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# Codebook for the Annual Housing Survey Data Base



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**NOTE:** Readers already familiar with the survey are encouraged to refer to pages iii and xiii of the Introduction to find the main changes in the survey. Page iv shows when each metropolitan area is now surveyed.

CODEBOOK FOR THE  
ANNUAL HOUSING SURVEY  
DATA BASE

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Also greatly appreciated is the cooperation of several staff members of the Census Bureau, in particular the technical assistance of Dennis Schwanz, Richard Kreinsen, and Richard Bartlett.

Illustrations are reprinted from: The Synectics Group, Inc., *Energy Conserving Features Inherent in Older Homes*, prepared for HUD, Office of Policy Development and Research, Division of Building Technology, Washington, DC, August, 1982, and Steve Winter Associates, Inc. *Building Value into Housing 1980 Awards, A Compendium of Winning Submissions Under HUD's 1980 "Building Value into Housing Program,"* November 1980.

The pictures are not grouped by subject and are not necessarily related to the sections where they are printed.

## INTRODUCTION TO THE ANNUAL HOUSING SURVEY

The Annual Housing Survey (AHS) collects data every other year on the Nation's people and homes. Also, the AHS continuously collects data on major metropolitan areas, coming back to each area about once every four years. The Census Bureau conducts these interviews for the U.S. Department of Housing and Urban Development (HUD). Most interviews are face to face, and the rest by telephone.

Until 1981, the AHS collected national data every year, instead of every other year. Also, the survey changed its name in 1984 to the American Housing Survey. Throughout this codebook we continue to use the term Annual Housing Survey.

This Codebook describes the AHS variables for 35 surveys from 1973 to 1993, although data files have not yet been released for all years. Significant changes to the samples, the questionnaires, the geographic boundaries and the coding conventions became necessary over the years. The authors have tried to use a consistent format and highlight changes as appropriate. Suggestions to improve the documentation and to facilitate the use of AHS data are welcome. A User Comment form is provided at the end of this Codebook.

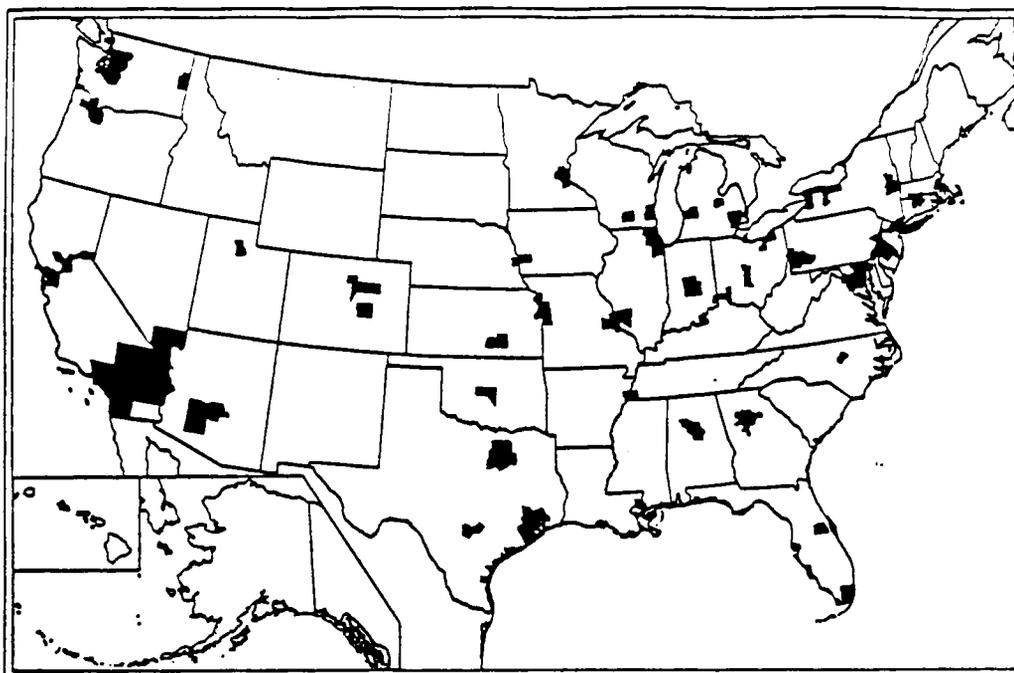
AHS interviews ask about age, sex, income, highrises, houses, mobile homes, vacant homes, etc. Depending on the kind of home, the AHS queries homeowners about repairs and mortgages, recent movers about the home they left and why they moved, workers about their commute. A typical interview has over 500 items, all described in this Codebook. The table of contents shows the range of topics covered.

It is especially interesting that the survey goes back to the same housing units year after year. Therefore, the AHS is ideal for analyzing the flow of households through housing. It is also useful for any studies of people, since it has detailed data on both children and adults, nationally and in most large cities.

The Annual Housing Survey has two separate parts: (a) a national survey of housing units throughout the country, and (b) surveys in selected metropolitan areas (see map on page iii). Each



*Woodrow Wilson House, District of Columbia (1915). The architect placed two exterior lightwells along the party walls of this house. They provide light to spaces that need light but not necessarily a view, such as stairwells, a pantry, a closet, bathrooms, and hallways. What appears to be a large arched window near the center of the drawing is actually a borrow light illuminating the stair landing between the first and second floors.*



metropolitan survey has 3,000-15,000 interviews, spread over 7-12 months. Metropolitan interviews in each area start in the spring of one year and end the next winter (except in 1984, when all interviews were done in the fall). Table 1 shows past and future surveys of each area.

The national survey covers 50,000-80,000 homes, a completely different sample from the homes in the metropolitan survey. These national interviews are conducted in the fall. One basic sample, growing slightly to include new homes, was visited every fall from 1973-81, then again in 1983. Then the AHS drew a new sample from the 1980 Census to use in 1985, 1987, 1989, 1991, and 1993.

To help analyze changes over time, the national survey tapes from 1974-83 can be purchased either separately or merged, with the 9 years of data on each home linked together. To measure more recent changes, each 1985 interview will come with the 1980 Census Questionnaire for the same unit, and will be linked to 1987 and later AHS interviews when they become available. For example, these linked files permit you to count units of poor quality each year and determine which ones improved or declined the next year. Similarly, the metropolitan surveys can be ordered separately or linked.

