

UNIT

Data in this section include the unit size, the number of rooms, bedrooms, bath rooms and other rooms in the unit, the number of people per room and information on additions and major alterations undertaken in the last two years. Information on equipment acquisition and addition of storm windows and insulation is documented in the next section (Kitchen, Plumbing, Cooling, and Heating Equipment).

Until 1978, information on number of rooms and number of bedrooms was collected each year for the National Sample. Starting in 1978, the information is obtained from respondents who indicated that a change in number of rooms or bedrooms had occurred since the last interview. If a change was not reported, the variable was assigned the information from the previous year. From 1984 on, the questions are again asked of the respondent.

Items related to previous residence are presented in the Past and Future Home section. In general, the variables are available for all units. Information on renovations, however, is available for owner-occupied units only. Up through 1983, renovation variables were available for one unit structures only (including mobile homes, except in 1983) on less than 10 acres with no doctors or commercial establishments. Starting in 1984, the information is available for all owner-occupied units.

Unit Size--Starting in 1984, the AHS provides information on the size of the unit. Included are basements and finished attics. Excluded are unfinished attics, carports, attached garages, and porches that are not protected from the elements. The information is obtained from the respondent and by exterior measurements if the respondent authorizes the interviewer to do so. Interviewers are given very specific instructions on how to elicit the information from the respondent and on how to measure the unit from the outside. If the respondent does not know the total square footage of the unit, the interviewer elicits information on a floor or room basis, records the length and width for each floor and provides sketches of the units. This information is reviewed by the Census Bureau and used to compute the square footage of the unit. The variable MEASUR indicates whether the interviewer was authorized to obtain outside measurements or whether the square footage recorded in the AHS file is based exclusively on information provided by the respondent.

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 basement rooms, permanently enclosed porches that are suitable for year-round use, and lodgers' 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. A dining area in a L-shaped living room is not recorded as dining room and not counted as a room.

Excluded from 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 people 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.

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, or an extra bedroom used for storage, 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.

Full Bathrooms--A unit has a full complete bathroom if it has a room with a flush toilet and bathtub or shower and a sink, as well as hot and cold piped water in the structure for the exclusive use of the occupants in 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.

Porch, balcony, deck--A porch, deck, or balcony must be attached to the unit, not only to the building. It can be open or enclosed and must be at least four by four feet. An enclosed porch used for year-round living and reported as a room is not reported as a porch to avoid double counting.

Crowding--Until 1983, a variable reporting the number of people per room was provided in the AHS files. This variable can be created for later years. Other measures can be computed by using the household composition variables. Several measures have been used to measure crowding or appropriateness of the space in the unit relative to the number of people in the household. One measure is based on the number of people per room (not more than 1.0 or 1.5 persons per room), another on the number of people per bedroom (not more than 2 people per bedroom). The latter has sometimes been elaborated by relating the requirements to family composition (for example, by requiring that people of the opposite sex other than husband and wife or young children have separate bedrooms).

Renovations--Renovations include work completed after the original construction. Work which has begun but was never completed is not reported, unless the work is currently in progress. Additions are restricted to the sample unit. Remodeling includes replacing or adding installed equipment. Major equipment includes heating equipment, water heaters and heat pumps. Appliances such as portable dishwashers which are simply plugged and not installed are not included.

Other major repairs or improvements include any work done to the sample unit. It does not include detached garage, outdoor swimming pools, free standing decks or any other structures on the property, but outside the sample unit.

Cost of Renovations--The dollar amount reported or specified in the questions, e.g., \$500 or more, includes the total cost of labor and materials, but does not include estimated labor charges for work performed by the occupants or provided free of charge.

The information is available for owner-occupied units only. Up through 1983, it was available only for one-unit structures with no medical/dental offices or commercial establishments located on less than 10 acres.

Low Interest Loans--These include loans or grants from a government program (Federal, State or Local) which were more than one percent below the current market rate for home improvement at the time the loan was contracted.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0069	UNITSF	85N-93N 84S-93S	Size Of Unit (In Square Feet) 0 Don't Know 1-5000 1 to 5000 square feet 5001 5001 square feet or more 9998 Not Reported 9999 Not Applicable		<u>84S</u> 30	<u>85N</u> 30	
			Note: Starting in 1987N and 1988S, this question is not asked directly. If no change in the square footage is reported (see UNSFUP below), the square footage is copied from the previous interview. If a change was reported, the variable reflects the updated square footage.				
0070	USFCHG	87N-93N 88S-93S	Change in Square Footage of Unit Since 1985 1 Yes 2 No 9 Not Applicable		<u>88S</u> 40	<u>87N</u> 28	
0071	USFCAM	87N-93N 88S-93S	Amount of Square Footage Added/Lost In Unit Since 1985 -5001 Lost 5,000 square feet or more -1 - -5000 Lost 1 to 5,000 square feet 0 Don't Know 1-5000 Added 1 to 5,000 square feet 5001 Added 5001 square feet or more 9998 Not Reported 9999 Not Applicable		<u>88S</u> 40	<u>87N</u> 28	
0072	MEASUR	85N-93N 84S-93S	Source of Data on Size of Unit 1 Respondent Provided Square Footage, or Non-Interview 2 Respondent Provided Length and Width of Each Floor 3 Interviewer Measured Unit		<u>84S</u> 30	<u>85N</u> 30	
0072A	MEASU1	85N 84S-87S	Permission for interviewer to measure house size 1 Yes 2 No 8 Not Answered 9 Occupant gave size, or vacant, URE or Non-Interview			<u>85N</u> 28	
0073	ROOMS	73N-93N 74S-93S	Number of Rooms In House Or Apartment 73N 74N-83N 74S-83S 85N-93N 84S-93S 1-20 1 to 20 Rooms 21 21 Rooms or More 1-91 1 to 91 Rooms 1-11 1 to 11 Rooms 1-39 1 to 39 Rooms 12 12 or More 99 99 99 99 Not Applicable	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> G	<u>85N</u> G
			Note: Starting 1984, this variable is computer-generated by adding all rooms reported by respondent.				
			Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, the top code is the 97th percentile for the entire national sample.				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0074	ROOMSC	78N-81N	Change In No. Of Rms In House/Apartment Since Last Survey 1 Yes 2 No 3 Not Sure 9 Not Applicable	<u>81N</u> 3			
0075	BEDRMS	73N-93N 74S-93S	Number of Bedrooms Used 74N-81N 73N 83N 85N-93N <u>74S-93S</u> 0 None 0-5 None To 5 Bedrooms 1-9 1 To 9 Bedrooms 6 6 Or More Bedrooms 10 10 Or More Bedrooms 99 99 Not Applicable	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> 4	<u>85N</u> 4
<p>Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, the top code is the 97th percentile for the entire national sample.</p>							
0076	BDRMSC	78N-81N	Change In No. Of Rms Mainly For Sleeping Last Int. 1 Yes 2 No 3 Not Sure 8 Not Answered 9 Not Applicable	<u>81N</u> 3			
0077	BATHS	73N-93N 74S-93S	Number of Bathrooms 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u> 0 No Bathrooms 1-9 1 to 9 Bathrooms 1 All Facilities, But Not In One Room 2 One Full Bath 3 One, Plus Half Bath Without Toilet 4 One, Plus Half Bath With Toilet 5 Two Full Baths 6 Over Two Baths 10 10 or More Baths 9 99 Not Applicable	<u>83N</u> 4	<u>83S</u> 4	<u>84S</u> 4	<u>85N</u> 4
<p>Note: In the National Surveys from 1978 to 1981, this question is asked only if the unit was a non-interview or not-in-the-sample in previous year; otherwise, the previous year's code is preserved here</p>							
<p>Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, the top code is the 97th percentile for the entire national sample.</p>							
0078	HALFB	85N-93N 84S-93S	Number of Half Bathrooms 0 None 1-9 1 To 9 10 10 or More Half Baths 99 Not Applicable	<u>84S</u> 4	<u>85N</u> 4		
<p>Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning 1987N, the top code is the 97th percentile for the entire national sample.</p>							

