATED.	3 455	143	201	845	1 202	595	290	179	3.9
CONSTANT TEMPERATURE SETTING MAINTAINED	1 054	56	78	283	349	158	77	54	3.8
TEMPERATURE SETTING IS CHANGED.	2 370	87	123	551	840	435	211	122	4.0
OCCASIONALLY.	598	12	39	157	238	93	44	15	3.9
REGULARLY.	1 738	67	81	389	597	337	161	107	4.0
DON'T KNOW.	33	8	3	5	5	6	7	-	..
NOT REPORTED.	-	-	-	-	-	-	-	-	..
NOT REPORTED.	31	-	-	11	13	2	2	3	..
CLOCK OPERATED.	424	3	12	101	180	65	43	20	4.0
NOT REPORTED.	14	-	2	5	4	-	2	1	..
NOT REPORTED.	10	-	-	2	4	2	1	1	..

¹EXCLUDES 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: 1978--CONTINUED

(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	14 950	399	613	1 802	3 293	3 363	2 704	2 776	4.9
UNITS OCCUPIED LAST WINTER	11 438	207	332	1 141	2 325	2 750	2 325	2 357	5.1
INSUFFICIENT HEAT									
CLOSURE OF ROOMS:									
OWNER OCCUPIED	8 025	26	80	264	1 161	2 218	2 059	2 217	5.6
WITH HEATING EQUIPMENT	7 870	25	75	252	1 127	2 174	2 038	2 179	5.6
NO ROOMS CLOSED	7 613	24	73	243	1 077	2 097	1 983	2 118	5.6
CLOSED CERTAIN ROOMS	193	-	2	5	38	57	44	47	5.4
LIVING ROOM ONLY	3	-	-	-	1	-	1	1	...
DINING ROOM ONLY	7	-	-	-	2	-	2	3	...
1 OR MORE BEDROOMS ONLY	139	-	2	1	30	49	30	27	5.2
OTHER ROOMS OR COMBINATION OF ROOMS	41	-	1	4	2	6	12	16	6.1
NOT REPORTED	3	-	-	-	2	2	-	-	...
NOT REPORTED	63	1	-	4	13	21	11	14	5.2
NO HEATING EQUIPMENT	155	1	6	12	34	43	21	39	5.1
RENTER OCCUPIED	3 413	181	252	878	1 163	532	267	140	3.8
WITH HEATING EQUIPMENT	3 272	159	243	840	1 131	505	256	137	3.8
NO ROOMS CLOSED	3 100	159	238	809	1 053	477	235	129	3.8
CLOSED CERTAIN ROOMS	121	-	3	16	56	24	15	7	4.2
LIVING ROOM ONLY	3	-	-	2	2	-	-	-	...
DINING ROOM ONLY	2	-	-	-	2	-	-	-	...
1 OR MORE BEDROOMS ONLY	95	-	2	15	44	17	12	6	4.2
OTHER ROOMS OR COMBINATION OF ROOMS	20	-	2	-	7	7	3	2	...
NOT REPORTED	1	-	-	-	1	-	-	-	...
NOT REPORTED	50	-	2	15	23	5	5	1	3.9
NO HEATING EQUIPMENT	141	22	9	37	32	27	11	3	3.6
ADDITIONAL HEAT SOURCE:									
OWNER OCCUPIED	8 025	26	80	264	1 161	2 218	2 059	2 217	5.6
WITH SPECIFIED HEATING EQUIPMENT	7 602	21	60	223	1 059	2 107	1 987	2 146	5.7
NO ADDITIONAL HEAT SOURCE USED	7 167	21	60	205	1 001	1 985	1 873	2 021	5.7
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	388	-	-	13	47	109	102	117	5.7
NOT REPORTED	47	-	-	4	11	13	11	8	5.2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	423	5	20	41	103	111	72	71	4.9
RENTER OCCUPIED	3 413	181	252	878	1 163	532	267	140	3.8
WITH SPECIFIED HEATING EQUIPMENT	3 130	153	234	806	1 085	482	242	128	3.8
NO ADDITIONAL HEAT SOURCE USED	2 807	149	213	728	972	419	215	112	3.8
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	276	5	19	61	94	58	23	16	4.1
NOT REPORTED	47	-	2	17	19	5	5	1	3.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	282	27	18	72	78	51	24	12	3.8
ROOMS LACKING SPECIFIED HEAT SOURCE:									
OWNER OCCUPIED	8 025	26	80	264	1 161	2 218	2 059	2 217	5.6
WITH SPECIFIED HEATING EQUIPMENT	7 602	21	60	223	1 059	2 107	1 987	2 146	5.7
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	5 416	17	43	146	670	1 389	1 439	1 712	5.8
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	2 113	3	16	72	371	695	535	420	5.3
1 ROOM	533	3	12	33	75	110	138	162	5.7
2 ROOMS	596	-	3	26	210	173	101	82	4.8
3 ROOMS OR MORE	984	-	2	13	85	412	296	176	5.4
NOT REPORTED	73	-	1	4	18	23	13	14	5.1
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	423	5	20	41	103	111	72	71	4.9
RENTER OCCUPIED	3 413	181	252	878	1 163	532	267	140	3.8
WITH SPECIFIED HEATING EQUIPMENT	3 130	153	234	806	1 085	482	242	128	3.8
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 714	152	187	415	509	255	124	72	3.7
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS	1 354	2	44	371	552	218	113	56	4.0
1 ROOM	478	2	33	272	107	36	20	8	3.3
2 ROOMS	537	-	6	87	346	64	26	8	4.0
3 ROOMS OR MORE	339	-	4	12	99	118	66	40	4.9
NOT REPORTED	63	-	3	20	24	9	5	1	3.8
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	282	27	18	72	78	51	24	12	3.8

¹EXCLUDES 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: 1978--CONTINUED

(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.	14 950	399	613	1 802	3 293	3 363	2 704	2 776	4.9
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS									
OWNER OCCUPIED.	9 091	40	98	310	1 343	2 479	2 279	2 541	5.6
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	405	4	24	35	101	102	70	68	4.9
WITH SELECTED HEATING EQUIPMENT ¹	8 685	35	74	275	1 242	2 377	2 208	2 473	5.6
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	8 319	31	66	269	1 196	2 276	2 119	2 361	5.6
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	323	4	6	6	40	86	83	98	5.7
SOLAR HEATING EQUIPMENT.	3	-	-	-	-	-	1	2	..
STOVE, BURNING WOOD OR COAL.	80	-	2	1	4	20	25	27	6.0
FIREPLACE, BURNING WOOD OR COAL.	45	-	-	-	6	18	11	9	5.4
PORTABLE ELECTRIC HEATER.	103	2	2	1	23	30	24	22	5.3
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	7	-	-	-	-	2	-	5	..
OTHER.	79	2	2	3	6	14	19	33	6.2
NOT REPORTED.	6	-	-	-	2	2	2	1	..
NOT REPORTED.	44	-	2	1	6	15	7	14	5.4
RENTER OCCUPIED.	5 859	359	515	1 492	1 950	884	426	234	3.8
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	346	40	89	91	51	26	9	3.5	..
WITH SELECTED HEATING EQUIPMENT ¹	5 513	319	474	1 403	1 859	833	400	225	3.8
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	5 351	314	460	1 368	1 807	799	384	219	3.8
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	131	3	12	28	43	28	13	3	4.0
SOLAR HEATING EQUIPMENT.	-	-	-	-	-	-	-	-	..
STOVE, BURNING WOOD OR COAL.	5	-	-	-	1	2	2	-	..
FIREPLACE, BURNING WOOD OR COAL.	7	-	-	2	2	2	2	1	..
PORTABLE ELECTRIC HEATER.	97	3	8	23	33	23	5	2	3.9
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	5	-	-	2	2	-	-	1	..
OTHER.	16	-	3	2	3	3	4	-	..
NOT REPORTED.	3	-	-	-	2	2	-	-	..
NOT REPORTED.	31	2	2	7	8	6	4	3	..
AIR CONDITIONING									
OWNER OCCUPIED.	9 091	40	98	310	1 343	2 479	2 279	2 541	5.6
WITH AIR CONDITIONING.	3 224	13	40	114	466	896	854	841	5.6
ROOM UNITS.	1 128	6	25	54	191	350	266	235	5.3
1	872	6	24	47	147	280	200	168	5.3
2	217	-	1	6	30	60	60	59	5.7
3	31	-	-	1	10	9	7	4	..
4	4	-	-	-	2	-	-	2	..
5 OR MORE	4	-	-	-	2	-	-	2	..
CENTRAL SYSTEM.	2 096	6	15	61	274	547	588	605	5.7
WITH NO AIR CONDITIONING.	5 866	27	58	196	878	1 583	1 424	1 701	5.6
RENTER OCCUPIED.	5 859	359	515	1 492	1 950	884	426	234	3.8
WITH AIR CONDITIONING.	1 623	40	127	431	597	244	127	57	3.8
ROOM UNITS.	932	30	85	253	342	135	63	26	3.8
1	839	30	82	242	303	116	47	20	3.7
2	75	-	3	10	29	15	13	5	4.3
3	15	-	-	2	8	2	3	1	..
4	3	-	-	-	2	2	-	-	..
5 OR MORE	-	-	-	-	-	-	-	-	..
CENTRAL SYSTEM.	691	11	42	178	256	109	64	31	3.9
WITH NO AIR CONDITIONING.	4 236	319	388	1 061	1 352	640	299	177	3.8
ALL OCCUPIED HOUSING UNITS.	14 950	399	613	1 802	3 293	3 363	2 704	2 776	4.9
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	10 771	59	181	566	1 782	2 891	2 568	2 724	5.5
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED.	8 680	23	86	258	1 188	2 370	2 238	2 516	5.7
ALL WINDOWS COVERED.	1 462	1	11	41	245	351	302	511	5.8
SOME WINDOWS COVERED.	802	1	6	21	112	226	173	264	5.7
NO WINDOWS COVERED.	6 372	21	70	193	824	1 780	1 755	1 730	5.7
NOT REPORTED.	44	1	-	3	7	13	8	12	5.3
RENTER OCCUPIED.	2 090	36	95	308	594	520	330	208	4.5
ALL WINDOWS COVERED.	183	2	7	18	47	49	31	30	4.9
SOME WINDOWS COVERED.	162	2	6	17	51	36	26	23	4.6
NO WINDOWS COVERED.	1 622	27	76	230	449	420	268	153	4.6
NOT REPORTED.	124	4	6	43	47	16	5	3	3.7

¹EXCLUDES 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: 1978--CONTINUED

(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	8 680	23	86	258	1 188	2 370	2 238	2 516	5.7
ALL DOORS COVERED	1 066	1	6	25	174	257	237	367	5.8
SOME DOORS COVERED	829	-	6	12	100	233	196	282	5.8
NO DOORS COVERED	6 714	22	75	220	900	1 861	1 789	1 847	5.6
NOT REPORTED	71	1	-	1	13	19	16	21	5.6
RENTER OCCUPIED	2 090	36	95	308	594	520	330	208	4.5
ALL DOORS COVERED	135	-	4	21	26	40	24	21	4.9
SOME DOORS COVERED	110	-	1	4	34	36	15	19	4.9
NO DOORS COVERED	1 707	31	83	240	485	419	282	166	4.5
NOT REPORTED	138	4	6	43	49	25	9	2	3.8
ATTIC OR ROOF INSULATION									
OWNER OCCUPIED	8 680	23	86	258	1 188	2 370	2 238	2 516	5.7
YES	6 688	15	65	171	826	1 758	1 742	2 112	5.8
NO.	1 499	5	19	58	268	462	392	295	5.4
DON'T KNOW	447	2	3	28	82	135	99	98	5.3
NOT REPORTED	47	1	-	1	12	16	6	12	5.1
RENTER OCCUPIED	2 090	36	95	308	594	520	330	208	4.5
YES	725	12	29	72	153	209	142	108	5.0
NO.	650	13	36	107	197	169	86	44	4.4
DON'T KNOW	589	7	23	87	197	125	97	52	4.4
NOT REPORTED	126	4	6	42	47	18	5	4	3.7

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978

(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.	14 950	3 624	11 325	3 728	2 978	1 595	3 024
HOUSE HEATING FUEL							
OWNER OCCUPIED.	9 091	2 453	6 637	2 233	2 015	907	1 482
UTILITY GAS	6 407	1 502	4 905	1 653	1 517	688	1 047
BOTTLED, TANK, OR LP GAS.	297	111	186	90	35	19	42
FUEL OIL.	522	29	493	70	177	75	170
KEROSENE, ETC.	1	-	1	-	-	-	1
ELECTRICITY.	1 547	744	803	354	218	96	135
COAL OR COKE.	10	2	9	-	2	-	7
WOOD.	145	26	119	21	30	15	53
SOLAR HEAT.	2	-	2	2	-	-	-
OTHER FUEL.	2	-	2	-	-	-	2
NONE.	157	39	118	44	36	14	24
RENTER OCCUPIED	5 859	1 171	4 688	1 495	963	688	1 542
UTILITY GAS	3 718	543	3 175	910	764	534	967
BOTTLED, TANK, OR LP GAS.	111	11	100	29	17	18	36
FUEL OIL.	215	13	203	25	32	24	122
KEROSENE, ETC.	-	-	-	-	-	-	-
ELECTRICITY.	1 466	570	897	484	102	86	225
COAL OR COKE.	11	-	11	-	2	-	9
WOOD.	60	1	59	5	7	9	38
SOLAR HEAT.	-	-	-	-	-	-	-
OTHER FUEL.	56	3	53	-	2	-	51
NONE.	222	31	191	42	38	17	94
WATER HEATING FUEL							
OWNER OCCUPIED.	9 091	2 453	6 637	2 233	2 015	907	1 482
NO HOT PIPED WATER.	23	2	20	4	4	8	4
WITH HOT PIPED WATER.	9 068	2 451	6 617	2 229	2 011	899	1 478
FUEL USED:							
UTILITY GAS	6 160	1 497	4 663	1 592	1 466	651	953
BOTTLED, TANK, OR LP GAS.	253	105	148	.63	35	15	35
FUEL OIL.	19	2	17	7	8	2	-
KEROSENE, ETC.	1	1	-	-	-	-	-
ELECTRICITY.	2 619	844	1 775	562	498	231	483
COAL OR COKE.	-	-	-	-	-	-	-
WOOD.	9	1	9	4	-	-	5
SOLAR HEAT.	2	2	-	-	-	-	-
OTHER FUEL.	1	-	1	1	-	-	-
NONE.	5	-	5	-	3	-	2
NOT REPORTED.	-	-	-	-	-	-	-
RENTER OCCUPIED	5 859	1 171	4 688	1 495	963	688	1 542
NO HOT PIPED WATER.	20	1	19	2	-	5	12
WITH HOT PIPED WATER.	5 839	1 170	4 669	1 494	963	683	1 529
FUEL USED:							
UTILITY GAS	3 862	642	3 220	977	740	504	999
BOTTLED, TANK, OR LP GAS.	93	12	82	22	14	14	32
FUEL OIL.	23	-	23	1	2	-	21
KEROSENE, ETC.	-	-	-	-	-	-	-
ELECTRICITY.	1 776	509	1 267	491	204	160	412
COAL OR COKE.	5	-	5	-	2	-	3
WOOD.	1	-	1	-	-	-	1
SOLAR HEAT.	2	2	-	-	-	-	-
OTHER FUEL.	74	6	68	3	2	3	60
NONE.	3	-	3	-	-	2	2
NOT REPORTED.	-	-	-	-	-	-	-
COOKING FUEL							
OWNER OCCUPIED.	9 091	2 453	6 637	2 233	2 015	907	1 482
UTILITY GAS	3 493	642	2 852	759	893	477	723
BOTTLED, TANK, OR LP GAS.	294	93	202	90	48	20	45
FUEL OIL.	4	2	2	-	-	2	1
KEROSENE, ETC.	-	-	-	-	-	-	-
ELECTRICITY.	5 270	1 714	3 556	1 382	1 071	407	696
COAL OR COKE.	2	-	2	2	-	-	-
WOOD.	21	1	20	1	2	2	14
OTHER FUEL.	2	-	2	-	2	-	-
NONE.	5	2	3	-	-	-	3
RENTER OCCUPIED	5 859	1 171	4 688	1 495	963	688	1 542
UTILITY GAS	2 809	297	2 513	581	611	461	860
BOTTLED, TANK, OR LP GAS.	114	11	103	27	12	20	44
FUEL OIL.	3	-	3	-	-	2	2
KEROSENE, ETC.	-	-	-	-	-	-	-
ELECTRICITY.	2 874	863	2 011	886	334	205	586
COAL OR COKE.	1	-	1	-	-	-	-
WOOD.	2	-	2	-	-	-	2
OTHER FUEL.	3	-	3	-	2	-	2
NONE.	52	-	52	2	5	1	45

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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	MARCH 1970	1960 TO	1950 TO	1940 TO		
ALL OCCUPIED HOUSING UNITS--CONTINUED									
MONTHLY COST PAID FOR ELECTRICITY									
SPECIFIED OWNER OCCUPIED ¹	7 371	1 684	5 687	1 723	1 861	848	1 256		
LESS THAN \$10	323	14	309	25	69	67	148		
\$10 TO \$19	2 099	315	1 784	344	577	345	518		
\$20 TO \$29	2 075	427	1 649	523	578	236	311		
\$30 TO \$39	1 298	365	932	345	324	121	142		
\$40 TO \$49	577	146	430	187	139	25	79		
\$50 TO \$59	415	168	247	114	87	22	25		
\$60 TO \$79	344	151	193	106	48	20	19		
\$80 TO \$99	107	51	56	32	14	4	6		
\$100 TO \$149	93	31	62	36	19	3	3		
\$150 OR MORE	35	16	19	8	5	2	4		
NO ELECTRICITY USED OR NOT REPORTED	6	1	6	2	1	2	1		
MEDIAN	25	32	24	28	24	20	18		
SPECIFIED RENTER OCCUPIED ²	5 785	1 169	4 616	1 486	955	673	1 502		
LESS THAN \$10	1 108	148	959	293	195	132	339		
\$10 TO \$19	1 792	347	1 445	510	334	215	386		
\$20 TO \$29	927	226	700	223	168	114	195		
\$30 TO \$39	423	120	303	117	62	41	83		
\$40 TO \$49	157	50	106	62	14	7	24		
\$50 TO \$59	74	32	42	21	8	5	9		
\$60 TO \$79	73	23	50	10	18	10	12		
\$80 TO \$99	15	6	10	5	2	2	-		
\$100 TO \$149	11	4	7	4	2	-	2		
\$150 OR MORE	10	-	10	5	2	-	3		
INCLUDED IN RENT	1 179	210	969	233	145	147	444		
NO ELECTRICITY USED OR NOT REPORTED	15	2	13	3	6	-	4		
MEDIAN	16	19	15	16	16	15	14		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS									
SPECIFIED OWNER OCCUPIED ¹	7 371	1 684	5 687	1 723	1 861	848	1 256		
LESS THAN \$10	959	140	820	187	269	152	212		
\$10 TO \$14	1 382	238	1 144	276	434	195	239		
\$15 TO \$19	1 118	225	893	288	298	146	161		
\$20 TO \$24	843	194	649	229	209	90	121		
\$25 TO \$29	568	131	437	173	125	46	93		
\$30 TO \$39	627	165	462	182	123	46	111		
\$40 TO \$49	256	61	195	73	55	15	52		
\$50 TO \$69	152	34	118	56	25	7	30		
\$70 TO \$99	31	8	23	8	5	3	8		
\$100 OR MORE	18	6	12	2	3	3	5		
NO GAS USED OR NOT REPORTED	1 417	482	935	250	316	145	224		
MEDIAN	17	19	17	19	16	15	17		
SPECIFIED RENTER OCCUPIED ²	5 785	1 169	4 616	1 486	955	673	1 502		
LESS THAN \$10	1 507	217	1 290	401	315	193	382		
\$10 TO \$14	733	107	626	163	162	113	189		
\$15 TO \$19	391	40	351	107	75	55	114		
\$20 TO \$24	193	24	169	34	51	28	55		
\$25 TO \$29	114	20	93	19	22	19	33		
\$30 TO \$39	106	13	93	20	23	24	25		
\$40 TO \$49	37	6	30	7	5	4	15		
\$50 TO \$69	36	7	29	10	4	5	9		
\$70 TO \$99	9	2	8	2	2	2	2		
\$100 OR MORE	3	-	3	1	2	-	1		
INCLUDED IN RENT	1 250	281	969	300	172	139	358		
NO GAS USED OR NOT REPORTED	1 405	452	953	420	121	91	320		
MEDIAN	10	10	10	10-	10	11	11		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.									
SPECIFIED OWNER OCCUPIED ¹	7 371	1 684	5 687	1 723	1 861	848	1 256		
LESS THAN \$100	306	92	213	88	68	21	37		
\$100 TO \$199	159	42	118	28	44	17	29		
\$200 TO \$299	115	8	106	22	43	17	24		
\$300 TO \$399	107	7	100	14	29	16	42		
\$400 TO \$499	108	6	102	13	38	15	36		
\$500 TO \$599	54	4	50	6	18	6	20		
\$600 TO \$699	35	-	35	11	10	6	7		
\$700 TO \$799	9	1	8	3	5	-	-		
\$800 OR MORE	14	-	14	2	10	-	2		
FUELS NOT USED, FREE, OR NOT REPORTED	6 465	1 524	4 941	1 536	1 596	751	1 058		
MEDIAN	192	100-	239	121	249	261	320		

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

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$100.	5 785	1 169	4 616	1 486	955	673	1 502		
\$100 TO \$199.	80	16	64	13	14	8	30		
\$200 TO \$299.	28	-	28	5	4	7	11		
\$300 TO \$399.	35	1	34	5	6	6	18		
\$400 TO \$499.	37	2	35	6	10	5	15		
\$500 TO \$599.	4	1	2	-	2	-	1		
\$600 TO \$699.	2	-	2	-	-	-	2		
\$700 TO \$799.	7	-	7	-	3	1	3		
\$800 OR MORE.	3	-	3	2	-	-	2		
INCLUDED IN RENT.	6	2	5	-	-	-	5		
FUELS NOT USED, FREE, OR NOT REPORTED	272	46	226	57	46	34	89		
MEDIAN.	5 310	1 101	4 209	1 399	871	613	1 327		
	175	...	193	...	220	...	211		
ALL OCCUPIED HOUSING UNITS.	14 950	3 624	11 325	3 728	2 978	1 595	3 024		
HEATING EQUIPMENT									
OWNER OCCUPIED									
WARM-AIR FURNACE.	9 091	2 453	6 637	2 233	2 015	907	1 482		
HEAT PUMP	5 832	1 954	3 878	1 694	1 166	353	666		
STEAM OR HOT WATER.	133	89	44	22	14	3	4		
BUILT-IN ELECTRIC UNITS	190	46	145	57	35	5	48		
FLOOR, WALL, OR PIPELESS FURNACE	717	233	484	180	139	67	98		
ROOM HEATERS WITH FLUE	1 465	43	1 422	154	501	371	396		
ROOM HEATERS WITHOUT FLUE	290	5	285	38	59	50	137		
FIREPLACES, STOVES, OR PORTABLE HEATERS	59	-	59	3	14	17	24		
NONE.	248	44	204	42	51	27	84		
	157	39	118	44	36	14	24		
RENTER OCCUPIED									
WARM-AIR FURNACE	5 859	1 171	4 688	1 495	963	688	1 542		
HEAT PUMP	1 651	593	1 058	456	233	129	239		
STEAM OR HOT WATER	30	16	15	11	3	-	-		
BUILT-IN ELECTRIC UNITS	392	61	331	72	21	20	218		
FLOOR, WALL, OR PIPELESS FURNACE	1 083	348	735	370	82	76	207		
ROOM HEATERS WITH FLUE	1 803	108	1 695	452	470	331	442		
ROOM HEATERS WITHOUT FLUE	458	13	444	66	95	75	209		
FIREPLACES, STOVES, OR PORTABLE HEATERS	97	-	97	14	4	14	65		
NONE.	124	1	124	12	16	27	69		
	222	31	191	42	38	17	94		
THERMOSTAT CONTROLLED HEATING EQUIPMENT									
OWNER OCCUPIED									
NO HEATING EQUIPMENT	9 091	2 453	6 637	2 233	2 015	907	1 482		
WITH HEATING EQUIPMENT	157	39	118	44	36	14	24		
NO THERMOSTAT CONTROL	8 933	2 414	6 519	2 189	1 979	893	1 458		
WITH THERMOSTAT CONTROL	906	38	868	119	260	173	317		
NOT CLOCK OPERATED	8 007	2 370	5 637	2 067	1 718	717	1 135		
CONSTANT TEMPERATURE SETTING MAINTAINED	6 865	2 091	4 774	1 773	1 469	586	946		
TEMPERATURE SETTING IS CHANGED	1 739	592	1 147	434	346	144	224		
OCCASIONALLY	5 101	1 488	3 613	1 337	1 119	437	719		
REGULARLY	950	256	694	269	197	89	139		
DON'T KNOW	4 109	1 222	2 887	1 051	917	345	574		
NOT REPORTED	38	10	28	17	3	3	5		
NOT REPORTED	3	-	3	1	1	-	2		
CLOCK OPERATED	25	10	15	2	4	6	3		
NOT REPORTED	1 091	268	823	277	242	126	178		
NOT REPORTED	51	12	40	18	7	5	11		
NOT REPORTED	20	6	14	3	2	4	6		
RENTER OCCUPIED									
NO HEATING EQUIPMENT	5 859	1 171	4 688	1 495	963	688	1 542		
WITH HEATING EQUIPMENT	222	31	191	42	38	17	94		
NO THERMOSTAT CONTROL	5 638	1 140	4 497	1 453	925	671	1 448		
WITH THERMOSTAT CONTROL	1 734	103	1 632	260	339	274	758		
NOT CLOCK OPERATED	3 893	1 036	2 857	1 193	583	395	686		
CONSTANT TEMPERATURE SETTING MAINTAINED	3 455	918	2 537	1 062	502	351	621		
TEMPERATURE SETTING IS CHANGED	1 054	313	741	322	140	95	185		
OCCASIONALLY	2 370	589	1 781	735	361	255	430		
REGULARLY	598	171	428	185	99	60	83		
DON'T KNOW	1 738	407	1 332	540	260	196	337		
NOT REPORTED	33	12	21	9	2	-	10		
CLOCK OPERATED	31	16	15	6	2	2	6		
NOT REPORTED	424	113	310	128	78	44	61		
NOT REPORTED	14	4	10	3	2	-	4		
NOT REPORTED	10	1	9	1	3	1	4		

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

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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.	14 950	3 624	11 325	3 728	2 978	1 595	3 024
UNITS OCCUPIED LAST WINTER.	11 438	2 365	9 073	2 920	2 495	1 299	2 358
INSUFFICIENT HEAT							
CLOSURE OF ROOMS:							
OWNER OCCUPIED.	8 025	1 870	6 155	2 047	1 886	842	1 379
WITH HEATING EQUIPMENT.	7 870	1 831	6 039	2 003	1 851	829	1 357
NO ROOMS CLOSED	7 613	1 800	5 813	1 965	1 792	790	1 266
CLOSED CERTAIN ROOMS.	193	16	178	20	42	36	80
LIVING ROOM ONLY.	3	-	3	1	-	1	1
DINING ROOM ONLY.	7	2	6	-	2	2	2
1 OR MORE BEDROOMS ONLY	139	9	129	15	25	27	61
OTHER ROOMS OR COMBINATION OF ROOMS	41	5	36	4	15	4	13
NOT REPORTED.	3	-	3	-	-	2	2
NOT REPORTED.	63	15	48	18	16	3	10
NO HEATING EQUIPMENT.	155	39	116	44	36	14	23
RENTER OCCUPIED	3 413	495	2 918	874	609	457	979
WITH HEATING EQUIPMENT.	3 272	480	2 792	840	588	446	918
NO ROOMS CLOSED	3 100	462	2 638	813	558	416	851
CLOSED CERTAIN ROOMS.	121	6	115	16	21	22	56
LIVING ROOM ONLY.	3	-	3	-	2	-	2
DINING ROOM ONLY.	2	-	2	-	-	1	1
1 OR MORE BEDROOMS ONLY	95	5	90	16	16	19	39
OTHER ROOMS OR COMBINATION OF ROOMS	20	-	20	-	3	3	13
NOT REPORTED.	1	1	-	-	-	-	-
NOT REPORTED.	50	12	39	11	9	8	11
NO HEATING EQUIPMENT.	141	15	126	33	21	11	61
ADDITIONAL HEAT SOURCE:							
OWNER OCCUPIED.	8 025	1 870	6 155	2 047	1 886	842	1 379
WITH SPECIFIED HEATING EQUIPMENT.	7 602	1 798	5 804	1 962	1 796	786	1 260
NO ADDITIONAL HEAT SOURCE USED.	7 167	1 747	5 420	1 877	1 682	724	1 136
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	388	38	350	70	101	62	117
NOT REPORTED.	47	13	34	14	13	-	7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	423	72	351	85	90	57	119
RENTER OCCUPIED	3 413	495	2 918	874	609	457	979
WITH SPECIFIED HEATING EQUIPMENT.	3 130	479	2 651	826	574	421	830
NO ADDITIONAL HEAT SOURCE USED.	2 807	453	2 354	782	502	368	702
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	276	15	261	33	63	46	119
NOT REPORTED.	47	11	36	11	9	8	9
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	282	16	267	48	35	35	149
ROOMS LACKING SPECIFIED HEAT SOURCE:							
OWNER OCCUPIED.	8 025	1 870	6 155	2 047	1 886	842	1 379
WITH SPECIFIED HEATING EQUIPMENT.	7 602	1 798	5 804	1 962	1 796	786	1 260
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	5 416	1 691	3 725	1 659	1 152	337	576
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 113	89	2 024	278	625	448	673
1 ROOM.	533	55	478	127	121	68	162
2 ROOMS	596	11	585	52	152	143	238
3 ROOMS OR MORE	984	23	961	99	353	237	273
NOT REPORTED.	73	17	56	26	18	1	11
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	423	72	351	85	90	57	119
RENTER OCCUPIED	3 413	495	2 918	874	609	457	979
WITH SPECIFIED HEATING EQUIPMENT.	3 130	479	2 651	826	574	421	830
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 714	399	1 315	534	261	162	358
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 354	70	1 283	276	302	250	456
1 ROOM.	478	38	439	84	95	84	177
2 ROOMS	537	24	513	137	122	100	154
3 ROOMS OR MORE	339	8	331	55	85	65	125
NOT REPORTED.	63	10	52	16	10	10	16
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	282	16	267	48	35	35	149

¹EXCLUDES 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: 1978--CONTINUED

(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	14 950	3 624	11 325	3 728	2 978	1 595	3 024
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS							
OWNER OCCUPIED	9 091	2 453	6 637	2 233	2 015	907	1 482
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	405	89	322	86	86	41	108
WITH SELECTED HEATING EQUIPMENT ¹	8 685	2 370	6 316	2 147	1 928	866	1 374
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	8 319	2 293	6 025	2 073	1 829	820	1 303
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	323	66	257	69	81	42	65
SOLAR HEATING EQUIPMENT	3	-	3	3	-	-	-
STOVE, BURNING WOOD OR COAL	80	24	55	13	16	6	21
FIREPLACE, BURNING WOOD OR COAL	45	10	34	11	13	3	6
PORTABLE ELECTRIC HEATER	103	20	83	23	27	15	18
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	-	7	2	2	2	2
OTHER	79	12	67	15	20	14	19
NOT REPORTED	6	-	6	2	3	1	-
NOT REPORTED	44	10	34	5	18	5	6
RENTER OCCUPIED	5 859	1 171	4 688	1 495	963	688	1 542
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	346	32	314	54	54	44	163
WITH SELECTED HEATING EQUIPMENT ¹	5 513	1 139	4 374	1 441	909	644	1 379
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 351	1 130	4 221	1 397	883	613	1 328
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	131	7	124	36	21	25	42
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-
STOVE, BURNING WOOD OR COAL	5	-	5	-	-	-	5
FIREPLACE, BURNING WOOD OR COAL	7	2	5	2	2	-	1
PORTABLE ELECTRIC HEATER	97	2	95	29	17	14	35
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	5	2	3	-	-	2	1
OTHER	16	1	15	7	2	5	1
NOT REPORTED	3	-	3	-	-	3	-
NOT REPORTED	31	2	29	8	6	6	9
AGE OF HEATING EQUIPMENT							
OWNER OCCUPIED	9 091	2 453	6 637	2 233	2 015	907	1 482
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	754	89	665	127	160	108	270
WITH SELECTED HEATING EQUIPMENT ²	8 337	2 364	5 972	2 107	1 855	799	1 212
LESS THAN 4 YEARS	1 549	1 045	504	129	185	70	121
4 TO 9 YEARS	2 189	1 254	936	418	224	113	182
10 TO 19 YEARS	2 291	26	2 265	1 394	410	161	301
20 TO 39 YEARS	1 667	1	1 667	83	920	351	313
40 YEARS OR MORE	174	-	174	-	3	19	151
DON'T KNOW	336	6	330	53	92	73	111
NOT REPORTED	130	33	97	31	21	12	33
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS							
OWNER OCCUPIED	9 091	2 453	6 637	2 233	2 015	907	1 482
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	754	89	665	127	160	108	270
WITH SELECTED HEATING EQUIPMENT ²	8 337	2 364	5 972	2 107	1 855	799	1 212
NO MAINTENANCE OR MODIFICATION	6 861	2 059	4 803	1 656	1 502	664	982
WITH MAINTENANCE OR MODIFICATION	1 352	273	1 079	421	334	125	198
NOT REPORTED	123	33	91	29	19	10	32
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT							
OWNER OCCUPIED	9 091	2 453	6 637	2 233	2 015	907	1 482
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	754	89	665	127	160	108	270
WITH SELECTED HEATING EQUIPMENT ²	8 337	2 364	5 972	2 107	1 855	799	1 212
NO MAINTENANCE CONTRACT	7 674	2 176	5 499	1 960	1 708	741	1 090
WITH MAINTENANCE CONTRACT	486	136	350	108	118	41	83
NOT REPORTED	177	53	124	39	29	17	39

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.²EXCLUDES 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: 1978--CONTINUED