The national AHS added a special sample of neighbors starting in 1985 (and again in 1989 and 1993). This neighbor sample covers the 10 nearest neighbors around each of 680 AHS homes in urban areas. The neighbor sample, which has 6,800 units in 680 clusters,

**TABLE 1**  
**Metropolitan and National Samples of the American Housing Survey 1974-1991**  
 \*(Sample sizes shown at bottom of table)

PMSA CODE	TYPE	WHEN EACH AREA WAS SURVEYED					
		74-6	77-9	80-3	84-7	88-91	
160	1S	74	77	80			Albany
240	1S	76		80			Allentown
360	1P	74	77	81	86	90	Anaheim
520	1M	75*	78*	82	87	91	Atlanta
720	1M	76	79	83	87	91	Baltimore
1000	1M	76		80	84	88	Birmingham
1120	6C	74*	77*	81	85	89	Boston
1280	2C	76	79	84	88		Buffalo
1600	4P	75*	79*	83*	87	91	Chicago
1640	1P	75	78	82	86	90	Cincinnati
1680	1P	76	79	84	88		Cleveland
1720	1S	75	78				Colorado Springs
1840	1M	75	78	82	87	91	Columbus
1920	1P	74	77	81	85	89	Dallas
2080	2C	76	79	83	86	90	Denver
2160	1P	74*	77*	81	85*	89	Detroit
2800	1P	74	77	81	85	89	Fort Worth
3000	1S	76		80			Grand Rapids
3280	4C	75	79	83	87	91	Hartford
3320	1S	76	79	83			Honolulu
3360	2P	76*	79*	83	87	91	Houston, new sample in 87
3480	1M	76		80	84	88	Indianapolis
3760	1M	75	78	82	86	90	Kansas City
4120	1S	76	79				Las Vegas
4480	1P	74*	77*	80*	85*	89	Los Angeles
4520	1S	76		80,83			Louisville
4720	1S	75	77	81			Madison
4920	1M	74	77	80	84	88	Memphis
5000	2C	75	79	83	86	90	Miami
5080	1P	75	79	84	88		Milwaukee
5120	1M	74	77	81	85	89	Minneapolis
5560	1M	75	78	82	86	90	New Orleans
5600	3P	76*		*80,83*	87	91	New York
5640	5P	74	77	81	87	91	Newark
5680	1M	75	78	84	88		Newport News
5880	1M	76		80	84	88	Oklahoma City
5920	1S	76	79				Omaha
5960	1S	74	77	81			Orlando
6040	1S	75	78	82			Paterson, merged into Newark area in 87
6160	1P	75*	78*	82	85*	89	Philadelphia
6200	1M	74	77	81	85	89	Phoenix
6280	2C	74	77	81	86	90	Pittsburgh
6440	2C	75	79	83	86	90	Portland, OR
6480	2P	76		80	84	88	Providence
6640	1S	76	79				Raleigh
6840	1M	75	78	82	86	90	Rochester
6920	1S	76		80,83			Sacramento
6960	1S	74	77	80			Saginaw, 1974 tape not released
7040	3C	76*		*80,83	87	91	St. Louis
7160	1M	74	77	80	84	88	Salt Lake City
7240	1M	75	78	82	86	90	San Antonio
7280	1P	75	78	82	86	90	San Bernardino
7320	1P	75	78	82	87	91	San Diego
7360	2P	75*	78*	82	85*	89	San Francisco
7400	1P				84	88	San Jose
7600	2C	76*	79*	83	87	91	Seattle
7840	1S	74	77	81			Spokane
8000	1S	75	78				Springfield
8200	1S	74	77	81			Tacoma, merged into Seattle area in 87
8280	1M				85	89	Tampa
8840	1M	74*	77*	81	85*	89	Washington
9040	1S	74	77	81			Wichita

\*TYPE\*: S=SMSA, P=PMSA, M=MSA, C=CMSA. THE NUMBER OF PMSAS INCLUDED IS ALSO SHOWN.  
 MOST AREAS GREW FOR THE 1984-7 SURVEYS, BUT THE OLD SAMPLE WAS KEPT, PLUS NEW UNITS. SEE THE CODEBOOK FOR EXACT COUNTIES SURVEYED.

	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91
SURVEY YEAR	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91
NUMBER OF AREAS (TOTALING 72 PMSAS)	19	21	20	20	15	15	15	15	12	13	11	11	11	11	11	11	11	11
-SAMPLE SIZE IN STARRED AREAS (000S)	15	15	16	15	16	18	15			9		7						
SAMPLE SIZE IN OTHER AREAS (000S)	5	5	5	5	5	6	5	5	4	4	4	4	3	3	3	3	3	3
TOTAL SAMPLE SIZE (000S)	132	147	150	142	114	121	111	73	51	64	47	55	36	36	36	36	36	36
CHARACTERS PER RECORD	431	730	895	920	933	1248	1437	1437	1692	1098	2215	2215	2215	2215	2215	2215	2215	2215
MILLIONS OF CHARACTERS PER FILE	57	107	134	131	106	151	160	105	86	70	104	122	80	80	80	80	80	80
MILLIONS OF CHARS. FOR SMALLEST AREA	2	4	4	5	5	7	7	7	7	4	9	9	7	7	7	7	7	7

	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91
SURVEY YEAR	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91
BASIC NATIONAL SAMPLE (000S)	60	61	61	62	59	59	60	61	58		59		46		48		50		52
RURAL SUPPLEMENT (000S)		16	17	18	18	19	19	19	2		19				6				6
NEIGHBOR SUPPLEMENT (000S)													7				10		
TOTAL NATIONAL SAMPLE (000S)	60	77	78	80	77	78	79	80	60		78		53		54		60		58
CHARACTERS PER RECORD	399	771	810	812	994	1488	990	1710	1440		1482		2235		2235		2235		2235
MILLIONS OF CHARACTERS PER FILE	24	59	63	65	77	116	78	137	86		116		118		121		134		130

A NEW NATIONAL SAMPLE WAS USED STARTING IN 1985. 1980 CENSUS RECORDS ARE AVAILABLE ON THIS SAMPLE, TO GIVE IT SOME HISTORY.

\*\*The number of megabytes per file is provided to help users decide whether the file can be used on a P.C.

lets users compare adjacent units, occupants of those units, and changes over time. The neighbor sample includes all the same questions as the regular national sample, and will be released on the same tape. The Geography section of this Codebook describes the codes that identify the neighbor cases.

In most national AHS surveys, when there is no neighbor sample there is an extra sample of rural units for more accurate rural estimates. Table 2 shows the number of units interviewed each year, while the bottom portion of Table 1 shows the sample sizes for 1985 and 1987 and expected sample sizes for future years.