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0079	LIVING	85N-93N	Number Of Living Rooms	<u>84S</u>	<u>85N</u>
0080	KITCH	84S-93S	Number of Kitchens	4	4
0081	DINING		Number of Dining Rooms	4	4
0082	DENS		Number of Family Rms, Dens, Rec Rms And/Or Libraries	4	4
0083	OFFICE		Number of Rms That Are Business Space W/Sep. Access	4	4
0084	NOTHRM		Number of Other Rooms, Finished or Unfinished	4	4
			Standard Codes For All Variables Are:		
			0 None		
			1-4 1 To 4		
			5 5 or More		
			9 Not Applicable		
			Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, top code is the 97th percentile for the entire national sample.		
0085	OTHRMS	85N-93N 84S-93S	Any Rooms Other Than Bdrms, Bathrms, Living, Dining, Kitchen	<u>84S</u>	<u>85N</u>
			1 Yes	4	4
			2 No		
			9 Not Applicable		
			Note: Excludes Halls, Foyers, Pantries, Garages, Porches, or Areas Not Separated By A Built-In Floor-To-Ceiling Wall Extending At Least A Few Inches Into Room.		
0086	PORCH	85N-93N 84S-93S	Unit Has Porch/Deck/Balcony/Patio (Not Counted As Room)	<u>84S</u>	<u>85N</u>
			1 Yes	9	9
			2 No		
			9 Not Applicable		
0087	ZCROWD	73N-81N 83N 74S-83S	Recorded Persons Per Room	<u>83N</u>	<u>83S</u>
			001-996 0.01-9.96 Persons/Room	G	G
			997 9.97 or More Persons/Room		
			999 Not Applicable		
0088	PRIVN	73N-81N 83N 74S-83S	Must Go Through Bedroom To Reach Non-Bath/Bedroom	<u>83N</u>	<u>83S</u>
			1 Yes	7	7
			2 No		
			8 Not Answered		
			9 Not Applicable (Unit has 0 Bedrooms), URE, Vacant, Or Non-interview.		
0089	PRIVB	73N-81N 83N 74S-83S	Must go Through Bedroom To Reach Bath	<u>83N</u>	<u>83S</u>
			1 Yes	7	7
			2 No		
			8 Not Answered		
			9 Not Applicable (Unit Has 0 Bedrooms And/Or More Than One Bath), URE, Vacant, Or Non-interview.		
			Note: Coding of the variable does not reflect the skip patterns in the questionnaire. Some answers were edited out and coded as Not applicable.		
0090	IF3BED	73N	Any Bedrooms Used For Sleeping By 3 Or More Persons	<u>73N</u>	
			1 Yes	4	
			2 No		
			8 Not Answered		
			9 Not Applicable		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0091	NUMBED	73N-77N 74S-78S	No. Of Bedrooms Used for Sleeping By 3 Or More Persons 73N 74N-77N 74S-78S 1 1 1 Bedroom 2 2 2 Or More Bedrooms 3 None 8 8 Not Answered 9 9 Not Applicable	<u>77N</u> 14	<u>78S</u> 14
0092	NOPRIV	74N-77N 74S-78S	Anyone In 3 Person Bedroom Over 12 Years Old 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>77N</u> 14	<u>78S</u> 14
0093	NEWROF	85N-93N 84S-93S	All Or Part Of Roof Replaced In Last 2 Years 1 Yes, All Of Roof Replaced 2 Yes, Part Of Roof Replaced 3 No, None Of Roof Replaced 8 Not Answered 9 Not Applicable		<u>84S</u> 15
0094	HHROF	85N-93N 84S-93S	Hhld Member Worked To Replace All Or Part Of Roof 1 Yes 2 No 8 Not Answered 9 Not Applicable		<u>85N</u> 16
0095	NEWADD	85N-93N	New Additions Built In Last 2 Years		<u>84S</u> 15
0096	NEWKIT	84S-93S	Kitchen Added or Remodeled In Last 2 Years		<u>85N</u> 16
0097	NEWBTH		Bathroom(s) Added Or Remodeled In Last 2 Years		15
0098	NEWSID		Siding Replaced Or Added In Last 2 Years		16
0099	OTHFIX		Other Major Repairs/Improvements > \$500 Each In Last 2 Years Standard Codes For All Variables Are: 1 Yes, Work Done, Not Known By Whom 2 No, Work Described Not Done 3 Yes, Work Done, By Household Member 4 Yes, Work Done, Not By Household Member 8 Not Answered 9 Rental Unit Or Non-Interview		15
0100	ADD	74N-77N	Additions to Property In Last 12 Months	<u>83N</u> 21	<u>81S</u> 22
0101	MAJADD	80N	Additions to Property Cost \$100-\$500 Or More	21	22
0102	ALT	83N	Alterations To Property In Last 12 Months	21	22
0103	MAJALT	75S-81S	Alterations To Property Cost \$100-\$500 Or More	21	22
0104	REP		Replacements On Property In Last 12 Months	21	22
0105	MAJREP		Replacements On Property Cost \$100-\$500 Or More	21	22
0106	FIX		Repairs To Property In Last 12 Months	21	22
0107	MAJFIX		Repairs To Property Cost \$100-\$500 Or More 1 Yes 2 No 8 Not Answered 9 Not Applicable	21	22

Note: Amount changed from \$100 to: \$200 in 77N and 77S,
\$250 in 80N, \$300 in 78S, \$400 in 79S, \$500 in 80S
and 81S.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>84S</u>	<u>85N</u>
0108	CSTROF	85N-93N	Cost Of Roofing Job In Last 2 Years	15	16
0109	CSTADD	84S-93S	Cost Of Additions Built In Last 2 Years	15	16
0110	CSTKIT		Cost Of Kitchen Remodeling/Addition In Last 2 Years	15	16
0111	CSTBTH		Cost Of Bathroom Remodeling/Addition In Last 2 Years	15	16
0112	CSTSID		Cost Of Siding Replaced/Added In Last 2 Years	15	16
			Standard Codes For All Variables Are:		
			0 No Cost		
			1-9996 \$1 to \$9996		
			9997 \$9997 Or More		
			9998 Not Answered		
			9999 Rental Unit Or Non-Interview		
			Note: Includes Materials and Labor Other Than The Cost Of Household Members' Time.		
			Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, the top code is the 97th percentile for the entire national sample.		
0113	CSTFIX	85N-93N 84S-93S	Cost Of Other Repairs/Improvements Over \$500 Each	<u>84S</u> 15	<u>85N</u> 16
			0 No Cost		
			500-9996 \$500 To \$9996		
			9997 \$9997 Or More		
			9998 Not Answered		
			9999 Not Applicable		
			Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, the top code is the 97th percentile for the entire national sample.		
0114	SUBFLX	85N-93N 84S-93S	Hhld Recd Low Interest Loan/Grant From Govt For Repairs	<u>84S</u> 15	<u>85N</u> 16
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
0115	IMM	74N-77N	Expect To Add, Repair, Fix, Alter In Next 12 Months	<u>77N</u> 22	<u>81S</u> 22
0116	MAJIMM	75S-81S	Expect Changes To Cost \$100-\$500 Or More In Next 12 Mos	22	22
			1 Yes		
			2 No		
			3 Don't Know		
			8 Not Answered		
			9 Not Applicable		
			Note: Amount changed from \$100 to: \$200 in 77N and 77S, \$250 in 80N, \$300 in 78S, \$400 in 79S, \$500 in 80S and 81S.		

Notes: G = Variable is computer generated, and is not present on the questionnaire.
 ++ = Variable is present on a supplemental page to the questionnaire.
 CC = Variable is present on the control card for the unit.

EQUIPMENT

This section documents kitchen and bathroom facilities, plumbing, cooling, and heating equipment. It also contains information on energy conservation features, such as storm windows and insulation, and on recent installations of major equipment. Facilities present in the previous residence are in the Past and Future Homes section. For data on fuels used to operate equipment discussed in this section and on utility costs, refer to the Fuels and Utility Costs section. In general, the variables are available for all units in the sample.

Telephone available--A housing unit has 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. Note that this definition is different from the 1980 Census, which counts a telephone only if it is inside the specific housing unit.

Complete kitchen facilities--A unit has complete kitchen facilities when it has all three of the following for the exclusive use of the occupants of the unit: (1) an installed sink with piped water, (2) a mechanical refrigerator, and (3) built in burners, not portable. Through 1983 the oven was not part of the definition. 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 stove. 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 people 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 have been removed, the kitchen facilities used by the last occupant are to be reported.

Complete plumbing facilities--A unit has "complete plumbing facilities" if it has hot and cold piped water inside the unit 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 unit but they need not be in the same room. Note that plumbing facilities are considered complete if they are located in the structure in which the unit is located, while in the Census, facilities are complete only if they are inside the specific housing unit. Plumbing facilities are shared if they are also for the use of the occupants of other housing units.

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 in the "other" category.

Sewage disposal--A "public sewer" is connected to a city, county, sanitary district, neighborhood, or subdivision sewer system. It may be operated by a government body or private organization. A "septic tank or cesspool" is an underground tank or pit used for disposal of sewage which serves five or fewer units. Small sewage treatment plants, which in some localities are called neighborhood septic tanks, are classified as public sewers.

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.