(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	9 091	2 453	6 637	2 233	2 015	907	1 482		
NO HOT PIPED WATER	23	2	20	4	4	8	4		
WITH HOT PIPED WATER	9 068	2 451	6 617	2 229	2 011	899	1 478		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	8 858	2 410	6 449	2 166	1 963	880	1 439		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	71	12	60	21	16	9	14		
NOT REPORTED	132	28	104	42	29	10	23		
NOT REPORTED	-	-	-	-	-	-	-		
RENTER OCCUPIED	5 859	1 171	4 688	1 495	963	688	1 542		
NO HOT PIPED WATER	20	1	19	2	-	5	12		
WITH HOT PIPED WATER	5 839	1 170	4 669	1 494	963	683	1 529		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 726	1 143	4 583	1 475	943	668	1 497		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	34	11	23	6	2	7	8		
NOT REPORTED	74	14	60	12	18	7	23		
NOT REPORTED	-	-	-	-	-	-	-		
AIR CONDITIONING									
OWNER OCCUPIED	9 091	2 453	6 637	2 233	2 015	907	1 482		
WITH AIR CONDITIONING	3 224	1 104	2 120	842	679	255	343		
ROOM UNITS	1 128	120	1 009	241	354	163	251		
1	872	94	778	195	271	110	203		
2	217	17	200	40	75	47	38		
3	31	8	23	2	7	3	10		
4	4	-	4	2	2	1	-		
5 OR MORE	4	1	3	2	-	2	-		
CENTRAL SYSTEM	2 096	985	1 111	601	326	93	92		
WITH NO AIR CONDITIONING	5 866	1 349	4 517	1 391	1 336	652	1 139		
RENTER OCCUPIED	5 859	1 171	4 688	1 495	963	688	1 542		
WITH AIR CONDITIONING	1 623	650	973	501	216	111	146		
ROOM UNITS	932	240	693	300	166	95	132		
1	839	217	622	274	156	81	111		
2	75	17	58	25	6	11	17		
3	15	5	10	1	3	3	2		
4	3	2	2	-	-	-	2		
5 OR MORE	-	-	-	-	-	-	-		
CENTRAL SYSTEM	691	410	281	201	50	16	14		
WITH NO AIR CONDITIONING	4 236	521	3 715	994	748	577	1 396		
ALL OCCUPIED HOUSING UNITS	14 950	3 624	11 325	3 728	2 978	1 595	3 024		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS									
10 771	2 545	8 226	2 466	2 398	1 288	2 074			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
OWNER OCCUPIED	8 680	2 300	6 381	2 130	1 972	888	1 391		
ALL WINDOWS COVERED	1 462	643	820	279	214	98	229		
SOME WINDOWS COVERED	802	142	660	168	179	103	210		
NO WINDOWS COVERED	6 372	1 506	4 866	1 671	1 569	686	940		
NOT REPORTED	44	9	35	11	10	2	12		
RENTER OCCUPIED	2 090	245	1 845	336	426	400	682		
ALL WINDOWS COVERED	183	45	138	25	24	21	68		
SOME WINDOWS COVERED	162	11	151	25	23	19	84		
NO WINDOWS COVERED	1 622	157	1 465	261	351	344	509		
NOT REPORTED	124	33	91	25	28	16	22		
STORM DOORS									
OWNER OCCUPIED	8 680	2 300	6 381	2 130	1 972	888	1 391		
ALL DOORS COVERED	1 066	238	828	216	262	121	229		
SOME DOORS COVERED	829	225	605	182	193	73	157		
NO DOORS COVERED	6 714	1 820	4 894	1 712	1 505	689	988		
NOT REPORTED	71	16	55	19	13	6	17		
RENTER OCCUPIED	2 090	245	1 845	336	426	400	682		
ALL DOORS COVERED	135	12	124	10	27	19	67		
SOME DOORS COVERED	110	13	97	19	26	16	36		
NO DOORS COVERED	1 707	184	1 523	280	340	346	558		
NOT REPORTED	138	37	100	27	33	19	21		

¹LIMITED 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: 1978--CONTINUED

(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		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	8 680	2 300	6 381	2 130	1 972	888	1 391		
NO.	6 688	2 066	4 622	1 748	1 476	595	802		
DON'T KNOW	1 499	122	1 376	264	396	243	473		
NOT REPORTED	447	101	346	107	86	48	105		
	47	10	37	11	14	2	10		
RENTER OCCUPIED									
YES	2 090	245	1 845	336	426	400	682		
NO.	725	141	584	142	157	93	192		
DON'T KNOW	650	21	629	80	115	146	288		
NOT REPORTED	589	51	538	87	127	145	179		
	126	33	93	27	27	16	23		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED									
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS	8 680	2 300	6 381	2 130	1 972	888	1 391		
NO WINDOWS COVERED	6 372	1 506	4 866	1 671	1 569	686	940		
SOME OR ALL WINDOWS COVERED	2 264	785	1 479	447	392	201	439		
NONE ADDED OR INSTALLED	1 778	637	1 141	359	323	152	307		
SOME OR ALL ADDED OR INSTALLED	432	127	304	78	60	46	121		
NOT REPORTED	54	21	34	10	9	3	11		
NOT REPORTED	44	9	35	11	10	2	12		
STORM DOORS:									
NO DOORS COVERED	6 714	1 820	4 894	1 712	1 505	689	988		
SOME OR ALL DOORS COVERED	1 895	463	1 432	399	454	194	385		
NONE ADDED OR INSTALLED	1 574	374	1 200	341	377	163	318		
SOME OR ALL ADDED OR INSTALLED	229	77	151	38	50	27	36		
NOT REPORTED	92	12	81	19	27	3	31		
NOT REPORTED	71	16	55	19	13	6	17		
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION	1 499	122	1 376	264	396	243	473		
WITH ATTIC OR ROOF INSULATION	6 688	2 066	4 622	1 748	1 476	595	802		
NONE ADDED OR INSTALLED	5 894	1 822	4 072	1 556	1 316	517	684		
SOME OR ALL ADDED OR INSTALLED	569	163	406	126	120	62	98		
LESS THAN 3 INCHES ADDED	38	10	28	11	4	3	9		
3 TO 6 INCHES ADDED	261	64	197	61	62	25	49		
6 INCHES OR MORE ADDED	213	65	148	38	43	29	38		
DON'T KNOW	40	17	24	10	11	2	1		
NOT REPORTED	16	7	9	5	-	3	1		
NOT REPORTED	225	82	143	66	40	16	21		
DON'T KNOW	447	101	346	107	86	48	105		
NOT REPORTED	47	10	37	11	14	2	10		
WALL INSULATION:									
NONE ADDED OR INSTALLED	8 252	2 147	6 106	2 038	1 906	861	1 300		
SOME OR ALL ADDED OR INSTALLED	377	136	241	81	54	27	79		
NOT REPORTED	51	17	34	11	12	-	12		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:									
NONE ADDED OR INSTALLED	7 321	1 920	5 401	1 818	1 667	768	1 147		
SOME OR ALL ADDED OR INSTALLED	1 235	341	895	280	283	111	221		
DON'T KNOW	87	29	58	23	13	8	14		
NOT REPORTED	37	9	28	8	9	2	9		
OTHER INSULATION:									
NONE ADDED OR INSTALLED	8 286	2 168	6 118	2 019	1 899	861	1 339		
SOME OR ALL ADDED OR INSTALLED	344	120	225	102	59	22	41		
NOT REPORTED	51	12	38	9	13	5	11		

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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		YEAR STRUCTURE BUILT							
		APRIL 1970 OR LATER	MARCH 1970 OR EARLIER						
			TOTAL	TOTAL	1960 TO MARCH 1970	1950 TO 1959	1940 TO 1949		
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									
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:									
NO WINDOWS COVERED.	2 090	245	1 845	336	426	400	682		
SOME OR ALL WINDOWS COVERED	1 622	157	1 465	261	351	344	509		
NONE ADDED OR INSTALLED	344	56	289	50	47	40	152		
SOME OR ALL ADDED OR INSTALLED	251	44	207	42	39	32	94		
NOT REPORTED.	74	6	68	6	8	6	48		
NOT REPORTED.	20	5	14	2	1	2	10		
NOT REPORTED.	124	33	91	25	28	16	22		
STORM DOORS:									
NO DOORS COVERED.	1 707	184	1 523	280	340	346	558		
SOME OR ALL DOORS COVERED	245	24	221	30	54	35	103		
NONE ADDED OR INSTALLED	207	23	184	24	47	30	84		
SOME OR ALL ADDED OR INSTALLED	20	1	19	2	3	3	12		
NOT REPORTED.	19	1	18	4	4	2	8		
NOT REPORTED.	138	37	100	27	33	19	21		
ATTIC OR ROOF INSULATION:									
NO ATTIC OR ROOF INSULATION	650	21	629	80	115	146	288		
WITH ATTIC OR ROOF INSULATION	725	141	584	142	157	93	192		
NONE ADDED OR INSTALLED	646	123	523	134	139	86	165		
SOME OR ALL ADDED OR INSTALLED	49	14	35	5	7	2	21		
LESS THAN 3 INCHES ADDED	5	-	5	1	2	-	3		
3 TO 6 INCHES ADDED	10	-	10	-	3	1	6		
6 INCHES OR MORE ADDED	8	1	6	-	1	-	5		
DON'T KNOW.	21	11	10	2	2	2	5		
NOT REPORTED.	5	2	4	2	-	-	2		
NOT REPORTED.	30	4	26	4	11	5	6		
DON'T KNOW.	589	51	538	87	127	145	179		
NOT REPORTED.	126	33	93	27	27	16	23		
WALL INSULATION:									
NONE ADDED OR INSTALLED	1 905	200	1 705	302	390	367	646		
SOME OR ALL ADDED OR INSTALLED	28	6	22	2	4	10	6		
NOT REPORTED.	157	39	118	33	32	24	30		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:									
NONE ADDED OR INSTALLED	1 676	173	1 503	266	335	330	572		
SOME OR ALL ADDED OR INSTALLED	132	11	121	13	36	16	57		
DON'T KNOW.	161	28	133	31	31	37	34		
NOT REPORTED.	121	34	87	27	24	16	20		
OTHER INSULATION:									
NONE ADDED OR INSTALLED	1 922	203	1 719	298	392	378	651		
SOME OR ALL ADDED OR INSTALLED	25	5	20	8	4	1	8		
NOT REPORTED.	143	37	106	30	31	21	24		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS									
OWNER OCCUPIED.	8 680	2 300	6 381	2 130	1 972	888	1 391		
NO INSULATION ADDED OR INSTALLED.	6 334	1 661	4 673	1 565	1 463	681	964		
WITH INSULATION ADDED OR INSTALLED.	1 980	532	1 448	470	429	180	369		
LESS THAN \$50	854	236	618	195	188	69	166		
\$50 TO \$99.	203	58	144	53	40	19	32		
\$100 TO \$199.	163	56	108	24	27	22	34		
\$200 TO \$399.	198	41	157	45	56	21	35		
\$400 OR MORE.	244	57	187	71	42	24	50		
DON'T KNOW.	127	41	85	33	23	13	17		
NOT REPORTED.	191	42	148	49	53	12	35		
MEDIAN.	50-	50-	50-	50-	50-	72	50-		
NOT REPORTED OR DON'T KNOW.	366	107	260	94	80	27	59		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING									
LESS THAN \$50	165	42	123	35	18	11	59		
\$50 TO \$99.	74	19	55	11	6	3	36		
\$100 TO \$199.	17	3	14	5	3	1	5		
\$200 TO \$399.	16	5	11	3	-	2	6		
\$400 OR MORE.	13	5	7	3	4	-	-		
DON'T KNOW.	16	4	13	6	1	4	2		
NOT REPORTED.	7	5	2	2	-	-	-		
MEDIAN.	22	1	21	5	5	2	10		
	50-	50-	50-	...	...	...	50-

TABLE E-7. YEAR STRUCTURE BUILT BY FUEL, FUEL COST, HEATING, AIR CONDITIONING, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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									
LESS THAN \$50	87	22	64	15	26	12	11		
\$50 TO \$99.	18	2	16	1	5	6	4		
\$100 TO \$199.	36	7	29	9	13	6	2		
\$200 TO \$399.	17	8	9	2	4	-	3		
\$400 OR MORE.	1	1	-	-	-	-	-		
DON'T KNOW.	1	1	-	-	-	-	-		
NOT REPORTED.	12	3	9	3	5	-	1		
MEDIAN.	75	...	68	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION									
LESS THAN \$50	391	96	295	122	85	31	57		
\$50 TO \$99.	43	20	23	7	7	4	4		
\$100 TO \$199.	48	14	34	20	7	3	4		
\$200 TO \$399.	47	14	33	4	14	8	7		
\$400 OR MORE.	91	12	79	26	29	9	15		
DON'T KNOW.	84	10	74	37	11	5	21		
NOT REPORTED.	44	11	32	19	10	2	2		
MEDIAN.	35	15	20	9	7	-	4		
	239	105	279	323	236	...	342		

TABLE E-8. MONTHLY COST PAID FOR ELECTRICITY BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978
(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													NO ELECTRICITY USED OR NOT REPORTED ¹	MEDIAN (DOLLARS)
		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					
		\$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						
SPECIFIED OWNER OCCUPIED ²	7 371	323	2 099	2 075	1 298	577	415	344	107	93	35	6	25			
HOUSE HEATING FUEL																
ELECTRICITY	1 098	7	119	226	214	139	158	140	41	39	14	-	38			
OTHER THAN ELECTRICITY	6 159	314	1 973	1 830	1 064	409	242	183	64	52	21	6	24			
UTILITY GAS	5 489	274	1 752	1 618	968	359	218	171	59	48	20	2	24			
BOTTLED, TANK, OR LP GAS	120	6	25	32	21	14	8	7	3	2	1	-	28			
FUEL OIL	441	30	158	151	57	28	9	3	2	-	-	-	22			
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COAL OR COKE	-	-	2	-	2	-	-	-	-	-	-	-	23			
WOOD	100	3	37	29	16	7	5	2	1	-	-	-	24			
SOLAR HEAT	2	-	-	-	1	2	-	-	-	-	-	-	24			
OTHER FUEL	2	-	-	-	-	-	-	-	-	-	-	-	24			
NONE	114	2	7	19	19	28	15	21	2	2	-	-	43			
WATER HEATING FUEL ³																
ELECTRICITY	1 961	48	415	497	346	211	183	168	39	40	15	-	31			
OTHER FUEL	5 397	273	1 677	1 576	952	364	232	176	69	53	20	5	24			
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOKING FUEL																
ELECTRICITY	4 428	99	1 027	1 318	865	376	306	268	77	69	23	-	27			
OTHER FUEL	2 942	224	1 072	756	432	201	108	76	30	24	12	6	22			
NONE	2	-	-	2	-	-	-	-	-	-	-	-	24			
ALL ELECTRIC HOUSING UNITS																
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL	902	4	90	177	178	119	139	122	30	31	13	-	40			
ALL OTHER FUEL COMBINATIONS OR NONE	6 469	318	2 009	1 899	1 120	458	276	222	77	63	22	6	25			
HEATING EQUIPMENT																
WARM-AIR FURNACE	4 700	150	1 221	1 412	867	371	277	223	75	77	25	2	26			
HEAT PUMP	109	-	4	8	10	18	22	30	8	7	1	-	56			
STEAM OR HOT WATER	157	9	25	62	37	7	6	6	3	-	2	-	26			
BUILT-IN ELECTRIC UNITS	531	3	79	131	125	65	67	44	9	5	4	-	34			
FLOOR, WALL, OR PIPELESS FURNACE	1 330	117	594	336	185	61	16	13	5	2	2	-	18			
ROOM HEATERS WITH FLUE	216	26	68	51	27	11	3	2	3	2	2	-	18			
ROOM HEATERS WITHOUT FLUE	41	4	22	7	2	1	2	2	-	-	-	-	16			
FIREPLACES, STOVES, OR PORTABLE HEATERS	174	11	58	49	25	15	8	3	3	1	-	-	23			
NONE	114	2	7	19	19	28	15	21	2	2	-	-	43			
THERMOSTAT CONTROLLED HEATING EQUIPMENT																
NO HEATING EQUIPMENT	114	2	7	19	19	28	15	21	2	2	-	-	43			
WITH HEATING EQUIPMENT	7 257	321	2 092	2 056	1 278	549	400	323	106	91	35	6	25			
NO THERMOSTAT CONTROL	741	71	288	187	107	44	19	12	8	1	2	-	20			
WITH THERMOSTAT CONTROL	6 502	249	1 797	1 868	1 166	504	381	311	98	91	33	3	26			
NOT CLOCK OPERATED	5 559	218	1 534	1 614	990	414	343	265	88	63	28	1	26			
CONSTANT TEMPERATURE SETTING MAINTAINED	1 397	67	327	332	287	115	116	85	38	20	10	-	28			
TEMPERATURE SETTING IS CHANGED	4 142	150	1 202	1 275	702	297	226	181	49	41	19	1	25			
OCCASIONALLY	792	26	220	206	152	68	45	47	11	14	3	-	27			
REGULARLY	3 319	124	974	1 059	544	228	178	131	39	27	14	1	25			
DON'T KNOW	29	-	7	10	5	1	2	2	-	-	-	-	24			
NOT REPORTED	2	-	2	-	-	-	-	-	-	-	-	-	24			
CLOCK OPERATED	908	31	250	244	170	87	37	45	10	26	5	2	26			
NOT REPORTED	35	-	12	10	5	3	2	1	1	2	-	-	25			
NOT REPORTED	14	1	7	1	5	-	-	-	-	-	-	-	24			
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	288	13	64	68	45	43	22	25	4	2	-	1	29			
WITH SELECTED HEATING EQUIPMENT	7 083	310	2 034	2 007	1 253	533	392	320	103	91	35	5	25			
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 781	303	1 967	1 905	1 195	504	376	306	100	88	32	-	26			
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	264	5	60	95	46	26	14	11	3	1	2	-	26			
SOLAR HEATING EQUIPMENT	3	-	-	1	2	1	-	-	-	-	-	-	27			
STOVE, BURNING WOOD OR COAL	63	-	10	26	9	7	6	4	1	1	-	-	30			
FIREPLACE, BURNING WOOD OR COAL	35	-	9	8	8	4	3	1	2	-	-	-	23			
PORTABLE ELECTRIC HEATER	79	1	30	27	8	11	1	1	1	-	-	-	23			
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE	7	-	3	2	-	-	-	-	-	-	-	-	27			
OTHER	75	4	12	27	19	4	4	3	1	1	2	2	27			
NOT REPORTED	4	-	2	1	1	-	-	-	-	-	-	-	33			
NOT REPORTED	38	2	7	7	11	3	2	2	2	2	2	2	21			
AGE OF HEATING EQUIPMENT																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	545	43	175	127	75	55	28	28	8	2	2	4	24			
WITH SELECTED HEATING EQUIPMENT	6 826	280	1 924	1 949	1 223	522	387	316	100	91	33	2	26			
LESS THAN 4 YEARS	1 244	27	278	305	245	117	104	105	26	24	13	2	28			
4 TO 9 YEARS	1 574	35	321	459	309	125	140	104	46	26	7	2	28			
10 TO 19 YEARS	1 928	63	537	576	352	164	98	78	19	33	8	21	21			
20 TO 39 YEARS	1 578	113	596	481	245	77	30	19	6	6	6	21	18			
40 YEARS OR MORE	156	22	67	33	14	15	2	2	2	2	2	-	21			
DON'T KNOW	295	18	117	78	46	17	10	5	3	3	3	-	21			
NOT REPORTED	51	2	8	16	12	7	3	3	-	-	-	-	29			

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: 1978--CONTINUED
(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												NO. ELEC- TRICITY USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)			
		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							
		\$19	\$29	\$39	\$49	\$59	\$79	\$99	\$149									
SPECIFIED OWNER OCCUPIED²--CONTINUED																		
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS																		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	545	43	175	127	75	55	28	28	8	2	2			4	24			
WITH SELECTED HEATING EQUIPMENT.	6 826	280	1 924	1 949	1 223	522	387	316	100	91	33			2	26			
NO MAINTENANCE OR MODIFICATION.	5 635	248	1 607	1 591	1 037	411	317	254	75	70	24			2	25			
WITH MAINTENANCE OR MODIFICATION.	1 142	30	306	345	176	104	67	59	25	20	9			-	26			
NOT REPORTED.	49	2	10	13	10	7	3	3	-	2	-			-	29			
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT																		
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	545	43	175	127	75	55	28	28	8	2	2			4	24			
WITH SELECTED HEATING EQUIPMENT ³	6 826	280	1 924	1 949	1 223	522	387	316	100	91	33			2	26			
NO MAINTENANCE CONTRACT.	6 342	262	1 798	1 827	1 133	477	357	284	90	83	29			2	25			
WITH MAINTENANCE CONTRACT.	397	16	101	102	71	39	25	24	10	6	3			-	27			
NOT REPORTED.	87	2	24	20	19	6	5	8	-	2	2			-	28			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																		
NO HOT PIPED WATER.	13	1	7	2	-	1	-	-	-	-	-			1	**			
WITH HOT PIPED WATER.	7 358	321	2 092	2 073	1 298	575	415	344	107	93	35			3	25			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	7 191	312	2 056	2 022	1 257	562	406	341	107	91	35			-	25			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴	65	2	11	21	19	2	6	1	1	2	-			-	28			
NOT REPORTED.	100	8	24	29	21	11	3	2	-	-	-			2	25			
NOT REPORTED.																		
AIR CONDITIONING																		
WITH AIR CONDITIONING	2 459	37	417	580	536	255	238	229	75	73	20			-	33			
ROOM UNITS.	925	31	279	286	222	58	24	19	3	2	2			-	25			
1	714	29	236	218	159	41	15	11	3	2	2			-	24			
2	185	-	43	60	53	14	7	8	-	-	-			-	27			
3	19	2	-	6	9	2	-	-	-	-	-			-	**			
4	3	-	-	-	2	-	2	-	-	-	-			-	**			
5 OR MORE	3	-	-	-	2	-	2	-	-	-	-			-	**			
CENTRAL SYSTEM.	1 535	6	138	294	314	197	214	210	73	70	19			-	41			
WITH NO AIR CONDITIONING.	4 912	286	1 682	1 495	762	322	177	115	32	20	15			6	23			
PERSONS																		
1 PERSON.	889	150	383	209	66	36	22	16	2	-	2			2	17			
2 PERSONS.	2 358	113	818	686	355	154	96	81	23	20	11			1	23			
3 PERSONS.	1 371	39	353	409	262	111	84	71	27	14	2			2	26			
4 PERSONS.	1 501	12	336	435	327	126	112	90	20	36	4			3	28			
5 PERSONS.	742	6	138	224	162	70	66	38	18	12	8			1	30			
6 PERSONS.	315	2	49	74	81	42	20	25	11	11	2			2	34			
7 PERSONS OR MORE.	196	1	22	39	45	38	15	22	6	7	-			7	37			
MEDIAN.	2.8	1.6	2.3	2.8	3.4	3.4	3.5	3.5	3.6	3.8	***			***	***			
SPECIFIED OWNER OCCUPIED ²																		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 371	323	2 099	2 075	1 298	577	415	344	107	93	35			6	25			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	7 371	323	2 099	2 075	1 298	577	415	344	107	93	35			6	25			
ALL WINDOWS COVERED.	1 116	45	289	320	210	88	69	59	9	14	11			1	26			
SOME WINDOWS COVERED.	679	32	193	210	102	48	38	34	7	9	6			-	25			
NO WINDOWS COVERED.	5 546	246	1 606	1 537	981	438	307	249	91	70	18			5	25			
NOT REPORTED.	29	-	11	8	5	3	1	2	-	-	-			-	**			
STORM DOORS																		
ALL DOORS COVERED.	894	46	296	286	134	65	28	27	1	6	5			1	23			
SOME DOORS COVERED.	703	35	195	233	145	52	21	13	2	3	2			2	25			
NO DOORS COVERED.	5 720	240	1 592	1 539	1 010	457	363	301	104	84	25			5	26			
NOT REPORTED.	55	2	16	18	9	2	3	3	-	-	2			-	25			
ATTIC OR ROOF INSULATION																		
YES.	5 636	179	1 458	1 614	1 043	470	363	304	93	79	30			2	27			
NO.	1 352	118	531	347	186	78	43	30	6	5	3			4	21			
DON'T KNOW.	353	24	96	109	63	27	8	9	7	9	2			-	25			
NOT REPORTED.	30	2	13	6	5	2	1	2	-	-	-			-	**			
SPECIFIED RENTER OCCUPIED ³																		
HOUSE HEATING FUEL	5 785	1 108	1 792	927	423	157	74	73	15	11	10			1 194	16			
ELECTRICITY	1 454	173	353	279	170	78	36	35	9	8	2			312	21			
OTHER THAN ELECTRICITY.	4 111	910	1 397	612	234	68	36	32	5	3	8			805	15			
UTILITY GAS	3 703	826	1 297	567	210	56	27	31	5	3	8			673	15			
BOTTLED, TANK, OR LP GAS.	94	7	31	13	5	7	5	1	-	-	-			25	18			
FUEL OIL.	205	56	48	25	15	3	3	-	-	-	-			56	14			
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-			-	-			
COAL OR COKE.	9	5	3	1	-	-	-	-	-	-	-			-	-			
WOOD.	44	6	18	7	3	1	1	-	-	-	-			6	16			
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-	-			-	-			
OTHER FUEL.	56	10	41	35	19	12	2	6	1	-	-			46	**			
None.	219	25	-	-	-	-	-	-	-	-	-			77	21			

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: 1978--CONTINUED
(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													MEDIAN (DOL- LARS)	
		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 ELEC- TRICITY USED OR NOT REPORTED ¹				
SPECIFIED RENTER OCCUPIED²--CONTINUED																
WATER HEATING FUEL³																
ELECTRICITY	1 729	169	455	349	214	84	39	38	8	6	2	364	21			
OTHER FUEL	4 035	935	1 333	574	208	72	36	35	7	5	8	820	15			
NONE.	3	2	2	-	-	-	-	-	-	1	1	-	***			
COOKING FUEL																
ELECTRICITY	2 817	466	765	500	272	116	56	48	11	10	7	567	18			
OTHER FUEL	2 915	640	1 026	427	151	41	19	25	4	2	3	579	15			
NONE.	52	2	2	-	-	-	-	1	-	-	-	49	***			
ALL ELECTRIC HOUSING UNITS																
WITH ELECTRIC HOUSE HEATING, WATER HEATING, AND COOKING FUEL.	1 117	92	265	243	148	58	30	29	7	6	2	237	23			
ALL OTHER FUEL COMBINATIONS OR NONE	4 667	1 016	1 527	683	275	99	45	44	8	5	8	957	15			
HEATING EQUIPMENT																
WARM-AIR FURNACE.	1 626	246	484	310	152	58	34	33	10	10	7	281	18			
HEAT PUMP	30	-	2	3	4	2	3	5	1	-	-	11	**			
STEAM OR HOT WATER.	390	101	71	11	1	2	-	1	-	-	-	202	10-			
BUILT-IN ELECTRIC UNITS	1 075	147	289	207	118	49	20	13	1	1	1	229	19			
FLOOR, WALL, OR PIPELESS FURNACE.	1 795	448	708	266	89	23	8	10	2	-	3	238	14			
ROOM HEATERS WITH FLUE.	447	105	137	60	23	3	4	2	1	-	-	113	14			
ROOM HEATERS WITHOUT FLUE	97	21	27	20	7	5	2	-	-	-	-	15	17			
FIREPLACES, STOVES, OR PORTABLE HEATERS	106	14	33	13	9	3	1	-	-	-	-	28	17			
NONE.	219	25	41	35	19	12	2	6	1	-	-	77	21			
THERMOSTAT CONTROLLED HEATING EQUIPMENT																
NO HEATING EQUIPMENT.	219	25	41	35	19	12	2	6	1	-	-	77	21			
WITH HEATING EQUIPMENT.	5 565	1 083	1 751	892	403	145	72	67	15	11	10	1 117	16			
NO THERMOSTAT CONTROL	1 706	410	499	210	81	26	13	13	1	2	2	450	14			
WITH THERMOSTAT CONTROL	3 851	672	1 248	680	321	120	59	53	14	9	9	667	17			
NOT CLOCK OPERATED	3 418	619	1 113	591	275	104	47	48	12	6	5	597	16			
CONSTANT TEMPERATURE SETTING MAINTAINED	1 047	198	335	156	76	28	9	25	6	3	2	209	16			
TEMPERATURE SETTING IS CHANGED	2 341	416	766	433	193	76	38	23	7	3	3	383	17			
OCCASIONALLY	592	115	208	88	50	20	8	6	-	2	2	95	16			
REGULARLY	1 716	299	553	337	143	56	28	17	5	3	2	274	17			
DON'T KNOW	32	2	5	8	-	-	2	-	-	-	-	13	**			
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-			
NOT REPORTED	31	6	12	2	6	-	-	-	-	-	-	5	**			
CLOCK OPERATED	419	53	130	87	45	15	12	5	2	3	3	63	19			
NOT REPORTED	14	-	5	2	1	-	-	-	-	-	-	7	**			
NOT REPORTED	8	-	4	2	2	-	-	1	-	-	-	-	**			
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	325	39	74	49	29	15	4	10	1	-	-	105	19			
WITH SELECTED HEATING EQUIPMENT ⁴	5 460	1 068	1 718	878	394	142	71	63	15	11	10	1 089	16			
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 301	1 045	1 650	852	382	141	70	59	14	11	10	1 065	16			
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	128	21	58	22	7	1	1	2	-	-	-	15	16			
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-			
STOVE, BURNING WOOD OR COAL	5	-	2	2	2	-	-	-	-	-	-	-	-			
FIREPLACE, BURNING WOOD OR COAL	7	-	4	3	-	-	-	-	-	-	-	-	-			
PORTABLE ELECTRIC HEATER	96	18	47	12	4	1	1	2	1	-	-	11	15			
ROOM HEATER WITHOUT FLUE OR VENT	-	-	-	-	-	-	-	-	-	-	-	-	-			
BURNING GAS, OIL, OR KEROSENE	4	-	2	2	-	-	-	-	-	-	-	-	-			
OTHER	15	3	4	2	2	-	-	-	-	-	-	4	**			
NOT REPORTED	3	-	-	2	2	-	-	-	-	-	-	9	**			
NOT REPORTED	30	2	10	4	4	-	-	2	-	-	-	-	-			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																
NO HOT PIPED WATER.	17	2	2	3	-	-	-	-	-	-	-	10	**			
WITH HOT PIPED WATER.	5 768	1 106	1 790	924	423	157	74	73	15	11	10	1 184	16			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 656	1 082	1 758	901	414	153	74	73	15	11	10	1 163	16			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁵	34	10	11	6	3	-	-	-	-	-	-	4	**			
NOT REPORTED	73	13	18	17	5	4	-	-	-	-	-	17	18			
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-			
AIR CONDITIONING																
WITH AIR CONDITIONING	1 607	205	470	296	180	86	41	47	15	8	3	256	20			
ROOM UNITS	922	138	333	177	97	43	13	12	2	-	-	106	17			
1	831	133	312	154	79	35	9	8	2	-	-	98	17			
2	73	4	16	19	17	6	3	2	-	-	-	6	26			
3	14	2	1	3	-	2	2	2	-	-	-	3	**			
4	3	-	3	-	-	-	-	-	-	-	-	-	-			
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-	-			
CENTRAL SYSTEM	685	67	136	119	83	43	28	35	12	8	3	150	25			
WITH NO AIR CONDITIONING	4 178	902	1 322	631	243	71	33	27	1	3	7	938	15			
PERSONS																
1 PERSON	2 126	597	579	200	78	31	6	12	-	1	2	620	12			
2 PERSONS	1 657	281	593	297	122	48	22	15	3	-	2	275	16			
3 PERSONS	907	127	309	185	81	25	21	19	-	2	2	137	18			
4 PERSONS	589	58	182	129	78	31	13	6	4	-	2	85	21			
5 PERSONS	274	25	76	57	40	11	7	2	5	-	2	46	22			
6 PERSONS	112	10	27	34	8	5	6	9	3	-	1	11	24			
7 PERSONS OR MORE	119	11	27	25	16	6	4	6	3	-	2	20	24			
MEDIAN	2.0	1.5	2.0	2.4	2.6	2.5	2.9	3.0	**	**	**	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: 1978--CONTINUED
(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												NO. ELECTRICITY USED OR NOT REPORTED ¹	MEDIAN (DOLLARS)
		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				
SPECIFIED RENTER OCCUPIED ²	5 785	1 108	1 792	927	423	157	74	73	15	11	10	1 194	16		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 016	229	660	449	219	80	51	56	14	8	7	243	19		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING															
ALL WINDOWS COVERED	168	19	43	34	24	8	10	4	-	-	-	27	22		
SOME WINDOWS COVERED	149	19	40	42	25	1	3	1	1	2	2	13	22		
NO WINDOWS COVERED	1 575	178	536	352	163	66	34	51	13	6	5	171	19		
NOT REPORTED	123	13	41	21	7	6	3	-	-	-	-	32	17		
STORM DOORS															
ALL DOORS COVERED	124	13	32	38	16	4	1	1	-	1	-	18	22		
SOME DOORS COVERED	100	11	31	27	9	1	6	-	-	-	-	15	19		
NO DOORS COVERED	1 655	189	554	360	186	70	39	53	14	7	7	177	19		
NOT REPORTED	137	16	42	23	8	6	5	2	-	-	-	33	18		
ATTIC OR ROOF INSULATION															
YES	685	61	201	155	88	33	30	28	6	6	2	76	22		
NO	631	82	214	139	65	21	14	18	3	2	3	71	18		
DON'T KNOW	575	74	201	135	59	21	4	9	5	1	2	64	18		
NOT REPORTED	125	13	44	20	6	6	3	-	-	-	-	32	17		