**TABLE 2  
NUMBER OF NATIONAL CASES  
BY INTERVIEW STATUS, BY YEAR**

	Interview (Occupied)	Interview (URE) <sup>1</sup>	Interview (Vacant) <sup>2</sup>	Non- Interview <sup>3</sup>	Total	Dates of Interviews
1973	46,814	379	4,352	NA	51,545	7/25/73-11/05/73
1974	60,883	829	6,887	34,412	103,011	7/29/74-11/04/74
1975	61,362	459	7,079	34,111	103,011	9/29/75-12/31/75
1976	63,136	432	7,428	32,015	103,011	9/20/76-1/14/77
1977	58,727	369	7,172	36,743	103,011	10/17/77-2/13/78
1978	59,710	366	7,401	35,534	103,011	9/26/78-2/06/79
1979	60,881	406	7,707	34,017	103,011	8/28/79-12/21/79
1980	62,007	482	7,806	32,716	103,011	8/13/80-12/29/80
1981	47,777	312	5,383	49,539	103,011	8/04/81-1/15/82
1983	60,680	486	7,785	34,060	103,011	7/28/83-1/20/84
1985	43,104	470	5,257	5,065	53,896	8/28/85-12/31/85

<sup>1</sup>Usual Residence Elsewhere. Occupants that usually live elsewhere are asked selected questions only.

<sup>2</sup>Interviews are conducted with landlords, managers, etc., and cover a subset of the questions only.

<sup>3</sup>Prior to 1985, the count of non-interviews includes units not yet in the sample, units dropped from the sample, and units missing from the sample. In 1985, a completely new sample of units was interviewed. The count of non-interviews therefore includes only units missing from the sample.

## PUBLICATIONS

HUD and the Census Bureau publish tabulations from each survey. There are six books for each national survey from 1973-83, and one book for each later national survey. There is also a book for each metropolitan area whenever it is surveyed. Each book costs between \$5 and \$10. For further information write to: HUD USER, Box 6091 Rockville, MD 20850 or call (800) 245-2691 or (301) 251-5154.

Each National Book (Series H-150) shows data for the U.S., four Census regions, Blacks and Hispanics. Books cover different topics, as follows:

Topics	Breakdown	Identifier	Years Available
General	By all topics	-	1985-1993
General	By Suburban, Central City & Non-Metropolitan Areas	Part A	1973-1983
General	By Urban and Rural	Part E	1974-1983
General	By Rent, House Value & Family Income	Part C	1973-1983
General	For Recent Movers Only	Part D	1973-1983
Housing & Neighborhood Quality	Summary	Part B	1973-1977
Housing & Neighborhood Quality	By Rent, House Value & Family Income	Part B	1978-1983
Housing & Neighborhood Quality	Summary (Equipment, Fuels, Utility Costs, Commuting)	Part F	1973-1977
Energy		Part F	1978-1983

Starting in 1985, most of the information is contained in a single book. To order National Books, specify series H-150, the part (if before 1985) and the year desired.

A Metropolitan Book (Series H-170) is prepared for each area each time it is surveyed (see Table 1). To order, specify Series H-170, the area and the year. There is also one summary book each year, with all the areas in that year's survey. To order the summary, specify Series H-171 and the year.

Books for the most recent year are usually in stock at HUD USER, which provides them for a handling charge of \$3 per copy.

If HUD USER does not have the volumes you want, the most recent four years may be available from Data User Services Division, Bureau of the Census, Washington, DC 20233, telephone (301) 763-4100. The U.S. Government Printing Office (GPO) may also have recent volumes: U.S. Government Printing Office, Washington, DC 20402, telephone (202) 783-3238. All volumes are available on microfiche for \$2-\$4 per volume from the Census address just given.

If none of these sources has the volumes you need, all can be photocopied by HUD USER at \$5 for 1-25 pages, \$8 for 26-100 pages, \$13 for 101-200 pages, and \$6 per 100 pages (or portion thereof) for orders over 200 pages.

In addition to this Codebook, the AHS Data Project sells a Directory and copies of the questionnaires used in the surveys. The Directory provides unweighted frequency distributions for each variable every year, a cross reference to locations on all the tapes and questionnaires, and information on allocation variables. It may be ordered by using the order form at the end of this Codebook.

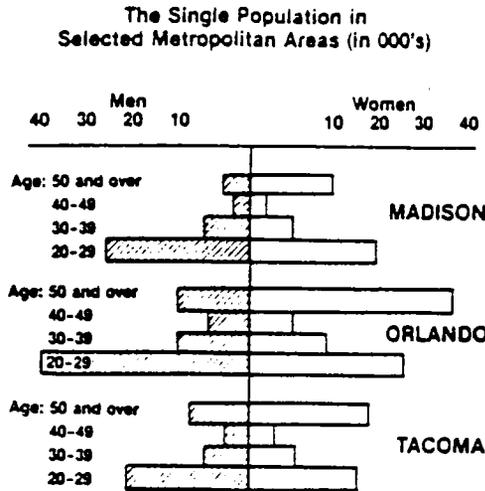
Additional detailed tabulations not normally published can be prepared on hard copy by the AHS Data Project, Abt Associates Inc., 55 Wheeler Street, Cambridge, MA 02138; telephone (617) 492-7100.

The cost of preparing custom tabulations and Data Displays varies depending on the complexity of the request, the size of the file(s) to be used in the preparation of the run, the number of output pages and the amount of art work involved for Data Displays. A simple crosstabulation such as the one presented below can be prepared for \$250. Any additional tables using the same input file can be produced for little additional cost.

1983 NATIONAL STATISTICS  
TABLE OF NUNITS BY BEDRMS  
CONTROLLING FOR REGION=NORTHEAST  
NUNITS            BEDRMS

FREQUENCY PERCENT ROW PCT COL PCT	BEDRMS							TOTAL
	0	1	2	3	4	5	6+	
ONE/DET	77812 0.67 0.79 87.34	424538 3.68 4.32 87.09	2127946 18.46 21.64 81.99	4724477 40.98 48.05 83.44	2013058 17.46 20.47 91.96	363411 3.15 3.70 92.05	100626 0.87 1.02 90.04	9831868 85.28
ONE/ATT	11277 0.10 0.66 12.66	62906 0.55 3.71 12.91	467513 4.05 27.54 18.01	937375 8.13 55.22 16.56	175924 1.53 10.36 8.04	31398 0.27 1.85 7.95	11125 0.10 0.66 9.96	1697518 14.72
TOTAL	89089 0.77	487444 4.23	2595459 22.51	5661852 49.11	2188982 18.99	394809 3.42	111751 0.97	11529386 100.00

Data displays requiring more programming time or, graphic services such as the ones presented below, are also available.