Heating equipment--"Warm-air furnace" refers to a central system which provides warm air through ducts leading to various rooms. An "electric heat pump" refers to an electric all-in-one heating-cooling system which utilizes indoor and outdoor coils, a refrigerator, 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 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 other pipeless furnace or built-in hot air heater without ducts" 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 heaters that burn gas, oil, or kerosene and do not connect to a flue, vent, or chimney. Starting in 1984, fireplaces, stoves, and electric portable heaters are reported separately. Up through 1983, they were reported as a group and include room heaters that burn coal, coke, charcoal, wood, or other solids. It also includes portable electric heaters that get current from an electrical wall outlet. According to interviewer instructions, portable heaters burning liquid fuel should be included under "fireplaces, etc.", not under "room heaters without flue", but the questionnaire does not mention the portability distinction, so some portable room heaters may be classified "room heaters", while others are classified "fireplaces, etc."

For vacant units from which the heating equipment had been removed, the equipment used by the last occupants is to be reported.

Installation of major equipment--includes heating equipment, central air conditioning, dehumidifiers, portable dishwashers, water heaters, etc. The equipment must be installed at the time of the interview.

Storm doors/windows and insulation added--Storm windows include windows which were completely replaced with windows made of double or triple glass and windows which were purchased but not yet installed. Insulation includes foam, weather stripping, and caulking. Plastic taped over windows in the winter, but removed in the summer, is excluded.

**Units Added to the Rental Stock
1979-1980**

Former Category	Number of Units	As Percent of Former Category
Owner-Occupied		
Single Family	1,163,000	2%
Owned in 2+ Unit		
Buildings	340,000	10%
Vacant Off Market	752,000	16%
Split From Other Units, Type Unknown	60,000	
From Outside Housing Stock	393,000	
New Construction	<u>308,000</u>	
Total, Known Sources	3,015,000	
Unknown Sources	<u>279,000</u>	
	3,294,000	
Losses of All Kinds	3,113,000	
Total 1980 Rental Stock	29,940,000	
Total 1979 Rental Stock	29,759,000	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0117	KITCHEN	74S-93S 73N-93N	73N-93N Complete Kitchen Facilities 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u> 1 Complete Kitchen Facilities Present 2 Yes, Exclusive Use 3 2 Yes, Shared 9 9 No Complete Kitchen Facilities Not Applicable	3	3	G	G
<p>Note: Starting in 1984, the variable was computed using respondents' answers to specific items included in the definition of a complete kitchen.</p> <p>Note: The 1989 tape and report numbers are different due to the definition.</p>							
0118	KITCHC	78N-81N	Change in Kitchen Facilities Since Last Survey 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>81N</u> 3			
0119	PHONE	74N-93N 74S-93S	Use of Telephone 1 Yes 2 No 9 Not Applicable	<u>83N</u> 9	<u>83S</u> 9	<u>84S</u> C1	<u>85N</u> C1
0120	SINK	85N-93N 84S-93S	Kitchen Sink Present For This Household's Use Only 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 4	<u>85N</u> 4
0121	REFR	85N-93N	Unit Has Refrigerator For This Hhld's Use Only			<u>84S</u> 6	<u>85N</u> 6
0122	DISPL	84S-93S	Unit Has Sink Disposal For This Hhld's Use Only			6	6
0123	COOK		Unit Has Cookstove Or Range With Oven			6	6
0124	OVEN		Unit Has An Oven For This Hhld's Use Only			6	6
0125	BURNER		Unit Has Cooking Burners For This Hhld's Use Only			6	6
0126	DISH		Unit Has A Dishwasher For This Hhld's Use Only			6	6
0127	WASH		Unit Has A Washing Machine For This Hhld's Only			7	7
0128	DRY		Unit Has A Clothes Dryer For This Hhld's Use Only Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable			7	7
0129	REFR5	85N-93N	Newest Refrigerator Is Over 5 Years Old			<u>84S</u> 6	<u>85N</u> 6
0130	DISP5	84S-93S	Garbage Disposal In Sink Is Over 5 Years Old			6	6
0131	COOK5		Newest Oven/Cooking Burners Over 5 Years Old			6	6
0132	DISH5		Dishwasher Is Over 5 Years Old			6	6
0133	WASH5		Washing Machine Is Over 5 Years Old			7	7
0134	DRY5		Clothes Dryer Is Over 5 Years Old Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Appliance Not Present or Non-Interview			7	7

Notes: G = Variable is computer generated, and is not present on the questionnaire.
 ++ = Variable is present on a supplemental page to the questionnaire.
 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0135	APPOK	74N-78N 75S-81S	Sink, Refrigerator, Range All Usable 74N-77N 78N <u>75S-81S</u>	<u>78N</u> 34	<u>81S</u> 14		
			1 1 Yes 2 2 No 3 No Complete Kitchen Facilities 8 8 Not Answered 9 9 Not Applicable				
0136	APPBAD	74N-76N 75S-77S	Sink, Refrigerator, Range Not In Usable Condition 3 Range Only 20 Refrigerator Only 23 Refrigerator and Range 100 Sink Only 103 Sink and Range 120 Sink and Refrigerator 123 Sink, Refrigerator, and Range 998 Not Answered 999 Not Applicable	<u>76N</u> 13	<u>77S</u> 13		
0137	PLUMB	73N-93N 74S-93S	Complete Plumbing Facilities 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u>	<u>83N</u> 4	<u>83S</u> 4	<u>84S</u> G	<u>85N</u> G
			1 1 Yes, Exclusive Use 2 Yes, Shared 2 Lack One Or Two Items 3 Lack All Three Items 9 9 Not Applicable				
			Note: In 1978N to 1981N, this question was asked only if the unit was a non-interview or not in the sample in previous year; otherwise, the previous year's code is preserved here. Starting in 1984, the variable was computed using respondents' answers to specific items included in the definition of complete plumbing facilities.				
0138	TUB	85N-93N	Unit Has A Bathtub Or Shower For This Hhld Only			<u>84S</u> 4	<u>85N</u> 4
0139	TOILET	84S-93S	Hhld Has A Flush Toilet For This Hhld's Use Only Standard Codes For All Variables Are: 1 Yes 2 No 8 Not answered 9 At Least One Full Bath Or Non-Interview			4	4
0140	WATER	73N-93N 74S-93S	Water Source 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u>	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> 5	<u>85N</u> 5
			1 1 Public Or Private System 2 2 Individual Well 3 Spring 4 Cistern 5 Stream Or Lake 6 Bottled Water 3 7 Other Source 9 9 Not Applicable				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0141	WATERC	78N-81N	Change In Water Source Since Last Survey 1 Yes 2 No 3 Not Sure 9 Not Applicable	<u>81N</u> 3			
0142	WELL	74N-77N 83N-93N 75S-81S 84S-93S	Well Drilled or Dug 1 Drilled 2 Dug 8 Not Answered 9 Not Applicable	<u>83N</u> 3	<u>81S</u> 3	<u>84S</u> 5	<u>85N</u> 5
0143	WELDUS	85N-89N 84S-93S	How Many Units Well Serves <u>91N-93N</u> 1 1 Only This House/Apartment 2 2 Two To Five Units 3 3 Six Or More Units 8 Not Answered 9 Water For Home Not From Well Or Non-Interview 3 Six to Nine Units 4 Ten to Fourteen Units 5 Fifteen or More Units			<u>84S</u> 5	<u>85N</u> 5
0144	WPIPED	74N-78N 81N 83N 75S-81S	Piped Water In Building 1 Yes 2 No 9 Not Applicable	<u>83N</u> 46	<u>83S</u> 29		
0145	HOTPIP	77N-79N 85N-93N 84S-93S	Hot And Cold Piped Water 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>79N</u> 35		<u>84S</u> 5	<u>85N</u> 5
Note: Prior to 1984, the question specified "hot" piped water only.							
0146	WNEAR	74N-77N 83N 75S-81S	Water Available Within 1/4 Mile 74N-77N 83N <u>75S-79S</u> <u>80S-81S</u> 1 1 Yes 2 2 No 8 Not Answered 9 9 Not Applicable	<u>83N</u> 46	<u>81S</u> 14		
0147	PUBSEW	73N-77N 85N-93N 74S-81S 84S-93S	House/Building Connected to Public Sewer 1 Yes 2 No 9 Not Applicable	<u>77N</u> 5	<u>81S</u> 5	<u>84S</u> 6	<u>85N</u> 6
0148	SEWDIS	73N-93N 74S-93S	Means of Sewage Disposal 73N-77N 78N-83N 85N-93N <u>74S-81S</u> <u>82S-83S</u> <u>84S-93S</u> 1 1 Public Sewer 2 2 Septic Tank/Ceaspool 3 3 Chemical Toilet 4 4 Privy (or Outhouse) 5 5 Facilities In Other Structure 6 6 Other Sewage/Toilet Facilities 9 9 Not Applicable 5 None	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> 6	<u>85N</u> 6