¹RENTER HOUSEHOLDS WITH ELECTRICITY COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)
		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				
SPECIFIED OWNER OCCUPIED ²	7 371	959	1 382	1 118	843	568	627	256	152	31	18	1 417	17		
HOUSE HEATING FUEL															
GAS	5 609	871	1 296	1 071	808	535	601	240	140	31	16	-	-	17	
UTILITY GAS	5 489	857	1 284	1 061	793	522	578	227	128	26	14	-	-	17	
BOTTLED, TANK, OR LP GAS	120	14	13	10	16	13	24	13	12	5	2	-	-	27	
OTHER THAN GAS	1 648	75	76	42	32	33	22	16	12	1	3	1 337	15		
FUEL OIL	441	10	3	5	6	5	3	2	-	-	-	407	..		
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	-	-		
ELECTRICITY	1 098	54	64	29	21	28	16	11	12	1	2	859	15		
COAL OR COKE	5	-	1	-	-	-	-	-	-	-	-	4	..		
WOOD	100	12	8	5	4	1	3	3	-	-	1	64	14		
SOLAR HEAT	2	-	-	2	-	-	-	-	-	-	-	-	-	..	
OTHER FUEL	2	-	-	-	-	-	-	-	-	-	-	2	..		
NONE	114	13	10	5	3	-	3	-	-	-	-	80	..		
WATER HEATING FUEL ³															
GAS	5 369	874	1 308	1 051	761	501	505	200	128	25	16	-	-	17	
UTILITY GAS	5 263	864	1 294	1 039	742	492	486	188	120	24	14	-	-	17	
BOTTLED, TANK, OR LP GAS	106	10	14	13	19	9	19	12	8	1	2	-	-	23	
OTHER FUEL	1 989	82	73	67	82	68	121	55	24	7	3	1 409	23		
NONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COOKING FUEL															
GAS	2 918	648	870	566	342	197	186	57	39	7	7	-	-	14	
UTILITY GAS	2 812	624	853	553	326	190	170	50	34	6	5	-	-	14	
BOTTLED, TANK, OR LP GAS	106	23	17	13	16	7	15	7	5	1	2	-	-	19	
OTHER FUEL	4 452	312	513	551	502	371	441	199	113	25	11	1 416	21		
NONE	2	-	-	1	-	-	-	-	-	-	-	1	..		
ALL GAS HOUSING UNITS															
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 719	594	818	535	323	183	168	52	33	7	7	-	-	14	
ALL OTHER FUEL COMBINATIONS OR NONE	4 652	366	564	583	520	386	459	204	118	25	11	1 417	21		
HEATING EQUIPMENT															
WARM-AIR FURNACE	4 700	485	838	806	639	456	501	211	116	23	8	619	19		
HEAT PUMP	109	12	9	1	-	-	2	3	1	-	-	81	..		
STEAM OR HOT WATER	157	1	6	8	29	18	30	16	16	5	5	22	32		
BUILT-IN ELECTRIC UNITS	531	17	13	11	10	7	2	-	7	-	-	465	16		
FLOOR, WALL, OR PIPELESS FURNACE	1 330	352	441	238	122	59	61	11	6	3	4	32	13		
ROOM HEATERS WITH FLUE	216	42	42	30	30	28	15	-	-	-	-	24	17		
ROOM HEATERS WITHOUT FLUE	41	15	7	10	2	2	2	2	-	1	-	2	13		
FIREPLACES, STOVES, OR PORTABLE HEATERS	174	29	16	9	8	3	11	8	2	-	-	92	16		
NONE	114	13	10	5	3	-	3	-	-	-	-	80	..		
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT	114	13	10	5	3	-	3	-	-	-	-	80	..		
WITH HEATING EQUIPMENT	7 257	946	1 372	1 113	840	568	623	256	152	31	18	1 337	17		
NO THERMOSTAT CONTROL	741	177	177	110	53	33	35	8	7	2	2	137	13		
WITH THERMOSTAT CONTROL	6 502	767	1 194	1 001	787	535	588	247	145	30	16	1 192	18		
NOT CLOCK OPERATED	5 559	661	1 008	843	668	459	518	210	130	22	13	1 029	18		
CONSTANT TEMPERATURE SETTING MAINTAINED	1 397	209	265	207	140	116	137	48	36	5	2	233	17		
TEMPERATURE SETTING IS CHANGED	4 142	449	737	635	524	342	380	162	94	17	11	793	18		
OCCASIONALLY	792	110	168	118	77	56	74	29	25	2	2	130	17		
REGULARLY	3 319	334	558	512	445	284	302	133	69	15	7	659	18		
DON'T KNOW	29	4	9	4	2	2	3	-	-	-	-	3	..		
NOT REPORTED	2	-	2	-	-	-	-	-	-	-	-	1	..		
CLOCK OPERATED	908	105	178	147	114	73	67	37	14	8	2	162	17		
NOT REPORTED	35	2	8	10	5	3	3	-	1	-	2	2	..		
NOT REPORTED	14	2	2	2	-	-	1	-	-	-	-	8	..		
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	288	37	26	14	12	3	14	8	2	-	1	172	13		
WITH SELECTED HEATING EQUIPMENT ⁴	7 083	922	1 356	1 104	832	565	613	247	150	31	17	1 245	17		
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	6 781	898	1 308	1 065	799	538	585	240	147	29	17	1 153	17		
SOLAR HEATING EQUIPMENT	264	21	42	32	30	27	24	7	3	2	-	75	19		
STOVE, BURNING WOOD OR COAL	63	1	1	5	6	3	5	3	-	-	-	35	..		
FIREPLACE, BURNING WOOD OR COAL	35	-	4	2	7	2	7	2	-	-	-	10	..		
PORTABLE ELECTRIC HEATER	79	13	16	12	9	11	8	1	-	1	-	9	17		
ROOM HEATER WITHOUT FLUE OR VENT	7	2	-	2	2	-	-	-	-	-	-	-	-	..	
BURNING GAS, OIL, OR KEROSENE	75	6	16	10	6	10	3	2	2	2	2	18	17		
OTHER	4	-	1	1	-	-	-	-	-	-	-	2	..		
NOT REPORTED	38	3	6	6	3	-	3	-	-	-	-	17	..		
AGE OF HEATING EQUIPMENT															
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	545	94	75	55	43	29	31	14	6	-	1	197	15		
WITH SELECTED HEATING EQUIPMENT ²	6 826	866	1 307	1 063	800	539	595	241	146	31	17	1 220	17		
LESS THAN 4 YEARS	1 244	149	211	159	119	102	89	38	29	4	2	343	17		
4 TO 9 YEARS	1 574	160	226	248	201	139	192	55	41	5	5	303	20		
10 TO 19 YEARS	1 928	211	330	332	268	179	188	88	51	12	5	265	19		
20 TO 39 YEARS	1 578	245	421	239	171	80	90	44	15	8	5	242	14		
40 YEARS OR MORE	156	23	51	23	15	9	3	14	3	-	-	14	14		
DON'T KNOW	295	57	62	57	22	21	28	2	6	-	-	39	16		
NOT REPORTED	51	1	6	5	4	9	5	2	2	3	-	15	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 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: 1978--CONTINUED
(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												MEDIAN (DOL- LARS)		
		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				
SPECIFIED OWNER OCCUPIED²--CONTINUED																
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	545	94	75	55	43	29	31	14	6	-	1	197	15			
WITH SELECTED HEATING EQUIPMENT ³	6 826	866	1 307	1 063	800	539	595	241	146	31	17	1 220	17			
NO MAINTENANCE OR MODIFICATION	5 635	752	1 144	906	659	431	484	176	106	22	14	942	17			
WITH MAINTENANCE OR MODIFICATION	1 142	107	157	155	139	100	109	63	39	7	4	263	21			
NOT REPORTED	49	7	6	3	1	9	2	2	1	3	-	15	---			
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT																
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	545	94	75	55	43	29	31	14	6	-	1	197	15			
WITH SELECTED HEATING EQUIPMENT ³	6 826	866	1 307	1 063	800	539	595	241	146	31	17	1 220	17			
NO MAINTENANCE CONTRACT	6 342	801	1 225	1 017	762	498	558	222	140	25	16	1 079	17			
WITH MAINTENANCE CONTRACT	397	54	62	41	25	31	34	17	5	4	2	122	17			
NOT REPORTED	87	11	20	6	13	11	3	2	-	3	-	18	17			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																
NO HOT PIPED WATER	13	4	1	-	-	-	-	1	-	-	-	7	---			
WITH HOT PIPED WATER	7 358	956	1 381	1 118	843	568	627	254	152	31	18	1 409	17			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	7 191	934	1 343	1 087	827	558	616	245	149	30	18	1 384	17			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴	65	11	11	10	6	5	3	4	3	-	-	12	17			
NOT REPORTED	100	12	28	20	10	6	7	5	-	2	-	11	16			
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-			
AIR CONDITIONING																
WITH AIR CONDITIONING	2 459	399	447	380	278	166	205	73	61	4	2	443	17			
ROOM UNITS	925	193	197	138	109	53	57	18	9	-	-	151	14			
1	714	139	142	117	84	44	45	14	4	-	-	125	15			
2	185	50	43	19	23	9	6	4	3	-	-	25	13			
3	19	-	12	2	1	-	4	-	-	-	-	---	---			
4	3	2	-	-	-	-	-	-	-	-	-	---	---			
5 OR MORE	3	2	-	-	2	-	-	-	-	-	-	---	---			
CENTRAL SYSTEM	1 535	206	251	242	169	114	148	55	52	4	2	293	18			
WITH NO AIR CONDITIONING	4 912	561	935	738	565	402	421	183	91	28	16	973	16			
PERSONS																
1 PERSON	889	196	188	114	73	65	57	17	6	3	2	167	14			
2 PERSONS	2 358	345	477	362	242	158	160	68	30	6	2	508	16			
3 PERSONS	1 371	165	270	223	168	95	132	40	30	6	3	241	17			
4 PERSONS	1 501	142	261	263	179	134	140	61	38	3	2	277	18			
5 PERSONS	742	67	109	98	113	65	86	44	25	8	5	120	21			
6 PERSONS	315	22	52	38	35	36	33	18	16	4	2	58	22			
7 PERSONS OR MORE	196	22	26	20	34	14	18	7	7	1	2	46	21			
MEDIAN	2.8	2.3	2.6	2.9	3.1	3.1	3.2	3.5	3.8	---	---	2.6	---			
SPECIFIED OWNER OCCUPIED²																
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 371	959	1 382	1 118	843	568	627	256	152	31	18	1 417	17			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	7 371	959	1 382	1 118	843	568	627	256	152	31	18	1 417	17			
ALL WINDOWS COVERED	1 116	61	85	79	121	124	130	65	32	4	2	414	25			
SOME WINDOWS COVERED	679	25	45	57	72	60	94	39	13	3	2	258	25			
NO WINDOWS COVERED	5 546	866	1 246	974	650	385	401	151	106	23	13	731	16			
NOT REPORTED	29	8	5	7	1	-	2	1	-	2	-	4	---			
STORM DOORS																
ALL DOORS COVERED	894	27	68	71	127	102	129	54	23	4	2	287	25			
SOME DOORS COVERED	703	11	47	70	82	89	100	42	15	2	6	239	26			
NO DOORS COVERED	5 720	914	1 259	966	631	375	394	160	114	21	10	875	16			
NOT REPORTED	55	8	7	10	3	2	3	1	-	5	-	16	17			
ATTIC OR ROOF INSULATION																
YES	5 636	629	933	808	678	467	536	221	136	21	15	1 192	18			
NO	1 352	259	376	245	115	69	65	29	12	3	2	176	14			
DON'T KNOW	353	65	68	58	49	32	24	4	3	6	2	43	17			
NOT REPORTED	30	7	6	7	1	-	2	1	-	2	-	6	---			
SPECIFIED RENTER OCCUPIED																
HOUSE HEATING FUEL ³																
GAS	3 797	1 313	679	369	180	103	97	36	35	7	3	974	11			
UTILITY GAS	3 703	1 304	666	358	172	97	90	28	26	5	2	954	10			
BOTTLED, TANK, OR LP GAS	94	9	13	11	8	6	7	6	9	2	2	19	22			
OTHER THAN GAS	1 768	151	40	15	8	8	7	1	1	2	-	1 535	10-			
FUEL OIL	205	13	3	-	3	1	-	1	-	-	-	185	---			
KEROSENE, ETC	-	-	-	-	-	-	-	-	-	-	-	-	-			
ELECTRICITY	1 454	126	31	13	4	7	5	-	1	2	-	1 265	10-			
COAL OR COKE	9	-	-	1	-	-	-	-	-	-	-	8	---			
WOOD	44	6	6	2	1	1	2	-	-	-	-	27	---			
SOLAR HEAT	-	-	-	-	-	-	-	-	-	-	-	-	-			
OTHER FUEL	56	6	-	-	-	-	-	-	-	-	-	49	---			
NONE	219	43	14	6	5	2	2	-	-	-	-	146	10-			

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.

³EXCLUDES ROOM HEATERS WITH OR WITHOUT FLUE OR VENT, FIREPLACES, STOVES, AND PORTABLE HEATERS.

⁴LIMITED TO HOUSEHOLDS REPORTING USE OF A PRIMARY WATER HEATING FUEL OTHER THAN SOLAR HEAT.

⁵EXCLUDES 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: 1978--CONTINUED
(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)		
		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						
SPECIFIED RENTER OCCUPIED²--CONTINUED																	
WATER HEATING FUEL³																	
GAS	3 931	1 411	682	352	160	93	81	30	30	7	3	1 081	10				
UTILITY GAS	3 852	1 404	672	342	154	89	71	23	21	5	2	1 069	10-				
BOTTLED, TANK, OR LP GAS.	79	7	10	10	6	5	10	6	9	2	2	12	25				
OTHER FUEL	1 834	91	49	35	32	20	25	7	6	2	-	1 566	14				
NONE	3	2	2	-	-	-	-	-	-	-	-	-	-	-	---		
COOKING FUEL																	
GAS	2 906	1 177	534	256	119	45	46	26	23	4	3	672	10-				
UTILITY GAS	2 803	1 157	522	244	110	39	36	19	15	3	2	656	10-				
BOTTLED, TANK, OR LP GAS.	103	20	11	12	9	6	9	7	9	1	2	16	19				
OTHER FUEL	2 827	330	199	134	74	69	61	10	13	6	-	1 930	12				
NONE	52	-	-	-	-	-	-	-	-	-	-	52	-	-	-		
ALL GAS HOUSING UNITS																	
WITH GAS HOUSE HEATING, WATER HEATING, AND COOKING FUEL	2 555	1 015	489	238	102	36	42	26	21	4	3	580	10-				
ALL OTHER FULL COMBINATIONS OR NONE	3 229	1 491	244	154	91	78	65	11	15	6	-	2 076	12				
HEATING EQUIPMENT																	
WARM-AIR FURNACE	1 626	367	226	142	76	64	63	17	23	8	2	638	12				
HEAT PUMP	30	3	2	-	-	-	-	-	-	-	-	25	25				
STEAM OR HOT WATER	390	40	5	2	6	-	-	1	1	-	-	335	10-				
BUILT-IN ELECTRIC UNITS	1 075	82	14	6	2	3	4	-	-	-	-	964	10-				
FLOOR, WALL, OR PIPELESS FURNACE	1 795	785	358	180	79	26	25	11	8	-	-	321	10-				
ROOM HEATERS WITH FLUE	447	136	78	41	20	16	7	6	4	1	-	139	11				
ROOM HEATERS WITHOUT FLUE	97	36	25	9	1	2	2	1	1	-	-	20	10				
FIREPLACES, STOVES, OR PORTABLE HEATERS	106	15	12	5	3	1	2	1	1	1	-	66	12				
NONE	219	43	14	6	5	2	2	-	-	-	-	146	10-				
THERMOSTAT CONTROLLED HEATING EQUIPMENT																	
NO HEATING EQUIPMENT	219	43	14	6	5	2	2	-	-	-	-	146	10-				
WITH HEATING EQUIPMENT	5 565	1 464	719	384	188	112	104	37	36	9	3	2 509	10				
NO THERMOSTAT CONTROL	1 706	542	218	101	46	17	10	13	7	2	2	749	10-				
WITH THERMOSTAT CONTROL	3 851	922	499	282	142	93	94	23	28	8	2	1 757	11				
NOT CLOCK OPERATED	3 418	822	434	252	120	86	84	19	22	8	2	1 570	11				
CONSTANT TEMPERATURE SETTING MAINTAINED	1 047	261	132	83	22	23	24	5	10	3	-	483	11				
TEMPERATURE SETTING IS CHANGED	2 341	555	300	169	96	61	60	14	11	5	1	1 069	11				
OCCASIONALLY	592	168	78	39	17	10	11	1	3	-	-	264	10-				
REGULARLY	1 716	380	214	128	79	50	49	14	8	5	-	790	12				
DON'T KNOW	32	7	2	-	-	-	-	-	-	-	-	15	---				
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NOT REPORTED	31	6	2	-	-	2	2	-	-	-	-	1	19	---			
CLOCK OPERATED	419	100	63	28	22	7	9	4	7	-	-	179	11				
NOT REPORTED	14	-	2	2	1	-	2	-	1	-	-	8	8	---			
NOT REPORTED	8	-	2	1	-	2	-	1	1	-	-	2	2	---			
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS																	
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	325	58	26	11	8	3	4	1	1	-	-	212	10-				
WITH SELECTED HEATING EQUIPMENT	5 460	1 449	707	380	185	111	102	36	35	9	3	2 443	10				
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	5 301	1 421	679	366	177	104	98	34	35	9	3	2 376	10				
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED	128	25	24	11	7	4	3	2	-	-	-	52	12				
SOLAR HEATING EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
STOVE, BURNING WOOD OR COAL	5	-	-	-	-	-	-	-	-	-	-	4	4	---			
FIREPLACE, BURNING WOOD OR COAL	7	-	2	-	-	2	2	-	-	-	-	1	1	---			
PORTABLE ELECTRIC HEATER	96	21	19	11	5	1	2	2	-	-	-	36	12				
ROOM HEATER WITHOUT FLUE OR VENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BURNING GAS, OIL, OR KEROSENE	4	-	2	2	-	2	2	-	-	-	-	3	3	---			
OTHER	15	2	2	2	-	2	2	-	-	-	-	8	8	---			
NOT REPORTED	3	2	2	2	-	2	1	3	2	-	-	15	---	---			
NOT REPORTED	30	3	4	2	1	-	-	-	-	-	-	-	-	-	-		
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT																	
NO HOT PIPED WATER	17	4	1	3	1	1	1	-	-	-	-	8	8	---			
WITH HOT PIPED WATER	5 768	1 503	732	388	193	113	106	37	36	9	3	2 647	10				
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	5 656	1 465	717	380	193	112	105	37	36	9	3	2 599	10				
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ⁴	34	12	7	-	-	-	-	-	-	-	-	15	15	---			
NOT REPORTED	73	24	7	8	-	-	1	2	-	-	-	32	10-				
NOT REPORTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
AIR CONDITIONING																	
WITH AIR CONDITIONING	1 607	406	202	93	38	26	27	12	14	3	-	785	10				
ROOM UNITS	922	288	104	48	29	8	16	7	9	4	-	413	10				
1	831	267	90	41	27	8	11	6	3	2	-	377	10-				
2	73	16	11	6	2	-	5	2	3	1	-	29	12				
3	14	2	3	-	-	-	-	-	-	-	-	6	6	---			
4	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-		
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CENTRAL SYSTEM	685	118	98	45	9	18	11	5	4	3	-	372	12				
WITH NO AIR CONDITIONING	4 178	1 101	531	298	155	88	79	25	22	6	3	1 870	10				

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: 1978--CONTINUED
(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												NO GAS USED OR NOT REPORTED ¹	MEDIAN (DOL- LARS)		
		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						
SPECIFIED RENTER OCCUPIED²--CONTINUED																	
PERSONS																	
1 PERSON	2 126	632	175	80	37	18	14	3	2	1	-	1 163	10-				
2 PERSONS	1 657	425	203	111	45	22	29	8	7	5	1	802	10				
3 PERSONS	907	231	160	78	42	24	12	7	5	2	2	345	11				
4 PERSONS	589	113	109	66	38	26	26	9	6	2	1	193	13				
5 PERSONS	274	61	42	31	21	15	8	2	4	-	-	90	13				
6 PERSONS	112	26	21	15	3	2	7	2	8	-	-	30	13				
7 PERSONS OR MORE	119	20	21	11	7	7	11	5	5	-	-	32	16				
MEDIAN.	2.0	1.8	2.4	2.6	2.8	3.2	3.5	3.5	4.2	***	***	1.7	***				
SPECIFIED RENTER OCCUPIED²															10		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS															13		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING																	
ALL WINDOWS COVERED	168	13	14	15	12	6	7	3	7	1	-	90	18				
SOME WINDOWS COVERED	149	12	14	11	12	10	12	4	8	-	1	64	22				
NO WINDOWS COVERED.	1 575	363	322	204	109	73	65	15	17	7	1	398	13				
NOT REPORTED.	123	30	26	9	-	3	-	1	-	-	-	54	11				
STORM DOORS																	
ALL DOORS COVERED	124	8	14	17	9	7	10	3	2	1	-	54	18				
SOME DOORS COVERED.	100	7	12	8	6	8	9	1	2	1	1	46	20				
NO DOORS COVERED.	1 655	372	323	202	116	73	66	19	27	6	1	451	13				
NOT REPORTED.	137	33	28	12	2	5	-	1	-	-	-	56	11				
ATTIC OR ROOF INSULATION																	
YES	685	90	112	91	50	46	40	11	9	3	1	232	16				
NO.	631	174	118	78	40	19	20	7	14	1	1	160	12				
DON'T KNOW.	575	125	122	59	42	24	25	5	8	4	-	161	13				
NOT REPORTED.	125	30	25	11	2	4	-	1	-	-	-	53	11				

¹RENTER HOUSEHOLDS WITH GAS COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.

²EXCLUDES 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: 1978

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

WEST REGION	TOTAL	YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.											
		LESS THAN \$100	\$100 TO \$199	\$200 TO \$299	\$300 TO \$399	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED ¹	MEDIAN (DOL- LARS)	
SPECIFIED OWNER OCCUPIED²													
HOUSE HEATING FUEL													
OIL, COAL, KEROSENE, WOOD, ETC.	546	19	50	80	92	100	53	29	8	14	103	379	
FUEL OIL	441	10	41	73	90	95	52	29	7	14	31	390	
COAL OR COKE	5	1	1	1	2	1	-	-	-	-	-	-	
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	-	
WOOD	100	8	9	6	-	4	1	-	1	-	72	100	
OTHER THAN OIL, COAL, KEROSENE, WOOD, ETC.	6 711	287	109	35	16	9	1	6	1	-	6 248	100	
UTILITY GAS	5 489	233	76	23	10	6	-	4	1	-	5 137	100	
BOTTLED, TANK, OR LP GAS	120	6	3	5	2	-	-	-	-	-	104	100	
ELECTRICITY	1 098	48	30	8	3	2	1	2	-	-	1 004	100	
SOLAR HEAT	2	-	-	-	-	-	-	-	-	-	2	100	
OTHER FUEL	2	-	-	-	-	-	-	-	-	-	2	100	
NONE	114	-	-	-	-	-	-	-	-	-	114	100	
HEATING EQUIPMENT													
WARM-AIR FURNACE	4 700	219	99	75	86	77	45	27	7	11	4 054	207	
HEAT PUMP	109	8	4	2	-	-	-	-	-	-	95	100	
STEAM OR HOT WATER	157	11	4	4	2	6	2	6	-	3	119	326	
BUILT-IN ELECTRIC UNITS	531	21	19	5	1	2	-	1	-	-	481	118	
FLOOR, WALL, OR PIPELESS FURNACE	1 330	22	16	14	15	12	5	1	-	-	1 259	180	
ROOM HEATERS WITH FLUE	216	10	2	7	9	5	5	1	-	-	177	310	
ROOM HEATERS WITHOUT FLUE	41	3	-	-	-	-	-	-	-	-	37	100	
FIREPLACES, STOVES, OR PORTABLE HEATERS	174	13	16	7	2	6	2	1	-	-	129	164	
NONE	114	-	-	-	-	-	-	-	-	-	114	-	
THERMOSTAT CONTROLLED HEATING EQUIPMENT													
NO HEATING EQUIPMENT	114	-	-	-	-	-	-	-	-	-	114	-	
WITH HEATING EQUIPMENT	7 257	306	159	115	107	108	54	35	9	14	6 351	192	
NO THERMOSTAT CONTROL	741	22	16	12	13	15	6	3	-	-	6 655	243	
WITH THERMOSTAT CONTROL	6 502	282	141	103	94	93	48	32	9	14	5 686	189	
NOT CLOCK OPERATED	5 559	241	124	89	74	74	38	27	9	14	4 877	180	
CONSTANT TEMPERATURE SETTING MAINTAINED	1 397	46	19	12	8	11	7	4	-	-	1 288	143	
TEMPERATURE SETTING IS CHANGED	4 142	195	105	76	66	63	31	23	7	13	3 571	185	
Occasionally	792	38	13	6	9	3	2	2	-	-	718	100	
Regularly	3 319	157	91	70	57	60	29	21	15	7	2 824	200	
Don't Know	29	-	2	-	-	-	-	-	-	-	27	100	
Not Reported	2	-	-	-	-	-	-	-	-	-	2	100	
Not Reported	20	-	-	1	1	-	-	-	-	-	18	100	
Clock Operated	908	38	17	14	20	19	10	5	3	5	776	274	
Not Reported	35	3	-	-	-	-	-	-	-	-	32	100	
Not Reported	14	2	2	-	-	-	-	-	-	-	11	100	
AGE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	545	25	17	14	13	11	6	-	1	-	457	214	
WITH SELECTED HEATING EQUIPMENT ³	6 826	281	142	101	94	97	47	35	7	14	6 008	189	
Less than 4 years	1 244	56	26	7	7	11	-	2	-	-	1 133	100	
4 to 9 years	1 574	73	33	13	9	10	12	3	1	2	1 420	113	
10 to 19 years	1 928	96	41	33	31	26	11	12	3	2	1 673	177	
20 to 39 years	1 578	42	27	41	34	47	20	15	3	9	1 341	327	
40 years or more	156	7	2	1	5	-	3	2	-	-	139	100	
Don't Know	295	6	9	3	8	2	2	2	-	-	263	100	
Not Reported	51	2	4	3	-	2	-	-	-	-	39	100	
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	545	25	17	14	13	11	6	-	1	-	457	214	
WITH SELECTED HEATING EQUIPMENT ³	6 826	281	142	101	94	97	47	35	7	14	6 008	189	
No maintenance or modification	5 635	212	106	72	63	62	27	11	2	5	5 076	164	
With maintenance or modification	1 142	67	33	26	31	33	20	22	3	8	895	288	
Not Reported	49	2	3	3	-	2	-	-	-	1	37	100	
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT													
WITHOUT SELECTED HEATING EQUIPMENT OR NONE	545	25	17	14	13	11	6	-	1	-	457	214	
WITH SELECTED HEATING EQUIPMENT ³	6 826	281	142	101	94	97	47	35	7	14	6 008	189	
No maintenance contract	6 342	257	134	87	70	74	23	30	6	11	5 649	166	
With maintenance contract	397	20	5	11	24	21	24	4	2	2	284	385	
Not Reported	87	3	3	3	-	2	-	-	-	1	75	100	
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT													
No hot piped water	13	1	1	1	-	-	1	-	-	-	10	100	
With hot piped water	7 358	305	158	114	107	108	53	35	9	14	6 455	192	
No supplemental solar water heating equipment	7 191	292	152	113	104	103	51	35	9	14	6 318	194	
With supplemental solar water heating equipment ⁴	65	3	1	-	2	2	-	-	-	-	58	100	
Not reported	100	9	5	1	2	3	2	-	-	-	78	100	
Not reported	-	-	-	-	-	-	-	-	-	-	-	-	
AIR CONDITIONING													
With air conditioning	2 459	88	47	28	18	16	14	3	1	2	2 243	143	
Room units	925	32	19	19	16	9	7	3	-	2	817	214	
1	714	26	18	16	11	9	7	3	-	2	621	214	
2	185	5	1	2	5	-	-	-	-	-	172	100	
3	19	-	-	1	-	-	-	-	-	-	18	100	
4	3	-	-	-	-	-	-	-	-	-	3	100	
5 or more	3	2	-	-	-	-	-	-	-	-	2	100	
Central system	1 535	56	28	9	2	7	7	-	1	12	1 426	100	
With no air conditioning	4 912	218	112	87	90	92	40	31	6	4 222	217	-	

¹ RENTER HOUSEHOLDS WITH THESE FUEL COSTS INCLUDED IN THEIR RENT ARE INCLUDED IN THIS CATEGORY.² LIMITED TO 1-UNIT STRUCTURES ON LESS THAN 10 ACRES AND NO BUSINESS ON PROPERTY.³ EXCLUDES 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.

TABLE E-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS¹ 1978--CONTINUED

(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.											MEDIAN (EDOL- LARS)		
		LESS THAN \$100	\$100 TO \$199	\$200 TO \$299	\$300 TO \$399	\$400 TO \$499	\$500 TO \$599	\$600 TO \$699	\$700 TO \$799	\$800 OR MORE	FUELS NOT USED, FREE, OR NOT REPORTED ²				
SPECIFIED OWNER OCCUPIED²--CONTINUED															
PERSONS															
1 PERSON	889	29	15	20	13	14	6	2	2	-	789	228			
2 PERSONS	2 358	96	72	45	51	41	18	15	6	6	2 011	213			
3 PERSONS	1 371	44	21	20	14	21	10	8	2	2	1 230	226			
4 PERSONS	1 501	70	31	18	15	20	11	7	-	2	1 327	154			
5 PERSONS	742	49	9	9	10	4	3	2	-	3	651	100-			
6 PERSONS	315	13	4	1	4	4	3	1	-	1	285	...			
7 PERSONS OR MORE	196	4	8	2	2	8	2	-	2	1	172	...			
MEDIAN.	2.8	3.1	2.4	2.3	2.3	2.5	2.8	...	...	...	2.8	...
SPECIFIED OWNER OCCUPIED²															
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	7 371	306	159	115	107	108	54	35	9	14	6 465	192			
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING															
ALL WINDOWS COVERED	1 116	78	44	36	26	19	8	6	3	2	895	174			
SOME WINDOWS COVERED	679	38	26	21	35	35	14	6	3	2	499	313			
NO WINDOWS COVERED	5 546	189	68	57	46	53	32	23	2	10	5 046	169			
NOT REPORTED.	29	-	2	1	-	2	-	-	-	-	25	...			
STORM DOORS															
ALL DOORS COVERED	894	62	29	40	27	31	9	7	-	8	688	229			
SOME DOORS COVERED	703	40	17	12	33	29	13	6	2	6	542	333			
NO DOORS COVERED	5 720	200	110	61	47	45	31	21	6	6	5 192	157			
NOT REPORTED.	55	3	2	3	1	3	-	-	-	-	43	...			
ATTIC OR ROOF INSULATION															
YES	5 636	260	140	90	91	92	47	30	9	12	4 864	189			
NO.	1 352	28	11	23	16	13	7	4	-	-	1 251	252			
DON'T KNOW.	353	18	5	2	-	1	-	-	2	2	325	...			
NOT REPORTED.	30	-	2	1	-	2	-	-	-	-	26	...			
SPECIFIED RENTER OCCUPIED ³	5 785	80	28	35	37	4	2	7	3	6	5 583	175			
HOUSE HEATING FUEL															
OIL, COAL, KEROSENE, WOOD, ETC.	258	22	15	28	26	4	2	6	3	5	148	264			
FUEL OIL.	205	16	12	21	24	4	2	6	3	3	115	283			
COAL OR COKE.	9	-	-	1	1	-	-	-	-	-	8	...			
KEROSENE, ETC.	-	-	-	-	-	-	-	-	-	-	-	-			
WOOD.	44	7	3	6	1	-	-	-	-	2	26	...			
OTHER THAN OIL; COAL, KEROSENE, WOOD, ETC.	5 307	58	13	7	11	-	-	-	-	-	5 215	100-			
UTILITY GAS.	3 703	36	11	2	8	-	-	-	-	-	3 644	100-			
BOTTLED, TANK, OR LP GAS.	98	1	-	1	2	-	-	-	-	-	91	...			
ELECTRICITY.	1 454	21	2	4	2	-	-	-	-	-	1 425	...			
SOLAR HEAT.	-	-	-	-	-	-	-	-	-	-	-	-			
OTHER FUEL.	56	-	-	-	-	-	-	-	-	-	56	...			
NONE.	219	-	-	-	-	-	-	-	-	-	219	-			
HEATING EQUIPMENT															
WARM-AIR FURNACE.	1 626	36	10	16	23	2	1	4	2	5	1 528	220			
HEAT PUMP	30	-	-	-	-	-	-	-	2	-	30	...			
STEAM OR HOT WATER.	390	3	-	-	-	-	-	-	2	-	386	...			
BUILT-IN ELECTRIC UNITS.	1 075	15	2	2	2	-	-	-	-	-	1 058	...			
FLOOR, WALL, OR PIPELESS FURNACE.	1 795	7	6	2	2	-	-	-	-	-	1 777	...			
ROOM HEATERS WITH FLUE.	447	8	5	6	9	1	1	2	-	-	415	...			
ROOM HEATERS WITHOUT FLUE.	97	1	-	1	-	-	-	-	-	-	95	...			
FIREPLACES, STOVES, OR PORTABLE HEATERS	106	10	5	8	2	1	-	-	1	-	79	...			
NONE.	219	-	-	-	-	-	-	-	-	-	219	...			
THERMOSTAT CONTROLLED HEATING EQUIPMENT															
NO HEATING EQUIPMENT.	219	-	-	-	-	-	-	-	-	-	219	-			
WITH HEATING EQUIPMENT.	5 565	80	28	35	37	4	2	7	3	6	5 363	175			
NO THERMOSTAT CONTROL	1 706	19	10	14	11	2	1	2	2	2	1 646	208			
WITH THERMOSTAT CONTROL	3 851	61	17	21	26	2	1	5	3	5	3 711	155			
NOT CLOCK OPERATED.	3 418	58	13	20	23	2	1	2	3	3	3 292	142			
CONSTANT TEMPERATURE SETTING MAINTAINED	1 047	14	3	5	2	-	-	-	2	2	1 021	...			
TEMPERATURE SETTING IS CHANGED.	2 341	44	11	15	21	2	1	2	2	2	2 239	168			
OCCASIONALLY.	592	8	1	2	-	-	-	-	2	2	581	...			
REGULARLY	1 716	34	10	13	21	2	2	2	2	2	1 628	201			
DON'T KNOW.	32	2	-	-	-	-	-	-	-	-	31	...			
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-			
CLOCK OPERATED.	419	3	4	2	3	-	-	-	-	-	405	...			
NOT REPORTED.	18	-	-	-	-	-	-	-	-	-	14	...			
NOT REPORTED.	8	-	1	-	-	-	-	-	-	-	7	...			
SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT															
NO HOT PIPED WATER.	17	1	-	1	-	-	-	-	-	1	15	...			
WITH HOT PIPED WATER.	5 768	79	28	34	37	4	2	7	3	6	5 568	174			
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	5 656	77	27	34	37	4	2	7	3	6	5 460	177			
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT.	34	1	1	-	-	-	-	-	-	-	33	...			
NOT REPORTED.	73	2	-	1	-	-	-	-	-	-	71	...			
NOT REPORTED.	-	-	-	-	-	-	-	-	-	-	-	-			

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

TABLE E-10. YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC., BY FUEL USE, HEATING, AIR CONDITIONING, PERSONS, AND INSULATION CHARACTERISTICS: 1978--CONTINUED

(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.										FUELS NOT USED, FREE, OR NOT REPORTED ¹	MEDIAN (DOL- LARS)		
		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					
SPECIFIED RENTER OCCUPIED²--CONTINUED															
AIR CONDITIONING															
WITH AIR CONDITIONING	1 607	11	4	6	2	-	1	-	-	-	-	1 583	***		
ROOM UNITS.	922	5	4	6	2	-	1	-	-	-	-	906	***		
1	831	5	4	6	1	-	1	-	-	-	-	816	***		
2	73	-	-	-	1	-	-	-	-	-	-	73	***		
3	14	-	-	-	-	-	-	-	-	-	-	14	***		
4	3	-	-	-	-	-	-	-	-	-	-	3	***		
5 OR MORE	-	-	-	-	-	-	-	-	-	-	-	-	***		
CENTRAL SYSTEM.	685	6	-	1	1	-	-	-	-	-	-	677	***		
WITH NO AIR CONDITIONING.	4 178	69	24	29	35	4	1	7	3	6	4 000	182	***		
PERSONS															
1 PERSON.	2 126	27	7	14	2	-	1	1	-	-	-	2 074	100-		
2 PERSONS.	1 657	25	8	12	10	1	-	2	-	-	2	1 598	157		
3 PERSONS.	907	9	4	3	9	2	-	1	-	-	3	876	***		
4 PERSONS.	589	12	6	2	11	-	1	-	-	-	1	556	***		
5 PERSONS.	274	2	-	5	3	-	-	1	-	-	-	263	***		
6 PERSONS.	112	5	1	-	1	1	-	1	2	-	-	102	***		
7 PERSONS OR MORE.	119	1	2	-	-	-	-	2	2	-	-	113	***		
MEDIAN.	2.0	2.0	...	1.8	3.2	...	...	...	...	...	...	1.9	***
SPECIFIED RENTER OCCUPIED².															
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS															
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	2 016	58	26	34	30	4	2	7	3	6	1 846	204	***		
ALL WINDOWS COVERED.	168	8	6	3	6	-	2	1	-	-	-	143	***		
SOME WINDOWS COVERED.	149	9	5	4	9	1	-	3	-	-	-	119	***		
NO WINDOWS COVERED.	1 575	40	15	27	15	3	-	3	6	1 462	204	***			
NOT REPORTED.	123	-	-	1	-	-	-	-	-	-	-	122	***		
STORM DOORS															
ALL DOORS COVERED.	124	8	6	2	6	-	-	1	-	-	-	102	***		
SOME DOORS COVERED.	100	8	6	5	3	-	2	-	-	-	-	77	***		
NO DOORS COVERED.	1 655	41	13	28	21	4	-	6	3	6	1 531	225	***		
NOT REPORTED.	137	-	1	-	-	-	-	-	-	-	-	136	***		
ATTIC OR ROOF INSULATION															
YES.	685	19	14	11	10	1	2	1	2	3	622	187	***		
NO.	631	14	6	16	6	2	-	4	-	2	582	230	***		
DON'T KNOW.	575	25	5	8	13	1	-	2	2	2	518	164	***		
NOT REPORTED.	125	-	-	-	-	-	-	-	-	-	-	124	***		

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

TABLE E-11. HOUSEHOLD HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK, BY DISTANCE AND TRAVEL TIME TO WORK: 1978

(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							WORKS AT HOME OR NOT REPORTED
		DRIVES SELF	CARPOOL	MASS TRANS- PORTATION	BICYCLE OR MOTOR- CYCLE	TAXICAB	WALKS ONLY	OTHER MEANS	
HOUSING UNITS WITH EMPLOYED HEADS¹									
DISTANCE FROM HOME TO WORK									
OWNER OCCUPIED	10 469	7 761	1 438	463	145	10	339	62	251
LESS THAN 1 MILE	6 449	5 002	893	164	61	3	126	43	156
1 TO 4 MILES	365	234	23	2	2	-	105	1	-
5 TO 9 MILES	1 250	1 068	105	19	32	2	18	6	1
10 TO 19 MILES	1 324	1 111	162	38	9	2	-	2	-
20 TO 29 MILES	1 407	1 121	230	44	10	-	-	2	2
30 TO 49 MILES	606	629	143	20	5	-	-	1	-
50 MILES OR MORE	296	192	83	20	-	-	-	5	-
WORKS AT HOME	100	56	29	10	-	-	-	-	-
NO FIXED PLACE OF WORK	142	-	-	-	-	-	-	-	142
NOT REPORTED	882	742	108	8	-	-	3	19	1
MEDIAN	76	49	11	3	1	-	-	3	9
RENTER OCCUPIED	9.0	8.6	14.2	14.1	4.6	-	1.0-	...	...
LESS THAN 1 MILE	4 020	2 759	545	298	84	7	213	19	95
1 TO 4 MILES	412	192	28	2	12	-	169	6	2
5 TO 9 MILES	1 080	730	125	148	36	7	33	1	-
10 TO 19 MILES	791	606	109	57	13	-	-	3	2
20 TO 29 MILES	778	607	117	39	11	-	-	2	1
30 TO 49 MILES	237	172	46	13	6	-	-	-	-
50 MILES OR MORE	129	87	34	4	2	-	-	1	2
WORKS AT HOME	35	23	10	-	-	-	-	2	-
NO FIXED PLACE OF WORK	79	-	-	-	-	-	-	-	79
NOT REPORTED	372	291	62	14	-	-	3	2	-
MEDIAN	107	51	13	20	3	-	8	2	10
TRAVEL TIME FROM HOME TO WORK									
OWNER OCCUPIED	6 449	5 002	893	164	61	3	126	43	156
LESS THAN 15 MINUTES	1 814	1 526	150	2	28	2	99	8	-
15 TO 29 MINUTES	2 153	1 777	300	37	16	2	20	2	-
30 TO 44 MINUTES	871	629	180	45	9	-	2	4	2
45 TO 59 MINUTES	274	157	81	27	6	-	-	2	-
1 HOUR TO 1 HOUR AND 29 MINUTES	209	124	47	33	2	-	-	4	-
1 HOUR AND 30 MINUTES OR MORE	50	27	19	11	-	-	-	2	-
WORKS AT HOME	142	-	-	-	-	-	-	-	142
NO FIXED PLACE OF WORK	882	742	108	8	-	-	3	19	1
NOT REPORTED	46	21	8	2	-	-	1	3	9
MEDIAN	21.1	20.0	26.9	42.9	17.4	-	15.0-	...	...
RENTER OCCUPIED	4 020	2 759	545	298	84	7	213	19	95
LESS THAN 15 MINUTES	1 449	1 031	162	33	49	3	166	4	2
15 TO 29 MINUTES	1 320	971	194	90	25	3	32	3	2
30 TO 44 MINUTES	495	322	77	78	5	-	8	3	2
45 TO 59 MINUTES	145	76	23	41	2	-	3	-	-
1 HOUR TO 1 HOUR AND 29 MINUTES	101	38	23	32	3	-	-	2	1
1 HOUR AND 30 MINUTES OR MORE	26	16	2	6	-	-	-	1	-
WORKS AT HOME	79	-	-	-	-	-	-	-	79
NO FIXED PLACE OF WORK	372	291	62	14	-	-	3	2	-
NOT REPORTED	32	14	2	3	-	-	2	3	8
MEDIAN	18.6	16.0	21.0	33.3	15.0-	-	15.0-	...	...