SOURCE: AHS Metropolitan Area Samples, 1981. Division of Housing and Demographic Analysis, U.S. Department of Housing and Urban Development.

The AHS Data Project is administered by Abt Associates Inc., a research firm specializing in economic analysis, evaluation of social programs and market research. The Housing Area staff has had intensive experience in using the AHS data in various analyses. The staff is available to assist you in defining your data needs, in planning your analyses or conducting analyses tailored to your specific needs.

## TECHNICAL ASSISTANCE AND CONSULTATION

The AHS Data Project staff will answer your questions about the content, the format, the reliability and the applicability of the AHS data to your specific research or business needs. They may suggest other sources of data as appropriate. The AHS Data Project has been in operation for over 10 years and may be able to refer you to others who have used the AHS data for a similar purpose and may be willing to share their experience with you in addressing a special issue. Furthermore, the AHS Data Project can draw on Abt Associates staff members' experience to help you resolve a research issue. Consultations beyond 2 hours will be provided for a fee, reflecting the costs of labor and materials.

## DATA FILES

Data files are available from several sources:

- Complete files from the Census Bureau cost \$175 per reel of tape. For further information, contact: Data Users Services Division, Census Bureau, Washington, DC 20233 or call (301) 763-4100.

- Census Tapes are also available at the Inter-University Consortium for Political and Social Research (ICPSR). ICPSR is a membership-based organization. Tapes are available at no cost to members and for a charge to non-members. To inquire on availability and prices, phone ICPSR at (313) 764-2570 or write ICPSR, University of Michigan, Ann Arbor, Michigan 48106.
- A variety of standard files are available from the AHS Data Project at Abt Associates. Others can be prepared according to user specifications. Prices vary from \$150 to \$2,400. To make programming easier, machine readable documentation is provided in SAS, SPSS, or FORTRAN. Smaller files designed to be used on personal computers can be prepared on diskettes instead of tapes.

The data tapes prepared by Abt Associates differ in several ways from the files available from the Census Bureau and ICPSR:

- Abt files are available in a common layout (fixed field lengths and order of variables) from year to year, while Census file layouts are different each year. Thus, the record length of Census files is slightly shorter, since Abt always leaves space for questions that are on some questionnaires but not on all. Note that Abt standard files do not include one-time AHS supplements (like the 1978 disability questions). These are available by special order from Abt (see discussion under "AHS Supplements" below), while they are usually included in standard Census files.
- Abt files are available with a fixed number of records from year to year, while Census record counts change as units are added by new construction or lost by demolition or other causes of attrition. Abt files include dummy records for years before a unit joined the sample or after it dropped out. Users of Abt yearly files have the option of specifying whether they desire these dummy records to be included or excluded from their files.
- Some analysis was performed on these files, and obvious errors were corrected in the Abt tapes. For example, geography variables which cannot change from one year to another were compared, and discrepancies resolved.

Because of the additional processing that has been done, Abt files for individual years are more expensive than Census files. We encourage researchers who do not need data linked across years or standardized formats to buy Census files; researchers who do need linked or standardized data, or want extracts of data, should purchase Abt files.

AHS files can be very large, and existing software packages may be expensive to use. A more efficient package, the BOAT Package, is available from the AHS Data Project with appropriate documentation. This package can handle any data on computers, from micros to super-computers. It is also easy to use. A sample table prepared with this package is shown below.

OCCUPIED HOMES IN SELECTED METROPOLITAN AREAS

	Birmingham	Buffalo Niagara F.	Providence Pawtucket	San Jose	TOTAL
TOTAL	328,000	447,000	357,000	483,000	1,615,000
Lead Pipes(pre1920)	14,000	103,000	95,000	11,000	223,000
Avg Yrs betw. Moves	23	26	24	16	22
% Owner-Occupied	69	65	62	59	63
Average Income	22,486	22,776	25,673	41,479	28,949
Sample Size	3,281	3,511	3,626	3,794	14,212
( <u>    </u> ?)	BOAT Package, Monday, August 1, 1988, 2:56 pm				14,212 Cases
	American Housing Survey 1984S				

## HOW TO USE THIS CODEBOOK

When you receive a data tape you should receive (a) this Codebook showing the meaning of each variable, (b) a "layout" showing the columns where each variable appears on the tape, and (c) a page showing whether your tape has density of 6,250 or 1,600, is coded in Ebcdc or Ascii, etc. Use items (b) and (c) to read the tape at your computer center. Then you can use (a), this Codebook, to choose the specific variables you want to analyze. For example, if you wanted to compare housing costs in good and bad neighborhoods, you would turn to the table of contents and find that there are specific sections on "Neighborhood" and "Housing Cost." Each of these sections begins with some text describing the information available. Then each section has a list of the individual questions that have been asked, and the codes for each answer. You would choose an appropriate measure of neighborhood quality, such as HOWN, which is an overall measure of satisfaction, or CRIME which is a specific question about crime, or any of a variety of other questions. Similarly, in the cost section, ZSMHC is an overall measure of monthly housing costs, and there are separate questions on mortgage costs, rent, taxes, etc. If you already know the name of a variable, perhaps from another researcher, you can find it quickly in the alphabetical index at the end of the Codebook. For each question, be careful of homes where a question is not applicable, such as vacant homes, demolished homes, newly built homes, etc. The list of codes for each variable shows these situations. For example, the code 9 in CRIME means not applicable, and 8 means not answered (the respondent refused, or the interviewer forgot to ask the question).

When you finish preparing a table, compare the total number of units you get to an AHS publication, to be sure you have run the tape correctly. Numbers should match fairly closely, except in high categories of financial variables, where the top code given on the tape is limited to protect confidentiality.

When using AHS data tapes, users should remember to weight data with the variable WEIGHT, which is documented in the Sample Status section of this Codebook. On national tapes, correct samples should be chosen by using the variable RURREC in the Geography section of this Codebook. The analyst should also be aware that standard errors calculated by most statistical analysis packages underestimate the actual standard errors. For corrections, see Chapter 1.

This codebook summarizes data from 35 surveys as compactly as possible, to show when comparable data are available and to show what each code means. Variables are presented in broad subject groupings. Each grouping has an introduction with a brief description of its content. New variables and variables that continue to be available after 1983 are highlighted in the Codebook by using a bolder type face to print the variable name and variable description. In several sections, tables have been added to show skip patterns for the variables. To keep the Codebook small, we have not reprinted the individual questions, but we have tried to note major changes in phrasing. From 1984 on, most of the questionnaire is unchanging, so we have reprinted the major part of the 1985 National questionnaire. The sample shows questions for occupied units. It does not show sections for non-interviews or unoccupied units and does not include supplemental questions which vary from survey to survey. Copies of complete surveys are printed in the AHS Publications or may be obtained from Abt Associates.