Notes: G = Variable is computer generated, and is not present on the questionnaire.
 ++ = Variable is present on a supplemental page to the questionnaire.
 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEY	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>84S</u>	<u>85N</u>		
0149	SEWDUS	85N-93N 84S-93S	Number of Homes Connected To Septic Tank/Cesspool 1 One 2 Two To Five 3 Six Or More 8 Not Answered 9 Non-Interview	<u>6</u>	<u>6</u>		
0150	SEWDSC	78N-81N	Change In Means Of Sewage Disposal Since Last Survey 1 Yes 2 No 3 Not Sure 8 Not Answered 9 Not Applicable	<u>81N</u> 4			
0151	AIR	73N-93N 74S-93S	Room Air Conditioners Present 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u> 1 1 Some Type Of Air Conditioning Present Room Air Conditioners Present 2 2 No Air Conditioning No Room Air Conditioners Present 8 8 Not Answered 9 9 Not Applicable	<u>83N</u> 11	<u>83S</u> 11	<u>84S</u> 7	<u>85N</u> 7
<p>Note: In 73N-83N and 74S-83S, the question does not specify room air conditioners. There is a separate variable for room air conditioners.</p>							
0152	AIRSYS	73N-93N 74S-93S	Central Air Conditioning Present 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u> 1 1 Central AC Present 2 2 Central AC Not Present Room AC Present 8 8 Not Answered 9 9 Not Applicable	<u>83N</u> 11	<u>83S</u> 11	<u>84S</u> 7	<u>85N</u> 7
<p>Note: In 73N-83N and 74S-83S, the question refers to type of air conditioning rather than specifying whether central air conditioning is present.</p>							
0153	NUMAIR	73N-93N 74S-93S	Number Of Room Air Conditioners 1 1 Unit 2 2 Units 3 3 Units 4 4 Units 5 5 Units 6 6 Units 7 7 Units 8 8 Or More Units 9 Not Applicable	<u>83N</u> 11	<u>83S</u> 11	<u>84S</u> 7	<u>85N</u> 7

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0154	RARUNT	80N	1 Room Air Conditioner Used To Reduce Use Of Central AC	<u>80N</u>			
0155	RAAWNS		2 Awnings Used To Reduce Use Of Central AC	34			
0156	RADEMD		3 Dehumidifier Used To Reduce Use Of Central AC	34			
0157	RACFAN		4 Ceiling Fan Used To Reduce Use Of Central AC	34			
0158	RAATFN		5 Attic Fan Used To Reduce Use Of Central AC	34			
0159	RAWNFN		6 Window Fan Used To Reduce Use Of Central AC	34			
0160	RAPOFN		7 Portable Fan Used To Reduce Use Of Central AC	34			
<p>The Codes Unique To Each Variable Are Shown Above; Standard Codes For All Variables Are:</p> <p>0 The Item Was Not Used To Reduce Use Of Central AC 9 Not Answered Or Not Applicable</p> <p>Note: To Distinguish Between Not Answered And Not Applicable, Use RANONE.</p>							
0161	RANONE	80N	Nothing Reduced Use Of Central Air Conditioning	<u>80N</u>			
			0 Something Used To Reduce Use Of Central AC	34			
			8 Nothing Used To Reduce Use Of Central AC, Or Not Answered				
			9 Not Applicable				
<p>Note: To distinguish between "nothing used" and "not answered" use one of the previous 7 variables.</p>							
0162	HEQUIP	73N-93N 74S-93S	Main Type Of Heating Equipment Used	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
			73N-76N 77N-81N 85N-93N	5	5	8	8
			83N				
			<u>74S-75S</u> <u>76S-83S</u> <u>84S-93S</u>				
			1 1 1 Central Warm Air Furnace				
			2 Heat Pump				
			3 Electric Heat Pump				
			2 3 2 Steam Or Hot Water/Hot Air				
			3 4 Built-In Electric Units				
			4 Other Built-In Electric Units				
			4 5 Floor, Wall Or Pipeless Furnace				
			5 Built-In Hot Air Heater w/o Ducts				
			5 6 6 Room Heater With Vent Or Flue				
			Burning Gas, Oil, Or Kerosene				
			6 7 7 Room Heater Without Vent Or Flue				
			Burning Gas, Oil, Or Kerosene				
			7 8 Fireplace, Stove, Or Space Heater				
			8 Portable Electric Heaters				
			9 Stove(s)				
			10 Fireplaces With Inserts				
			11 Fireplaces Without Inserts				
			12 Other Heating Equipment				
			8 9 13 No Heating Equipment				
			9 99 99 Non-Interview				
0163	HADDL	73N-83N 74S-83S	Used Additional Heating Equipment Past Winter	<u>83N</u>	<u>83S</u>		
			1 Yes	46	28		
			2 No				
			8 Not Answered				
			9 Not Applicable				

Notes: G = Variable is computer generated, and is not present on the questionnaire.
 ++ = Variable is present on a supplemental page to the questionnaire.
 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEY	DESCRIPTION	PAGE ON QUESTIONNAIRE		
				81S	84S	85N
			Supplemental Heating Equipment			
0164	SAFUR	84N-93N	Suppl Heat-Central Warm Air Furn W/Ducts	42	8	8
0165	SHPMP	80S-81S	Suppl Heat From Heat Pump	42	8	8
0166	SSTEAM	84S-93S	Suppl Heat From Steam/Hot Water System	42	8	8
0167	SELECT		Suppl Heat From Electric Units	42	8	8
0168	SPLF		Suppl Heat From Floor/Wall/Pipeless Furn	42	8	8
0169	SFLIN		Suppl Heat From Vented Room Heater(s)	42	8	8
0170	SFLOT		Suppl Heat From Unvented Room Heater(s)	42	8	8
0171	SFRPL		Suppl Heat From Fireplace Without Inserts	42	8	8
0172	SSTOVE		Suppl Heat From Stoves	42	8	8
0173	SPORTH		Suppl Heat From Portable Room Heaters	42	8	8
0174	SHOTH		Suppl Heat From Other Source(s)	42	8	8
			Standard Codes for All Variables Are:			
			0 No Supplemental Heating Equipment Of The Type Specified			
			1 Supplemental Heating Equipment Of The Type Specified			
			9 Not Applicable			
			Note: These variables have been recoded in 1980S so that they conform to coding conventions used in 1981S. Also not that in 1980-81S, SFRPL does not distinguish between fireplaces with inserts and fireplaces without. Starting in 1984, two variables are available to distinguish between the two types of fireplaces (see SFRPLI below).			
				<u>81S</u>	<u>84S</u>	<u>85N</u>
0175	SNONE	84N-93N 80S-81S 84S-93S	No Supplemental Heating Equipment	42	8	8
			0 Some Supple Heat Equip Specified Above			
			1 No Supplemental Heating Equipment			
			9 Not Applicable			
					<u>84S</u>	<u>85N</u>
0176	SFRPLI	84N-93N 84S-93S	Suppl Heat From Fireplace With Inserts		8	8
			0 No Equipment Of The Type Indicated Above			
			1 Supplemental Equipment Of The Type Specified Above			
			9 Not Applicable			
				<u>80N</u>		
0177	FRPL	80N	House/Apartment Has Fireplace Or Heating Stove	33		
			1 Yes			
			2 No			
			8 Not Answered			
			9 Not Applicable			
				<u>80N</u>	<u>84S</u>	<u>85N</u>
0178	FPLWK	80N 85N-93N 84S-93S	Fireplace In Working Order	33	8	8
			1 Yes			
			2 No			
			8 Not Answered			
			9 Not Applicable			

Note: In 1980N, the question includes heating stoves.