¹LIMITED 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: 1978

(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.	8 179	6 376	4 844	1 532	1 803
HOUSE HEATING FUEL					
OWNER OCCUPIED.					
UTILITY GAS.	3 583	2 547	1 789	757	1 036
BOTTLED, TANK, OR LP GAS.	2 236	1 800	1 336	464	437
FUEL OIL.	313	56	11	45	257
KEROSENE, ETC.	587	446	307	139	141
ELECTRICITY.	45	15	9	7	30
COAL OR COKE.	312	197	107	90	115
WOOD.	20	11	8	3	9
SOLAR HEAT.	56	8	3	5	47
OTHER FUEL.	-	-	-	-	-
NONE.	3	3	3	-	-
RENTER OCCUPIED.	11	10	5	5	1
UTILITY GAS.	4 597	3 829	3 055	775	767
BOTTLED, TANK, OR LP GAS.	2 661	2 285	1 881	405	375
FUEL OIL.	128	34	11	24	94
KEROSENE, ETC.	1 023	935	786	149	87
ELECTRICITY.	41	14	7	7	27
COAL OR COKE.	517	460	306	153	57
WOOD.	31	12	9	3	20
SOLAR HEAT.	113	16	2	14	97
OTHER FUEL.	-	-	-	-	-
NONE.	17	17	17	-	-
RENTER OCCUPIED.	66	56	36	20	9
WATER HEATING FUEL					
OWNER OCCUPIED.					
NO HOT PIPED WATER.	3 583	2 547	1 789	757	1 036
WITH HOT PIPED WATER.	138	22	3	19	116
FUEL USED:					
UTILITY GAS.	3 445	2 525	1 786	739	920
BOTTLED, TANK, OR LP GAS.	2 231	1 901	1 448	453	330
FUEL OIL.	190	48	18	30	142
KEROSENE, ETC.	178	166	100	67	12
ELECTRICITY.	3	2	-	2	2
COAL OR COKE.	832	400	215	185	432
WOOD.	3	3	3	-	-
SOLAR HEAT.	3	2	2	-	2
OTHER FUEL.	-	-	-	-	-
NONE.	2	2	2	1	2
NOT REPORTED.	-	-	-	-	-
RENTER OCCUPIED.					
NO HOT PIPED WATER.	4 597	3 829	3 055	775	767
WITH HOT PIPED WATER.	242	43	13	29	200
FUEL USED:					
UTILITY GAS.	4 354	3 787	3 041	745	567
BOTTLED, TANK, OR LP GAS.	2 868	2 617	2 164	453	271
FUEL OIL.	82	38	21	17	44
KEROSENE, ETC.	615	577	493	84	38
ELECTRICITY.	2	-	-	-	2
COAL OR COKE.	743	539	349	189	204
WOOD.	4	2	2	-	2
SOLAR HEAT.	3	2	-	2	1
OTHER FUEL.	-	-	-	-	-
NONE.	14	12	12	-	2
NOT REPORTED.	4	-	-	-	4
COOKING FUEL					
OWNER OCCUPIED.					
UTILITY GAS.	3 583	2 547	1 789	757	1 036
BOTTLED, TANK, OR LP GAS.	2 080	1 739	1 355	385	341
FUEL OIL.	402	97	38	59	305
KEROSENE, ETC.	6	5	5	-	1
ELECTRICITY.	2	-	-	-	2
COAL OR COKE.	1 063	695	387	309	367
WOOD.	4	2	2	-	2
OTHER FUEL.	22	5	2	4	17
NONE.	-	-	-	-	-
RENTER OCCUPIED.					
UTILITY GAS.	4 597	3 829	3 055	775	767
BOTTLED, TANK, OR LP GAS.	3 299	2 974	2 512	462	325
FUEL OIL.	242	83	31	52	159
KEROSENE, ETC.	6	6	6	-	-
ELECTRICITY.	3	-	-	-	3
COAL OR COKE.	970	727	473	254	242
WOOD.	-	-	-	-	-
OTHER FUEL.	30	9	4	6	21
NONE.	9	7	7	-	2
NOT REPORTED.	37	22	21	-	15

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS
FOR HOUSING UNITS WITH BLACK HOUSEHOLD HEAD: 1978--CONTINUED

(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	2 992	2 174	1 500	674	818		
LESS THAN \$10	62	41	34	7	21		
\$10 TO \$19.	515	352	259	93	163		
\$20 TO \$29.	720	535	373	162	185		
\$30 TO \$39.	646	479	339	140	167		
\$40 TO \$49.	351	260	170	90	90		
\$50 TO \$59.	242	173	109	63	69		
\$60 TO \$79.	251	185	125	60	66		
\$80 TO \$99.	102	70	40	30	32		
\$100 TO \$149.	78	55	38	18	22		
\$150 OR MORE.	25	23	14	9	2		
NO ELECTRICITY USED OR NOT REPORTED	2	1	-	1	1		
MEDIAN.	33	33	32	35	32		
SPECIFIED RENTER OCCUPIED ²	4 529	3 823	3 055	768	706		
LESS THAN \$10	362	295	244	51	67		
\$10 TO \$19.	1 131	927	729	198	203		
\$20 TO \$29.	978	791	637	153	187		
\$30 TO \$39.	484	401	290	110	83		
\$40 TO \$49.	226	177	128	49	49		
\$50 TO \$59.	88	69	51	17	19		
\$60 TO \$79.	101	83	54	29	19		
\$80 TO \$99.	28	23	12	11	4		
\$100 TO \$149.	14	12	8	4	2		
\$150 OR MORE.	8	8	8	-	-		
INCLUDED IN RENT.	1 084	1 019	877	143	65		
NO ELECTRICITY USED OR NOT REPORTED	26	19	16	3	8		
MEDIAN.	22	22	22	24	22		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED ¹	2 992	2 174	1 500	674	818		
LESS THAN \$10	191	143	88	55	48		
\$10 TO \$14.	288	226	167	59	63		
\$15 TO \$19.	312	199	134	65	113		
\$20 TO \$24.	283	205	148	56	79		
\$25 TO \$29.	207	154	99	55	52		
\$30 TO \$39.	435	325	238	86	111		
\$40 TO \$49.	335	257	175	83	78		
\$50 TO \$69.	328	264	201	63	64		
\$70 TO \$99.	148	123	97	26	25		
\$100 OR MORE.	40	31	29	1	9		
NO GAS USED OR NOT REPORTED	425	249	124	125	176		
MEDIAN.	30	31	32	28	26		
SPECIFIED RENTER OCCUPIED ²	4 529	3 823	3 055	768	706		
LESS THAN \$10	693	611	492	119	83		
\$10 TO \$14.	460	394	327	67	66		
\$15 TO \$19.	363	281	239	42	81		
\$20 TO \$24.	222	170	139	31	52		
\$25 TO \$29.	199	154	123	31	45		
\$30 TO \$39.	257	188	154	34	69		
\$40 TO \$49.	153	125	98	26	28		
\$50 TO \$69.	161	135	110	25	26		
\$70 TO \$99.	55	48	42	6	7		
\$100 OR MORE.	21	21	13	8	1		
INCLUDED IN RENT.	1 411	1 297	1 070	228	114		
NO GAS USED OR NOT REPORTED	533	399	247	152	134		
MEDIAN.	17	16	16	16	19		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED ¹	2 992	2 174	1 500	674	818		
LESS THAN \$100.	74	39	18	22	35		
\$100 TO \$199.	63	32	24	7	31		
\$200 TO \$299.	92	48	35	13	44		
\$300 TO \$399.	83	53	43	9	30		
\$400 TO \$499.	67	42	34	8	25		
\$500 TO \$599.	51	44	26	18	7		
\$600 TO \$699.	47	38	21	17	9		
\$700 TO \$799.	36	31	18	13	5		
\$800 OR MORE.	94	73	34	39	21		
FUELS NOT USED, FREE, OR NOT REPORTED	2 386	1 775	1 247	528	611		
MEDIAN.	389	466	417	575	285		

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

²EXCLUDES 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: 1978--CONTINUED

(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							
LESS THAN \$100.	4 529	3 823	3 055	768	706		
\$100 TO \$199.	67	25	18	6	42		
\$200 TO \$299.	67	29	19	10	38		
\$300 TO \$399.	53	28	17	11	25		
\$400 TO \$499.	64	46	40	6	17		
\$500 TO \$599.	21	17	12	5	3		
\$600 TO \$699.	12	6	4	2	7		
\$700 TO \$799.	31	21	16	5	10		
\$800 OR MORE.	10	10	2	8	-		
INCLUDED IN RENT.	17	8	4	4	9		
FUELS NOT USED, FREE, OR NOT REPORTED	1 047	970	840	131	77		
MEDIAN.	3 140	2 663	2 083	580	478		
	268	327	327	330	188		
ALL OCCUPIED HOUSING UNITS.							
HEATING EQUIPMENT							
OWNER OCCUPIED.	3 583	2 547	1 789	757	1 036		
WARM-AIR FURNACE.	1 662	1 318	924	394	344		
HEAT PUMP	23	20	12	9	3		
STEAM OR HOT WATER.	477	462	365	97	15		
BUILT-IN ELECTRIC UNITS	137	69	47	22	68		
FLOOR, WALL, OR PIPELESS FURNACE.	354	297	214	82	57		
ROOM HEATERS WITH FLUE.	291	157	104	53	134		
ROOM HEATERS WITHOUT FLUE.	498	181	111	70	317		
FIREPLACES, STOVES, OR PORTABLE HEATERS	129	33	8	25	97		
NONE.	11	10	5	5	1		
RENTER OCCUPIED	4 597	3 829	3 055	775	767		
WARM-AIR FURNACE.	1 300	1 182	866	316	118		
HEAT PUMP	23	17	5	12	6		
STEAM OR HOT WATER.	1 340	1 291	1 140	152	49		
BUILT-IN ELECTRIC UNITS	249	226	159	67	23		
FLOOR, WALL, OR PIPELESS FURNACE.	449	395	331	64	54		
ROOM HEATERS WITH FLUE.	420	296	235	61	124		
ROOM HEATERS WITHOUT FLUE.	535	293	245	48	242		
FIREPLACES, STOVES, OR PORTABLE HEATERS	215	73	39	35	141		
NONE.	66	56	36	20	9		
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED.	3 583	2 547	1 789	757	1 036		
NO HEATING EQUIPMENT.	11	10	5	5	1		
WITH HEATING EQUIPMENT.	3 572	2 537	1 785	752	1 035		
NO THERMOSTAT CONTROL	1 040	497	329	168	543		
WITH THERMOSTAT CONTROL	2 518	2 030	1 446	584	488		
NOT CLOCK OPERATED.	1 854	1 472	1 009	463	382		
CONSTANT TEMPERATURE SETTING MAINTAINED	599	476	327	149	123		
TEMPERATURE SETTING IS CHANGED.	1 243	986	674	311	257		
OCCASIONALLY.	545	456	338	118	89		
REGULARLY.	667	504	318	185	163		
DON'T KNOW.	31	26	18	8	5		
NOT REPORTED.	-	-	-	-	-		
NOT REPORTED.	12	11	8	3	1		
CLOCK OPERATED.	652	552	433	119	100		
NOT REPORTED.	12	5	3	1	7		
NOT REPORTED.	15	11	10	1	4		
RENTER OCCUPIED	4 597	3 829	3 055	775	767		
NO HEATING EQUIPMENT.	66	56	36	20	9		
WITH HEATING EQUIPMENT.	4 531	3 773	3 019	754	758		
NO THERMOSTAT CONTROL	2 515	1 969	1 694	275	546		
WITH THERMOSTAT CONTROL	2 003	1 796	1 318	478	206		
NOT CLOCK OPERATED.	1 594	1 438	1 028	410	156		
CONSTANT TEMPERATURE SETTING MAINTAINED	571	523	354	169	47		
TEMPERATURE SETTING IS CHANGED.	1 007	898	664	234	109		
OCCASIONALLY.	455	408	311	96	48		
REGULARLY.	521	464	330	134	57		
DON'T KNOW.	26	24	21	4	2		
NOT REPORTED.	4	2	2	-	3		
NOT REPORTED.	17	17	10	6	-		
CLOCK OPERATED.	395	347	279	68	49		
NOT REPORTED.	13	11	10	1	2		
NOT REPORTED.	13	8	7	1	2		

¹EXCLUDES 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: 1978--CONTINUED

(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.	8 179	6 376	4 844	1 532	1 803
UNITS OCCUPIED LAST WINTER.	6 816	5 230	4 010	1 220	1 587
INSUFFICIENT HEAT					
CLOSURE OF ROOMS:					
OWNER OCCUPIED.	3 348	2 369	1 666	703	979
WITH HEATING EQUIPMENT.	3 340	2 361	1 661	699	979
NO ROOMS CLOSED	3 031	2 189	1 529	660	842
CLOSED CERTAIN ROOMS.	278	149	112	37	129
LIVING ROOM ONLY.	21	11	6	5	10
DINING ROOM ONLY.	7	5	2	3	2
1 OR MORE BEDROOMS ONLY	170	87	63	24	83
OTHER ROOMS OR COMBINATION OF ROOMS	76	43	39	4	33
NOT REPORTED.	4	3	2	1	1
NOT REPORTED.	31	23	21	2	8
NO HEATING EQUIPMENT.	8	8	5	4	-
RENTER OCCUPIED	3 468	2 860	2 343	517	608
WITH HEATING EQUIPMENT.	3 425	2 822	2 319	503	603
NO ROOMS CLOSED	2 986	2 497	2 053	444	489
CLOSED CERTAIN ROOMS.	390	284	233	51	106
LIVING ROOM ONLY.	33	31	26	5	2
DINING ROOM ONLY.	2	-	-	-	2
1 OR MORE BEDROOMS ONLY	257	181	149	32	76
OTHER ROOMS OR COMBINATION OF ROOMS	95	69	56	13	26
NOT REPORTED.	3	3	2	1	-
NOT REPORTED.	50	42	33	8	8
NO HEATING EQUIPMENT.	43	38	24	14	5
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED.	3 348	2 369	1 666	703	979
WITH SPECIFIED HEATING EQUIPMENT.	2 724	2 149	1 544	605	575
NO ADDITIONAL HEAT SOURCE USED.	2 353	1 860	1 322	538	493
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	350	274	208	66	77
NOT REPORTED.	21	15	15	1	6
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	624	220	122	98	404
RENTER OCCUPIED	3 468	2 860	2 343	517	608
WITH SPECIFIED HEATING EQUIPMENT.	2 813	2 531	2 103	429	282
NO ADDITIONAL HEAT SOURCE USED.	2 148	1 920	1 589	331	228
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER	638	586	497	89	52
NOT REPORTED.	28	26	17	8	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	655	329	241	88	326
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED.	3 348	2 369	1 666	703	979
WITH SPECIFIED HEATING EQUIPMENT.	2 724	2 149	1 544	605	575
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	1 990	1 616	1 159	458	373
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	703	509	363	146	195
1 ROOM.	144	102	80	22	42
2 ROOMS	199	154	117	37	45
3 ROOMS OR MORE	360	253	166	87	107
NOT REPORTED.	31	24	22	1	7
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	624	220	122	98	404
RENTER OCCUPIED	3 468	2 860	2 343	517	608
WITH SPECIFIED HEATING EQUIPMENT.	2 813	2 531	2 103	429	282
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	2 046	1 902	1 574	328	143
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.	725	588	497	91	137
1 ROOM.	206	164	162	22	22
2 ROOMS	246	208	162	46	38
3 ROOMS OR MORE	273	196	173	23	77
NOT REPORTED.	42	41	32	9	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE	655	329	241	88	326

¹EXCLUDES 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: 1978--CONTINUED

(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.	8 179	6 376	4 844	1 532	1 803
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED.					
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	3 583	2 547	1 789	757	1 036
WITH SELECTED HEATING EQUIPMENT ¹	140	42	13	30	98
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	3 443	2 504	1 777	728	939
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	3 258	2 391	1 700	691	867
SOLAR HEATING EQUIPMENT.	157	89	57	31	69
STOVE, BURNING WOOD OR COAL.	29	10	5	5	19
FIREPLACE, BURNING WOOD OR COAL.	15	5	3	2	10
PORTABLE ELECTRIC HEATER.	77	56	38	18	21
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	19	8	5	3	11
OTHER.	14	8	6	1	6
NOT REPORTED.	3	1	-	1	2
NOT REPORTED.	27	25	19	6	2
RENTER OCCUPIED.	4 597	3 829	3 055	775	767
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	280	130	75	55	150
WITH SELECTED HEATING EQUIPMENT ¹	4 316	3 700	2 980	720	617
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	4 055	3 470	2 794	676	585
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	230	201	159	42	30
SOLAR HEATING EQUIPMENT.	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	8	2	-	2	6
FIREPLACE, BURNING WOOD OR COAL.	1	-	-	-	1
PORTABLE ELECTRIC HEATER.	175	164	128	37	11
ROOM HEATER WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE.	29	19	17	2	10
OTHER.	18	16	14	2	2
NOT REPORTED.	2	2	2	-	-
NOT REPORTED.	31	29	28	1	2
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	3 583	2 547	1 789	757	1 036
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	929	381	228	153	549
WITH SELECTED HEATING EQUIPMENT ²	2 654	2 166	1 561	605	488
LESS THAN 4 YEARS.	384	264	180	84	121
4 TO 9 YEARS.	702	474	320	155	227
10 TO 19 YEARS.	687	608	415	192	79
20 TO 39 YEARS.	377	348	266	82	29
40 YEARS OR MORE.	41	38	34	4	3
DON'T KNOW.	355	343	272	71	12
NOT REPORTED.	107	91	74	17	15
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED.	3 583	2 547	1 789	757	1 036
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	929	381	228	153	549
WITH SELECTED HEATING EQUIPMENT ²	2 654	2 166	1 561	605	488
NO MAINTENANCE OR MODIFICATION.	2 055	1 667	1 199	468	388
WITH MAINTENANCE OR MODIFICATION.	487	406	290	116	81
NOT REPORTED.	112	93	73	20	19
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED.	3 583	2 547	1 789	757	1 036
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	929	381	228	153	549
WITH SELECTED HEATING EQUIPMENT ²	2 654	2 166	1 561	605	488
NO MAINTENANCE CONTRACT.	2 181	1 755	1 276	479	426
WITH MAINTENANCE CONTRACT.	362	318	213	105	44
NOT REPORTED.	111	94	73	21	18

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED

(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	3 583	2 547	1 789	757	1 036		
WITH HOT PIPED WATER	138	22	3	19	116		
WITH HOT PIPED WATER	3 445	2 525	1 786	739	920		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	3 333	2 446	1 734	711	887		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	15	15	6	9	-		
NOT REPORTED	95	63	45	17	32		
NOT REPORTED	-	-	-	-	-		
RENTER OCCUPIED	4 597	3 829	3 055	775	767		
NO HOT PIPED WATER	242	43	13	29	200		
WITH HOT PIPED WATER	4 354	3 787	3 041	745	567		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	4 193	3 658	2 930	720	535		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	19	19	16	3	-		
NOT REPORTED	138	109	87	22	29		
NOT REPORTED	-	-	-	-	-		
AIR CONDITIONING							
OWNER OCCUPIED	3 583	2 547	1 789	757	1 036		
WITH AIR CONDITIONING	1 741	1 356	942	414	385		
ROOM UNITS	1 205	903	665	238	302		
1	743	505	361	144	238		
2	344	288	217	70	56		
3	96	89	67	22	7		
4	15	14	14	-	1		
5 OR MORE	7	6	5	2	1		
CENTRAL SYSTEM	536	453	277	176	83		
WITH NO AIR CONDITIONING	1 842	1 191	847	343	651		
RENTER OCCUPIED	4 597	3 829	3 055	775	767		
WITH AIR CONDITIONING	1 251	1 110	756	353	141		
ROOM UNITS	764	672	513	159	92		
1	605	525	407	118	80		
2	128	118	82	36	11		
3	28	26	21	5	2		
4	2	2	2	-	-		
5 OR MORE	2	2	2	-	-		
CENTRAL SYSTEM	486	438	244	194	48		
WITH NO AIR CONDITIONING	3 346	2 720	2 298	421	626		
ALL OCCUPIED HOUSING UNITS	8 179	6 376	4 844	1 532	1 803		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS							
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	4 686	3 146	2 163	983	1 540		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED	3 264	2 246	1 522	724	1 018		
ALL WINDOWS COVERED	1 118	908	623	285	210		
SOME WINDOWS COVERED	344	273	202	71	71		
NO WINDOWS COVERED	1 771	1 040	675	366	730		
NOT REPORTED	31	24	22	2	7		
RENTER OCCUPIED	1 422	900	640	260	522		
ALL WINDOWS COVERED	223	185	139	45	39		
SOME WINDOWS COVERED	118	85	70	15	33		
NO WINDOWS COVERED	1 007	575	390	185	431		
NOT REPORTED	74	56	42	14	19		
STORM DOORS							
OWNER OCCUPIED	3 264	2 246	1 522	724	1 018		
ALL DOORS COVERED	1 147	916	651	265	231		
SOME DOORS COVERED	535	381	277	104	154		
NO DOORS COVERED	1 552	921	569	352	631		
NOT REPORTED	30	28	25	3	2		
RENTER OCCUPIED	1 422	900	640	260	522		
ALL DOORS COVERED	217	188	140	48	28		
SOME DOORS COVERED	112	91	67	25	20		
NO DOORS COVERED	1 007	556	387	169	452		
NOT REPORTED	86	65	47	18	21		

¹LIMITED 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: 1978--CONTINUED

(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							
YES	3 264	2 246	1 522	724	1 018		
NO.	1 795	1 282	840	443	513		
DON'T KNOW.	1 206	756	533	223	451		
NOT REPORTED.	232	181	124	56	52		
	30	27	25	2	3		
RENTER OCCUPIED							
YES	1 422	900	640	260	522		
NO.	267	190	120	70	77		
DON'T KNOW.	756	411	304	107	346		
NOT REPORTED.	315	238	171	67	77		
	84	62	45	17	22		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS.							
OWNER OCCUPIED							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING	3 264	2 246	1 522	724	1 018		
NO WINDOWS COVERED	1 771	1 040	675	366	730		
SOME OR ALL WINDOWS COVERED	1 462	1 181	825	356	281		
NONE ADDED OR INSTALLED	1 276	1 056	738	317	221		
SOME OR ALL ADDED OR INSTALLED	173	115	81	34	57		
NOT REPORTED	13	10	6	4	3		
NOT REPORTED	31	24	22	2	7		
STORM DOORS							
NO DOORS COVERED	1 552	921	569	352	631		
SOME OR ALL DOORS COVERED	1 682	1 297	928	369	385		
NONE ADDED OR INSTALLED	1 439	1 121	801	320	317		
SOME OR ALL ADDED OR INSTALLED	183	134	92	42	49		
NOT REPORTED	61	42	35	7	19		
NOT REPORTED	30	28	25	3	2		
ATTIC OR ROOF INSULATION							
NO ATTIC OR ROOF INSULATION	1 206	756	533	223	451		
WITH ATTIC OR ROOF INSULATION	1 795	1 282	840	443	513		
NONE ADDED OR INSTALLED	1 581	1 144	736	408	437		
SOME OR ALL ADDED OR INSTALLED	130	77	55	22	53		
LESS THAN 3 INCHES ADDED	7	5	3	2	2		
3 TO 6 INCHES ADDED	58	28	18	11	29		
6 INCHES OR MORE ADDED	31	23	18	4	9		
DON'T KNOW	28	20	16	4	7		
NOT REPORTED	6	-	-	-	6		
NOT REPORTED	85	62	49	13	23		
DON'T KNOW	232	181	124	56	52		
NOT REPORTED	30	27	25	2	3		
WALL INSULATION							
NONE ADDED OR INSTALLED	3 130	2 154	1 443	711	976		
SOME OR ALL ADDED OR INSTALLED	106	67	55	12	39		
NOT REPORTED	28	25	24	2	3		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS							
NONE ADDED OR INSTALLED	2 788	1 875	1 276	598	913		
SOME OR ALL ADDED OR INSTALLED	426	336	217	119	90		
DON'T KNOW	26	15	10	5	11		
NOT REPORTED	24	21	19	2	3		
OTHER INSULATION							
NONE ADDED OR INSTALLED	3 175	2 175	1 473	702	1 000		
SOME OR ALL ADDED OR INSTALLED	61	46	27	19	15		
NOT REPORTED	28	25	22	3	3		

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS
FOR HOUSING UNITS WITH BLACK HOUSEHOLD HEAD: 1978--CONTINUED

(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							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING:	1 422	900	640	260	522		
NO WINDOWS COVERED	1 007	575	390	185	431		
SOME OR ALL WINDOWS COVERED	341	269	209	61	72		
NONE ADDED OR INSTALLED	265	226	177	49	39		
SOME OR ALL ADDED OR INSTALLED	64	34	24	9	31		
NOT REPORTED	12	10	8	3	2		
NOT REPORTED	74	56	42	14	19		
STORM DOORS:							
NO DOORS COVERED	1 007	556	387	169	452		
SOME OR ALL DOORS COVERED	329	280	207	73	49		
NONE ADDED OR INSTALLED	275	235	178	56	40		
SOME OR ALL ADDED OR INSTALLED	22	17	10	7	5		
NOT REPORTED	31	28	18	10	3		
NOT REPORTED	86	65	47	18	21		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	756	411	304	107	346		
WITH ATTIC OR ROOF INSULATION	257	190	120	70	77		
NONE ADDED OR INSTALLED	237	171	107	65	66		
SOME OR ALL ADDED OR INSTALLED	21	17	14	3	4		
LESS THAN 3 INCHES ADDED	2	2	2	-	-		
3 TO 6 INCHES ADDED	5	4	3	1	1		
6 INCHES OR MORE ADDED	3	3	2	1	-		
DON'T KNOW	10	6	5	1	4		
NOT REPORTED	2	2	2	-	-		
NOT REPORTED	9	2	-	2	7		
DON'T KNOW	315	238	171	67	77		
NOT REPORTED	84	62	45	17	22		
WALL INSULATION:							
NONE ADDED OR INSTALLED	1 327	834	592	242	493		
SOME OR ALL ADDED OR INSTALLED	7	4	4	1	3		
NOT REPORTED	88	62	45	17	26		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	1 200	728	522	206	472		
SOME OR ALL ADDED OR INSTALLED	84	68	44	24	16		
DON'T KNOW	66	50	33	17	16		
NOT REPORTED	73	54	42	12	19		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	1 329	832	590	242	497		
SOME OR ALL ADDED OR INSTALLED	13	9	5	4	4		
NOT REPORTED	80	59	45	14	20		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED							
NO INSULATION ADDED OR INSTALLED	3 264	2 246	1 522	724	.1 018		
WITH INSULATION ADDED OR INSTALLED	2 403	1 619	1 090	529	784		
LESS THAN \$50	703	515	341	174	188		
\$50 TO \$99	262	182	99	83	80		
\$100 TO \$199	82	52	34	19	30		
\$200 TO \$399	74	60	42	18	14		
\$400 OR MORE	45	33	24	9	12		
DON'T KNOW	105	79	57	22	26		
NOT REPORTED	50	38	31	7	13		
MEDIAN	84	71	55	15	14		
NOT REPORTED OR DON'T KNOW	63	70	92	50-	51		
NOT REPORTED OR DON'T KNOW	158	112	91	21	46		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
LESS THAN \$50	82	50	37	13	32		
\$50 TO \$99	31	15	8	7	16		
\$100 TO \$199	10	1	-	1	9		
\$200 TO \$399	7	5	5	-	3		
\$400 OR MORE	4	3	3	-	1		
DON'T KNOW	6	5	3	2	2		
NOT REPORTED	5	5	3	1	1		
MEDIAN	18	17	14	2	2		
NOT REPORTED	50-	...	...	...	...