## A QUICK GUIDE TO THIS CODEBOOK:

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
0154	NUMAIR	73N-93N 74S-93S	<b>Number of Room Air Conditioners</b>	<u>83N</u> 11 <u>83S</u> 11 <u>84S</u> 7 <u>85N</u> 7
			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	

## Variable Number and Variable Name

The variable number provides a convenient reference. The variable name attempts to describe the content of the variable. Whenever possible, questions in the new questionnaire were assigned the same name as in earlier surveys, even if the question was modified.

## Surveys

This entry documents the years and surveys for which the variable is available. A year followed by an "N" means that the variable is available in the National Survey, and a year followed by an "S" indicates that it is available in the Metropolitan Statistical Area survey. For the National Survey, users should remember that starting in 1981, the Survey was conducted only in odd years. A range of 1974N-1993N, therefore, indicates that the variable is available each year from 1974 through 1981 and odd years thereafter.

## Variable Description

This entry describes the variable as briefly and accurately as possible. Users should refer to the actual question in the Questionnaire to understand the exact intent of the question.

## Codes

Response categories and coding conventions have changed over the years for many variables. These changes are documented through the use of separate columns. The column heading indicates the survey years for which each coding convention is applicable.

## Page on Questionnaire

This entry provides the page number on selected questionnaires. Entries include the last year it was available in the old questionnaires (generally 1983) and the first year it is available in the redesigned questionnaires (generally 1984S and 1985N). A blank means the question was not available. "G" means the variable was computer generated. "C" means the item comes from the control card rather than the Questionnaire. If a question appears on more than one page on the questionnaire, e.g., on page 4 for single family units and on page 15 for multifamily units, the page on which the question appears the first time is reported. The Directory (see below) reports every page number and covers all surveys.

## Notes

Notes are included to clarify a definition, to highlight important wording, changes in respondents across years and other facts which may affect the comparability or reliability of the variable.

It should be noted that the documentation of the 1984-1993 surveys has been prepared on the basis of the Questionnaires and preliminary documentation from the Census Bureau. The exact codes for some variables may be inaccurate, since the Census Bureau may change its coding specifications during the data preparation phase. The Codebook has been reviewed against actual data for the 1984 and 1985N surveys and will continue to be reviewed as AHS files are released by the Census Bureau.

As complements to this Codebook, the AHS Data Project sells a Directory and copies of the questionnaires used in the surveys. The Directory provides unweighted frequency distributions for each variable every year, a cross reference to locations on all the tapes and questionnaires, and information on allocation variables. It may be ordered with the order form on the back of the title page.

## SPECIAL CONSIDERATIONS

### Summary Variables

The AHS tapes contain some variables which were generated by the Census Bureau. These variables are identified by showing "G" instead of a page number under "Page" on the Questionnaire. Most of these variable names start with the letter Z. Experience from previous research and from reports from AHS users indicates that these variables should be used with care, since they may not always meet the specific needs of a given analysis. In a few instances, where specific problems have been identified, a note is included in the documentation. In other cases, it is recommended that researchers consider the option of deriving their own variables, since in most instances the raw variables are also available in the data files. The AHS Data Project staff will be happy to assist with any questions on summary variables.

### Major Definition Changes from Past Surveys

Starting in the 1984 AHS and 1980 Census, vacant mobile homes count as housing units; previously they did not. Starting in the 1984 AHS, the cost of housing is collected for all units; previously cost was not collected on units with more than 10 acres nor on owner-occupied units in multi-unit buildings such as duplexes or condominiums. Starting in the 1984 AHS, the total housing cost of renters (ZRENT) includes property insurance, if any; previously it

did not. The variable ZRENT has been combined with the variable for owners' costs as ZSMHC, and utility variables have similarly been combined. Starting in the 1984 AHS, the variable WEIGHT is available for non-interviews as well as interviews. Several geography variables, tenure, units in structure, etc., have changed coding. Check the chapters of this book. Also, in the 1984 AHS and 1980 Census, a household that reaches its home through someone else's home is not a separate household; previously it was one if each of the two households had complete, separate kitchen facilities. Starting in the 1984 AHS and 1980 Census, a household where 9 or more people are unrelated to the householder is not counted as a housing unit and is omitted from the AHS; previously the limit was 5 or more. Starting in the 1980 AHS and Census, the householder can be any adult whose name is on the title or lease of the home; previously the term was head of household, and was arbitrarily the husband in husband-wife families.

### **Treatment of Missing Data**

There are three sources of missing data in the Annual Housing Survey: non-interviewed units, questions that did not apply to the unit, and unanswered questions that did apply to the unit. Non-interviewed units (refusals, cannot locate, etc.) have their weights spread among other units for which an interview was completed. This process is discussed in more detail in the Sample Status section and Chapter 2. Questions that do not apply (e.g., rent on an owned unit) are given "not applicable" codes. Unanswered questions are identified by allocation variables or by "not answered" codes.

In general, the label "Not Answered" indicates that the question was applicable to the particular unit, but an answer was not provided. For some variables, the data base includes a code for "not answered" (usually "8", "98"). For other variables, the Census Bureau assigns, or "allocates," responses to unanswered questions by copying the responses of the last similar unit processed. Groups of units considered "similar" are shown in the Sample Status section. The groups are usually based on tenure, race, sex and general unit descriptors. Units are processed in geographic order, so the last similar unit is normally nearby. This procedure preserves the distribution of responses within a variable, and preserves the mean. However, allocated data should be avoided when you compare variables or look at changes over time.

There is also a possibility that two answers are inconsistent. If so, one will be edited. For example, if rent is filled in on an owned unit, it will be changed to "Not Applicable." Where the correct answer cannot be determined, the question will be treated as not answered. The data base virtually always shows when allocations are done. Starting in 1984, the data base also shows when edits

are done. The Sample Status section explains this process more fully.

Table 3 shows the variables which are most frequently allocated or edited. A variable is included in the table if it was allocated or edited 1,000 or more times in 1985. The number of cases allocated in 1983 is shown in the last column. Percentages are based on the number of applicable cases, rather than total cases. Both the number of allocations and edits are shown in the Questionnaire Directory for all variables. Recoded variables may exhibit an even higher percentage of allocations, since all or several variables used in their computation may be subject to allocation. For example, in 1983, the Questionnaire Directory shows that there were 7,447 allocations of various components of gross rent.