REF#	NAME	SURVEY	DESCRIPTION	PAGE ON QUESTIONNAIRE
			Number Of Days This Type Suppl Heat Equip Used Last Winter	<u>81S</u>
0179	NAFUR	80S-81S	Number Of Days Warm Air Furnace Used	43
0180	NEPMP		Number Of Days Heat Pump Used	43
0181	NSTEAM		Number Of Days Steam Or Hot Water Used	43
0182	NELECT		Number Of Days Electric Heat Used	43
0183	NPLF		Number Of Days Pipeless Furnace Used	43
0184	NFLIN		Number Of Days Vented Room Heater Used	43
0185	NFLOT		Number Of Days Unvented Room Heater Used	43
0186	NFRPL		Number Of Days Fireplace Used	43
0187	NSTOVE		Number Of Days Stove(s) Used	43
0188	NPORTH		Number Of Days Portable Room Heater Used	43
0189	NHOTH		Number Of Days Other Heat Source Used	43
			For All Variables, Standard Values Are:	
			1 Less Than 10 Days	
			2 10-30 Days	
			3 31-60 Days	
			4 61-90 Days	
			5 Greater Than 90 Days	
			6 Not Used	
			8 Not Answered	
			9 Not Applicable	
				<u>79N</u>
0190	SUPHEQ	78N-79N	Supplemental Heating Equip Acquired In Past 12 Mos	35
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
				<u>80N</u>
0191	HA01SL	78N-80N	1 Solar Heating Equipment Acquired In Last 12 Months	33
0192	HA022S		2 Wood Or Coal Burning Stove Acquired In Last 12 Months	33
0193	HA03FP		3 Wood Or Coal Burning Fireplace Acq. In Last 12 Months	33
0194	HA04EH		4 Portable Electric Heater Acquired In Last 12 Months	33
0195	HA05UV		5 Room Heater w/o Flue/Vent Burning Gas/Oil/Kerosene Acquired In Last 12 Months	33
0196	HA06OT		6 Other Type Of Supplemental Heating Equipment Acquired In Last 12 Months	33
0197	HA07NO		7 No Suppl Heating Equipment Acquired In Last 12 Months	33
			Standard Codes For All Variables Are:	
			0 No Supplemental Heating Equipment of the Specified Type Acquired In Past 12 Months	
			8 Not Answered	
			9 Not Applicable	
			Note: HA07NO exists only in 80N, not present in 78N-79N.	
				<u>79N</u>
0198	FURAGE	77N-79N	Age of Furnace	37
			1 0-3 Years	
			2 4-10 Years	
			3 11-20 Years	
			4 21-40 Years	
			5 41 Or More Years	
			6 Don't Know	
			8 Not Answered	
			9 Not Applicable	

Notes: G = Variable is computer generated, and is not present on the questionnaire.
 ++ = Variable is present on a supplemental page to the questionnaire.
 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0199	FURMAN	77N-79N	Maintenance Done On Furnace	<u>79N</u>	
0200	CONFUR		Maintenance Contract on Furnace	37	
0201	THERM		Thermostat in Living Quarters	36	
0202	THERMC		Thermostat is Clock Operated	36	
0203	THERMS		Ever Change Setting of Thermostat	36	
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
0204	NEWMEQ	85N-93N 84S-93S	Major Equipment Replaced Or Added In Last 2 Years	<u>84S</u>	<u>85N</u>
			1 Yes, Not Known By Whom	15	16
			2 No, Not Added Or Replaced		
			3 Yes, Installed By Hhld Member		
			4 Not Installed by Hhld Member		
			8 Not Answered		
			9 Not Applicable		
0205	CSTMEQ	85N-93N 84S-93S	Cost Of Major Equipment Replaced/Added In Last 2 Years	<u>84S</u>	<u>85N</u>
			0-9996 \$0-\$9996.00	15	16
			9998 Not Answered		
			9999 Not Applicable		
0206	THERMY	77N-79N	How Often Change Thermostat	<u>79N</u>	
			1 Occasionally	36	
			2 Regularly		
			3 Don't Know		
			8 Not Answered		
			9 Not Applicable		
0207	STORMW	74N-80N	Storm Windows/Other Window Protection Present	<u>80N</u>	<u>81S</u>
0208	STORMD	75S-81S	Storm Doors Present	35	12
			1 Yes, All		
			2 Yes, Some		
			3 No		
			8 Not Answered		
			9 Not Applicable		
0209	NEWSDW	85N-93N 84S-93S	New Storm Windows/Doors Bought/Installed-Last 2 Years	<u>84S</u>	<u>85N</u>
			1 Yes, Installed, Not Known By Whom	15	16
			2 No, Not Bought/Installed		
			3 Yes, Installed By Hhld Member		
			4 Yes, Installed, Not By Hhld Member		
			8 Not Answered		
			9 Not Applicable		
0210	CSTSDW	85N-93N 84S-93S	Cost Of New Storm Windows/Doors--Last Two Years	<u>84S</u>	<u>85N</u>
			0-9997 \$0-9997.00	15	16
			9998 Not Answered		
			9999 Not Applicable		
0211	NEWSW	75N	Storm Windows Installed In Last 12 Months	<u>80N</u>	
0212	NEWSD	77N-80N	Storm Doors Installed In Last 12 Months	35	
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
0213	NEWC	80N	Protective Window Coverings Installed In Past 12 Months	<u>80N</u>	
			1 Yes	35	
			2 No		
			8 Not Answered		
			9 Not Applicable		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE		
0214	NEWSHUT	80N	Closable Shutters On Windows Installed In Past 12 Months	35		
			1 Yes			
			2 No			
			3 Don't Know			
			8 Not Answered			
			9 Not Applicable			
0215	INSUL	74N-80N 75S-81S	Attic Or Roof Insulation Present	35	81S 12	
			1 Yes			
			2 No			
			3 Don't Know			
			8 Not Answered			
			9 Not Applicable			
0216	NEWIN	75N 77N-80N 85N-93N 84S-93S	Insulation Added Recently	35	84S 15	85N 16
			75N 85N-93N			
			<u>77N-80N</u> <u>84S-93S</u>			
			1 Added In Last 12 Months			
			4 Added In Last 2 Years, Not Known By Whom			
			2 Not Added			
			3 Added In Last 2 Years, By Household Member			
			4 Added in Last 2 Years, Not by Household Member			
			8 Not Answered			
			9 Not Applicable			
0217	NEWWIN	74N	Wall Insulation Installed In Last 12 Months	35		
0218	NEWAIN	77N-80N	Attic Insulation Added In Last 12 Months	35		
			1 Yes			
			2 No			
			8 Not Answered			
			9 Not Applicable			
0219	AMTAIN	75N 77N-79N	Amount Of Attic Insulation Added In Past 12 Months	79N 36		
			1 Less Than 3 Inches			
			2 3-6 Inches			
			3 6 Inches Or More			
			4 Don't Know			
			8 Not Answered			
			9 Not Applicable			
0220	NEWINW	80N	Insulation For Hot Water Equip Installed In Past 12 Months	35		
0221	INSFL		Insulation For Floors/Crawl Spaces Added In Past 12 Months	35		
			1 Yes			
			2 No			
			8 Not Answered			
			9 Not Applicable			
0222	NEWWTH	75N 77N-80N	Weatherstripping Installed In Last 12 Months	80N 35		
			75N 77N-79N			
			<u>80N</u>			
			1 Yes			
			2 No			
			3 Don't Know			
			8 Not Answered			
			9 Not Applicable			

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE		
				<u>80N</u>	<u>84S</u>	<u>85N</u>
0223	NEWICST	75N 77N-80N 85N-93N 84S-93S	Cost Of Insulation Added In Last Two Years 75N 80N 85N-93N <u>77N-79N</u> — <u>84S-93S</u> 0-9997 \$0-\$9997	35	15	16
			1 \$1-\$49			
			1 \$1-\$99			
			2 \$50-\$99			
			2 \$100-\$199			
			3 \$100-\$249			
			3 \$200-\$399			
			4 \$250-\$499			
			4 \$400 Or More			
			5 \$500-\$999			
			6 \$1,000 Or More			
			5 7 Don't Know			
			6 8 No Charge Or None			
			8 98 9998 Not Answered			
			9 99 9999 Not Applicable			

Note: In 75N, and 77N-80N, the question is asked about the last 12 months.

UNIT QUALITY

Data in these sections include a measure of overall quality of the unit, residents' satisfaction with the unit, deficiencies outside and inside the unit (e.g., leaks, holes, cracks, blown fuses, equipment breakdowns) and in the common halls (such as non-working light fixtures or loose railings), and the cost of routine maintenance to the unit. The costs of routined maintenance are included to compute the "monthly housing costs" summary variable for owners (see Housing Costs section).

Housing Adequacy--A summary measure of housing quality is provided in the AHS files starting in 1984. The criteria used to create this three-scale index are presented in detail at the end of this section, following the definitions. Programming commands are also provided to assist users in recreating the measure for earlier years.

Satisfaction with House/Apartment--Respondents are asked to rate their house/apartment as a place to live. The rating systems changed starting in 1984. The fourscale rating system in earlier years was changed to a ten-scale rating system, in which ten is most satisfied and one is least satisfied.

Costs of Routine Maintenance--Routine maintenance consists of regular maintenance activities necessary for the preventive care of the structure, property and installed equipment. Repairs include painting, papering, floor sanding, restoration of some shingles, fixing water pipes, repairing the furnace, water heater, fences, gutters and decks, removal of trees, termite inspection, etc. The cost amounts include the cost of all activities performed in the last 12 months. The variable is available for all owner occupied units from 1984 on.

Common stairways--Data for common stairways are collected for housing units in structures of two or more units with common stairways. The data 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 or guests to get to the door of the unit. They may be inside or outside of the building. Starting in 1984, the condition of stairways is reported for all units.