TABLE F-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS
FOR HOUSING UNITS WITH BLACK HOUSEHOLD HEAD: 1978--CONTINUED

(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	76	58	39	19	18		
LESS THAN \$50	10	6	3	3	4		
\$50 TO \$99.	27	17	11	6	10		
\$100 TO \$199.	13	13	6	7	-		
\$200 TO \$399.	4	4	2	2	-		
\$400 OR MORE.	6	5	5	-	1		
DON'T KNOW.	4	3	3	-	1		
NOT REPORTED.	12	10	8	1	2		
MEDIAN.	86	97	***	***	***		
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	80	44	32	12	36		
LESS THAN \$50	9	4	2	3	4		
\$50 TO \$99.	10	5	3	2	5		
\$100 TO \$199.	9	5	5	1	3		
\$200 TO \$399.	11	8	6	1	3		
\$400 OR MORE.	18	11	8	3	8		
DON'T KNOW.	13	7	6	1	6		
NOT REPORTED.	10	3	2	1	7		
MEDIAN.	217	**	***	***	***		
ALL OCCUPIED HOUSING UNITS.	8 179	6 376	4 844	1 532	1 803		
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK¹							
OWNER OCCUPIED.	2 384	1 775	1 220	556	608		
DRIVES SELF	1 643	1 290	871	419	353		
CARPOOL	449	254	162	92	195		
MASS TRANSPORTATION	181	172	147	25	9		
BICYCLE OR MOTORCYCLE	1	1	-	1	-		
TAXICAB	8	5	5	-	4		
WALKS ONLY.	60	26	15	12	34		
OTHER MEANS	8	1	-	1	7		
WORKS AT HOME	23	16	11	5	6		
NOT REPORTED.	10	9	9	-	1		
RENTER OCCUPIED.	2 658	2 238	1 709	529	420		
DRIVES SELF	1 289	1 094	772	322	195		
CARPOOL	488	354	248	106	134		
MASS TRANSPORTATION	631	624	564	60	6		
BICYCLE OR MOTORCYCLE	8	8	5	2	-		
TAXICAB	21	9	9	-	12		
WALKS ONLY.	188	122	91	31	66		
OTHER MEANS	4	4	2	2	1		
WORKS AT HOME	24	18	14	4	5		
NOT REPORTED.	5	5	3	1	-		
DISTANCE FROM HOME TO WORK¹							
OWNER OCCUPIED.	2 384	1 775	1 220	556	608		
LESS THAN 1 MILE.	171	87	55	32	85		
1 TO 4 MILES.	514	358	268	90	157		
5 TO 9 MILES.	501	407	300	107	94		
10 TO 19 MILES.	542	453	303	150	89		
20 TO 29 MILES.	180	140	82	58	40		
30 TO 49 MILES.	90	56	22	34	34		
50 MILES OR MORE.	39	22	13	9	18		
WORKS AT HOME	23	16	11	5	6		
NO FIXED PLACE OF WORK.	218	144	92	53	74		
NOT REPORTED.	105	92	74	18	12		
MEDIAN.	8.3	8.9	8.3	10.8	5.9		
RENTER OCCUPIED.	2 658	2 238	1 709	529	420		
LESS THAN 1 MILE.	261	175	136	38	87		
1 TO 4 MILES.	743	585	466	119	157		
5 TO 9 MILES.	587	541	431	110	46		
10 TO 19 MILES.	513	471	327	144	42		
20 TO 29 MILES.	159	148	105	43	12		
30 TO 49 MILES.	49	36	21	15	13		
50 MILES OR MORE.	12	5	3	2	7		
WORKS AT HOME	24	18	14	4	5		
NO FIXED PLACE OF WORK.	184	143	111	32	41		
NOT REPORTED.	125	117	95	22	8		
MEDIAN.	6.3	7.0	6.6	8.5	3.4		

¹LIMITED 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: 1978--CONTINUED

(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.							
LESS THAN 15 MINUTES.	2 384	1 775	1 220	556	608		
15 TO 29 MINUTES.	515	314	205	110	201		
30 TO 44 MINUTES.	827	646	465	182	181		
45 TO 59 MINUTES.	431	365	251	114	66		
1 HOUR TO 1 HOUR AND 29 MINUTES	155	128	87	41	28		
1 HOUR AND 30 MINUTES OR MORE	133	98	63	35	35		
WORKS AT HOME	38	28	16	12	9		
NO FIXED PLACE OF WORK	23	16	11	5	6		
NOT REPORTED.	218	144	92	53	74		
MEDIAN.	43	36	31	5	8		
	24.6	26.0	25.9	26.2	19.9		
RENTER OCCUPIED							
LESS THAN 15 MINUTES.	2 658	2 238	1 709	529	420		
15 TO 29 MINUTES.	635	440	299	141	195		
30 TO 44 MINUTES.	938	828	646	181	110		
45 TO 59 MINUTES.	460	428	339	89	32		
1 HOUR TO 1 HOUR AND 29 MINUTES	191	181	140	41	9		
1 HOUR AND 30 MINUTES OR MORE	151	136	114	23	15		
WORKS AT HOME	40	34	25	9	6		
NO FIXED PLACE OF WORK	24	18	14	4	5		
NOT REPORTED.	184	143	111	32	41		
MEDIAN.	36	30	21	9	6		
	24.1	25.5	26.2	23.3	15.0-		

¹LIMITED 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: 1978

(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.	3 788	3 186	1 967	1 219	602
HOUSE HEATING FUEL					
OWNER OCCUPIED.	1 601	1 260	661	599	341
UTILITY GAS.	1 124	919	507	411	205
BOTTLED, TANK, OR LP GAS.	76	33	3	29	43
FUEL OIL.	89	73	42	31	17
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	246	189	91	98	57
COAL OR COKE.	2	2	-	2	-
WOOD.	15	3	2	2	11
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	-	-	-	-	-
NONE.	50	42	15	26	9
RENTER OCCUPIED	2 187	1 926	1 306	620	261
UTILITY GAS.	1 197	1 039	658	381	158
BOTTLED, TANK, OR LP GAS.	53	24	2	23	28
FUEL OIL.	519	495	436	59	24
KEROSENE, ETC.	3	2	-	2	1
ELECTRICITY.	295	262	136	126	33
COAL OR COKE.	2	2	2	-	-
WOOD.	17	12	8	4	5
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	3	3	3	-	-
NONE.	98	86	61	26	11
WATER HEATING FUEL					
OWNER OCCUPIED.	1 601	1 260	661	599	341
NO HOT PIPED WATER.	20	5	2	4	14
WITH HOT PIPED WATER.	1 581	1 255	659	595	327
FUEL USED:					
UTILITY GAS.	1 147	954	535	420	192
BOTTLED, TANK, OR LP GAS.	75	31	2	29	44
FUEL OIL.	49	45	30	15	4
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	308	222	91	131	86
COAL OR COKE.	-	-	-	-	-
WOOD.	-	-	-	-	-
SOLAR HEAT.	-	-	-	-	-
OTHER FUEL.	-	-	-	-	-
NONE.	2	2	2	1	-
NOT REPORTED.	-	-	-	-	-
RENTER OCCUPIED	2 187	1 926	1 306	620	261
NO HOT PIPED WATER.	25	13	3	10	12
WITH HOT PIPED WATER.	2 162	1 913	1 302	611	249
FUEL USED:					
UTILITY GAS.	1 345	1 175	783	392	170
BOTTLED, TANK, OR LP GAS.	47	23	-	23	25
FUEL OIL.	413	401	357	44	12
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	351	308	157	151	43
COAL OR COKE.	-	-	-	-	-
WOOD.	-	-	-	-	-
SOLAR HEAT.	2	2	-	2	-
OTHER FUEL.	3	3	3	-	-
NONE.	2	2	2	-	-
NOT REPORTED.	-	-	-	-	-
COOKING FUEL					
OWNER OCCUPIED.	1 601	1 260	661	599	341
UTILITY GAS.	986	814	483	330	172
BOTTLED, TANK, OR LP GAS.	110	59	5	54	51
FUEL OIL.	1	-	-	-	1
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	495	387	173	214	109
COAL OR COKE.	-	-	-	-	-
WOOD.	7	-	-	-	7
OTHER FUEL.	-	-	-	-	-
NONE.	2	1	1	1	2
RENTER OCCUPIED	2 187	1 926	1 306	620	261
UTILITY GAS.	1 650	1 497	1 102	395	153
BOTTLED, TANK, OR LP GAS.	71	35	3	31	37
FUEL OIL.	2	2	2	-	-
KEROSENE, ETC.	-	-	-	-	-
ELECTRICITY.	445	378	187	191	67
COAL OR COKE.	-	-	-	-	-
WOOD.	1	-	-	-	1
OTHER FUEL.	2	2	2	-	-
NONE.	16	13	10	3	3

TABLE G-1. 'FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLD HEAD OF SPANISH ORIGIN: 1978--CONTINUED

(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	1 358	1 070	537	533	288		
LESS THAN \$10	29	20	12	8	9		
\$10 TO \$19.	323	252	112	140	71		
\$20 TO \$29.	299	241	131	110	58		
\$30 TO \$39.	244	191	96	95	53		
\$40 TO \$49.	166	127	64	63	39		
\$50 TO \$59.	111	94	46	48	17		
\$60 TO \$79.	96	79	39	40	17		
\$80 TO \$99.	36	27	14	14	9		
\$100 TO \$149.	47	33	22	10	14		
\$150 OR MORE.	6	6	2	4	-		
NO ELECTRICITY USED OR NOT REPORTED	1	1	-	1	-		
MEDIAN.	31	31	31	31	31		
SPECIFIED RENTER OCCUPIED ²	2 160	1 917	1 306	611	243		
LESS THAN \$10	244	224	127	98	20		
\$10 TO \$19.	624	553	391	162	70		
\$20 TO \$29.	413	361	242	120	52		
\$30 TO \$39.	168	150	102	49	18		
\$40 TO \$49.	66	53	41	13	13		
\$50 TO \$59.	77	72	51	21	5		
\$60 TO \$79.	34	31	14	16	4		
\$80 TO \$99.	15	11	3	8	3		
\$100 TO \$149.	10	9	5	4	2		
\$150 OR MORE.	4	4	4	-	-		
INCLUDED IN RENT.	500	443	325	118	57		
NO ELECTRICITY USED OR NOT REPORTED	5	4	2	3	1		
MEDIAN.	18	18	18	18	20		
MONTHLY COST PAID FOR UTILITY, BOTTLED, TANK, OR LP GAS							
SPECIFIED OWNER OCCUPIED ¹	1 358	1 070	537	533	288		
LESS THAN \$10	204	164	68	96	39		
\$10 TO \$19.	230	197	99	99	33		
\$20 TO \$29.	175	146	72	74	29		
\$25 TO \$29.	159	123	71	52	36		
\$30 TO \$39.	120	90	62	28	30		
\$40 TO \$49.	61	46	34	12	15		
\$50 TO \$69.	66	52	24	28	15		
\$70 TO \$99.	16	14	3	11	2		
\$100 OR MORE.	8	5	5	-	2		
NO GAS USED OR NOT REPORTED	185	134	47	87	51		
MEDIAN.	18	18	20	17	22		
SPECIFIED RENTER OCCUPIED ²	2 160	1 917	1 306	611	243		
LESS THAN \$10	558	522	356	166	36		
\$10 TO \$14.	286	246	188	58	40		
\$15 TO \$19.	196	172	112	60	23		
\$20 TO \$24.	85	65	29	36	20		
\$25 TO \$29.	57	47	36	11	10		
\$30 TO \$39.	72	62	47	15	9		
\$40 TO \$49.	38	36	24	11	2		
\$50 TO \$69.	24	21	18	3	2		
\$70 TO \$99.	8	7	7	-	1		
\$100 OR MORE.	2	-	-	-	2		
INCLUDED IN RENT.	599	533	378	155	66		
NO GAS USED OR NOT REPORTED	236	205	110	95	31		
MEDIAN.	11	11	11	11	14		
YEARLY COST PAID FOR FUEL OIL, KEROSENE, COAL, WOOD, ETC.							
SPECIFIED OWNER OCCUPIED ¹	1 358	1 070	537	533	288		
LESS THAN \$100	32	28	15	12	4		
\$100 TO \$199.	13	5	3	1	8		
\$200 TO \$299.	10	5	2	3	5		
\$300 TO \$399.	8	8	3	4	-		
\$400 TO \$499.	9	8	3	4	2		
\$500 TO \$599.	7	7	2	5	-		
\$600 TO \$699.	5	3	2	2	2		
\$700 TO \$799.	5	5	4	2	-		
\$800 OR MORE.	12	10	4	7	2		
FUELS NOT USED, FREE, OR NOT REPORTED	1 258	992	499	493	266		
MEDIAN.	252	321	205	375	***		

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

²EXCLUDES 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: 1978--CONTINUED

(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							
LESS THAN \$100.	2 160	1 917	1 306	611	243		
\$100 TO \$199.	9	7	5	2	1		
\$200 TO \$299.	5	3	2	2	1		
\$300 TO \$399.	9	6	4	3	3		
\$400 TO \$499.	10	8	3	5	2		
\$500 TO \$599.	-	-	-	1	-		
\$600 TO \$699.	6	6	2	4	-		
\$700 TO \$799.	5	3	3	-	2		
\$800 OR MORE.	3	2	-	2	1		
INCLUDED IN RENT.	550	526	461	65	24		
FUELS NOT USED, FREE, OR NOT REPORTED	1 564	1 354	826	528	209		
MEDIAN.	303	317	...	...	...
ALL OCCUPIED HOUSING UNITS.	3 788	3 186	1 967	1 219	602		
HEATING EQUIPMENT							
OWNER OCCUPIED							
WARM-AIR FURNACE.	1 601	1 260	661	599	341		
HEAT PUMP	657	518	230	288	139		
STEAM OR HOT WATER.	24	22	5	16	2		
BUILT-IN ELECTRIC UNITS	108	98	74	24	10		
FLOOR, WALL, OR PIPELESS FURNACE	85	64	43	22	20		
ROOM HEATERS WITH FLUE.	312	273	125	147	39		
ROOM HEATERS WITHOUT FLUE	86	60	41	19	27		
FIREPLACES, STOVES, OR PORTABLE HEATERS	196	122	84	39	74		
NONE.	82	62	44	18	20		
RENTER OCCUPIED							
WARM-AIR FURNACE	2 187	1 926	1 306	620	261		
HEAT PUMP	384	327	190	137	57		
STEAM OR HOT WATER	25	24	8	16	1		
BUILT-IN ELECTRIC UNITS	671	646	575	71	25		
FLOOR, WALL, OR PIPELESS FURNACE	125	110	51	59	15		
ROOM HEATERS WITH FLUE	458	410	202	208	48		
ROOM HEATERS WITHOUT FLUE	170	143	92	51	27		
FIREPLACES, STOVES, OR PORTABLE HEATERS	183	124	92	32	59		
NONE.	72	56	36	20	16		
98	86	61	26	11			
THERMOSTAT CONTROLLED HEATING EQUIPMENT							
OWNER OCCUPIED							
NO HEATING EQUIPMENT	1 601	1 260	661	599	341		
WITH HEATING EQUIPMENT	50	42	15	26	9		
NO THERMOSTAT CONTROL	1 551	1 218	646	573	333		
WITH THERMOSTAT CONTROL	469	354	221	133	115		
NOT CLOCK OPERATED	1 076	863	423	440	213		
CONSTANT TEMPERATURE SETTING MAINTAINED	833	662	318	344	171		
TEMPERATURE SETTING IS CHANGED	341	280	137	142	62		
OCCASIONALLY	488	380	179	201	108		
REGULARLY	147	110	51	58	37		
DON'T KNOW	326	259	117	142	67		
NOT REPORTED	13	10	9	1	4		
NOT REPORTED	2	2	2	-	-		
CLOCK OPERATED	241	199	103	96	42		
NOT REPORTED	2	2	2	-	1		
NOT REPORTED	6	2	2	-	5		
RENTER OCCUPIED							
NO HEATING EQUIPMENT	2 187	1 926	1 306	620	261		
WITH HEATING EQUIPMENT	98	86	61	26	11		
NO THERMOSTAT CONTROL	2 089	1 840	1 245	594	250		
WITH THERMOSTAT CONTROL	1 287	1 145	869	276	142		
NOT CLOCK OPERATED	792	689	373	316	103		
CONSTANT TEMPERATURE SETTING MAINTAINED	654	566	310	256	88		
TEMPERATURE SETTING IS CHANGED	249	216	127	89	32		
OCCASIONALLY	397	343	181	162	54		
REGULARLY	129	119	62	56	11		
DON'T KNOW	246	209	109	100	37		
NOT REPORTED	22	16	10	6	6		
NOT REPORTED	-	-	-	-	-		
CLOCK OPERATED	9	6	2	5	2		
NOT REPORTED	132	118	63	55	14		
NOT REPORTED	5	5	-	5	-		
NOT REPORTED	10	6	3	2	5		

¹EXCLUDES 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: 1978--CONTINUED

(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.....	3 788	3 186	1 967	1 219	602
UNITS OCCUPIED LAST WINTER.....	2 799	2 372	1 452	920	427
INSUFFICIENT HEAT					
CLOSURE OF ROOMS:					
OWNER OCCUPIED.....	1 418	1 121	598	523	298
WITH HEATING EQUIPMENT.....	1 372	1 083	582	501	289
NO ROOMS CLOSED.....	1 286	1 025	551	474	261
CLOSED CERTAIN ROOMS.....	80	55	29	26	25
LIVING ROOM ONLY.....	2	2	2	-	-
DINING ROOM ONLY.....	5	3	2	2	2
1 OR MORE BEDROOMS ONLY.....	62	42	21	22	19
OTHER ROOMS OR COMBINATION OF ROOMS.....	11	8	5	2	3
NOT REPORTED.....	1	-	-	-	1
NOT REPORTED.....	6	3	2	2	3
NO HEATING EQUIPMENT.....	46	38	15	22	9
RENTER OCCUPIED.....	1 380	1 251	855	397	129
WITH HEATING EQUIPMENT.....	1 329	1 203	817	386	126
NO ROOMS CLOSED.....	1 226	1 113	753	360	113
CLOSED CERTAIN ROOMS.....	87	77	59	18	10
LIVING ROOM ONLY.....	6	6	5	2	-
DINING ROOM ONLY.....	-	-	-	-	-
1 OR MORE BEDROOMS ONLY.....	70	61	46	15	9
OTHER ROOMS OR COMBINATION OF ROOMS.....	11	10	9	2	1
NOT REPORTED.....	-	-	-	-	-
NOT REPORTED.....	16	12	5	7	3
NO HEATING EQUIPMENT.....	51	48	37	11	3
ADDITIONAL HEAT SOURCE:					
OWNER OCCUPIED.....	1 418	1 121	598	523	298
WITH SPECIFIED HEATING EQUIPMENT.....	1 105	905	459	446	200
NO ADDITIONAL HEAT SOURCE USED.....	1 022	840	422	418	183
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.....	80	64	36	28	16
NOT REPORTED.....	3	2	2	-	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.....	313	216	138	78	97
RENTER OCCUPIED.....	1 380	1 251	855	397	129
WITH SPECIFIED HEATING EQUIPMENT.....	1 178	1 097	746	351	81
NO ADDITIONAL HEAT SOURCE USED.....	1 004	935	616	319	69
USED KITCHEN STOVE, FIREPLACE, OR PORTABLE HEATER.....	163	151	126	25	12
NOT REPORTED.....	11	11	4	7	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.....	203	154	109	46	48
ROOMS LACKING SPECIFIED HEAT SOURCE:					
OWNER OCCUPIED.....	1 418	1 121	598	523	298
WITH SPECIFIED HEATING EQUIPMENT.....	1 105	905	459	446	200
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.....	664	541	270	271	123
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.....	438	362	187	175	76
1 ROOM.....	85	70	39	31	15
2 ROOMS.....	107	82	47	34	26
3 ROOMS OR MORE.....	246	211	101	110	35
NOT REPORTED.....	3	2	2	-	2
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.....	313	216	138	78	97
RENTER OCCUPIED.....	1 380	1 251	855	397	129
WITH SPECIFIED HEATING EQUIPMENT.....	1 178	1 097	746	351	81
NO ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.....	727	681	510	171	47
ROOMS LACKING AIR DUCTS, REGISTERS, RADIATORS, OR HEATERS.....	429	395	225	170	34
1 ROOM.....	154	148	95	53	6
2 ROOMS.....	163	152	75	77	11
3 ROOMS OR MORE.....	113	95	56	40	17
NOT REPORTED.....	21	21	10	11	-
LACKING SPECIFIED HEATING EQUIPMENT OR NONE.....	203	154	109	46	48

¹EXCLUDES 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: 1978--CONTINUED

(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.	3 788	3 186	1 967	1 219	602
SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED DURING LAST 12 MONTHS					
OWNER OCCUPIED.					
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 601	1 260	661	599	341
WITH SELECTED HEATING EQUIPMENT ¹	415	286	184	101	129
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	1 186	975	477	498	212
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	962	793	368	425	169
SOLAR HEATING EQUIPMENT.	165	133	69	64	32
STOVE, BURNING WOOD OR COAL.	59	48	40	8	10
FIREPLACE, BURNING WOOD OR COAL.	-	-	-	-	-
PORTABLE ELECTRIC HEATER.	-	-	-	-	-
ROOM HEATER WITHOUT FLUE OR VENT.	-	-	-	-	-
BURNING GAS, OIL, OR KEROSENE.	-	-	-	-	-
OTHER.	19	16	7	10	2
NOT REPORTED.	2	2	-	2	-
NOT REPORTED.	2	-	-	-	2
RENTER OCCUPIED.	2 187	1 926	1 306	620	261
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	170	143	96	46	27
WITH SELECTED HEATING EQUIPMENT ¹	2 017	1 784	1 210	574	234
NO SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	1 924	1 703	1 147	556	221
WITH SUPPLEMENTAL HEATING EQUIPMENT ACQUIRED.	81	75	63	12	6
SOLAR HEATING EQUIPMENT.	-	-	-	-	-
STOVE, BURNING WOOD OR COAL.	-	-	-	-	-
FIREPLACE, BURNING WOOD OR COAL.	-	-	-	-	-
PORTABLE ELECTRIC HEATER.	-	-	-	-	-
ROOM HEATER WITHOUT FLUE OR VENT.	56	50	44	6	5
BURNING GAS, OIL, OR KEROSENE.	8	7	5	2	1
OTHER.	14	14	12	2	-
NOT REPORTED.	5	5	3	2	-
NOT REPORTED.	12	6	-	6	6
AGE OF HEATING EQUIPMENT					
OWNER OCCUPIED.					
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 601	1 260	661	599	341
WITH SELECTED HEATING EQUIPMENT ²	415	286	184	101	129
LESS THAN 4 YEARS.	1 186	975	477	498	212
4 TO 9 YEARS.	229	180	68	113	48
10 TO 19 YEARS.	331	259	123	137	71
20 TO 39 YEARS.	268	219	118	101	49
40 YEARS OR MORE.	181	162	71	92	18
DON'T KNOW.	14	10	7	3	3
NOT REPORTED.	105	92	49	43	13
NOT REPORTED.	59	51	42	9	9
MAINTENANCE OR MODIFICATION OF HEATING EQUIPMENT DURING LAST 12 MONTHS					
OWNER OCCUPIED.					
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 601	1 260	661	599	341
WITH SELECTED HEATING EQUIPMENT ²	415	286	184	101	129
NO MAINTENANCE OR MODIFICATION.	1 186	975	477	498	212
WITH MAINTENANCE OR MODIFICATION.	962	793	368	425	169
NOT REPORTED.	165	133	69	64	32
NOT REPORTED.	59	48	40	8	10
CONTRACTED MAINTENANCE OF HEATING EQUIPMENT					
OWNER OCCUPIED.					
WITHOUT SELECTED HEATING EQUIPMENT OR NONE.	1 601	1 260	661	599	341
WITH SELECTED HEATING EQUIPMENT ²	415	286	184	101	129
NO MAINTENANCE CONTRACT.	1 186	975	477	498	212
WITH MAINTENANCE CONTRACT.	1 005	824	383	441	181
NOT REPORTED.	122	102	52	51	20
NOT REPORTED.	59	48	42	7	10

¹EXCLUDES FIREPLACES, STOVES, AND PORTABLE ROOM HEATERS.

²EXCLUDES 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: 1978--CONTINUED

(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.	1 601	1 260	661	599	341		
NO HOT PIPED WATER.	20	5	2	4	14		
WITH HOT PIPED WATER.	1 581	1 255	659	595	327		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	1 534	1 218	637	581	316		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	10	9	5	4	1		
NOT REPORTED.	35	25	15	10	10		
NOT REPORTED.	-	-	-	-	-		
RENTER OCCUPIED	2 187	1 926	1 306	620	261		
NO HOT PIPED WATER.	25	13	3	10	12		
WITH HOT PIPED WATER.	2 162	1 913	1 302	611	249		
NO SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT	2 081	1 840	1 257	583	240		
WITH SUPPLEMENTAL SOLAR WATER HEATING EQUIPMENT ¹	15	13	8	5	2		
NOT REPORTED.	63	56	35	21	7		
NOT REPORTED.	-	-	-	-	-		
AIR CONDITIONING							
OWNER OCCUPIED.	1 601	1 260	661	599	341		
WITH AIR CONDITIONING.	749	607	297	310	142		
ROOM UNITS.	407	342	193	150	64		
1	236	204	110	94	32		
2	133	106	62	44	27		
3	28	23	14	9	5		
4	9	8	7	2	1		
5 OR MORE	-	-	-	-	-		
CENTRAL SYSTEM.	343	265	105	160	78		
WITH NO AIR CONDITIONING.	852	653	364	289	199		
RENTER OCCUPIED	2 187	1 926	1 306	620	261		
WITH AIR CONDITIONING.	663	580	351	228	84		
ROOM UNITS.	434	371	245	126	63		
1	346	289	194	95	57		
2	73	69	43	27	4		
3	14	11	8	3	3		
4	-	-	-	-	-		
5 OR MORE	2	2	-	2	-		
CENTRAL SYSTEM.	229	208	106	102	21		
WITH NO AIR CONDITIONING.	1 524	1 347	954	392	177		
ALL OCCUPIED HOUSING UNITS.	3 788	3 186	1 967	1 219	602		
1-UNIT STRUCTURES INCLUDING MOBILE HOMES AND TRAILERS	2 119	1 637	796	841	482		
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING							
OWNER OCCUPIED.	1 459	1 132	557	574	327		
ALL WINDOWS COVERED.	228	163	67	97	65		
SOME WINDOWS COVERED.	93	73	46	28	20		
NO WINDOWS COVERED.	1 122	883	437	446	239		
NOT REPORTED.	15	12	8	4	2		
RENTER OCCUPIED	660	505	238	267	155		
ALL WINDOWS COVERED.	43	31	13	17	13		
SOME WINDOWS COVERED.	27	18	9	9	9		
NO WINDOWS COVERED.	552	423	206	217	129		
NOT REPORTED.	38	34	10	24	4		
STORM DOORS							
OWNER OCCUPIED.	1 459	1 132	557	574	327		
ALL DOORS COVERED.	212	160	81	79	52		
SOME DOORS COVERED.	111	74	36	38	36		
NO DOORS COVERED.	1 118	884	432	452	234		
NOT REPORTED.	18	13	8	5	5		
RENTER OCCUPIED	660	505	238	267	155		
ALL DOORS COVERED.	40	27	15	12	13		
SOME DOORS COVERED.	27	18	12	6	9		
NO DOORS COVERED.	550	422	198	224	128		
NOT REPORTED.	43	38	13	25	5		

¹LIMITED 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: 1978--CONTINUED

(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							
YES	1 459	1 132	557	574	327		
NO.	904	689	315	373	215		
DON'T KNOW.	453	359	199	161	93		
NOT REPORTED.	88	71	35	36	17		
	13	12	8	4	1		
RENTER OCCUPIED							
YES	660	505	238	267	155		
NO.	124	76	29	47	48		
DON'T KNOW.	313	242	127	114	71		
NOT REPORTED.	187	155	72	83	32		
	37	33	10	23	4		
INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS							
OWNER OCCUPIED							
STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERINGS:	1 459	1 132	557	574	327		
NO WINDOWS COVERED	1 122	883	437	446	239		
SOME OR ALL WINDOWS COVERED	322	236	112	124	85		
NONE ADDED OR INSTALLED	242	178	93	84	64		
SOME OR ALL ADDED OR INSTALLED	67	48	17	31	19		
NOT REPORTED.	13	11	2	9	2		
NOT REPORTED.	15	12	8	4	2		
STORM DOORS:							
NO DOORS COVERED	1 118	884	432	452	234		
SOME OR ALL DOORS COVERED	323	234	117	117	88		
NONE ADDED OR INSTALLED	257	182	95	87	75		
SOME OR ALL ADDED OR INSTALLED	43	33	12	21	9		
NOT REPORTED.	23	19	10	9	4		
NOT REPORTED.	18	13	8	5	5		
ATTIC OR ROOF INSULATION:							
NO ATTIC OR ROOF INSULATION	453	359	199	161	93		
WITH ATTIC OR ROOF INSULATION	904	689	315	373	215		
NONE ADDED OR INSTALLED	796	607	285	322	189		
SOME OR ALL ADDED OR INSTALLED	82	60	17	43	22		
LESS THAN 3 INCHES ADDED	5	5	3	2	-		
3 TO 6 INCHES ADDED	48	37	10	27	11		
6 INCHES OR MORE ADDED	19	11	3	7	9		
DON'T KNOW.	6	5	-	5	2		
NOT REPORTED.	3	3	-	3	1		
NOT REPORTED.	26	21	14	8	5		
DON'T KNOW.	88	71	35	36	17		
NOT REPORTED.	13	12	8	4	1		
WALL INSULATION:							
NONE ADDED OR INSTALLED	1 380	1 066	537	529	314		
SOME OR ALL ADDED OR INSTALLED	63	53	10	43	11		
NOT REPORTED.	15	13	10	3	2		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:							
NONE ADDED OR INSTALLED	1 235	955	477	478	280		
SOME OR ALL ADDED OR INSTALLED	185	147	69	78	38		
DON'T KNOW.	28	20	5	15	8		
NOT REPORTED.	11	10	7	3	1		
OTHER INSULATION:							
NONE ADDED OR INSTALLED	1 423	1 102	546	556	321		
SOME OR ALL ADDED OR INSTALLED	23	18	5	14	5		
NOT REPORTED.	12	12	7	5	1		

TABLE G-1. FUEL, FUEL COST, HEATING, AIR CONDITIONING, INSULATION, AND TRANSPORTATION CHARACTERISTICS FOR HOUSING UNITS WITH HOUSEHOLD HEAD OF SPANISH ORIGIN: 1978--CONTINUED

(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	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						
NO WINDOWS COVERED	660	505	238	267		
SOME OR ALL WINDOWS COVERED	552	423	206	217		
NONE ADDED OR INSTALLED	70	48	22	26		
SOME OR ALL ADDED OR INSTALLED	61	43	21	22		
NOT REPORTED	7	4	2	2		
NOT REPORTED	38	34	10	24		
STORM DOORS:						
NO DOORS COVERED	550	422	198	224		
SOME OR ALL DOORS COVERED	67	45	27	17		
NONE ADDED OR INSTALLED	53	36	22	14		
SOME OR ALL ADDED OR INSTALLED	12	7	5	2		
NOT REPORTED	2	1	-	1		
NOT REPORTED	43	38	13	25		
ATTIC OR ROOF INSULATION:						
NO ATTIC OR ROOF INSULATION	313	242	127	114		
WITH ATTIC OR ROOF INSULATION	124	76	29	47		
NONE ADDED OR INSTALLED	101	64	27	36		
SOME OR ALL ADDED OR INSTALLED	15	7	-	7		
LESS THAN 3 INCHES ADDED	2	-	-	-		
3 TO 6 INCHES ADDED	6	5	-	5		
6 INCHES OR MORE ADDED	-	-	-	-		
DON'T KNOW	7	2	-	2		
NOT REPORTED	-	-	-	-		
NOT REPORTED	8	5	2	3		
DON'T KNOW	187	155	72	83		
NOT REPORTED	37	33	10	23		
WALL INSULATION:						
NONE ADDED OR INSTALLED	603	462	222	240		
SOME OR ALL ADDED OR INSTALLED	7	2	2	1		
NOT REPORTED	50	41	15	26		
CAULKING OR WEATHER STRIPPING OF EXTERIOR DOORS OR WINDOWS:						
NONE ADDED OR INSTALLED	533	409	196	213		
SOME OR ALL ADDED OR INSTALLED	35	27	18	9		
DON'T KNOW	56	37	13	24		
NOT REPORTED	36	32	11	21		
OTHER INSULATION:						
NONE ADDED OR INSTALLED	612	468	224	244		
SOME OR ALL ADDED OR INSTALLED	4	2	2	-		
NOT REPORTED	44	35	13	22		
COST OF INSULATION ITEMS ADDED OR INSTALLED IN LAST 12 MONTHS						
OWNER OCCUPIED	1 459	1 132	557	574		
NO INSULATION ADDED OR INSTALLED	1 092	843	428	415		
WITH INSULATION ADDED OR INSTALLED	285	220	93	127		
LESS THAN \$50	115	87	45	42		
\$50 TO \$99	24	14	7	10		
\$100 TO \$199	27	23	9	14		
\$200 TO \$399	31	23	10	13		
\$400 OR MORE	30	23	2	22		
DON'T KNOW	20	15	5	10		
NOT REPORTED	37	34	15	18		
MEDIAN	50-	50-	50-	97		
NOT REPORTED OR DON'T KNOW	81	69	37	32		
ONLY ADDED OR INSTALLED STORM WINDOWS OR OTHER PROTECTIVE WINDOW COVERING						
LESS THAN \$50	26	18	5	12		
\$50 TO \$99	16	11	2	9		
\$100 TO \$199	2	-	-	5		
\$200 TO \$399	2	2	2	2		
\$400 OR MORE	2	2	-	-		
DON'T KNOW	-	-	-	-		
NOT REPORTED	5	3	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: 1978--CONTINUED

(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	11	9	3	5	2		
LESS THAN \$50	3	3	3	-	-		
\$50 TO \$99.	2	1	-	1	2		
\$100 TO \$199.	4	3	-	3	1		
\$200 TO \$399.	2	2	-	2	-		
\$400 OR MORE.	-	-	-	-	-		
DON'T KNOW.	-	-	-	-	-		
NOT REPORTED.	-	-	-	-	-		
MEDIAN. . . . .	...	...	...	...	...
ONLY ADDED OR INSTALLED ATTIC, ROOF, OR WALL INSULATION	44	31	10	21	13		
LESS THAN \$50	6	5	3	2	1		
\$50 TO \$99.	8	4	2	2	4		
\$100 TO \$199.	7	6	2	2	2		
\$200 TO \$399.	3	2	-	2	2		
\$400 OR MORE.	9	6	-	6	3		
DON'T KNOW.	2	2	-	2	1		
NOT REPORTED.	8	6	3	3	2		
MEDIAN. . . . .	...	...	...	...	...
ALL OCCUPIED HOUSING UNITS.	3 788	3 186	1 967	1 219	602		
HEAD'S PRINCIPAL MEANS OF TRANSPORTATION TO WORK¹							
OWNER OCCUPIED.	1 215	982	497	485	233		
DRIVES SELF	891	724	344	379	167		
CARPOOL	244	195	109	86	49		
MASS TRANSPORTATION	45	40	33	7	5		
BICYCLE OR MOTORCYCLE	5	3	2	2	-		
TAXICAB	-	-	-	-	-		
WALKS ONLY.	15	11	7	4	4		
OTHER MEANS	2	2	-	2	-		
WORKS AT HOME	13	7	2	5	6		
NOT REPORTED.	2	2	-	-	-		
RENTER OCCUPIED	1 483	1 291	835	456	191		
DRIVES SELF	781	660	376	283	121		
CARPOOL	274	228	121	107	45		
MASS TRANSPORTATION	267	262	241	21	4		
BICYCLE OR MOTORCYCLE	12	12	6	5	-		
TAXICAB	-	-	-	-	-		
WALKS ONLY.	117	103	75	28	14		
OTHER MEANS	5	5	2	3	1		
WORKS AT HOME	25	18	10	8	7		
NOT REPORTED.	3	3	3	-	-		
DISTANCE FROM HOME TO WORK¹							
OWNER OCCUPIED.	1 215	982	497	485	233		
LESS THAN 1 MILE.	76	52	29	24	23		
1 TO 4 MILES.	255	190	103	87	65		
5 TO 9 MILES.	269	245	159	86	24		
10 TO 19 MILES.	255	218	88	130	37		
20 TO 29 MILES.	108	92	30	62	16		
30 TO 49 MILES.	52	32	8	23	20		
50 MILES OR MORE.	21	17	13	4	4		
WORKS AT HOME	13	7	2	5	6		
NO FIXED PLACE OF WORK	140	106	49	57	34		
NOT REPORTED.	25	23	14	9	2		
MEDIAN.	8.5	8.7	7.6	10.9	6.3		
RENTER OCCUPIED	1 483	1 291	835	456	191		
LESS THAN 1 MILE.	187	147	97	50	40		
1 TO 4 MILES.	350	292	176	116	59		
5 TO 9 MILES.	311	285	201	84	26		
10 TO 19 MILES.	264	246	155	91	19		
20 TO 29 MILES.	67	57	39	18	11		
30 TO 49 MILES.	49	40	20	20	9		
50 MILES OR MORE.	10	5	5	-	5		
WORKS AT HOME	25	18	10	8	7		
NO FIXED PLACE OF WORK	125	112	66	46	12		
NOT REPORTED.	94	90	67	24	4		
MEDIAN.	6.3	6.7	6.8	6.4	4.0		