The label "Not Applicable" includes three types of non-responses: (1) the interview did not take place, (2) the unit was not in the sample and a dummy record was created, and (3) the question was not intended to be asked of the respondent, as determined by the skip pattern. The skip patterns used in the Annual Housing Survey Questionnaires are very complex. Because of cost constraints it was not possible to document these patterns for all variables in this version of the codebook. Several tables have been added to this revised version of the Codebook to assist users in following the conventions used by the Census Bureau in coding some of the more complex skip patterns. The tables are useful to identify changes in skip patterns and universes across years. Where researchers find more "not applicable" cases than would be expected due to vacant units, non-interviews, or other obvious skip patterns, they should trace the precise skip instructions in the questionnaire.

In using the codebook, users will notice that more than one "not applicable" code may appear for the same year (e.g., 9 and 99). This occurs for those variables which changed field length over the years in the Census tapes. As mentioned above, the Abt tapes are processed in a constant layout for all years. In such cases, the smaller code (e.g., 9) identifies cases which were on the original Census tape and to whom the question was not applicable. The larger code (e.g., 99) was filled in by Abt on dummy cases which represent years before a case joined the sample or after it dropped out.

## **AHS and Census Data**

Users should note that there are differences between the Annual Housing Survey data and the 1970/80 Census data. Some of the reasons include extensive use of self-enumeration in the Census in, contrast to personal interviews in the American Housing Survey; the sampling variability of the estimates from the American Housing Survey and, to a smaller extent, of the sample

**TABLE 3**  
**MOST FREQUENTLY ALLOCATED AND EDITED VARIABLES**

Variable	Description	1985		1983		
		Cases Allocated No.	%	Number of Cases Edited	Cases Allocated No.	%
VALUE	Property Value	3,564	12%	351	2,040	6%
INT	First Mortgage Interest Rate	0	0	2,093	NA	-
VOTHER	Total Other Income Excluding Wages	4,732	10%	15,142	*	-
SAL1	Wage/Non Relative Income Adult 1	3,420	7%	99	5,337	9%
SAL2	Wage/Non Relative Income Adult 2	2,389	8%	190	3,160	7%
QUNEMP	Income From Unemployment					
	Compensation or Other Sources	544	1%	1,516	948	2%
BUYG	Cost of Gas	2,404	6%	3,817	4,298	13%
/AMTG						
GASPIP	Source of Gas	1,818	6%	0	NA	-
BUYW/	Cost of Water & Sewer	1,838	4%	3,848	3,354	11%
AMTW						
BILLW	Water Billed With Other Utilities	0	0	1,482	NA	-
BUYE/	Cost of Electricity	1,537	4%	3,533	7%	-
AMTE						
BUYO/	Cost of Oil	1,019	2%	23	2,559	22%
AMTO						
BUYF/	Cost of Other Fuel	1,613	4%	19	NA	-
AMTF						
HFUEL	Fuel Used for Heating	106	4%	1,666	10	**
WFUEL	Fuel Used to Heat Water	1,411	3%	NA	-	-
BUYT/	Cost of Trash Collection	1,054	3%	1,871	2,837	27%
AMTT						
AMTX	Real Estate Taxes Amount	0	0	5,214	0	0
AMTI	Insurance Costs	0	0	5,328	0	0
OFFICE	No. of Rooms Used for Business	3,040	17%	0	NA	-
NOTHRM	No. of Other Rooms	2,248	13%	0	NA	-
TENURE	Tenure Status	0	0	1,500	0	0
STATUS	Occupancy Status	0	0	1,500	0	0
ACCESS	Direct Access to Unit	0	0	2,256	0	0
BUILT	Year Unit Was Built	350	**	2,200	1	**
ESAGR	Sagging Roof	0	0	3,228	NA	-
EABAN	Abandoned Buildings	0	0	1,385	0	0
BADSTEP	Hazardous Steps	0	0	1,618	0	0
DISTJ1	Miles Driven to Work (Person 1)	1,012	3%	2,256	790	3%
DISTJ2	Miles Driven to Work (Person 2)	404	3%	1,188	297	2%
TIMEJ1	Commuting Time to Work (Person 1)	420	1%	1,065	154	**
ALLMV79	All HH Members Moved From the Same Previous Residence	0	0	7,114	NA	-
XATEN	Previous Tenure of Group 1	1,016	11%	0	NA	-
XAHEAD	Reference Person Owned/Rented Previous Residence	0	0	2,340	NA	-
DLINE1	Line Number of Respondent	0	0	2,004	0	0
IDATE	Interview Date	0	0	1,364	0	0
PHONE	Household Has Phone	1,535	4%	0	96	**

\* See individual variables, such as income from business (3%), income from interest (32%), income from dividends (47%), etc.

\*\*Less than 1%.

data from the Census; and other nonsampling errors associated with each survey.

Differences may also be attributed to differences in basic definitions, such as the definition of a housing unit. These differences have been noted in the Introduction to the section in which the variable is documented.



Data on geography describe the geographic location of the unit (region, SMSA, state, county) and the type of place in which it is located (e.g., urban/rural, SMSA/non-SMSA, central city/ suburb, place size). Users should be aware that changes in some geographic boundaries and coding conventions have occurred between 1983 and 1984. These changes are highlighted in the discussion below and are documented for each variable in this section.