Outside structural conditions--These data are provided by observation. A sagging roof is reported if it is substantial and can be seen without climbing on the roof. Missing roof materials include rotted, broken or missing shingles, tiles, slates, etc. caused by extensive damage from fire, storm, or serious neglect. Holes are reported if missing materials expose the inside of the unit to the elements. Missing materials on the walls and chimney do not have to expose the inside of the unit to the elements to be reported. The defects may have been caused by fire, storm, flood, neglect, or vandalism. Boarded-up windows include both windows and doors which are covered by board, brick, metal or other material. Broken windows are reported if several panes are missing or broken. Foundation defects include large cracks, holes, and rotted, loose or missing material. None of the above defects are reported if the conditions are due to construction activities, unless it is obvious that the work has been abandoned.

Signs of basement water leakage--Signs of basement water leakage are recorded. Water leakage is present if 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 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 basement leakage. Starting in 1984, the item is available if the respondent reported a water leakage in the last 12 months.

Leaking roof--Units with "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 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 is classified as having no basement leakage. Starting in 1984, this item is available if the respondent reported that water did leak from the outside in the last 12 months.

Other Leakages--Starting in 1984, data are available on water leakages through the walls and around the windows as well as leakages caused by faulty water pipes, plumbing backups or other causes. Leakages through broken or deteriorated windows are counted, while water leakages which came in through an open window are excluded. Leakages which came in through an open window are excluded. Leakages are reported if they occurred in the last 12 months.

Inside walls and ceilings--Data are collected on whether there are open cracks or holes and broken plaster or peeling paint on the inside walls or ceilings 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, 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 larger than 8 inches by 11 inches.

Inside floors--Data are collected on whether there are holes in the inside 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.

Flush toilet, water supply, public sewage disposal and heating equipment break down--Plumbing breakdowns are reported if they lasted six or more consecutive hours, whether the problem was created by faulty equipment or by an interruption of the power supply. Heating equipment breakdowns, however, are not counted if they resulted from an interruption of the power supply or lack of fuel. The number of plumbing breakdowns refer to the three months before the interview unless the respondent has been in the unit for less than three months. Data on breakdowns or failures of flush toilets, water supply, sewage disposal and heating equipment were collected only if the housing unit had been occupied by the reference person of the household at least three months before the interview. Starting in 1984, the data are collected for all units and the questions are reworded as "Since you have lived here." For breakdowns or failures of heating equipment, data are collected only if the unit had been occupied by the reference person during the winter before the

interview. To qualify as having lived here "last winter", the reference person must have moved into the unit before the previous February.

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 located in living areas only. 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.

Programming Commands for Measures of Inadequacy

A wide body of literature exists on the definition and measurement of housing quality. Quality measures have included measures of inadequacy, minimal criteria of physical adequacy, overcrowding, excessive housing cost burden, and levels of housing amenities. Aggregations, summary ratings, hedonic indices and other econometric techniques have been used to derive indications of quality. The AHS survey includes many questions related to housing deficiencies (lack of heat, breakdowns, leaks, holes, etc.) and relatively fewer questions on better than average houses.

A three level index of physical problems is shown below:

- 1 = adequate
- 2 = moderately inadequate
- 3 = seriously inadequate

Starting with the 1984 survey, it is coded in the variable ZADEQ and will be in the AHS Publications. It uses variables which were present consistently in past AHS surveys, so that the index can be completed for comparisons across time. Definitions are provided following the Programming Commands.

The index can be programmed by the commands shown on the next page. These commands should be adapted to the particular computer language or software package you are using. The commands shown in the left hand column apply to most survey years. However, because of changes in the phrasing of the questions or modification to the coding of the variables, commands have to be adapted in certain years. These adjustments are shown in the column labelled "Exception."

Definition of Physical Problems1984

- SEVERE. A unit is considered severely deficient if it has any of the following five problems:

Plumbing. Lacking hot piped water or a flush toilet, or lacking both bathtub and shower, all for the exclusive use of the unit.

Heating. Having been uncomfortably cold last winter, for 24 hours or more, because the heating equipment broke down, and it broke down at least three times last winter, for at least six hours each time.

Upkeep. - Having any five of the following six maintenance problems: leaks from outdoors; leaks from indoors; holes in the floor holes; or open cracks in the walls or ceilings; more than a square foot of peeling paint or plaster; or rats in the last ninety days.

Hallways. Having all of the following four problems in public areas: no working light fixtures; loose or missing steps; loose or missing railings; and no elevator.

Electric. Having no electricity, or all of the following three electric problems: exposed wiring; a room with no working wall outlet; and three blown fuses or tripped circuit breakers in the last 90 days.

- MODERATE. A unit is considered moderately deficient if it has any of the following five problems, but none of the severe problems:

Plumbing. Having the toilets all break down at once, at least three times in the last three months for at least six hours each time.

Heating. Having unvented gas, oil, or kerosene heaters as the main source of heat; these give off unsafe fumes.

Upkeep. Having any three of the six upkeep problems mentioned under SEVERE.

Hallways. Having any three of the four Hallways problems mentioned under SEVERE.

Kitchen. Lacking a sink, range, or refrigerator, all for the exclusive use of the unit.

1983

Same

Having the heating equipment break down at least three times last winter, for at least six hours each time.

Having any five of the following six maintenance problems: leaky roof; leaky basement; holes in the floors; holes or open cracks in the walls or ceilings; more than a square foot of peeling paint or plaster; mice or rats in the last ninety days. If the unit has no basement, any four of the remaining five problems would be enough to count the unit as severely deficient.

Having all of the three problems other than the elevator, which is not considered.

Same.

Having only one toilet which broke down at least three times in the last three months, for at least six hours each time.

Same.

Same.

Having any two of the three problems, other than the elevator problem.

Same.

Programming Commands (Most Survey Years)**SEVERE**

ZADEQ = 1

Plumbing If PLUMB = 2 or PLUMB = 3 then ZADEQ = 3

Heating If NUMCOLD \geq 3 and NUMCOLD < 8 then ZADEQ = 3Electric If BUYE = 2 or PAYE = 3 then ZADEQ = 3
If NOWIRE = 2 and PLUGS = 2 and NUMBLOW \geq 3 and
NUMBLOW < 8 then ZADEQ = 3Upkeep N = 0
If RLEAK = 1 then N = N + 1
If BLEAK = 1 then N = N + 1
If HOLES = 1 then N = N + 1
If CRACKS = 1 then N = N + 1
If PAINT = 1 or PLASTER = 1 then N = N + 1

If RATS = 1 then N = N + 1
If N \geq 5 then ZADEQ = 3

If BLEAK = 9 and N = 4 then ZADEQ = 3Hallways M = 0
If LTS = 2 or LTSOK = 4 then M = M + 1
If BADSTEP = 2 then M = M + 1
If RAILOK = 2 or RAILOK = 3 then M = M + 1
If CLIMB > 3 and ELEV = / 2 then M = M + 1
If M = 4 then ZADEQ = 3**MODERATE**

IF ZADEQ NE 3 THEN:

Plumbing If NUMTLT \geq 3 and NUMTLT < 8 then ZADEQ = 2

Heating If HEQUIP = 7 then ZADEQ = 2

Upkeep If N \geq 3 then ZADEQ = 2

Hallways If M = 2 then ZADEQ = 2

Kitchen If KITCHEN = 2 or KITCHEN = 3 then ZADEQ = 2

END

ExceptionsIF BUYE = 1 THEN ZADEQ = 3
(Starting in 1984)IF LEAK = 1 then N = N + 1
IF ILEAK = 1 then N = N + 1
(starting in 1984)IF BIGP = 1 THEN N = N + 1 (In
73N, 74N, 74S, and 75S, and
all years starting in 1984)Starting in 1984, this line
should be deleted.IF LTSOK = 5 or LTSOK = 4 THEN
M = M + 1
IF BADSTEP = 2 THEN M = M + 1
IF RAILOK = 1 or RAILOK = 3THEN M = M + 1
IF CLIMB > 3 and CLIMB < 98
and ELEV NE 2 THEN M = M + 1
(starting in 1984)
If M = 4 then ZADEQ = 3IF HEQUIP = 6 THEN ZADEQ = 2
(In 73N-76N and 74S-75S),If M = 3 THEN ZADEQ = 2
(Starting in 1984)