¹LIMITED 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: 1978--CONTINUED

(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 WORK¹							
OWNER OCCUPIED	1 215	982	497	485	233		
LESS THAN 15 MINUTES.	328	251	131	120	76		
15 TO 29 MINUTES.	467	405	218	187	62		
30 TO 44 MINUTES.	146	124	60	64	23		
45 TO 59 MINUTES.	61	46	14	32	16		
1 HOUR TO 1 HOUR AND 29 MINUTES	47	37	19	19	10		
1 HOUR AND 30 MINUTES OR MORE	7	4	3	1	3		
WORKS AT HOME	13	7	2	5	6		
NO FIXED PLACE OF WORK.	140	106	49	57	34		
NOT REPORTED.	5	3	2	1	2		
MEDIAN.	21.4	21.7	21.2	22.2	19.5		
RENTER OCCUPIED	1 483	1 291	835	456	191		
LESS THAN 15 MINUTES.	426	334	178	157	92		
15 TO 29 MINUTES.	481	433	291	142	49		
30 TO 44 MINUTES.	225	209	151	58	16		
45 TO 59 MINUTES.	92	86	60	26	6		
1 HOUR TO 1 HOUR AND 29 MINUTES	70	64	50	13	7		
1 HOUR AND 30 MINUTES OR MORE	19	16	16	-	2		
WORKS AT HOME	25	18	10	8	7		
NO FIXED PLACE OF WORK.	125	112	66	46	12		
NOT REPORTED.	20	19	13	6	1		
MEDIAN.	22.1	23.2	25.0	19.4	15.0-		

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

Appendix A

Area Classifications and Definitions and Explanations of Subject Characteristics

AREA CLASSIFICATIONS	App-2	Rental vacancy rate	App-9	Fuels used for house heating, water heating, and cooking	App-14
Urban and rural residence	App-2	Duration of vacancy	App-9	Services and Neighborhood Conditions	App-14
Farm-nonfarm residence	App-2	Housing unit boarded up	App-9	Extermination service	App-14
Counties	App-2	Utilization Characteristics	App-9	Overall opinion of neighborhood	App-14
Standard Metropolitan Statistical Areas	App-2	Persons	App-9	Financial Characteristics	App-14
DEFINITIONS AND EXPLANA- TIONS OF SUBJECT CHARACTERISTICS	App-2	Rooms	App-9	Value	App-14
General	App-2	Persons per room	App-9	Value-income ratio	App-14
Comparability with 1973 through 1977 Annual Housing Surveys	App-2	Bedrooms	App-9	Sales price asked	App-15
Comparability with 1970 Census of Housing data	App-2	Structural Characteristics	App-9	Garage or carport on property	App-15
Comparability with 1970 Census of Population data	App-3	Conventional housing units	App-9	Mortgage	App-15
Comparability with other current reports	App-3	Complete kitchen facilities	App-10	Installment loan or contract	App-15
Living Quarters	App-4	Condition of kitchen facilities	App-10	Monthly mortgage payment	App-15
Housing units	App-4	Basement	App-10	Real estate taxes last year	App-15
Group quarters	App-4	Year structure built	App-10	Property insurance	App-15
Rules for mobile homes, hotels, rooming houses, etc.	App-5	Units in structure	App-10	Selected monthly housing costs	App-15
Institutions	App-5	Elevator in structure	App-10	Selected monthly housing costs as percentage of income	App-16
Year-round housing units	App-5	Insulation	App-10	Purchase price of mobile home	App-16
Changes in the Housing Inventory	App-5	Insulation added or installed during last 12 months	App-11	Year mobile home acquired	App-16
Units added by new construc- tion	App-5	Cost of insulation added or installed during last 12 months	App-11	Mobile home acquired new	App-16
Units lost from the inventory	App-5	In group of 6 or more mobile homes	App-11	Contract rent	App-16
Units lost through demolition or disaster	App-5	Roof	App-11	Gross rent	App-16
Units lost through other means	App-5	Interior walls and ceilings	App-11	Gross rent in nonsubsidized housing	App-16
Unspecified units	App-6	Interior floors	App-11	Gross rent as percentage of income	App-16
Occupancy and Vacancy Char- acteristics	App-6	Abandoned or boarded-up buildings on same street	App-11	Gross rent in nonsubsidized housing as percentage of income	App-16
Population in housing units	App-6	Overall opinion of structure	App-11	Inclusion in rent (garbage and trash collection and furniture)	App-16
Occupied housing units	App-6	Common stairways	App-11	Rent asked	App-17
Race	App-6	Light fixtures in public halls	App-11	Public, private, or subsidized housing	App-17
Spanish origin	App-6	Electric wiring	App-11		
Tenure	App-7	Electric wall outlets	App-11		
Site tenure	App-7	Electric fuses and circuit breakers	App-11		
Previous occupancy	App-7	Plumbing Characteristics	App-12		
Cooperatives and condomin- iums	App-7	Plumbing facilities	App-12		
Reason for no-cash-rent occupancy	App-7	Complete bathrooms	App-12		
Duration of occupancy	App-7	Source of water or water supply	App-12		
Year head moved into unit	App-7	Sewage disposal	App-12		
Recent movers	App-7	Flush toilet	App-12		
Present and previous units of recent movers	App-7	Equipment and Fuels	App-13		
Same or different head	App-7	Telephone available	App-13		
Main reason for move into present unit	App-7	Heating equipment	App-13		
Home ownership	App-8	Thermostat controlled heating equipment	App-13		
Owner or manager on property	App-8	Age of heating equipment	App-13		
Vacant housing units	App-8	Maintenance or modification of heating equipment during last 12 months	App-13		
Vacancy status	App-8	Contracted maintenance of heating equipment	App-13		
Homeowner vacancy rate	App-9	Supplemental heating equipment acquired during last 12 months	App-13		
		Supplemental solar water heating equipment	App-13		
		Insufficient heat	App-13		
		Air conditioning	App-14		

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 1978 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 1977 Annual Housing Surveys—Most of the concepts and definitions used in the 1973 through 1978 reports are essentially the same. However, there are significant differences in the measurement of housing losses between the 1973 report and the 1974 through 1978 reports. In the 1974 through 1978 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 1978 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 1978 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 1978 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 1978 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 1978 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 1978 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 1978 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 1978 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 1978 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 non-residential use (e.g., the rooms in a warehouse where a watchman lives), as well as in places such as tents, caves, and old railroad cars.

Housing units—A housing unit is a house, an apartment, a group of rooms, or a single room occupied or intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants do not live and eat with any other persons in the structure and which have either (1) direct access from the outside of the building or through a common hall which is used or intended to be used by the occupants of another unit or by the general public or (2) complete kitchen facilities for the exclusive use of the occupants. The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements (except as described in the section on group quarters). For vacant units, the criteria of separateness, direct access, and complete kitchen facilities for exclusive use are applied to the intended occupants whenever possible. If the information cannot be obtained, the criteria are applied to the previous occupants. Both occupied and vacant housing units are included in the housing inventory, except that mobile homes, trailers, tents, caves, boats, railroad cars, and the like, are included only if they are occupied.

Group quarters—Group quarters are living arrangements for institutional inmates or for other groups containing five or more persons not related to the person in charge. Group quarters are located most frequently in institutions, boarding houses, military barracks, college dormitories, fraternity and sorority houses,

hospitals, monasteries, convents, and ships. A house or apartment is considered group quarters if it is shared by the person in charge and five or more nonrelatives, or, if there is no person in charge, by six or more unrelated persons. Information on the housing characteristics of group quarters was not collected.

Rules for mobile homes, hotels, rooming houses, etc.—Mobile homes or trailers, tents, boats, or railroad cars are not considered housing units if vacant, used only for business, or used only for vacations.

Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; i.e., persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only if located in hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from everyone else in the building and have either direct access or complete kitchen facilities for exclusive use, their quarters are classified as separate housing units. The remaining quarters are combined. If the combined quarters contain four or fewer roomers unrelated to the 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 1978 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 1978 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 1978 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 1978 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 1978 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 1978 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 1978 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 1978 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 1978 surveys, the data on losses refer to all housing unit losses including losses of units in structures which still contained one or more housing units.

Unspecified units—There are other components of change in the housing inventory for which the Annual Housing Survey provides no specific measures. The survey procedures do not include a measure of conversions and mergers and units added from other sources such as nonresidential structures. The net effect of these omissions on the change in the total housing inventory is not known.

Units changed by conversion—Conversion refers to the creation of two or more housing units from fewer units through structural alteration or change in use. Structural alteration includes such changes as adding a room or installing partitions to form another housing unit. Change in use is a simple rearrangement in the use of space without structural alteration, such as locking a door which closes off one or more rooms to form a separate housing unit.

Units changed by merger—A merger is the result of combining two or more housing units into fewer units through structural alteration or change in use. Structural alteration includes such changes as the removal of partitions or dismantling of kitchen facilities. Change in use may result from a simple rearrangement of space without structural alteration, such as unlocking a door which formerly separated two housing units. A change in use also occurs, for example, when a family occupies both floors of a house which formerly contained a separate housing unit on each floor.

Units added through other sources—Any housing unit added to the inventory through sources other than new construction or conversion is classified as a unit added through other sources. This component includes units created from living quarters previously classified as group quarters and units created from nonresidential space such as a store, garage, or barn. Also included are units moved from one site to another. Such units, if moved within the same area, do not necessarily result in a net addition to the total inventory since they presumably represent units lost in the place from which they were moved. A previously vacant mobile home

or trailer, whether on a different site or the same site, is a net addition if currently occupied as a housing unit.

Occupancy and Vacancy Characteristics

Population in housing units—Included are all persons living in housing units. Persons living in group quarters are excluded.

Occupied housing units—A housing unit is classified as occupied if a person or group of persons is living in it at the time of the interview or if the occupants are only temporarily absent—for example, on vacation. However, if the unit was occupied entirely by persons with a usual place of residence elsewhere, the unit is classified as vacant. By definition, the count of occupied housing units is the same as the count of households.

Race—The classification 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 1978 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.

Reason for no-cash-rent occupancy—For housing units which are occupied without payment of cash rent, data are shown on the "reason for occupancy"; i.e., whether the unit is provided by a farm related job, such as a tenant farmer, farm manager, foreman, or laborer; provided by a nonfarm related job, such as a minister, resident manager, or janitor; or provided by a relative or friend.

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 into present unit—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, entered or left U.S. Armed Forces, retirement, new job or looking for work, commuting reasons, school attendance, and other job related reasons.

The category "family status" refers to reasons such as needed larger house or apartment, widowed, separated, divorced, moved to be closer to relatives, newly married, family increased in size, family decreased in size, wanted to establish own household, schools, 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, schools, wanted to rent residence, wanted residence with more conveniences, occurrence of natural disaster, and wanted a change of climate.

The category "other reasons" includes reasons for moving 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 or for sale.

Rented or sold, not occupied—If any money rent has been paid or agreed upon but the new renter has not moved in as of the date of the interview, or if the unit has recently been sold but the new owner has not yet moved in, the year-round vacant unit is classified as "rented or sold, not occupied."

Held off market—A housing unit which is neither for sale, nor for rent, or rented or sold, not occupied, is classified as held off market. Included are units held for occasional use, units temporarily occupied by persons with a usual residence elsewhere, and other vacants.

Held for occasional use—This category consists of vacant year-round units which are held for weekend or other occasional use throughout the year. The intent of this question was to identify homes reserved by their owners as second homes. Because of the difficulty of distinguishing between this category and seasonal vacancies, it is possible that some "second homes" are classified as "seasonal" and vice versa.

Temporarily occupied by URE (persons with 'usual residence elsewhere)—If all the persons in a housing unit usually live elsewhere, that unit is classified as vacant provided the usual place of residence is held for the household and is not offered for rent or for sale. For example, a beach cottage occupied at the time of the interview by a family who has a usual place of residence in the city is included in the count of vacant units. If the house in the city were in the survey sample, it would be reported "occupied" and would be included in the count of occupied units since the occupants are only temporarily absent.

Other vacant—If a vacant year-round unit does not fall into any of the classifications specified in the distribution, it is classified as "other vacant." For example, this category includes units held for settlement of an estate, units held for occupancy by a caretaker or janitor, and units held for personal reasons of the owner. If separate distributions are not presented for "held for occasional use" or "temporarily occupied by URE" housing units, these categories are also included.

Characteristics of vacant housing are limited to year-round vacant units. Vacant units intended for seasonal occupancy and vacant units held for migratory labor are excluded because it is difficult to obtain reliable information for them. However, counts of seasonal units are given in parts A and E of this report series.

The 1974 through 1978 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 1978 tabulations. For 1974 through 1978, 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 1978 data for vacant units adhere more closely to the independent estimates than the 1973 data.

Homeowner vacancy rate—The 1978 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 1978 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 ration 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 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.

Condition of kitchen facilities—Housing units with complete kitchen facilities were classified as to whether all the kitchen facilities were in usable condition. If one or more of the kitchen facilities (sink, range or cookstove, and refrigerator) could not be used for its intended purpose, the unit was classified as having "1 or more not usable." Kitchen facilities that normally function properly, but which were temporarily out of use (two weeks or less) because of a breakdown, were classified as usable.

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.

Basements are further classified by signs of water leakage. The category "with signs of water leakage" consists of units in which the basement shows signs of water having leaked in from the outside, even if the signs only appear when it rains or during other similar situations. "No signs of water leakage" means that the basement shows no signs of water leakage, or that the signs of water leakage are caused by a problem inside the structure such as faulty plumbing. If the basement shows signs of water having leaked in from the outside but the problem causing the leakage has been corrected, the unit was classified as having no signs of water leakage.

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 installation charges paid for. 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 of 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.

Abandoned or boarded-up buildings on same street—Statistics on abandoned or 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 abandoned or 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 fuses and circuit breakers—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 "blown fuses or tripped breaker switches."

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.

Breakdowns or failures in the water supply were asked when the housing unit had piped water inside the structure. The water may be available from sources such as a sink, washbasin, bathtub, or shower. A housing unit is classified as having no piped water inside structure if the unit has no piped water or if the only piped water available is outside the structure—for example, on an open porch or in another building. Data on breakdowns or failures of water supply are shown if the housing unit was occupied by the head of the household at least 90 days prior to the interview and if the breakdown or failure lasted 6 consecutive hours or longer during the 90 days prior to the interview.

Breakdowns or failures in the water supply mean that the housing unit was completely without running water from its regular source. A housing unit was considered to be completely without running water if (1) the water system serving the unit supplied no water at all, or (2) no water was available in the

unit due to a breakdown or failure in the water supply inside the structure, or (3) the equipment and facilities (i.e., faucets in the kitchen and the bathroom sinks, faucet and shower in the bathtub, flush toilet, etc.) were all inoperable. If the faucet in the kitchen was broken, but the one in the bathtub was working, the unit was not classified as being completely without water.

Units with a breakdown or failure in the water supply are also classified according to the number of breakdowns or failures and to the most common source of the problem. "Problems inside the building" refer to such problems as broken pipes in the unit (or building) or turning the water off in the unit (or building) for maintenance and repairs. "Problems outside the building" refer to such problems as power failures, breaks in the main water line, or shutdowns by the water company for maintenance and repairs.

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.

The data on breakdowns or failures in the means of sewage disposal are limited to units in which the means of sewage disposal was a public sewer, septic tank, or cesspool. The breakdown or failure may have been the result of an overloaded sewage disposal system, lack of running water, a broken or cracked tank, etc. Data on breakdowns are shown if the housing unit was occupied by the head of the household at least 90 days prior to the interview and if the breakdown or failure lasted 6 consecutive hours or longer during the 90 days prior to the interview.

Flush toilet—The statistics on breakdowns or failures of flush toilet are limited to units that had all plumbing facilities with only one flush toilet; that is, one complete bathroom or one complete bathroom plus a half bath without flush toilet. The flush toilet may be completely unusable because of broken pipes, stopped up soil pipe, lack of water supplied to the flush toilet, or some other reason.

Housing units with breakdown or failure of flush toilet are classified by the number of breakdowns or failures and to the most common source of the problem. "Problems inside the building" refer to such breakdowns or failures as broken pipes in the unit (or building), a cracked or broken bowl, or faulty flushing mechanism. "Problems outside the building" refer to such breakdowns or failures as breaks in the main water or sewer line or shutdowns by the water company for maintenance or repairs.

Data on breakdowns or failures of flush toilet are shown if the housing unit was occupied by the head of household at least 90 days prior to the interview, and if the breakdown or

failure lasted 6 consecutive hours or more during the 90 days prior to the interview.

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 1978.

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 ther-

mostat if it is available in the housing unit for the use of the occupants. A “clock operated” thermostat is capable of automatically changing its 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 various pieces of the heating equipment are of different ages the major piece’s age 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 whose major source of heat is 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 1978.

Separate data are shown for units with additional heat source, rooms which lacked specified heat source, and units with closed rooms. 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 rooms which were closed because they could not be kept warm. The rooms must have been closed for 7 consecutive days or longer during the previous winter, and the unit must have "heating equipment." For this item, also, the kitchen was not considered a room.

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

Extermination service—The statistics on extermination service refer to households that have been at their present address for at least 3 months prior to the date of the interview and who reported that they had seen mice or rats or signs or traces of their presence *inside* the house or building during the last 3 months. Signs of mice and rats or traces of their presence include droppings, holes in the wall, or ripped or torn food containers. "Regular extermination service" refers to periodic visits by a licensed company or individual who uses chemicals and sprays to control or kill pests and rodents. The regular service interval may be once a month, four times a year, or any other such interval. "Irregular extermination service" includes visits by an exterminator who is called only when needed by the household or building manager, or where it is known that a building is serviced but it is not known whether the service is regular or irregular. "No extermination service" includes units in a house or building that has not been serviced during the 12 months prior to the interview and where it is not known if there is any extermination service.

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.

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 1978 income statistics are for the 12 months prior to the date of the interview. For 1970, the income statistics cover the calendar year 1969.

Sales price asked—For vacant housing units, the sales price is the amount asked for the property at the time of the interview and may differ from the price at which the property is sold. The statistics on sales price asked are shown only for vacant for sale 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.

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 installments. Property insurance is shown only as a component of "Selected monthly housing costs" and "Selected monthly housing costs as percentage of income." The data are presented separately for owner-occupied, 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 non-subsidized 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 computed separately for each unit and is rounded to the nearest whole number. For gross rent and income, the dollar amounts are used in the computation. Units for which no cash rent is paid and units occupied by families or primary individuals who report no income or a net loss comprise the category "not computed."

The 1978 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 non-subsidized 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 1978, 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: 1978

(Sect. I-V and VI-B-VII) Form Approved:
OMB No. 63-R1593

(Sect. VIA) Form Approved:
OMB No. 36-R240

1. Control number (cc 1)		2. HH No. (cc 2)		3. Sample (cc 4) (Circle one)		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.	
PSU	Segment	Serial		I.D. Items	TYPE A	TYPE B	TYPE C
				1*	1*	1*	1*
				2-5*	2-5*	2-5*	2-5*
				6-8	6-8	6-8	6-8
				QUESTIONNAIRE ITEMS TO BE FILLED FOR NONINTERVIEWS			
				Section I items 9a 9b and c (Where appropriate)			
				Section II, pages 3-4 Section III, pages 5-6 Section VIII, page 3a			
				Section I items 9c			
				Section II items 11 12			
				Section III items 13			
				Section VIII, page 3a			
<p>NOTE - Fill item 1 only if AHSS-2 is not labeled or if control number on label is incorrect.</p> <p>**NOTE - In item 5d enter the relationship of the person providing the information for the noninterview or vacant: e.g., Landlord or resident manager. If no one was consulted, leave item 5d blank.</p>							
TRANSCRIBE FROM CONTROL CARD							
<p>10. Structure originally built (cc 6)</p> <p>(N) 1 <input type="checkbox"/> Occupied - Skip to Section IV/A, page 10 <input type="checkbox"/> April 1, 1970 or later <input type="checkbox"/> Month (01-12) / Year</p> <p>(W) OR</p> <p>(W) 1 <input type="checkbox"/> 1969 to March 31, 1970 <input type="checkbox"/> 1965-1968 <input type="checkbox"/> 1960-1964 <input type="checkbox"/> 1950-1959 <input type="checkbox"/> 1940-1949 <input type="checkbox"/> 1939 or earlier</p> <p>11. Access (cc 9a)</p> <p>(O) 1 <input type="checkbox"/> Direct <input type="checkbox"/> Through another unit</p> <p>12. Type of living quarters (cc 9b and c)</p> <p>(C) 1 <input type="checkbox"/> House, apartment, flat <input type="checkbox"/> 2 <input type="checkbox"/> HU in nontransient hotel, motel, etc. <input type="checkbox"/> 3 <input type="checkbox"/> HU permanent in transient hotel, motel, etc. <input type="checkbox"/> 4 <input type="checkbox"/> HU in rooming house <input type="checkbox"/> 5 <input type="checkbox"/> Mobile home or trailer with NO permanent room added <input type="checkbox"/> 6 <input type="checkbox"/> Mobile home or trailer WITH one or more permanent rooms added <input type="checkbox"/> 7 <input type="checkbox"/> HU not specified above - Specify _____</p> <p>13. OTHER UNIT (Treat as type B Noninterview)</p> <p>(C) 1 <input type="checkbox"/> Quarters not HU in rooming or boarding house <input type="checkbox"/> 2 <input type="checkbox"/> Unit not permanent in transient hotel, motel, etc. <input type="checkbox"/> 10 <input type="checkbox"/> Unoccupied tent site or trailer site <input type="checkbox"/> 11 <input type="checkbox"/> OTHER unit not specified above - Specify _____</p>							
<p>1. Type A</p> <p>(P) 1 <input type="checkbox"/> No one home <input type="checkbox"/> 2 <input type="checkbox"/> Temporarily absent: <input type="checkbox"/> 3 <input type="checkbox"/> Refused <input type="checkbox"/> 4 <input type="checkbox"/> Unable to locate <input type="checkbox"/> 5 <input type="checkbox"/> Other occupied - Specify _____</p> <p>2. Type B</p> <p>(P) 1 <input type="checkbox"/> Unit for nonresidential use <input type="checkbox"/> 2 <input type="checkbox"/> Business, school, or commercial <input type="checkbox"/> 3 <input type="checkbox"/> OTHER unit, except unoccupied site <input type="checkbox"/> 4 <input type="checkbox"/> for mobile home or tent <input type="checkbox"/> 5 <input type="checkbox"/> Unoccupied site for mobile home <input type="checkbox"/> 6 <input type="checkbox"/> or tent <input type="checkbox"/> 7 <input type="checkbox"/> Under construction - not ready <input type="checkbox"/> 8 <input type="checkbox"/> Scheduled to be demolished <input type="checkbox"/> 9 <input type="checkbox"/> Condemned or occupancy prohibited by law <input type="checkbox"/> 10 <input type="checkbox"/> interior exposed to the elements <input type="checkbox"/> 11 <input type="checkbox"/> Unit severely damaged by fire <input type="checkbox"/> 12 <input type="checkbox"/> Other - Specify _____</p> <p>3. Units boarded-up (cc 40a)</p> <p>(O) 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No</p> <p>4. Unit abandoned - abandoned</p> <p>(C) 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No</p> <p>5. Status of unit</p> <p>(N) 1 <input type="checkbox"/> Unit in sample last enumeration period - Skip to item 6 <input type="checkbox"/> 2 <input type="checkbox"/> Unit for first time this enumeration period - Fill in Item 7</p> <p>6. Reason for adding sample unit</p> <p>(O) 1 <input type="checkbox"/> New construction <input type="checkbox"/> 2 <input type="checkbox"/> Mobile home moved in <input type="checkbox"/> 3 <input type="checkbox"/> House moved in <input type="checkbox"/> 4 <input type="checkbox"/> Unit resulted from structural conversion <input type="checkbox"/> 5 <input type="checkbox"/> Other - Specify _____</p> <p>7. Type of interview</p> <p>(C) 1 <input type="checkbox"/> Regular - (One or more "Y" or "N" in cc 11c) <input type="checkbox"/> 2 <input type="checkbox"/> URE - (All "N"s" in cc 11c) ... <input type="checkbox"/> 3 <input type="checkbox"/> Vacant ... <input type="checkbox"/> 4 <input type="checkbox"/> Noninterview</p> <p>8. Type of interview</p> <p>(C) 1 <input type="checkbox"/> Regular - (One or more "Y" or "N" in cc 11c) <input type="checkbox"/> 2 <input type="checkbox"/> URE - (All "N"s" in cc 11c) ... <input type="checkbox"/> 3 <input type="checkbox"/> Vacant ... <input type="checkbox"/> 4 <input type="checkbox"/> Noninterview</p> <p>9. Reason for reinterview (cc 40b)</p> <p>(C) 1 <input type="checkbox"/> Reason for noninterview (cc 40b)</p> <p>c. Type C</p> <p>(C) 1 <input type="checkbox"/> Unit eliminated in structural conversion <input type="checkbox"/> 2 <input type="checkbox"/> Demolished <input type="checkbox"/> 3 <input type="checkbox"/> Disaster loss (flood, tornado, etc.) <input type="checkbox"/> 4 <input type="checkbox"/> Disaster loss - fire <input type="checkbox"/> 5 <input type="checkbox"/> House or mobile home moved <input type="checkbox"/> 6 <input type="checkbox"/> Merged - not in current sample <input type="checkbox"/> 7 <input type="checkbox"/> Built after April 1, 1970 <input type="checkbox"/> 8 <input type="checkbox"/> Other - Specify _____</p> <p>10. Type of structure</p> <p>(C) 1 <input type="checkbox"/> Structure currently has one or more housing units <input type="checkbox"/> 2 <input type="checkbox"/> Structure currently has no housing units</p> <p>11. Permit granted - construction not started</p>							

Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

ITEM A CHECK REGULAR OR URE AND: (See Control Card item 4c)	SECTION II - CHECKLIST FOR OCCUPIED AND VACANT UNITS - Continued	
	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)? (See Control Card item 14)	<p><input type="checkbox"/> Same household interviewed last enumeration period (at least one entry in "77" year column of item 4 on the current Control Card) – Ask questions in Column A</p> <p><input type="checkbox"/> All others – Ask questions in Column B</p>	<p><input type="checkbox"/> Vacant unit – Skip to 7a</p> <p><input type="checkbox"/> Occupied unit – Ask b</p>
1b. Since (last year's interview date), has there been a change in the source of water for this house (building)? (See Control Card item 4c)	<p><input type="checkbox"/> No – Ask b</p> <p><input type="checkbox"/> Yes – Ask b</p> <p><input type="checkbox"/> Don't know – Ask b</p>	<p><input type="checkbox"/> Yes – Ask b</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Don't know – Ask b</p>
2a. Since (last year's interview date), has there been a change in the number of bedrooms in this house (apartment)? (See Control Card item 14)	<p><input type="checkbox"/> No – Ask b</p> <p><input type="checkbox"/> Yes – Ask b</p> <p><input type="checkbox"/> Don't know – Ask b</p>	<p><input type="checkbox"/> Number of rooms <input type="checkbox"/> 1 OR <input type="checkbox"/> 2 OR <input type="checkbox"/> 3 OR <input type="checkbox"/> 4 OR <input type="checkbox"/> 5 OR <input type="checkbox"/> 6 OR <input type="checkbox"/> 7 OR <input type="checkbox"/> 8 OR <input type="checkbox"/> 9 OR <input type="checkbox"/> 10 OR <input type="checkbox"/> 11 OR <input type="checkbox"/> 12 OR <input type="checkbox"/> 13 OR <input type="checkbox"/> 14 OR <input type="checkbox"/> 15 OR <input type="checkbox"/> 16 OR <input type="checkbox"/> 17 OR <input type="checkbox"/> 18 OR <input type="checkbox"/> 19 OR <input type="checkbox"/> 20 OR <input type="checkbox"/> 21 OR <input type="checkbox"/> 22 OR <input type="checkbox"/> 23 OR <input type="checkbox"/> 24 OR <input type="checkbox"/> 25 OR <input type="checkbox"/> 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Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

Section III - VACANT UNITS	
<p>1a. How many living quarters, both occupied and vacant, are there in this house (building)?</p> <p>(1) 1 <input type="checkbox"/> Mobile home or trailer (no permanent room attached) — Skip to Check Item A 2 <input type="checkbox"/> One, detached from any other building 3 <input type="checkbox"/> One, attached to one or more buildings 4 <input type="checkbox"/> 2 5 <input type="checkbox"/> 3 or 4 6 <input type="checkbox"/> 5 to 9 7 <input type="checkbox"/> 10 to 19 8 <input type="checkbox"/> 20 to 49 9 <input type="checkbox"/> 50 or more</p> <p>OBSERVATION b. Is any part of this property used as a commercial establishment? (See item 7, page 1)</p>	
<p>1b. Is any part of this property used as a medical or dental office?</p> <p>(1) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p>OBSERVATION c. Is any part of this property used as a medical or dental office?</p>	
<p>1c. Unit was Type A or B noninterview last enumeration period (See cc item 4d) — Ask 2a</p> <p>(1) <input type="checkbox"/> Unit in sample last enumeration period (first box marked in item 7a) — Skip to 5, page 6 <input type="checkbox"/> Unit in sample for first time this enumeration period (second box marked in item 7a) — Ask 2a</p>	
<p>2a. How many stories (floors) are there in this house (building)? Do not count the basement.</p> <p>(1) 1 <input type="checkbox"/> 1 to 3 — Skip to 3 2 <input type="checkbox"/> 4 to 6 3 <input type="checkbox"/> 7 to 12 4 <input type="checkbox"/> 13 or more</p> <p>OBSERVATION b. Is there a passenger elevator in this building?</p>	
<p>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?</p> <p>(1) 1 <input type="checkbox"/> Yes — Used for this household only — Ask 4 2 <input type="checkbox"/> No — Also used by another household — Skip to 5</p> <p>OBSERVATION b. Is there a passenger elevator in this building?</p>	
<p>4. How many complete bathrooms and half bathrooms does this house (building) have?</p> <p>A complete bathroom is a room with a flush toilet, a bathtub or shower, and a washbasin with pipe 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.</p> <p>(1) 1 <input type="checkbox"/> Complete bathroom plus a half bath with flush toilet 2 <input type="checkbox"/> I complete bathroom plus a half bath with no flush toilet 3 <input type="checkbox"/> I complete bathroom plus a half bath with no flush toilet 4 <input type="checkbox"/> I complete bathroom plus a half bath with flush toilet 5 <input type="checkbox"/> 2 complete bathrooms 6 <input type="checkbox"/> More than 2 complete bathrooms</p>	

Section III - VACANT UNITS — Continued	
<p>5. What type of heating equipment does this house (building) have? (Read answer categories) (If more than one, mark MAIN type of heating equipment)</p> <p>(1) 1 <input type="checkbox"/> Central warm-air furnace with ducts in individual rooms 2 <input type="checkbox"/> Heat pump 3 <input type="checkbox"/> Steam or hot water system 4 <input type="checkbox"/> Built-in electric units (permanently installed in wall, ceiling, or baseboard) 5 <input type="checkbox"/> Fire, wall, or pipeless furnace 6 <input type="checkbox"/> Room heaters WITH fire or vent burning gas, oil, or kerosene 7 <input type="checkbox"/> Room heaters WITHOUT fire or vent burning gas, oil, or kerosene 8 <input type="checkbox"/> Fireplaces, stoves, or portable room heaters 9 <input type="checkbox"/> Unit has no heating equipment</p>	
<p>OBSERVATION b. Is this unit intended for year-round use, for occupancy only on a seasonal basis or for use by migrant workers?</p>	
<p>6. Is this unit intended for year-round use, for occupancy only on a seasonal basis or for use by migrant workers?</p> <p>(1) 1 <input type="checkbox"/> Year round — Ask b Seasonal 10 <input type="checkbox"/> Summers only 11 <input type="checkbox"/> Winters only 12 <input type="checkbox"/> Other seasonal — Specify _____ * In Notes on page 7 _____ * Migratory — Skip to 7</p>	
<p>b. Is this house (apartment) for rent, for sale only, rented not occupied, sold not occupied, held for occasional use, or something else?</p> <p>(1) 1 <input type="checkbox"/> Vacant — for rent Vacant — for sale only 2 <input type="checkbox"/> Regular ownership 3 <input type="checkbox"/> Condominium ownership 4 <input type="checkbox"/> Cooperative ownership 5 <input type="checkbox"/> Rented, not occupied 6 <input type="checkbox"/> Sold, not occupied 7 <input type="checkbox"/> Held for occasional use 8 <input type="checkbox"/> Other vacant — Specify _____</p>	
<p>7. How many months has this house (apartment) been vacant?</p> <p>(1) 1 <input type="checkbox"/> Less than 1 month 2 <input type="checkbox"/> 1 month up to 2 months 3 <input type="checkbox"/> 2 months up to 6 months 4 <input type="checkbox"/> 6 months up to 12 months 5 <input type="checkbox"/> 1 year up to 2 years 6 <input type="checkbox"/> 2 years or more</p> <p>OBSERVATION b. Is the unit boarded-up?</p>	
<p>OBSERVATION b. Are there any buildings (other than this building) that appear to be abandoned and/or are there any buildings with windows broken or boarded-up on this street?</p>	

Facsimile of the Annual Housing Survey Questionnaire: 1978 -Continued

Section III - VACANT UNITS - Continued	
(If rural, ask; if urban ask or fill by observation.)	
9. Does this place have 10 acres or more?	
<p>(13) 1 <input type="checkbox"/> Yes, 10 acres or more 2 <input type="checkbox"/> No, less than 10 acres</p>	
CHECK ITEM 8	
FOR SALE ONLY	
<p><input type="checkbox"/> A CONDOMINIUM - Ask 10</p> <p><input type="checkbox"/> A COOPERATIVE - Skip to Section VIII, page 34</p>	
REGULAR OWNERSHIP <p><input type="checkbox"/> 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 10</p> <p><input type="checkbox"/> All others - Skip to Section VIII, page 34</p>	
FOR RENT <p><input type="checkbox"/> One-unit structure on less than 10 acres - Skip to 11</p> <p><input type="checkbox"/> One-unit structure on 10 acres or more - Skip to Section VIII, page 34</p> <p><input type="checkbox"/> Two-or-more unit structure or a mobile home or trailer - Skip to 11</p> <p><input type="checkbox"/> ALL OTHERS (Other vacant, units rented or sold, units held for occasional use, seasonal, and similar units) - Skip to Section VIII, page 34</p>	
NOTES	

Section III - VACANT UNITS - Continued	
10. What is the sale price asked for this property (condominium unit)?	
<p>(12) SHOW FLASHCARD 8</p> <p>1 <input type="checkbox"/> Less than \$5,000 2 <input type="checkbox"/> \$ 5,000 - \$ 7,499 3 <input type="checkbox"/> 7,500 - 9,999 4 <input type="checkbox"/> 10,000 - 12,499 5 <input type="checkbox"/> 12,500 - 14,999 6 <input type="checkbox"/> 15,000 - 17,499 7 <input type="checkbox"/> 17,500 - 19,999 8 <input type="checkbox"/> 20,000 - 24,999 9 <input type="checkbox"/> 25,000 - 29,999 10 <input type="checkbox"/> 30,000 - 34,999 11 <input type="checkbox"/> 35,000 - 39,999 12 <input type="checkbox"/> 40,000 - 49,999 13 <input type="checkbox"/> 50,000 - 59,999 14 <input type="checkbox"/> 60,000 - 74,999 15 <input type="checkbox"/> 75,000 - 99,999 16 <input type="checkbox"/> 100,000 - 124,999 17 <input type="checkbox"/> 125,000 - 149,999 18 <input type="checkbox"/> 150,000 - 199,999 19 <input type="checkbox"/> 200,000 - 249,999 20 <input type="checkbox"/> 250,000 - 299,999 21 <input type="checkbox"/> 300,000 or more</p>	
Skip to Section VIII, page 34	
11. What is the MONTHLY rent?	
<p>(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.)</p> <p>(Include site rent for mobile homes if it is to be paid separately.)</p>	
<p>(15) 1 <input type="checkbox"/> _____ Per month</p> <p>(13) 1 <input type="checkbox"/> More frequently than once a month 2 <input type="checkbox"/> Less frequently than once a month 3 <input type="checkbox"/> Once a month</p>	
Notes	
<p>(16) a. In addition to rent, does the renter also pay for electricity?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent 3 <input type="checkbox"/> No, electricity not used</p>	
<p>b. In addition to rent, does the renter also pay for gas?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent 3 <input type="checkbox"/> No, gas not used</p>	
<p>c. In addition to rent, does the renter also pay for water?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent or no charge</p>	
<p>d. In addition to rent, does the renter also pay for oil, coal, kerosene, wood, etc.?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent 3 <input type="checkbox"/> No, these fuels not used or obtained free</p>	
<p>e. In addition to rent, does the renter also pay for garbage (solid waste) collection?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } Go to Section VIII, page 34</p>	