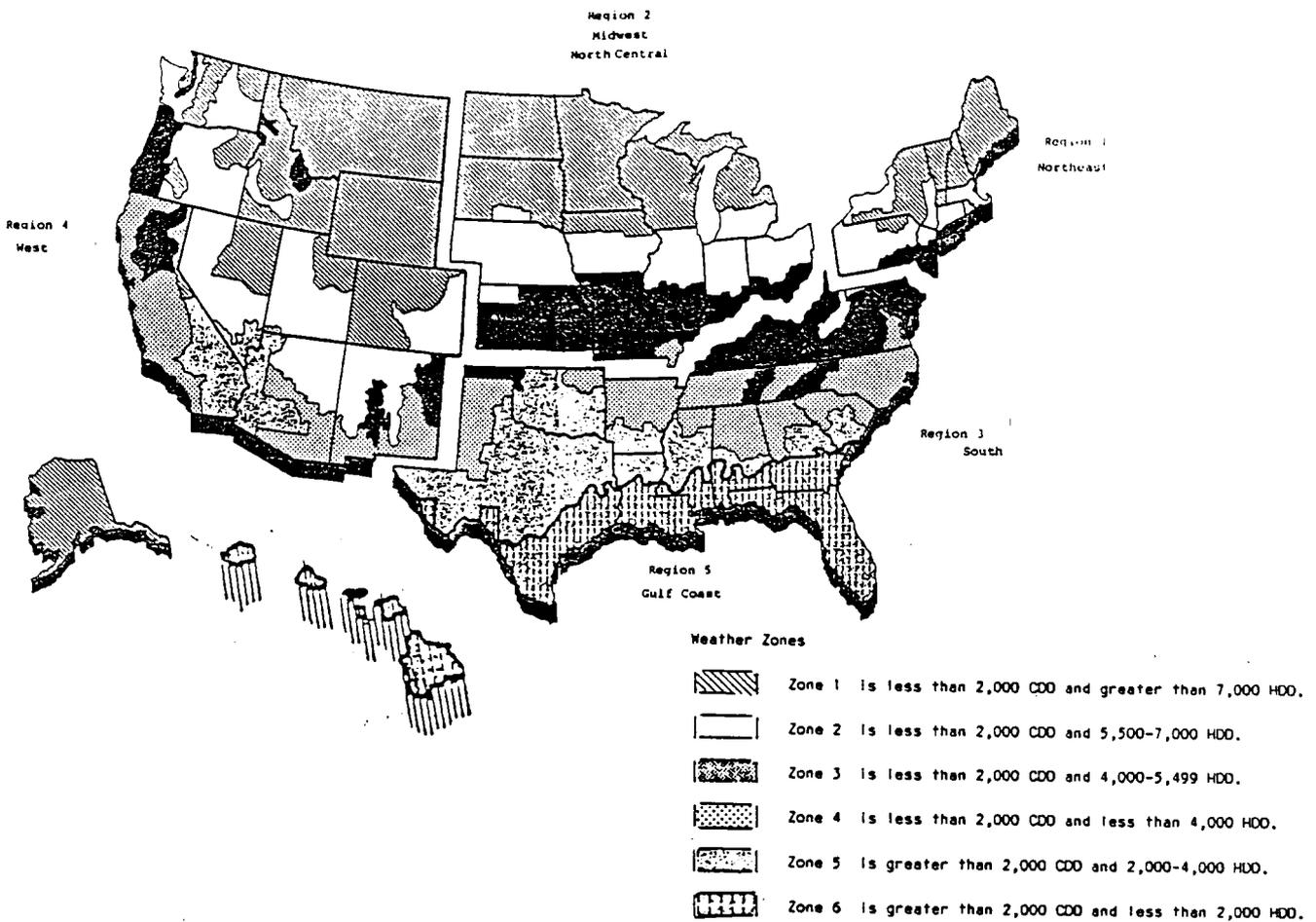
If data from the national file are being used, it is important to note that normally cases for which the variable "RURREC" does not equal 1 should be excluded, since including these cases would wrongly double-count some units. These extra cases are only included on the file for special analyses of neighboring units and rural units, that are explained in Chapter 3, Section 1.5, Rural Weights, and Chapter 2, Section 3.6, Neighbor Sample. The variables REGION, STATE, COUNTY, LOT (size) and CROPSL (to identify farms) are consistent from 1973-1993. More counties are identified from 1984 on.

The variables SMSA, ZMETRO, METRO, URBAN, and POP (population) changed in 1984. From 1973-1983 they are based on the 1971 boundaries of metropolitan areas and cities, and the 1970 populations. From 1984 to 1993 they are based on 1983 boundaries of metropolitan areas and cities, and 1980 populations. Exceptions are the SMSA code and the center city code (METRO) on 1984-1993 metropolitan surveys: METRO is still based on 1971 boundaries. SMSA now covers all the area surveyed in the metropolitan survey, including parts which have different metropolitan codes. Detailed metropolitan codes are shown in the variable PMSA, except where confidentiality prevents. (See Table 4).

A few changes in coding conventions started in 1984. One important changes is a new variable "degree" which shows climate severity, to help understand utility costs. A map is provided on the next page.

Another important change is the introduction of new codes that distinguish units in urbanized and non-urbanized areas. For some purposes, comparing urbanized and non-urbanized areas may be preferable to comparisons between metropolitan and non-metropolitan areas. Since metropolitan areas are made of political jurisdictions, especially counties, they may include a lot of very undeveloped area. Furthermore, since they affect federal grants, their definition can be influenced by political issues. Urbanized areas, on the other hand, are defined statistically on the basis of density, and therefore they do not follow county boundaries or any political boundaries. Both sets of areas may now be analyzed with AHS data.

Census Region. The boundaries of the four Census regions are shown below.



The regions include the following states:

- |                  |                      |             |              |
|------------------|----------------------|-------------|--------------|
| Northeast Region | South Region         | West Region | (Midwest)    |
| Connecticut      | Delaware             | Arizona     | Illinois     |
| Maine            | District of Columbia | Colorado    | Indiana      |
| Massachusetts    | Florida              | Idaho       | Michigan     |
| New Hampshire    | Georgia              | Montana     | Ohio         |
| Rhode Island     | Maryland             | Nevada      | Wisconsin    |
| Vermont          | North Carolina       | New Mexico  | Iowa         |
| New Jersey       | South Carolina       | Utah        | Kansas       |
| New York         | Virginia             | Wyoming     | Minnesota    |
| Pennsylvania     | West Virginia        | Alaska      | Missouri     |
|                  | Alabama              | California  | Nebraska     |
|                  | Kentucky             | Hawaii      | North Dakota |
|                  | Mississippi          | Oregon      | South Dakota |
|                  | Tennessee            | Washington  |              |
|                  | Arkansas             |             |              |
|                  | Louisiana            |             |              |
|                  | Oklahoma             |             |              |
|                  | Texas                |             |              |

Urbanized Areas, Other Urban, and Rural Residence--An urbanized area is made up of a central city and its surrounding settled urban fringe which together have a population of 50,000 or more and a density of usually at least 1,000 people per square mile or 1.6 persons per acre. "Other urban" means places outside an urbanized area that have more than 2,500 inhabitants. Housing units not classified as urbanized or other urban are defined as rural housing.

Identification of MSAs and Central Cities in the AHS files--Prior to 1984, SMSAs were identified in the AHS National data files if the SMSA population exceeded 250,000 inhabitants. A central city indicator was provided for these identified SMSAs only if both the population of the central city and the population of the balance of the SMSA each exceeded 250,000 inhabitants.