-
- Starting in 1984, data on water leakages from inside and outside the unit are used rather than roof and basement leaks. In some years, PAINT and PLASTER were combined in one question. More people identify peeling paint and plaster when the questions are asked separately. These changes introduce a discrepancy in the time series.
 - In these earlier years the coding of HEQUIP was different. The change of phrasing is so slight that it probably does not introduce any discrepancy in the time series.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>84S</u>	<u>85N</u>		
0224	ZADEQ	85N-93N 84S-93S	Recoded Adequacy Of Housing 1 Adequate 2 Moderately Inadequate 3 Severely Inadequate 9 Not Applicable	<u>84S</u> G	<u>85N</u> G		
			Note: In 1984S, some coding errors have been found.				
0225	HOWH	74N-93N 74S-93S	Resident's Satisfaction With House As Residence 74N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u> 1 Worst On A Scale Of 1 to 10 2 2 On A Scale Of 1 to 10 3 3 On A Scale Of 1 to 10 4 4 On A Scale Of 1 to 10 5 5 On A Scale Of 1 to 10 6 6 On A Scale Of 1 to 10 7 7 On A Scale Of 1 to 10 8 8 On A Scale Of 1 to 10 9 9 On A Scale Of 1 to 10 10 Best On A Scale Of 1 to 10 1 Excellent 2 Good 3 Fair 4 Poor 8 98 Not Answered 9 99 Not Applicable	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 9	<u>85N</u> 9
0226	ZDEFM	74N-77N	Like To Move Because Of Structural Deficiencies 1 Move Due To 1 Condition 2 Move Due To 2 Conditions 3 Move Due To 3 Conditions 4 Deficiencies Reported, But Would Not Like To Move 5 Wish To Move Not Reported 6 No Structural Deficiencies 8 Not Reported (Not on 74N) 9 Not Applicable	<u>77N</u> G			
			Note: This variable combines data from the following variables: BLEAK, RLEAK, CRACKS, HOLES, PEEL, BIGP, PAINT, PLASTER, and DILAPM below.				
0227	CSTMNT	85N-93N 84S-93S	Amount Spent In Last Year On Routine Maintenance 0 Nothing 1-9997 \$1 To \$9997 9998 Not Answered 9999 Not Applicable	<u>84S</u> 15	<u>85N</u> 16		
0228	BOARD	74N-93N 75S-93S	Unit Boarded Up (Enumerator Observation) 1 Yes 2 No 8 Not Answered 9 Occupied, URE or Non-Interview	<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 42	<u>85N</u> 53
			Note: Prior to 1984, the variable was available for vacant units only.				

Notes: G = Variable is computer generated, and is not present on the questionnaire.
 ++ = Variable is present on a supplemental page to the questionnaire.
 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>84S</u>	<u>85N</u>		
0229	ESAGR	85N-93N	House/Building Has Sagging Roof	42	53		
0230	EMISSR	84S-93S	House/Building Has Missing Roof Materials	42	53		
0231	EHOLER		House/Building Has Hole(s) In Roof	42	53		
0232	ENOR		Could Not Observe Roof of Sample Building	42	53		
0233	EMISSW		House/Building Has Missing Wall Materials/Siding	42	53		
0234	ESLOPW		House/Building Has Sloping Outside Walls	42	53		
0235	EBROKE		House/Building Has Broken Windows	42	53		
0236	EBAR		House/Building Has Bars On Windows	42	53		
0237	ECRUMB		House/Building Has Crumbling Foundation	42	53		
0238	ENOF		Unable To Observe Sample Building Foundation	42	53		
0239	EGOOD		Exterior Observed, But No Listed Conditions Seen	42	53		
0240	ENOB		Unable To Observe Exterior Condition Of Building	42	53		
For All Variables, Standard Codes Are:							
0 No							
1 Yes							
9 Not Applicable							
0241	LTS	73N-83N 74S-83S	Light Fixtures In Building Public Halls	<u>83N</u> 54	<u>83S</u> 40		
1 Yes							
2 No							
3 No Public Halls							
8 Not Answered							
9 Not Applicable							
0242	LTOK	73N-93N 74S-93S	Public Hall Light Fixtures Working	<u>83N</u> 54	<u>83S</u> 40	<u>84S</u> 42	<u>85N</u> 53
73N-83N 85N-93N							
<u>74S-83S</u> <u>84S-93S</u>							
1 No Public Halls							
2 All Work							
3 Some Work							
4 None Work							
5 No Light Fixtures							
6 Unable To Determine							
8 Not Answered							
9 Not Applicable							
0243	BADSTEP	73N-93N 74S-93S	Hazardous Steps On Common Stairways	<u>83N</u> 54	<u>83S</u> 40	<u>84S</u> 42	<u>85N</u> 53
73N-83N 85N-93N							
<u>74S-83S</u> <u>84S-93S</u>							
1 2 Yes							
2 3 No							
3 1 No Common Stairs							
8 8 Not Answered							
9 9 Not Applicable							
0244	RAILOK	73N-93N 74S-93S	Firmly Attached Stair Railings	<u>83N</u> 54	<u>83S</u> 40	<u>84S</u> 42	<u>85N</u> 53
73N-83N 85N-93N							
<u>74S-83S</u> <u>84S-93S</u>							
1 2 Yes							
2 3 No							
3 1 No Stair Rails							
8 8 Not Answered							
9 9 Not Applicable							

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0245	LEAK	85N-93N	Water Leaked Into Home From Outside In Last 12 Months		<u>84S</u>	<u>85N</u>	
0246	I LEAK	84S-93S	Leaks In House From Inside Building In Last 12 Months		5	5	
			1 Yes		5	5	
			2 No				
			8 Not Answered				
			9 Not Applicable				
0247	WLEAK	85N-93N	Leaks Around Walls/Closed Windows/Close Doors		<u>84S</u>	<u>85N</u>	
0248	OTLEAK	84S-93S	Leaks From Other Outside Sources		5	5	
0249	PLEAK		Leaks From Own Plumbing Fixtures (Backup/Overflow)		5	5	
0250	FILEAK		Leaking Pipes (Including Those In Other Apartments)		5	5	
0251	NLEAK		Interior Leaks From Other Or Unknown Sources		5	5	
			Standard Codes For All Variables Above Are:				
			0 No Leaks Of This Description				
			1 This Type Of Leak Present				
			8 Not Answered				
			9 Not Applicable				
0252	BLEAK	73N-78N	Signs Of Basement Leaks	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		83N-93N	73N-78N 85N-93N	48	30	5	5
		74S-81S	83N 85S-93S				
		83S-93S	74S-81S				
			<u>83S</u>				
			2 0 No				
			1 1 Yes				
			3 Don't Know				
			8 8 Not Answered				
			9 9 Not Applicable				
0253	RLEAK	73N-93N	Leaking Roof	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		74S-93S	73N-83N 85N-93N	48	30	5	5
			<u>74S-83S</u> <u>84S-93S</u>				
			2 0 No				
			1 1 Yes				
			3 Don't Know				
			8 8 Not Answered				
			9 9 Not Applicable				
0254	CRACKS	73N-93N	Open Cracks Or Holes In Walls Or Ceiling	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0255	HOLES	74S-93S	Holes In Floor	11	11	9	9
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				
0256	PEEL	73N-74N	Broken Plaster Or Peeling Paint Inside	<u>74N</u>	<u>75S</u>		
		74S-75S	1 Yes	9	12		
			2 No				
			8 Not Answered				
			9 Not Applicable				
0257	BIGP	73N-74N	Broken Plaster Or Peeling Paint Over 1 Square Foot	<u>74N</u>	<u>75S</u>	<u>84S</u>	<u>85N</u>
		85N-93N	1 Yes	9	12	9	9
		74S-75S	2 No				
		84S-93S	8 Not Answered				
			9 Not Applicable				

Notes: G = Variable is computer generated, and is not present on the questionnaire.
 ++ = Variable is present on a supplemental page to the questionnaire.
 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>83N</u>	<u>83S</u>		
0258	PAIN	75N-83N	Any Peeling Paint Over 1 Square Foot	11	11		
0259	PLASTER	76S-83S	Any Broken Plaster Over 1 Square Foot	11	11		
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				
				<u>77N</u>	<u>81S</u>		
0260	DILAPM	74N-77N 75S-81S	Want To Move Because Of Leaks, Cracks, Holes, Broken Plaster, Peeling Paint	19	19		
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0261	IFDRY	73N-93N 74S-93S	Water Source Breakdown Last 90 Days	47	29	5	5
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				
				<u>83N</u>	<u>83S</u>		
0262	BADDRY	73N-78N 81N 83N 74S-81S 83S	Complete Lack Of Running Water For 6 Hours Or More	47	29		
			1 Yes				
			2 No				
			3 Don't Know				
			8 Not Answered				
			9 Not Applicable				
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0263	NUMDRY	73N-93N 74S-93S	Number Of Water Breakdowns For 6 Hours Or More	47	29	5	5
			73N-83N 84S-93S				
			<u>74S-83S</u> <u>85N-93N</u>				
			0 None Lasted 6 Hours				
			1-7 1-7 Water Breakdowns \geq 6 Hours				
			1 1				
			2 2				
			3 3 Or More				
			8 8 Not Answered				
			9 9 Not Applicable				
				<u>83N</u>	<u>83S</u>		
0264	WHYDRY	73N-78N	Primary Reason For Water Breakdown	47	29		
		81N	1 Problem In Building				
		83N	2 Problem Not In Building				
		74S-81S	8 Not Answered				
		83S	9 Not Applicable				
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0265	IFILT	73N-93N 74S-93S	Flush Toilet Breakdown Last 90 Days	47	29	4	4
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				
				<u>83N</u>	<u>83S</u>		
0266	BADILT	73N-78N 81N 83N 74S-81S 83S	Flush Toilet Breakdown Of 6 Hours Or More	47	29		
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				