FORM ANH-2 (1-24-71)

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FORM ANH-2 (1-24-71)

Facsimile of the Annual Housing Survey Questionnaire: 1978 -Continued

Note 4

PROTESTANT CHURCHES IN U.S.A. 701

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FORM AHB-2 (3-24-78)

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Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

Section IV-A GENERAL INFORMATION	
EMPLOYMENT STATUS	
EDUCATION	
HIGHEST GRADE COMPLETED BY HEAD	
<p>3. Highest grade completed by head (cc 19)</p> <p>(a) <input type="checkbox"/> Never attended school</p> <p>1 <input type="checkbox"/> Kindergarten 2 <input type="checkbox"/> First 3 <input type="checkbox"/> Second 4 <input type="checkbox"/> Third 5 <input type="checkbox"/> Fourth 6 <input type="checkbox"/> Fifth 7 <input type="checkbox"/> Sixth 8 <input type="checkbox"/> Seventh 9 <input type="checkbox"/> Eighth 10 <input type="checkbox"/> Ninth 11 <input type="checkbox"/> Tenth 12 <input type="checkbox"/> Eleventh 13 <input type="checkbox"/> Twelfth</p>	
<p>College (Academic years)</p> <p>14 <input type="checkbox"/> C1 15 <input type="checkbox"/> C2 16 <input type="checkbox"/> C3 17 <input type="checkbox"/> C4 18 <input type="checkbox"/> C5 19 <input type="checkbox"/> C6 or more</p>	
<p>4. Ethnic origin (cc 20)</p> <p>(b) <input type="checkbox"/> Mexican-American 2 <input type="checkbox"/> Chicano 3 <input type="checkbox"/> Mexican 4 <input type="checkbox"/> Mexicano 5 <input type="checkbox"/> Puerto Rican 6 <input type="checkbox"/> Cuban 7 <input type="checkbox"/> Central or South American 8 <input type="checkbox"/> Other Spanish — Specify _____</p>	
<p>5. When head moved in (cc 21)</p> <p>After April 1, 1970 <input type="checkbox"/> Month (01-12) / Year _____</p>	
<p>OR</p> <p>(c) <input type="checkbox"/> 1965 to April 1, 1970 2 <input type="checkbox"/> 1960 to 1964 3 <input type="checkbox"/> 1950 to 1959 4 <input type="checkbox"/> 1949 or earlier</p>	
<p>6. Use of telephone (cc 38a)</p> <p>(d) <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	

Section IV-B OCCUPIED UNITS (Include ORE)	
<p>7a. Are your living quarters owned or being bought by you or by someone else in your household?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Are they owned as a cooperative or condominium?</p> <p>1 <input type="checkbox"/> No 2 <input type="checkbox"/> Yes, a cooperative 3 <input type="checkbox"/> Yes, a condominium</p>	
<p>(e) <input type="checkbox"/> Skip to 8a <input type="checkbox"/> No — Ask 7b</p>	
<p>b. Are your living quarters rented for cash by you or by someone else or occupied without payment of cash rent?</p> <p><input type="checkbox"/> Rented for cash <input type="checkbox"/> Occupied without payment of cash rent</p>	
<p>8a. How many living quarters, both occupied and vacant, are there in this house (building)?</p> <p>(f) <input type="checkbox"/> 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 Two or more 5 Three or four 6 Five or six 7 Ten to 19 8 20 to 49 9 50 or more</p>	
<p>OBSERVATION b. How many mobile homes are in this group?</p> <p>(g) <input type="checkbox"/> 1-5 2 6-99 3 100 or more</p>	
<p>OBSERVATION c. Is any part of this property used as a commercial establishment?</p> <p>(h) <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	
<p>OBSERVATION d. Is any part of this property used as a medical or dental office?</p> <p>(i) <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	
<p>CHECK ITEM A</p> <p><input type="checkbox"/> Unit was Type A or B noninterview last enumeration period (See cc item 40d) — Ask 9a (See Item 7a, page 1) <input type="checkbox"/> Unit in sample last enumeration period (first box marked in item 7a) — Skip to 12 <input type="checkbox"/> Unit in sample for first time this enumeration period (second box marked in item 7a) — Ask 9a</p>	
<p>9a. How many stories (floors) are in this house (building)? Do not count the basement.</p> <p>(j) <input type="checkbox"/> 1 to 3 — Skip to 10 2 <input type="checkbox"/> 4 to 6 3 <input type="checkbox"/> 7 to 12 4 <input type="checkbox"/> 13 or more</p>	
<p>b. Is there a passenger elevator in this building?</p> <p>(k) <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	
<p>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?</p> <p>(l) <input type="checkbox"/> Yes — For this household only 2 <input type="checkbox"/> Yes — Also used by another household 3 <input type="checkbox"/> No</p>	

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FORM AH-2 (12-667-7)

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FORM AH-2 (12-667-7)

Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

Section IVB — OCCUPIED UNITS (Inside URE) — Continued	
<p>11. How many complete bathrooms and half bathrooms do you have? (Mark only one box)</p> <p>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.</p>	<p>(10) 1 <input type="checkbox"/> Complete plumbing facilities but not in one room 2 <input type="checkbox"/> 1 complete bathroom 3 <input type="checkbox"/> 1 complete bathroom plus half bath with one flush toilet 4 <input type="checkbox"/> 1 complete bathroom plus half bath with flush toilet 5 <input type="checkbox"/> 2 complete bathrooms 6 <input type="checkbox"/> More than 2 complete bathrooms</p>
<p>12. What type of heating equipment does your house (permanent) have? (Read answer categories) (Mark heating equipment used most)</p>	
<p>(10) 1 <input type="checkbox"/> Central warm-air furnace with ducts in individual rooms 2 <input type="checkbox"/> Heat pump 3 <input type="checkbox"/> Steam or hot water system 4 <input type="checkbox"/> Built-in electric units (permanently installed) in wall, ceiling, or baseboard 5 <input type="checkbox"/> Floor, wall, or pipeless furnace 6 <input type="checkbox"/> Room heaters WITH fire or vent burning gas, oil, or kerosene 7 <input type="checkbox"/> Room heaters WITHOUT fire or vent burning gas, oil, or kerosene 8 <input type="checkbox"/> Fireplaces, stoves, or portable room heaters 9 <input type="checkbox"/> Unit heat or heating equipment</p>	
<p>13a. Do you have air conditioning, either individual room units or a central system?</p>	
<p>b. Which do you have?</p>	
<p>c. How many room units do you have?</p>	
<p>14a. Does this house (permanent) have open cracks or holes in the interior walls or ceiling? (Do not include hairline cracks)</p>	
<p>b. Does this house (permanent) have holes in the floors?</p>	
<p>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)</p>	
<p>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)</p>	
<p>16. Are there any buildings that appear to be abandoned and/or are there any buildings with windows broken or boarded-up on this street? (If rural, ask: If urban ask or fill by observation.)</p>	
<p>17. Does this place have 10 acres or more?</p>	

Section IVB — OCCUPIED UNITS (Outside URE) — Continued	
<p>CHECK ITEM B</p>	<p>(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 13) { □ 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</p>
<p>18a. During the past 12 months, did sales of crops, livestock and other farm products from this place amount to \$50 or more?</p>	
<p>b. During the past 12 months, did sales of crops, livestock and other farm products from this place amount to \$250 or more?</p>	
<p>c. During the past 12 months, did sales of crops, livestock and other farm products from this place amount to \$1,000 or more?</p>	
<p>If this is a —</p>	
<p>□ OWNED AS A COOPERATIVE — Skip to Check Item G, page 18 □ OWNED AS A CONDOMINIUM — Ask 19 □ OWNED OR BEING BOUGHT (Regular ownership)</p>	
<p>CHECK ITEM C</p>	<p>TENURE (See items 7a and 7b, page 12)</p>
<p>19. If this is a —</p>	
<p>□ 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 Bc and Bd) — Ask 19</p>	
<p>□ Mobile home or trailer on less than 10 acres — Skip to 20</p>	
<p>□ All others — Skip to Check Item G, page 18</p>	
<p>RENTED FOR CASH</p>	
<p>If this is a —</p>	
<p>□ One-unit structure on less than 10 acres — Skip to 26, page 16 □ One-unit structure on 10 acres or more — Skip to Check Item G, page 18 □ Two-or-more unit structure or mobile home or trailer — Skip to 26, page 16</p>	
<p>OCCUPIED WITHOUT PAYMENT OF CASH RENT</p>	
<p>If this is a —</p>	
<p>□ One-unit structure on less than 10 acres — Skip to 28, page 17 □ One-unit structure on 10 acres or more — Skip to Check Item G, page 18 □ Two-or-more unit structure, or a mobile home or trailer — Skip to Check Item E, page 17</p>	

FORM A-14-2 (2-67-78)

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FORM A-14-2 (2-67-78)

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Facsimile of the Annual Housing Survey Questionnaire: 1978 -Continued

Section IVB – OCCUPIED UNITS (Include UREI) – Continued		
19. How much do you think this property, that is, house and lot, (condominium unit) would sell for on today's market?	(128)	<input type="checkbox"/> Less than \$5,000 <input type="checkbox"/> \$ 5,000 – \$ 7,499 <input type="checkbox"/> 7,500 – 9,999 <input type="checkbox"/> 10,000 – 12,499 <input type="checkbox"/> 12,500 – 14,999 <input type="checkbox"/> 15,000 – 17,499 <input type="checkbox"/> 17,500 – 19,999 <input type="checkbox"/> 20,000 – 24,999 <input type="checkbox"/> 25,000 – 29,999 <input type="checkbox"/> 30,000 – 34,999 <input type="checkbox"/> 35,000 – 39,999 <input type="checkbox"/> 40,000 – 49,999 <input type="checkbox"/> 50,000 – 59,999 <input type="checkbox"/> 60,000 – 74,999 <input type="checkbox"/> 75,000 – 99,999 <input type="checkbox"/> 100,000 – 124,999 <input type="checkbox"/> 125,000 – 149,999 <input type="checkbox"/> 150,000 – 199,999 <input type="checkbox"/> 200,000 – 249,999 <input type="checkbox"/> 250,000 – 299,999 <input type="checkbox"/> 300,000 or more
(See item 7a, page 12)		
CHECK ITEM D	<input type="checkbox"/> OWNED AS A CONDOMINIUM – Skip to Check Item G, Page 18 <input type="checkbox"/> All others – Skip to 23	
20. Do you own the mobile home (trailer) SITE or is it rented?	(127)	<input type="checkbox"/> Owned <input type="checkbox"/> Rented
21a. In what year did you acquire this mobile home (trailer)?	(128)	<input type="checkbox"/> Yes <input type="checkbox"/> No
c. When you acquired this mobile home (trailer), what was the purchase price? Do not include price of site or closing costs.	(129)	<input type="checkbox"/> Purchase price <input type="checkbox"/> Not purchased
22. Do you have an installment loan or contract on this mobile home (trailer) or do you own it free and clear?	(130)	<input type="checkbox"/> Installment loan or contract – Skip to 24a <input type="checkbox"/> 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?	(131)	<input type="checkbox"/> Mortgage, deed of trust, or land contract <input type="checkbox"/> Owned free and clear – Skip to 25a
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.)	(132)	<input type="checkbox"/> \$ _____ PER _____ <input type="checkbox"/> 1 Month <input type="checkbox"/> 2 Year <input type="checkbox"/> Other – Specify _____
b. In regard to the mortgage (loan), do the required payments include –	(133)	<input type="checkbox"/> Yes <input type="checkbox"/> No
(1) Real estate taxes on this property? <input type="checkbox"/> Yes <input type="checkbox"/> No		
(2) Fire and hazard insurance? <input type="checkbox"/> Yes <input type="checkbox"/> No		

Section IVB – OCCUPIED UNITS (Include UREI) – Continued		
25a. (1) Do you pay for electricity?	(134)	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No, electricity not used – Skip to 4f(1)
(2) What is the average MONTHLY cost?	(135)	\$ _____ . 00
b. (1) Do you pay for gas?	(136)	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No, gas not used – Skip to 4f(1)
(2) What is the average MONTHLY cost?	(137)	\$ _____ . 00
c. (1) Do you pay for oil, coal, kerosene, wood, etc.?	(138)	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No, these fuels not used or obtained free – Skip to 4f(1)
(2) What is the YEARLY cost?	(139)	\$ _____ . 00
d. (1) Do you pay for fire and hazard insurance? (Also include if part of mortgage payments.)	(140)	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No – Skip to 4f(1)
(2) What is the YEARLY cost?	(141)	\$ _____ . 00
e. (1) Do you pay for real estate taxes? (Also include if part of mortgage payments.)	(142)	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No – Skip to 4f(1)
(2) What is the YEARLY cost? (Do not include taxes in arrears from previous years.)	(143)	\$ _____ . 00
f. (1) Do you pay for water supply and sewage disposal, separately from real estate taxes?	(144)	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No or payment included in real estate taxes – Skip to 4f(1)
(2) What is the YEARLY cost?	(145)	\$ _____ . 00
g. (1) Do you pay for garbage (solid waste) collection, separately from real estate taxes?	(146)	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No or payment included in real estate taxes – Skip to Check Item G, page 18
(2) What is the YEARLY cost?	(147)	\$ _____ . 00
26. What is the MONTHLY rent?	(148)	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.) <input type="checkbox"/> 1 More frequently than once a month <input type="checkbox"/> 2 Less frequently than once a month <input type="checkbox"/> Once a month
Notes		

Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

CHECK ITEM E <input checked="" type="checkbox"/> Mobile home or trailer — Ask 27 <input type="checkbox"/> All others — Skip to 28		Section IVB - OCCUPIED UNITS - (Include UNIT C) <small>(See Item B, page 12)</small>	
ITEM F <input checked="" type="checkbox"/> Do you own the mobile home site or is it rented? <input type="checkbox"/> Owned <input type="checkbox"/> Rented		ITEM G <small>(See Item B, page 1)</small>	
27. Is this house (apartment) in a public housing project; that is, is it owned by a local housing authority or other public agency? <input type="checkbox"/> Yes — Skip to 30c <input type="checkbox"/> No		28. Are you paying a lower rent because the Federal, State, or local Government is paying part of the cost? <input type="checkbox"/> Yes <input type="checkbox"/> No	
30a. (1) (In addition to your rent) do you pay for electricity? <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent or supplied free 3 <input type="checkbox"/> No, electricity not used		30b. (1) (In addition to your rent) do you pay for gas? <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent or supplied free 3 <input type="checkbox"/> No, gas not used	
b. (1) (In addition to your rent) do you pay for water? <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent or no charge — Skip to d(1)		c. (1) (In addition to your rent) do you pay for oil, coal, kerosene, wood, etc.? <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent 3 <input type="checkbox"/> No, these fuels not used or obtained free	
d. What is the YEARLY cost? <input type="checkbox"/> Lost money (Enter amount LOST on line above)		e. (1) (In addition to your rent) do you pay for garbage (solid waste) collection? <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item F	
f. What is the YEARLY cost? <input type="checkbox"/> Lost money (Enter amount LOST on line above)			

CHECK ITEM F <small>(See Item B, page 14)</small>		ITEM G <small>(See Item B, page 14)</small>	
31. Do you rent this apartment (house) furnished or unfurnished? <input type="checkbox"/> Furnished <input type="checkbox"/> Unfurnished		32. Is this UNIT intended for year-round use, for occupancy only on a seasonal basis or for use by migrant workers? <input type="checkbox"/> Regular interview — Skip to 33	
<input type="checkbox"/> URE Household — Ask 32		<input type="checkbox"/> YEAR ROUND (occupied temporarily at time of interview) 10 <input type="checkbox"/> Summers only 11 <input type="checkbox"/> Winters only 12 <input type="checkbox"/> Other seasonal — Specify 13 <input type="checkbox"/> Migratory	
<input type="checkbox"/> (See Item B, page 1)		<input type="checkbox"/> Go to Control Card item 38e	
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 the "Notes," beginning with the sixth person and then combine the amounts for all these persons on the last "Amount" line.) 14 <input type="checkbox"/> \$ _____ 15 <input type="checkbox"/> \$ _____ 16 <input type="checkbox"/> \$ _____ 17 <input type="checkbox"/> \$ _____ 18 <input type="checkbox"/> \$ _____ 19 <input type="checkbox"/> \$ _____ 20 <input type="checkbox"/> \$ _____ 21 <input type="checkbox"/> \$ _____ 22 <input type="checkbox"/> \$ _____ 23 <input type="checkbox"/> \$ _____ 24 <input type="checkbox"/> \$ _____ 25 <input type="checkbox"/> \$ _____ 26 <input type="checkbox"/> \$ _____ 27 <input type="checkbox"/> \$ _____ 28 <input type="checkbox"/> \$ _____ 29 <input type="checkbox"/> \$ _____ 30 <input type="checkbox"/> \$ _____ 31 <input type="checkbox"/> \$ _____ 32 <input type="checkbox"/> \$ _____ 33 <input type="checkbox"/> \$ _____ 34 <input type="checkbox"/> \$ _____ 35 <input type="checkbox"/> \$ _____ 36 <input 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Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

Section 3B - 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 —

(1) Social Security or Railroad Retirement payments?

..... (18) 1 Yes 2 No

(2) Estates, trusts or dividends?

..... (18) 1 Yes 2 No

(3) Interest on savings accounts or bonds?

..... (18) 1 Yes 2 No

(4) Net rental income?

..... (18) 1 Yes 2 No

(5) Welfare payments or other public assistance?

..... (18) 1 Yes 2 No

(6) Unemployment compensation?

..... (18) 1 Yes 2 No

(7) Workmen's compensation?

..... (18) 1 Yes 2 No

(8) Government employee pension?

..... (18) 1 Yes 2 No

(9) Veterans payments?

..... (18) 1 Yes 2 No

(10) Private pensions or annuities?

..... (18) 1 Yes 2 No

(11) Alimony or child support?

..... (18) 1 Yes 2 No

(12) Regular contributions from persons not living in this household?

..... (18) 1 Yes 2 No

(13) Anything else?

..... (18) 1 Yes 2 No

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 his box

(See Control Card item 1 b)

Household contains only family members — Skip to Reference Check item, page 22

Household contains persons 14+ NOT RELATED TO THE HEAD by blood,

marriage or adoption — Ask 36

Section 3B - OCCUPIED UNITS - Continued	
<p>36. In the past 12 months, how much did . . . seem in wages, salaries, tips and commissions before taxes and deductions?</p> <p>(Obtain income for household members 14+ NOT RELATED TO HEAD by blood, marriage or adoption.)</p>	
<p>37a. In the past 12 months, how much did . . . seem 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 <input type="checkbox"/>.)</p>	
<p>b. In the past 12 months, how much did . . . seem 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 <input type="checkbox"/>.)</p>	
<p>NOTE — Ask 38b for each "Yes" response in 38a. Ask 38a (and 38b as appropriate) for all categories before asking 38c.</p> <p>38a. Who received this type of income? (Enter line numbers)</p> <p>(1) Social Security or Railroad Retirement payments?</p>	

..... (19) 1 Yes 2 No

(2) Estates, trusts or dividends?

..... (19) 1 Yes 2 No

(3) Interest on savings accounts or bonds?

..... (19) 1 Yes 2 No

(4) Net rental income?

..... (19) 1 Yes 2 No

(5) Welfare payments or other public assistance?

..... (19) 1 Yes 2 No

(6) Unemployment compensation?

..... (19) 1 Yes 2 No

(7) Workmen's compensation?

..... (19) 1 Yes 2 No

(8) Government employee pension?

..... (19) 1 Yes 2 No

(9) Veterans payments?

..... (19) 1 Yes 2 No

(10) Private pensions or annuities?

..... (19) 1 Yes 2 No

(11) Alimony or child support?

..... (19) 1 Yes 2 No

(12) Regular contributions from persons not living in this household?

..... (19) 1 Yes 2 No

(13) Anything else?

..... (19) 1 Yes 2 No

NOTES

Section 3B - OCCUPIED UNITS - Continued	
<p>NOTE — Ask 35a for all categories before asking 35b.</p> <p>35b. How much was received from (source of income) in the past 12 months? _____ (15) \$ _____</p>	
<p>16. \$ _____</p>	
<p>17. \$ _____</p>	
<p>18. \$ _____</p>	
<p>19. \$ _____</p>	
<p>20. \$ _____</p>	
<p>21. \$ _____</p>	
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<p>29. \$ _____</p>	
<p>30. \$ _____</p>	
<p>31. \$ _____</p>	
<p>32. \$ _____</p>	
<p>33. \$ _____</p>	
<p>34. \$ _____</p>	
<p>35a. In the past 12 months, how much did . . . seem 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 <input type="checkbox"/>.)</p>	
<p>35b. In the past 12 months, how much did . . . seem 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 <input type="checkbox"/>.)</p>	
<p>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 his box <input type="checkbox"/></p>	
<p>(See Control Card item 1 b)</p>	
<p><input type="checkbox"/> Household contains only family members — Skip to Reference Check item, page 22</p>	
<p><input type="checkbox"/> Household contains persons 14+ NOT RELATED TO THE HEAD by blood,</p>	
<p>marriage or adoption — Ask 36</p>	
<p>CHECK ITEM H</p>	

Facsimile of the Annual Housing Survey Questionnaire: 1978 -continued

<p align="center">~ PGH 5</p>	REFERENCE CHECK ITEM FOR SUPPLEMENTS	
<p>Mark off 3 parts (See cc 21)</p>		
<p>(1) Household head lived here last 90 days..... (P) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>		
<p>(2) Household head lived here last winter..... (P) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>		
<p>(3) Household head MOVED here during the last 12 months..... (M) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>		
<p>NOTES</p>		

TTE - 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

Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

Section V - RECENT MOVERS SUPPLEMENT	
CHECK ITEM A	(1) (See Reference Check Item, page 22) <input type="checkbox"/> Head moved here during the last 12 months – Go to Check Item A(2) <input type="checkbox"/> Head did not move here during the last 12 months – Skip to Section VIA, page 28
	(2) (See Check Item C, page 14) <input type="checkbox"/> Owned or being bought (Regular or condominium ownership) – Ask 1a <input type="checkbox"/> Cooperative ownership – Skip to 4a <input type="checkbox"/> Rented for cash or occupied without payment of cash rent – Skip to 5
1a. Was this property purchased in the past 12 months? <input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No – Skip to Check Item B	
b. When this house and lot (condominium unit) was acquired, what was the purchase price? Do not include closing costs. <input type="checkbox"/> \$ _____	
2. What was the MAJOR source of the down payment used for the purchase or construction of this property (condominium unit)? <input type="checkbox"/> Sale of previous home (only if sold during 12 month period preceding acquisition of present home) <input type="checkbox"/> Sale of other real property or other investment (including stock) <input type="checkbox"/> Savings (cash, bank deposits, share accounts, or bonds) <input type="checkbox"/> Borrowing other than a mortgage on this property <input type="checkbox"/> Gift <input type="checkbox"/> Land on which structure was built <input type="checkbox"/> Other – Specify _____.	
3. Is item 2a blank – Skip to 4a <input type="checkbox"/> No down payment required	
CHECK ITEM B (See item 2a, page 15) <input type="checkbox"/> Amount, "OK," "NA" or "Refused" entered in item 2a – Ask 3a <input type="checkbox"/> Item 2a is blank – Skip to 4a	
3a. Earlier you told me that this property is mortgaged. When you acquired this property did you originate (piece) a new mortgage or assume an existing mortgage? At the time you acquired this property, what was the amount of the mortgage? Do not include second trusts, or any other loans associated with the property. b. In this the first home ... (Head) has ever owned as (his/her) usual residence? (Do not include vacation homes, or homes purchased (or commercial) or rental purposes.) b. Including ... 's (Head's) present home, how many houses does ... (Head) own altogether? (Do not include vacation homes, or homes purchased (or commercial) or rental purposes.) <input type="checkbox"/> 1 Two <input type="checkbox"/> 2 Three or more	

Section V - RECENT MOVERS SUPPLEMENT - Continued	
5. Were (was) you (Head) the first occupant(s) of this house (apartment) or did someone else live here before you (Head)? <input type="checkbox"/> 1 First occupants <input type="checkbox"/> 2 Previously occupied	
6. The following questions are about the place where ... (Head) lived before moving here. What was the address of ... 's (Head's) previous residence? Address (Number and street) City or town County State ZIP code	
OR <input type="checkbox"/> 1 Outside the United States – Skip to Section VIA, page 28	
(4b) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
EMPLOYMENT (4b) <input type="checkbox"/> Job transfer <input type="checkbox"/> Entered or left U.S. Armed Forces <input type="checkbox"/> Retirement <input type="checkbox"/> New job or looking for work <input type="checkbox"/> Commuting & reasons <input type="checkbox"/> To attend school <input type="checkbox"/> Other	
FAMILY (4b) <input type="checkbox"/> Needed larger house or apartment <input type="checkbox"/> Widowed <input type="checkbox"/> Separated <input type="checkbox"/> Divorced <input type="checkbox"/> Moved to be closer to relatives <input type="checkbox"/> Newly married <input type="checkbox"/> Family increased <input type="checkbox"/> Family decreased <input type="checkbox"/> Wanted to establish own household <input type="checkbox"/> Other	
OTHER (4b) <input type="checkbox"/> Neighborhood overcrowded <input type="checkbox"/> Change in racial or ethnic composition <input type="checkbox"/> of neighborhood <input type="checkbox"/> Wanted to own residence <input type="checkbox"/> Lower rent or less expensive house <input type="checkbox"/> Wanted better house <input type="checkbox"/> Displaced by urban renewal, highway construction, or other public activity <input type="checkbox"/> Displaced by private action <input type="checkbox"/> Schools <input type="checkbox"/> Work <input type="checkbox"/> Wanted to rent residence <input type="checkbox"/> Wanted residence with more conveniences <input type="checkbox"/> Natural disaster <input type="checkbox"/> Wanted change of climate <input type="checkbox"/> Other	

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Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

Section V—RECENT MOVERS' SUPPLEMENT—Continued	
<p>b. Was . . . (head) the head of the household in its/her previous residence at the time he/she moved?</p> <p>(d) 1 <input type="checkbox"/> Respondent is the head—Skip to INTERVIEWER INSTRUCTION 2 <input type="checkbox"/> Respondent is not the head—Ask 1b 3 <input type="checkbox"/> No—Skip to Section VIA, page 28</p> <p>b. Were you also a member of . . . 's (head) household in the previous residence?</p> <p>(d) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>If the respondent is the head, or "Yes" was marked in Bb—Ask questions 9–22 in terms of "your" previous residence. If "No" was marked in Bb—Ask questions 9–22 in terms of "Head's" previous residence.</p> <p>INTERVIEWER INSTRUCTION</p> <p>↑</p> <p>9. How many rooms were in . . . 's (your) (head) previous residence? Do not count bathrooms, porches, balconies, halls, lobbies, or half-rooms.</p> <p>(d) _____ Number</p> <p>10. How many bedrooms were in . . . 's (your) (head) previous residence? Count rooms used mainly for sleeping, even if used for other purposes.</p> <p>(d) _____ Number</p> <p>o <input type="checkbox"/> None</p> <p>11. How many persons were in . . . 's (your) (head) previous residence at the time . . . (your) (head) moved?</p> <p>(d) _____ Number</p> <p>12. Did . . . (your) (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?</p> <p>(d) 1 <input type="checkbox"/> Yes—→ Were these facilities used by . . . 's (your) (head) household only? 2 <input type="checkbox"/> Yes—Used for that household only 3 <input type="checkbox"/> No—Also used by another household 4 <input type="checkbox"/> No</p> <p>13. How many living quarters, both occupied and vacant, were in the building where . . . 's (your) (head) previous residence was located?</p> <p>(d) 1 <input type="checkbox"/> Mobile home or trailer (no permanent room attached) 2 <input type="checkbox"/> One, detached from any other building 3 <input type="checkbox"/> One, attached to one or more buildings 4 <input type="checkbox"/> 2 5 <input type="checkbox"/> 3 or 4 6 <input type="checkbox"/> 5 to 9 7 <input type="checkbox"/> 10 to 19 8 <input type="checkbox"/> 20 to 49 9 <input type="checkbox"/> 50 or more</p> <p>14. Was . . . 's (your) (head) previous residence owned or being bought by someone in the household?</p> <p>(d) <input type="checkbox"/> Yes Was it owned as a cooperative or condominium? 1 <input type="checkbox"/> No—Skip to Check Item C, page 26 2 <input type="checkbox"/> Yes, a cooperative—Skip to Section VIA, page 28 3 <input type="checkbox"/> Yes, a condominium—Skip to 16 o <input type="checkbox"/> No—Ask 1b</p> <p>b. Was it rented for cash rent or occupied without payment of cash rent?</p> <p>(d) 1 <input type="checkbox"/> Rented for cash 2 <input type="checkbox"/> Occupied without payment of cash rent</p>

Section V—RECENT MOVERS' SUPPLEMENT—Continued	
<p>c. Was there a place of 10 acres or more?</p> <p>(d) 1 <input type="checkbox"/> Yes—Skip to Section VIA, page 28 2 <input type="checkbox"/> No</p>	<p>15a. Was there on a place of 10 acres or more?</p> <p>(d) 1 <input type="checkbox"/> Yes—Skip to Section VIA, page 28 2 <input type="checkbox"/> No</p>
<p>b. Was there a commercial establishment or medical or dental office on the property?</p> <p>(d) 1 <input type="checkbox"/> Yes—Skip to Section VIA, page 28 2 <input type="checkbox"/> No</p>	<p>16. What was the value of their property where . . . 's (your) (head) moved; that is, about how much did they property (house and lot) (condominium unit), sell for, or would it have sold for, had it been for sale?</p> <p>(d) 1 <input type="checkbox"/> Less than \$5,000 2 <input type="checkbox"/> \$ 5,000 – \$ 7,499 3 <input type="checkbox"/> \$ 7,500 – 9,999 4 <input type="checkbox"/> \$ 10,000 – 12,499 5 <input type="checkbox"/> \$ 12,500 – 14,999 6 <input type="checkbox"/> \$ 15,000 – 17,499 7 <input type="checkbox"/> \$ 17,500 – 19,999 8 <input type="checkbox"/> \$ 20,000 – 24,999 9 <input type="checkbox"/> \$ 25,000 – 29,999 10 <input type="checkbox"/> \$ 30,000 – 34,999 11 <input type="checkbox"/> \$ 35,000 – 39,999 12 <input type="checkbox"/> \$ 40,000 – 49,999 13 <input type="checkbox"/> \$ 50,000 – 59,999 14 <input type="checkbox"/> \$ 60,000 – 74,999 15 <input type="checkbox"/> \$ 75,000 – 99,999 16 <input type="checkbox"/> \$ 100,000 – 124,999 17 <input type="checkbox"/> \$ 125,000 – 149,999 18 <input type="checkbox"/> \$ 150,000 – 199,999 19 <input type="checkbox"/> \$ 200,000 – 249,999 20 <input type="checkbox"/> \$ 250,000 – 299,999 21 <input type="checkbox"/> \$ 300,000 or more</p>
<p>17. Was there on a place of 10 acres or more?</p> <p>(d) 1 <input type="checkbox"/> Yes—Skip to Section VIA, page 28 2 <input type="checkbox"/> No</p>	<p>18. What was the MONTHLY rent for . . . 's (your) (head) previous apartment (house)? (If rent was not paid by the month, write the amount and the time period covered in the "Notes" space, then compute MONTHLY rent and enter on the line provided.)</p> <p>(d) \$ _____</p> <p>Per month</p> <p>Notes</p>

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Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

RECENT MOVES - RECENT MOVES SUPPLEMENT - Continued	
19. Was that house (apartment) in a public housing project; that is, was it owned by a local housing authority or other public agency?	(44) 1 <input type="checkbox"/> Yes — Skip to 2(a) 2 <input type="checkbox"/> No
20. Did . . . (you) (head) pay a lower rent because the Federal, State, or Local Government was paying part of the cost?	(45) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent or supplied free 3 <input type="checkbox"/> No, electricity not used
21a. (1) (In addition to rent), did . . . (you) (head) pay for electricity?	(46) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent or supplied free 3 <input type="checkbox"/> No, electricity not used
(2) What was the average MONTHLY cost?	(47) \$ _____
b. (1) (In addition to rent), did . . . (you) (head) pay for gas?	(48) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent or supplied free 3 <input type="checkbox"/> No, gas not used
(2) What was the average MONTHLY cost?	(49) \$ _____
c. (1) (In addition to rent), did . . . (you) (head) pay for water?	(50) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent or no charge — Skip to d(1)
(2) What was the YEARLY cost?	(51) \$ _____
d. (1) (In addition to rent), did . . . (you) (head) pay for oil, coal, kerosene, wood, etc.?	(52) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, included in rent 3 <input type="checkbox"/> No, these fuels not used or obtained free
(2) What was the YEARLY cost?	(53) \$ _____
e. (1) (In addition to rent), did . . . (you) (head) pay for garbage (solid waste) collection?	(54) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Section VIA, page 28
22. Did . . . (you) (head) rent the apartment (house) furnished or unfurnished?	(55) 1 <input type="checkbox"/> Furnished 2 <input type="checkbox"/> Unfurnished
(See item 14b, page 25)	
CHECK ITEM E	<input type="checkbox"/> Rented for cash — Ask 22 <input type="checkbox"/> Occupied without payment of cash rent — Skip to Section VIA, page 28
Go to Section VIA, page 28	

SECTION VIA - ENERGY CONSERVATION SUPPLEMENT	
INTRODUCTION: The following questions are concerned with types of fuel used, insulation and . . . 's (heads) means of transportation to work.	
1. Which fuel is used most for cooking?	(56) Gas 1 <input type="checkbox"/> From underground pipes, serving the neighborhood 2 <input type="checkbox"/> Bottled, tank or LP 3 <input type="checkbox"/> Electricity 4 <input type="checkbox"/> Fuel oil 5 <input type="checkbox"/> Kerosene, etc. 6 <input type="checkbox"/> Coal or coke 7 <input type="checkbox"/> Wood 8 <input type="checkbox"/> Other fuel 9 <input type="checkbox"/> No fuel used
2a. Do you have hot piped water in this house (apartment)?	(57) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item A
b. Which fuel is used most for heating the water?	(58) Gas 1 <input type="checkbox"/> From underground pipes, serving the neighborhood 2 <input type="checkbox"/> Bottled, tank or LP 3 <input type="checkbox"/> Electricity 4 <input type="checkbox"/> Fuel oil 5 <input type="checkbox"/> Kerosene, etc. 6 <input type="checkbox"/> Coal or coke 7 <input type="checkbox"/> Wood 8 <input type="checkbox"/> Solar heat — Skip to Check Item A 9 <input type="checkbox"/> Other fuel — Specify _____ 0 <input type="checkbox"/> No fuel used — Skip to Check Item A
c. Do you have a solar water heating unit which you use in addition to your main water heating equipment?	(59) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
CHECK ITEM A	(See item 12, page 13) Box 8 or 9 marked in item 12 — Skip to Check Item B All others — Ask 3a
3a. Earlier you told me you have (Specify heating equipment) marked in item 12 on page 13. In the past 12 months, have you acquired any supplementary equipment or appliances to heat your house (apartment)?	(60) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item B
b. Which best describes it? (Read answer categories.) (Mark off that apply)	(61) 1 <input type="checkbox"/> Solar heating equipment 2 <input type="checkbox"/> A stove burning wood or coal 3 <input type="checkbox"/> Fireplace burning wood or coal 4 <input type="checkbox"/> Portable electric heater 5 <input type="checkbox"/> Room heater WITHOUT flue or vent heating gas, oil, or kerosene 6 <input type="checkbox"/> Something else — Specify _____
(2) What was the YEARLY cost?	(56) \$ _____
(See item 14b, page 25)	
CHECK ITEM E	<input type="checkbox"/> Rented for cash — Ask 22 <input type="checkbox"/> Occupied without payment of cash rent — Skip to Section VIA, page 28
Go to Section VIA, page 28	

Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

CHECK ITEM C		Section VIIA: ENERGY CONSERVATION SURVEY ELEMENT		
<input type="checkbox"/>	<input type="checkbox"/> See item 12, page 13 <input type="checkbox"/> Box 9 marked in item 12 — Skip to Check Item C <input type="checkbox"/> All others — Ask 4d			
4e. Is there a thermostat in your living quarters which controls your heat?	<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to Check Item C</p> <p>(S1) <input type="checkbox"/> Yes — Skip to Check Item C <input type="checkbox"/> No</p> <p>(S1) <input type="checkbox"/> Change setting <input type="checkbox"/> Keep uniform setting all the time — Skip to Check Item C</p>			
b. Does this thermostat have a setting operated by a timer so that the temperature can be lowered automatically?	<p>(S1) <input type="checkbox"/> Yes — Skip to Check Item C <input type="checkbox"/> No</p>			
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?	<p>(S1) <input type="checkbox"/> Yes — Skip to Check Item C <input type="checkbox"/> No</p>			
d. Do you change it occasionally, that is, 3 or fewer days at the week, or do you change it regularly, that is, 4 or more days of the week?	<p>(S1) <input type="checkbox"/> Yes — Skip to Check Item C <input type="checkbox"/> No</p>			
(See item 8a, page 12)		<p><input type="checkbox"/> One-unit structure or mobile home or trailer — Skip to Check Item E(1), page 30 <input type="checkbox"/> Two-family unit structure — Skip to Check Item E(1), page 30</p>		
CHECK ITEM C		<p>(S1) <input type="checkbox"/> Yes, all windows <input type="checkbox"/> No — Skip to 6a</p>		
5a. 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.?		<p>(S1) <input type="checkbox"/> Yes, all doors <input type="checkbox"/> No — Skip to 7c</p>		
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?		<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		
6a. Does your house (mobile home or trailer) have storm doors?		<p>(S1) <input type="checkbox"/> Yes, all doors <input type="checkbox"/> No — Skip to 7c</p>		
b. During the past 12 months were any storm doors installed on this house?		<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to 7d</p>		
7a. Does your house (mobile home or trailer) have storm or roof insulation?		<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know</p>		
b. During the past 12 months, was attic or roof insulation added or installed?		<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to 7d</p>		
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?		<p>(S1) <input type="checkbox"/> Less than 3 inches <input type="checkbox"/> Up to 6 inches <input type="checkbox"/> 6 inches or more <input type="checkbox"/> Don't know</p>		
d. During the past 12 months was any insulation added or installed in the exterior walls?		<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		

CHECK ITEM D		Section VIIA: ENERGY CONSERVATION SURVEY ELEMENT		
<input type="checkbox"/>	<input type="checkbox"/> See items 7a and 7b, page 12)			
8. During the past 12 months was caulketing or weatherstripping added to the exterior doors or windows?	<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know</p>			
9. 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?	<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
CHECK ITEM D		<p>(See items 7a and 7b, page 12) <input type="checkbox"/> Owned or being bought (first "Yes" box marked item 7a) AND <input type="checkbox"/> "Yes" marked in any of 5b, 6b, 7b, 7d, 8, or 9 above — Ask 10 <input type="checkbox"/> All others — Skip to Check Item E(1)</p>		
10. What was the total cost of the (Specify "Yes" answers mentioned in items 5b, 6b, 7b, 7d, 8 and 9 above) which was added or installed during the past 12 months?	<p>(S1) <input type="checkbox"/> \$ 1 — 49 <input type="checkbox"/> 50 — 99 <input type="checkbox"/> 100 — 199 <input type="checkbox"/> 200 — 399 <input type="checkbox"/> 400 or more <input type="checkbox"/> Don't know <input type="checkbox"/> No charge, or none</p>			<p>(S1) <input type="checkbox"/> Owned or being bought — Go to Check Item E(2) <input type="checkbox"/> Rented or occupied without payment of cash rent — Skip to 13</p>
CHECK ITEM E		<p>(2) (See item 12, page 13) <input type="checkbox"/> Box 1, 2, 3, 4, 5, or 6 marked in item 12 — Ask 11 <input type="checkbox"/> Box 7, 8 or 9 marked in item 12 — Skip to 13</p>		
11. What is the age of your heating equipment?	<p>(S1) <input type="checkbox"/> 0-3 years <input type="checkbox"/> 4-9 years <input type="checkbox"/> 10-19 years <input type="checkbox"/> 20-39 years <input type="checkbox"/> 40 years or more <input type="checkbox"/> Don't know</p>			
12a. During the past 12 months, has any maintenance been done or modifications been made to your heating equipment?		<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		
b. Do you have a maintenance contract for your heating equipment?		<p>(S1) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		

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Section VII - ENERGY CONSERVATION SUPPLEMENT		
13. Did . . . (head) have a job last week?	(52) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Section VII, page 32	
14. What is . . . 's (head) principal means of transportation to work?	(53) 1 <input type="checkbox"/> Truck 2 <input type="checkbox"/> Car or carpool (57) 1 <input type="checkbox"/> Drives alone 2 <input type="checkbox"/> Shares driving 3 <input type="checkbox"/> Drives others 4 <input type="checkbox"/> Rides with someone else (57) 5 <input type="checkbox"/> Walks only 6 <input type="checkbox"/> Works at home — Skip to Section VII, page 32 7 <input type="checkbox"/> Railroad 8 <input type="checkbox"/> Subway or elevated 9 <input type="checkbox"/> Bus or streetcar 10 <input type="checkbox"/> Taxicab 11 <input type="checkbox"/> Motorcycle 13 <input type="checkbox"/> Bicycle 12 <input type="checkbox"/> Other means — Specify _____	
15. Does . . . (head) usually REPORT to the same location to begin work each day?	(52) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Section VII, page 32	
16. Does . . . (head) work in an incorporated city, town, borough or village?	(57) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't know Skip to 18	
17. Does . . . (head) live in the same city, town, borough or village that he/she works in?	(52) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
18. How long does it usually take . . . (head) to get from home to work?	(51) _____ Minutes	
19. What is . . . 's (head) ONE-WAY distance from home to work?	(52) _____ Miles OR 0 <input type="checkbox"/> Less than 1 mile Go to Section VII, page 32	

Notes

Section VII - EQUIPMENT BREAKDOWN SUPPLEMENT		
INTRODUCTION	Now I have some questions concerning problems you may have experienced in your home.	
CHECK ITEM A	Household head lived here last 90 days (See Part II Reference Check Item, page 22)	
	□ Yes — Ask I □ No — Go to Section VII, page 34	
1. Do you have piped water in this building?	(55) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 4a	
2a. At any time in the last 90 days, were you COMPLETELY without running water?	(56) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 3a	
b. Were you completely without running water for 6 consecutive hours or more?	(57) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't know Skip to 3a	
c. How many times?	(57) 1 <input type="checkbox"/> 1 2 <input type="checkbox"/> 2 3 <input type="checkbox"/> 3 or more 4 <input type="checkbox"/> 4 or more 5 <input type="checkbox"/> 5 or more 6 <input type="checkbox"/> 6 or more 7 <input type="checkbox"/> 7 or more 8 <input type="checkbox"/> 8 or more 9 <input type="checkbox"/> 9 or more 10 <input type="checkbox"/> 10 or more 11 <input type="checkbox"/> 11 or more 12 <input type="checkbox"/> 12 or more 13 <input type="checkbox"/> 13 or more 14 <input type="checkbox"/> 14 or more 15 <input type="checkbox"/> 15 or more 16 <input type="checkbox"/> 16 or more 17 <input type="checkbox"/> 17 or more 18 <input type="checkbox"/> 18 or more 19 <input type="checkbox"/> 19 or more 20 <input type="checkbox"/> 20 or more 21 <input type="checkbox"/> 21 or more 22 <input type="checkbox"/> 22 or more 23 <input type="checkbox"/> 23 or more 24 <input type="checkbox"/> 24 or more 25 <input type="checkbox"/> 25 or more 26 <input type="checkbox"/> 26 or more 27 <input type="checkbox"/> 27 or more 28 <input type="checkbox"/> 28 or more 29 <input type="checkbox"/> 29 or more 30 <input type="checkbox"/> 30 or more 31 <input type="checkbox"/> 31 or more 32 <input type="checkbox"/> 32 or more 33 <input type="checkbox"/> 33 or more 34 <input type="checkbox"/> 34 or more 35 <input type="checkbox"/> 35 or more 36 <input type="checkbox"/> 36 or more 37 <input type="checkbox"/> 37 or more 38 <input type="checkbox"/> 38 or more 39 <input type="checkbox"/> 39 or more 40 <input type="checkbox"/> 40 or more 41 <input type="checkbox"/> 41 or more 42 <input type="checkbox"/> 42 or more 43 <input type="checkbox"/> 43 or more 44 <input type="checkbox"/> 44 or more 45 <input type="checkbox"/> 45 or more 46 <input type="checkbox"/> 46 or more 47 <input type="checkbox"/> 47 or more 48 <input type="checkbox"/> 48 or more 49 <input type="checkbox"/> 49 or more 50 <input type="checkbox"/> 50 or more 51 <input type="checkbox"/> 51 or more 52 <input type="checkbox"/> 52 or 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Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

CHECK ITEM B		SECTION VIII - HEATING EQUIPMENT - CONTINUED	
<p><input type="checkbox"/> Household head lived here LAST WINTER [See Part (2) Reference Check item, page 22]</p> <p><input type="checkbox"/> Yes — Ask 5 <input type="checkbox"/> No — Go to Section VIII, page 34</p>		<p>5. 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.)</p> <p>(See item 12, page 13)</p> <p><input type="checkbox"/> Unit has no heating equipment (Box 9 marked in item 12) — <input type="checkbox"/> Skip to Section VIII, page 34 <input type="checkbox"/> All others — Ask 7a</p>	
<p>6. How many rooms do you have without heat air ducts, or radiators, radiators, or room heaters? Do not count kitchen or bathrooms.</p> <p>(See item 12, page 13)</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> None <input type="checkbox"/> 2 <input type="checkbox"/> 1 room <input type="checkbox"/> 3 <input type="checkbox"/> 2 rooms <input type="checkbox"/> 4 <input type="checkbox"/> 3 or more rooms</p>		<p>7a. At any time during the winter of (year), was there a breakdown in your heating equipment; that is, was it completely unusable for 6 consecutive hours or more?</p> <p>b. How many times did that happen?</p> <p>(See item 12, page 13)</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No — Skip to 8a <input type="checkbox"/> 3 <input type="checkbox"/> ? <input type="checkbox"/> 4 <input type="checkbox"/> 4 or more</p> <p>8a. During the winter of (year), did you completely close certain rooms for a week or longer because you couldn't get them warm? Do not include rooms closed solely for the purpose of saving fuel due to the current energy shortage. Include kitchens and bathrooms.</p> <p>b. Which rooms? (Mark all that apply)</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Living room <input type="checkbox"/> 2 <input type="checkbox"/> Dining room <input type="checkbox"/> 3 <input type="checkbox"/> One or more bedrooms <input type="checkbox"/> 4 <input type="checkbox"/> Other — Specify _____</p>	
<p><input type="checkbox"/> CHECK ITEM C</p>		<p>8b. Are all stair railings firmly attached?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> All in working order <input type="checkbox"/> 2 <input type="checkbox"/> Some in working order <input type="checkbox"/> 3 <input type="checkbox"/> None in working order</p> <p>9a. Are there loose, broken, or missing steps on any common stairways inside this building or attached to this building?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No <input type="checkbox"/> 3 <input type="checkbox"/> No common stairways — Skip to Check item B</p>	
<p><input type="checkbox"/> CHECK ITEM A</p>		<p>10a. Are all stair railings firmly attached?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No <input type="checkbox"/> 3 <input type="checkbox"/> No stair railings</p>	
<p><input type="checkbox"/> CHECK ITEM B</p>		<p>11a. Vacant unit — Go to Control Card item 39 <input type="checkbox"/> Occupied unit — Ask 6</p>	
<p><input type="checkbox"/> CHECK ITEM C</p>		<p>12a. Does this house (building) have complete kitchen facilities, that is, a kitchen sink with piped water, a refrigerator and a range or a cookstove, WHICH ARE ALL IN USABLE CONDITION?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No <input type="checkbox"/> 3 <input type="checkbox"/> No complete kitchen facilities</p>	

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FORM AH-2 (2-6-71)

CHECK ITEM B		SECTION VIII - HOUSING CONDITIONS	
<p>1. Does each room in this house (apartment) have a working electric wall outlet (wall plug)?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No</p>		<p>2. 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.</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No</p>	
<p>3a. Is it necessary to go through anyone's bedroom to get to any bathroom?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No</p>		<p>3b. Is it necessary to go through anyone's bedroom to get to any other room?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No</p>	
<p><input type="checkbox"/> CHECK ITEM A</p>		<p>(If vacant, see item 1a, page 5; if occupied see item 8a, page 12).</p> <p><input type="checkbox"/> One-unit structure, or a mobile home or trailer — Skip to Check item B</p> <p><input type="checkbox"/> Two-or-more-unit structure — Ask 4a</p>	
<p><input type="checkbox"/> OBSERVATION</p>		<p>4a. Do the public halls in this building have light fixtures?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No <input type="checkbox"/> 3 <input type="checkbox"/> No public halls</p>	
<p><input type="checkbox"/> CHECK ITEM B</p>		<p>4b. Are the light fixtures in working order?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> All in working order <input type="checkbox"/> 2 <input type="checkbox"/> Some in working order <input type="checkbox"/> 3 <input type="checkbox"/> None in working order</p>	
<p><input type="checkbox"/> CHECK ITEM C</p>		<p>5a. Are there loose, broken, or missing steps on any common stairways inside this building or attached to this building?</p> <p><input type="checkbox"/> 1 <input type="checkbox"/> Yes <input type="checkbox"/> 2 <input type="checkbox"/> No <input type="checkbox"/> 3 <input type="checkbox"/> No common stairways — Skip to Check item B</p>	

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FORM AH-2 (2-6-71)

Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

Section VIII - HOUSING QUALITY AND STATE OF REPAIR SUPPLEMENT - Continued	
Household head lived here last 90 days [See Part (I) Reference Check Item, page 22]	
CHECK ITEM C	<input type="checkbox"/> Yes - Ask 7a <input type="checkbox"/> No - Skip to 8
7a. Have any electric fuses or breaker switches blown in your house (building) in the last 90 days?	<div style="display: flex; justify-content: space-between;"> (41b) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know </div> Skip to 8 </div>
b. How many times did this happen?	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 or more </div> </div>
8. 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.)	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to 10 </div> </div>
9. Does the basement show any signs of water having leaked in from the outside?	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know </div> </div>
10. Does the roof of this house (building) leak?	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know </div> </div>
CHECK ITEM D	<input type="checkbox"/> Yes - Ask 11a <input type="checkbox"/> No - Skip to 12a
11a. 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)?	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to 12a </div> </div>
b. Do you know whether they were mice or rats?	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Yes, mice <input type="checkbox"/> Yes, rats <input type="checkbox"/> Yes, mice and rats <input type="checkbox"/> Don't know </div> </div>
c. Is this house (building) serviced by an exterminator for mice or rats regularly, only when needed, irregularly, or not at all?	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Regularly <input type="checkbox"/> Only when needed <input type="checkbox"/> Irregularly <input type="checkbox"/> Not at all </div> </div>
12a. 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?	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor </div> </div>
b. How would you rate this NEIGHBORHOOD as a place to live - would you say it is excellent, good, fair, or poor?	<div style="display: flex; justify-content: space-between;"> (41) <div style="display: flex; gap: 10px;"> <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor </div> </div>
	<div style="display: flex; justify-content: flex-end; margin-right: 10px;"> Notes </div>

Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

<p style="text-align: right;">FBI - BUREAU OF INVESTIGATION U.S. DEPARTMENT OF JUSTICE - WASH. D.C.</p> <p style="text-align: center;">ANNUAL HOUSING SURVEY</p> <p style="text-align: center;">HOUSING</p> <p style="text-align: center;">MODIFICATION SUPPLEMENT</p>	
<p>NOTICE: All information which you furnish will be held in strict confidence, and will not be used except for the purposes of this survey, or for the purposes of any other survey conducted by the Department of Housing and Urban Development.</p> <p style="text-align: center;">U.S. DEPARTMENT OF COMMERCE AGENCY FOR HOUSING AND URBAN DEVELOPMENT ANNUAL HOUSING SURVEY DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT</p> <p style="text-align: center;">1970-1971 ANHS-2A</p>	
<p>2. Sample (cc 1) <input type="checkbox"/> Serial</p> <p><input type="checkbox"/> P1 or <input type="checkbox"/> P2</p>	
<p>3. Interviewer (cc 1)</p> <p>4. ANHS-2A</p> <p>INTERVIEWER <input type="checkbox"/> Mobile <input type="checkbox"/> USE - Do in Other Case <input type="checkbox"/> Name _____ <input type="checkbox"/> Name of Case _____ <input type="checkbox"/> Name of Office _____ 4. Interviewer Name _____</p>	
<p>5. ANHS-2A</p> <p>INTERVIEW <input type="checkbox"/> Non-Interview <input type="checkbox"/> Refusal <input type="checkbox"/> Other _____</p>	
<p>6. ANHS-2A</p> <p>Notes _____</p>	

Facsimile of the Annual Housing Survey Questionnaire: 1978—Continued

Appendix B

Source and Reliability of the Estimates

SAMPLE DESIGN	App-40	ESTIMATION	App-42	Differences	App-46
Selection of sample areas	App-40	RELIABILITY OF THE ESTIMATES	App-43	Illustration of the computation of the standard error of a difference	App-46
Designation of sample housing units for the 1978 survey	App-40	Sampling errors	App-43	Medians	App-46
Selection of the 1973 sample housing units	App-40	Standard errors of estimates of levels	App-43	Illustration of the computation of the 95-percent confidence interval for a median	App-47
Splitting of the sample	App-41	Standard errors of estimates of percentages	App-43	Nonsampling errors	App-47
Selection of supplemental sample housing units in rural areas	App-41	Standard errors of ratios	App-44	Reinterview program	App-47
Selection of sample housing units for the 1976 Coverage Improvement Program	App-41	Illustration of the use of the standard error tables		Coverage errors	App-48
1977 SAMPLE REDUCTION	App-42	Illustration I	App-44	Rounding errors	App-48
		Illustration II	App-45		

SAMPLE DESIGN

The 1978 estimates are based on data collected in October 1978 through January 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 1978 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 72,000 sample housing units (both occupied and vacant) were eligible for interview in the 1978 Annual Housing Survey. Of this number, 4,400 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 72,000 eligible units, there were also 5,900 sample units which were visited but were ineligible for interview for the AHS in terms of collecting information relevant to the 1978 housing inventory.

Selection of sample areas—The United States was divided into areas made up of counties and independent cities referred to as primary sampling units (PSU's). These PSU's were then grouped into 376 strata, 156 of which consisted of only 1 PSU in sample with certainty. These 156 strata, mostly the larger SMSA's, were called self-representing (SR) because 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 1 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 1978 survey—The sample housing units designated to be interviewed in the 1978 survey consisted of the following categories, which are described in detail in succeeding sections.

1. All sample housing units that were interviewed in the 1977 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 1977 survey. (For a list of reasons for type A and type B noninterviews, see the facsimile of the 1978 AHS questionnaire, page App-20.)
3. All sample housing units that were selected from the list of building permits issued since the 1977 survey. (This sample represented the housing units built in permit-issuing areas, since the 1977 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 housing 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:

Number of HU's in the ED +	<u>Number of Group Quarters Persons in the ED</u>
	3

4

The next step was to select an expected cluster of about four neighboring housing units within each sample ED. For most of the ED's, the selection was accomplished using the list of addresses for the ED as compiled in the 1970 census. However, in those ED's where addresses were incomplete or inadequate (mostly rural areas), the selection process was accomplished using area sampling methods. These ED's were divided into segments (i.e., small land areas with well-defined boundaries, having an expected size of four, or a multiple of four, housing units) and a segment was selected. Those selected segments with an expected size which was a multiple of four were further subsampled at the time of enumeration so that an expected four housing units were chosen for interview.

The sample of new construction units was selected from building permits issued since January 1970. Within each sample PSU, the building permits were chronologically ordered by month issued, and compact clusters of approximately four housing units were created. These clusters were then sampled at the rate of 2 in 1,366. Housing units constructed since the 1970 census in areas which do not issue building permits were brought into the sample as a result of the area sample described.

Splitting of the sample—The 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; whereas, 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 a park missed by the census or established after the census, was also selected in two stages. During the first stage, a list of mobile home parks was obtained from commercial listings. This list was then supplemented by additional parks identified by a canvassing operation

similar to that performed in ED's where area sampling methods are used. The second stage consisted of dividing the parks into clusters of an expected size of four sites. These clusters were then sampled so that the overall probability of selection was about 1 in 1,366.

For the remaining units, (i.e., mobile homes placed outside parks since the 1970 census, mobile homes vacant at the time of the 1970 census, units converted from nonresidential to residential use since the 1970 census, and houses that had been moved onto their present site since the 1970 census), the sampling was done in three stages. First, a subsample of the regular AHS sample units from the census address frame was selected. Second, succeeding structures, that had been eligible to be selected from the census address frame, were 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 (primarily from 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. However, this reduction did not include any CEN-SUP¹ 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 1978, 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:

$$\frac{\text{Interviewed housing units} + \text{Noninterviewed housing units}}{\text{Interviewed housing units}}$$

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.

¹CEN-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:

The 1970 census housing population in the residence-tenure category
for all NSR strata in a census region

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 housing 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:

Current best estimate of new construction in the category
AHS sample estimate of new construction units in the category

The numerators of the ratio 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:

Current independent estimate of housing units in the category
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 18 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 17 categories of new construction units for each of the 4 regions (i.e., 11 categories for conventional new construction units and 6 for new construction mobile homes) and, as before, of adjusting the AHS sample estimate of 1 category of conventional new construction units to an independently derived current estimate.

The numerators for the repeated second-stage ratio estimation procedure 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 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 the sampling error. One common measure of this sampling error is the standard error which measures the precision with which an estimate from a sample approximates the average result of all possible samples. In addition, the standard error, as calculated for 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 in this report.

Standard errors of estimates of percentages—The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size

of the percentage and the size of the total upon which the percentage is based. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more. Tables III and IV present the standard errors for estimated percentages.

TABLE I. Standard Errors of Estimated Numbers of National and Regional Housing Units: 1978 (Excluding Estimates of Housing Units for the West Region and of Households With Head of Spanish Origin)

(68 chances out of 100)

Size of estimate (000)	Standard error		Size of estimate (000)	Standard error	
	National (000)	Regional (000)		National (000)	Regional (000)
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: 1978

(68 chances out of 100)

Size of estimate (000)	Standard error (000)	Size of estimate (000)	Standard error (000)
0	2	500.	35
5	3	1,000	50
10	5	2,500	85
25	8	5,000	131
50	11	10,000.	213
100	15	25,000.	446
250	24		

Included in tables I through IV are estimates of standard errors for estimates of zero and zero percent. These estimates of standard errors are considered to be overestimates of the true standard errors and should be used primarily for construction of confidence intervals for characteristics when an estimate of zero is obtained.

Standard errors of ratios—For ratios of the form $(100) (x/y)$, where x is not a subclass of y , tables III and IV underestimate the standard error of the ratio when there is little or no

correlation between x and y . For this type of ratio, a better approximation of the standard error may be obtained by letting the standard error of the ratio be approximately equal to:

$$(100) \left(\frac{x}{y} \right) \sqrt{\left(\frac{\sigma_x}{x} \right)^2 + \left(\frac{\sigma_y}{y} \right)^2}$$

where: x = the numerator of the ratio
 y = the denominator of the ratio
 σ_x = the standard error of the numerator
 σ_y = the standard error of the denominator

Illustration of the use of the standard error tables. Illustration I—Table A-1 of this report shows that there were 8,936,000 renter-occupied, 1-unit structures (including mobile homes and trailers), in the United States in 1978. Interpolation in standard error table I of this appendix 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
8,936	x
10,000	131

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

$$\begin{aligned} 8,936 - 5,000 &= 3,936 \\ 10,000 - 5,000 &= 5,000 \end{aligned}$$

$$96 + \frac{3,936}{5,000} (131 - 96) = 124$$

Consequently, the 68-percent confidence interval, as shown by these data, is from 8,812,000 to 9,060,000 housing units. Therefore, a conclusion that the average estimate of 1978 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 8,738,000 to 9,134,000 housing units with 90 percent confidence; and that the average estimate lies within the interval from 8,688,000 to 9,184,000 housing units with 95 percent confidence.

Table A-1 also shows that of the 8,936,000 renter-occupied housing units in 1-unit structures (including mobile homes and trailers), 2,385,000 or 26.7 percent, have all doors covered by storm doors. Interpolation in standard error table III (i.e., interpolation on both the base and percent) of this appendix

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 table III. The entry for "p" is the one sought.

Base of percentage (000)	Estimated percentage		
	25	26.7	50
5,000	0.9	a	1.0
8,936		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.

$$26.7 - 25.0 = 1.7$$

$$50.0 - 25.0 = 25.0$$

$$0.9 + \frac{1.7}{25.0} (1.0 - 0.9) = 0.9$$

2. By horizontal interpolation between 0.6 and 0.7, using the same procedure as 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 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 26.0 to 27.4 percent; the 90-percent confidence interval is from 25.6 to 27.8 percent; and the 95-percent confidence interval is from 25.3 to 28.1 percent.

Illustration II—Table E-1 of this report shows that in the West Region there were 9,091,000 owner-occupied housing units in 1978. Interpolation in standard error table II of this appendix shows that the standard error of an estimate of this size is approximately 198,000. Consequently, the 68-percent confidence interval is from 8,893,000 to 9,289,000 housing units. Therefore, a conclusion that the average estimate, derived from all possible samples, of 1978 owner-occupied housing units in the West Region lies within a range computed in this way and 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 8,774,000 to 9,408,000 housing units with 90 percent confidence; and that the average estimate lies within the interval from 8,695,000 to 9,487,000 housing units with 95 percent confidence.

Table E-1 also shows that of the 9,091,000 owner-occupied housing units in the West Region, 2,096,000 or 23.1 percent, have a central air-conditioning system. Interpolation in standard error table IV (i.e., interpolation on both the base and the percent) of this appendix 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 22.4 to 23.8 percent; the 90-percent confidence interval is from 22.0 to 24.2 percent; and the 95-percent confidence interval is from 21.7 to 24.5 percent.

TABLE III. Standard Errors of Estimated Percentages of Housing Units: 1978 (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	0.1	0.2	0.3	0.4	0.5	0.6	0.7
25,000	0.01	0.09	0.1	0.2	0.3	0.3	0.4	0.4
50,000	—	0.06	0.09	0.1	0.2	0.2	0.3	0.3
75,000	—	0.05	0.07	0.1	0.2	0.2	0.2	0.3

Differences—The standard errors shown are not directly applicable to differences between two sample estimates. The standard error of a difference between estimates is approximately equal to the square root of the sum of the squares of the standard errors of each estimate considered separately. This formula is quite accurate for the difference between estimates of the same characteristics in two different areas or the difference between separate and uncorrelated characteristics in the same area. If, however, there is a high positive correlation between the two characteristics, the formula will overestimate the true error. However, if there is a high negative correlation between the two characteristics, the formula will underestimate the true standard error.

Illustration of the computation of the standard error of a difference—Table A-1 shows there were 5,150,000 renter-occupied, 1-unit structures (including mobile homes and trailers), with no doors covered by storm doors in the United States in 1978. Thus, the apparent difference between the number of 1978 renter-occupied 1-unit structures (including mobile homes and trailers) with no doors covered and those with all doors covered is 2,765,000. Interpolation in standard error table I of this appendix shows that the standard error of 2,385,000 is approximately 67,000 and that the standard error on an estimate of 5,150,000 is approximately 97,000. Therefore, the standard error of the estimated difference of 2,765,000 is about:

$$118,000 = \sqrt{(67,000)^2 + (97,000)^2}$$

Consequently, the 68-percent confidence interval for the 2,765,000 difference is from 2,647,000 to 2,883,000 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 and would be correct for roughly 68 percent of all possible samples. Similarly, the 90-percent confidence interval is from 2,576,000 to 2,954,000 housing units, and the 95-percent confidence interval is from 2,529,000 to 3,001,000. Thus, we can conclude with 95 percent confidence that the number of 1978 renter-occupied, 1-unit structures (including mobile homes and trailers), 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; and
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 all 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.

TABLE IV. Standard Errors of Estimated Percentages of Housing Units for the West Region and of Households With Head of Spanish Origin: 1978

(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	0.1	0.2	0.3	0.3	0.4	0.5

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 housing units was \$18,000 in 1978. The base of the distribution, from which this median was determined, is 40,054,000 housing units.

1. From standard error table III, the standard error of a 50-percent characteristic on the base of 40,054,000 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 16,216,000 specified owner-occupied housing units, or 40.5 percent, had an income of less than \$15,000 and that an additional 6,273,000 specified owner-occupied housing units, or 15.7 percent, had an 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:

$$\$15,000 + (\$20,000 - \$15,000) \left(\frac{49.4 - 40.5}{15.7} \right) = \$17,800$$

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

$$\$15,000 + (\$20,000 - \$15,000) \left(\frac{50.6 - 40.5}{15.7} \right) = \$18,200$$

Thus, the 95-percent confidence interval ranges from \$17,800 to \$18,200.

Nonsampling errors—In general, nonsampling errors can be attributed to many sources: Inability to obtain information about all cases; definitional difficulties; differences in the interpretation of questions; inability or unwillingness to provide correct information on the part of respondents; mistakes in recording or coding the data; and other errors of collection, response, processing, coverage, and estimation for missing data. Nonsampling errors are not unique to sample surveys since they can, and do, occur in complete censuses as well.

Obtaining a measurement of the total nonsampling error associated with the estimates from a survey is very difficult, considering the number of possible sources of error. No attempt was made to measure the nonsampling errors associated with the estimates for the 1978 Energy Conservation Supplement. However, this was done for the 1977 Energy Conservation Supplement.

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 nonattitudinal and attitudinal questions on the AHS questionnaire were obtained again.

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 1978 reinterview study were not available at the time of publication; however, it is expected that they will be similar to the results of the 1977 reinterview study which are presented in the Census Bureau memorandum, "Reinterview Results for the Annual Housing Survey—National Sample 1977."

The results of the 1977 reinterview study seem to indicate that there are some very slight improvements in the consistency of response from 1976 to 1977. Unlike the years prior to 1976, the respondent's answers in the reinterview were not reconciled to the original answers given in the AHS interview; i.e., after the question was answered in the reinterview, the interviewer did not present the responses and then ask the respondent to decide upon the best answer. Comparing the reinterview results of 1976 with the years prior to 1976, we found that the estimates of inconsistency of all items (nonattitudinal and attitudinal) increased substantially in the 1976 results. In other words, providing the reinterviewer with the original response had the effect of reducing the levels of inconsistency.

To summarize the results of the 1977 reinterview program; 43 percent of nonattitudinal items showed low levels of inconsistency, 36 percent showed moderate levels of inconsistency, which indicated that there were some problems with inconsistent reporting, and 21 percent showed high levels of inconsistency, which indicated that improvements were needed in the data collection methods or that the category concepts themselves were ambiguous.

The 1970 census reinterview results provide illustrations of possible nonsampling errors for some of the items which also appear in the AHS. For example, median value of homes was consistently underestimated by about 5 percent, and the average monthly costs of electricity and utility gas were consistently overestimated although the net effect on average gross rent was fairly small.

A possible explanation for the results of the AHS and census reinterview studies, as well as the surveys themselves, is that the respondents may lack precise or complete information. Also, because the results of the reinterview studies are derived from sample surveys, there is sampling error associated with these estimates of nonsampling error. Therefore, the possibility of such errors should be taken into account when considering the results of this study.

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 1978 AHS sample missed about 3.3 percent (i.e., about 375,000 units) of conventional housing units built after April 1970, because the permits for these units, which were built before October 1978, were issued less than 5 months in advance of the survey. The second stage of 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.

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 1978 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: Closure of rooms				
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	A-4,B-4,C-4,D-4,E-4
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				
Attic or roof insulation	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 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				
Cooking 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
All electric housing units	—	—	—	—
All gas housing units	—	—	—	—
Monthly cost paid for electricity				
Monthly cost paid for utility, bottled, tank, or LP gas	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	—
Yearly cost paid for fuel oil, kerosene, coal, wood, etc.				
HEATING AND AIR CONDITIONING				
Heating equipment				
Thermostat controlled 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
Insufficient heat: Closure of rooms				
Additional heat source	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	—
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				
Storm doors	—	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
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	
	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			—	F-1	G-1
Cooking fuel	A-9, B-9,C-9,D-9,E-9	—	—	—	—
All electric housing units			—	—	—
All gas housing units	A-9,B-9,C-9,D-9,E-9	—	—	—	—
Monthly cost paid for electricity			—	—	—
Monthly cost paid for utility, bottled, tank, or LP gas			—	—	—
Yearly cost paid for fuel oil, kerosene, coal, wood, etc.			—	F-1	G-1
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
Thermostat controlled heating equipment			—	—	—
Insufficient heat:					
Closure of rooms			—	—	—
Additional heat source			—	F-1	G-1
Rooms lacking specified heat source.	—	—	—	—	—
Supplemental heating equipment acquired during last 12 months	A-9,B-9,C-9,D-9,E-9	—	—	—	—
Age of heating equipment			—	F-1	G-1
Maintenance or modification of heating equipment during last 12 months	A-9*,B-9*,C-9*,D-9*,E-9*	A-10,B-10,C-10,D-10,E-10	—	F-1	G-1
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			—	—	—
Storm doors	A-9,B-9,C-9,D-9,E-9	A-10,B-10,C-10,D-10,E-10	—	F-1	G-1
Attic or roof insulation			—	—	—
Insulation items added or installed in last 12 months			—	—	—
Cost of insulation items added or installed in last 12 months			—	F-1	G-1
JOURNEY TO WORK					
Head's principal means of transportation to work	—	—	—	—	—
Distance from home to work	—	—	—	F-1	G-1
Travel time from home to work	—	—	A-11,B-11,C-11,D-11,E-11	F-1	G-1
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.