Note: Codes of '3' have been detected on original 1973 National Survey tape. Suppressed if more than one toilet in unit 73-83.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0267	NUMTLT	73N-93N 74S-93S	Number Of Flush Toilet Breakdowns Of 6 Hours Or More 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u> 0 None Lasted 6 Hours 1-7 1-7 Toilet Breakdowns \geq 6 Hours 1 1 2 2 3 3 4 4 Or More 8 8 Not Answered 9 9 Not Applicable	<u>47</u>	<u>29</u>	<u>4</u>	<u>4</u>
0268	WHYTLT	73N-78N 81N 83N 74S-81S 83S	Water Source Breakdown In Last 90 Days 1 Problem In Building 2 Problem Not In Building 8 Not Answered 9 Not Applicable	<u>47</u>	<u>29</u>		
0269	IFSEW	73N-93N 74S-93S	Sewage System Breakdown In Last 90 Days 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>48</u>	<u>30</u>	<u>6</u>	<u>6</u>
0270	BADSEW	73N-78N 81N 83N 74S-81S 83S	Sewage System Breakdown Of 6 Hours Or More 1 Yes 2 No 3 Not Sure 8 Not Answered 9 Not Applicable	<u>83N</u>	<u>83S</u> 48		30
0271	NUMSEW	73N-93N 74S-93S	Number Of Sewage System Breakdowns 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u> 0 None Lasted 6 Hours 1-7 1-7 Sewer Breakdowns \geq 6 Hours 1 1 2 2 3 3 Or More 8 8 Not Answered 9 9 Not Applicable	<u>48</u>	<u>30</u>	<u>6</u>	<u>6</u>
0272	PLUGS	73N-93N 74S-93S	Working Electric Wall Outlets In Every Room 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>7</u>	<u>7</u>	<u>5</u>	<u>5</u>
0273	NOWIRE	73N-93N 74S-93S	Wiring In House Concealed 1 Yes 2 No 3 No Electrical Wiring 8 Not Answered 9 Not Applicable	<u>7</u>	<u>7</u>	<u>5</u>	<u>5</u>
0274	IFBLOW	73N-93N 74S-93S	Blew Fuses Or Breakers In Last 90 Days 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>47</u>	<u>29</u>	<u>5</u>	<u>5</u>

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0275	NUMBLOW	73N-93N 74S-93S	No. Of Times Blew Fuses Or Breakers In Last 90 Days 73N-83N 84N-93N <u>74S-83S</u> <u>84S-93S</u>	<u>83N</u> 47	<u>83S</u> 29	<u>84S</u> 5	<u>85N</u> 5
			1 1 1 2 2 2 3 3-7 3 To 7 Or More 3 3 Or More 8 8 Not Answered 9 9 Not Applicable				
0276	FREEZE	79N-93N 82S-93S	House Too Cold 24+ Hours 79N-83N 85N-93N <u>82S-83S</u> <u>84S-93S</u>	<u>83N</u> 46	<u>83S</u> 28	<u>84S</u> 9	<u>85N</u> 9
			1 1 Yes 2 2 No 3 Did Not Live Here Last Winter 8 8 Not Answered 9 9 Not Applicable				
0277	IFCOLD	73N-78N 81N-93N 74S-93S	Heat Breakdowns Last Winter 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 9	<u>85N</u> 9
			Note: Through 83 breakdowns are counted only if they lasted 6 or more hours. From 84 on they count if they made the house uncomfortably cold for 24 or more hours.				
0278	NUMCOLD	73N-78N 81N-93N 74S-93S	No. Of Heat Breakdowns Last Winter Lasting 6+ Hours 73N-78N 85N-93N 81N,83N <u>74S-83S</u> <u>84S-93S</u>	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 9	<u>85N</u> 9
			0 No Breakdowns Lasting 6+ Hours 1 1 Breakdown 2 2 Breakdowns 3-7 3 to 7 or More Breakdowns 3 3 Breakdowns 4 4 or More Breakdowns 8 8 Not Answered 9 9 Not Applicable				
0279	OTHCOLD	85N-93N 84S-93S	House/Apartment Uncomfortably Cold for Other Reason 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 9	<u>85N</u> 9
0280	WHYCLD	85N-93N 84S-93S	Reason Why House/Apartment Uncomfortably Cold 85N-93N <u>85S-93S</u> <u>84S</u>			<u>84S</u> 9	<u>85N</u> 9
			1 1 Utility Interruption 2 2 Inadequate Heating Capacity 3 Inadequate Insulation 7 3 Other Reason 8 8 Not Answered 9 9 Not Applicable				

Notes: G = Variable is computer generated, and is not present on the questionnaire.
 ++ = Variable is present on a supplemental page to the questionnaire.
 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEYS	DESCRIPTION		PAGE ON QUESTIONNAIRE
0281	IFCLSD	73N-78N 81N 83N 74S-83S	Any Rooms Closed For Warmth Last Winter 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 18	<u>83S</u> 30
0282	NUMCLSD	73N-78N 81N 83N 74S-83S	Number And Which Rooms Closed For Warmth 4 Only Rooms Other Than Bedrm, Living, Dining 30 Bedrooms 34 Bedrooms And Other Rooms 200 Dining 204 Dining, Other 230 Dining, Bedrooms 234 Dining, Bedrooms, And Other Rooms 1000 Living 1004 Living, And Other Rooms 1030 Living, Bedrooms 1034 Living, Bedrooms, Other 1200 Living, Dining 1204 Living, Dining, Other 1230 Living, Dining, Bedrooms 1234 Living, Dining, Bedrooms, And Other Rooms 9998 Not Answered 9999 Not Applicable	<u>83N</u> 48	<u>83S</u> 30
0283	IFND	73N 74S	Any Rooms Without Hot Air Ducts 1 Yes 2 No 8 Not Answered 9 Out Of Universe	<u>73N</u> 18	<u>74S</u> 18
0284	NUMND	73N-83N 74S-83S	Number Of Rooms Without Hot Air Ducts 73N 74N-81N 83N 74S 75S-83S 1 None 2 One Room 3 Two Rooms 4 Three or More Rooms 8 Not Answered 9 Not Applicable	<u>83N</u> 7	<u>83S</u> 7
0285	TRASH	73N-77N 74S-81S	Garbage Collection Service For Unit 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>77N</u> 18	<u>81S</u> 18
Note: 1974 Census Documentation Shows 4 = Not Answered					
0286	FTRASH	73N-77N 74S-81S	Frequency of Garbage Pickup 1 Less Than Once A Week 2 Once A Week 3 Twice a Week 4 3 or More Times a Week 5 Don't Know 8 Not Answered 9 Not Applicable	<u>77N</u> 18	<u>81S</u> 18

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>77N</u>	<u>81S</u>		
0287	DISP	73N-77N 74S-81S	Means of Garbage Disposal 1 Incinerator 2 Chute or Compactor 3 Garbage Disposal 4 Carry to be Picked Up 5 Other Means 8 Not Answered 9 Not Applicable Note: No cases with code 4 were found in 1976S and 1977S.	18	18		
0288	RATS	73N-93N 74S-93S	Signs of Rats or Mice in Building in Last 90 Days 1 Yes 2 No 8 Not Answered 9 Not Applicable Note: After 1983, the question refers only to rats.	<u>83N</u> 47	<u>83S</u> 29	<u>84S</u> 9	<u>85N</u> 9
0289	RATMIC	77N-78N 78S-81S	Mice or Rats in House (Building) 1 Mice 2 Rats 3 Mice and Rats 4 Don't Know 8 Not Answered 9 Not Applicable	<u>78N</u> 35	<u>81S</u> 19		
0290	EXTERM	73N-81N 83N 74S-83S	Service by Exterminator 1 Regularly 2 When Needed 3 Irregularly 4 Not At All 8 Not Answered 9 Not Applicable	<u>83N</u> 47	<u>83S</u> 29		

Notes: G = Variable is computer generated, and is not present on the questionnaire.

++ = Variable is present on a supplemental page to the questionnaire.

CC = Variable is present on the control card for the unit.