Starting in 1985N, the variable METRO always shows whether cases are in the central city or suburbs, and whether suburban units are in urbanized, other urban or rural suburbs. If the central cities of a metropolitan area have more than 100,000 people, then the metropolitan area is identified for these central city cases. Similarly if the urbanized suburbs in a metropolitan area have over 100,000 cases, then metropolitan area is identified for these suburban cases. Thus the metropolitan code may be available for central cities, urbanized suburbs, or both. (See the variable SMSA in this section for a complete listing of identified metropolitan areas and the number of sample cases in each area, broken down by central city and urbanized suburbs if appropriate.)

To summarize, in 74N-83N, specific metropolitan areas over 250,000 people were always identified, and center city/suburb was identified where it did not breach confidentiality. In 85N-93N, center city/suburb/urbanized location is always identified, but specific metropolitan areas are identified only where this does not breach confidentiality. See Figure 1 (next page) and Table 4 at the end of this section for a comparison of the geographic variables before and after 1984.

Since 1983, the Census Bureau distinguishes between Primary Metropolitan Statistical Areas (PMSAs) and Metropolitan Statistical Areas (MSAs). PMSAs are component parts of Consolidated Metropolitan Statistical Areas (e.g., Lowell, Massachusetts is a PMSA that is part of the Boston-Lawrence-Lowell CMSA). When an area is neither composed of subareas nor part of a larger area, it is called an MSA. The former term SMSA (Standard Metropolitan Statistical Area) was used regardless of whether an area was part of a larger area.

Outside New England, a Metropolitan Statistical Area is a county or group of counties 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 MSA if, according to certain criteria, they are socially and economically integrated with the central city. Each MSA must include at least one central city, or central county. In the New England states, MSAs consist of towns and cities instead of counties, but otherwise the rules are similar.

Counties--County codes are only available in the metropolitan files. The primary divisions of most states are termed counties; in Louisiana, the corresponding areas are termed parishes. Alaska has county equivalents defined by the state. 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.

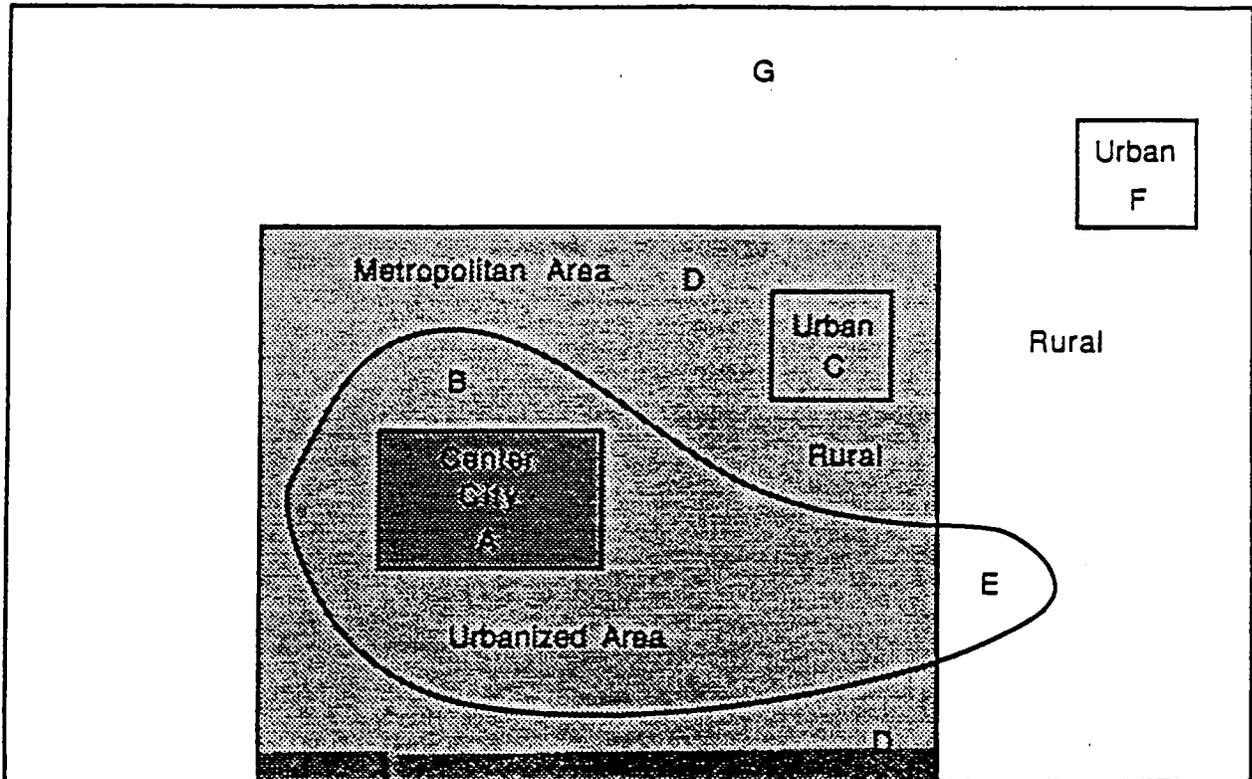
Zones--Zone codes are only available in the metropolitan files. A zone is defined for the AHS only as a socio-economically homogeneous area of more than 100,000 inhabitants. It does not necessarily correspond to a geographic subdivision although in almost all cases, each identified zone is equivalent to a group of Census tracts. A zone may follow the boundaries of a county or cover a portion of a county. It may also cover several counties or townships or portions of several counties. The areas included in a zone are not always adjacent. Maps showing the boundaries of each zone are available for the 44 areas in the survey except New York and New Jersey. They can be purchased from Abt Associates. Table 4 shows the identification numbers of the zones available for each MSA. These subareas are not intended for use in separate analysis, but rather as analytic building blocks to analyze specific types of areas in MSA for different purposes. The limited sample size in each zone precludes reliable analysis of any single zone.

Lot Size--Before 1984, respondents were asked if the unit was located on a lot of less than or more than 10 acres. Starting in 1984, respondents are asked for the size of the lot. Respondents can state the dimensions or the square footage of the lot or report its size in whole acres. If the respondent provides a range, the lower value is recorded in the data files. If a lot is divided by a road, the portion on the other side of the road is only included in the lot size if it is on the same deed as the lot on which the sample unit is located. For rental units, the acreage includes only the land included in the rent, not the acreage of the entire property belonging to the owner.

Farm-Nonfarm Residence--In rural areas through 1983, occupied housing units were 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. Starting in 1984, units are classified as farm units if the sales amounted to \$1,000 or more. 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. The farm-nonfarm classification is based on information in the interview, and therefore can change from year to year.

Figure 1: COMPARISON OF NATIONAL GEOGRAPHIC VARIABLES

Coding of Two Variables for Different Types of Areas on the 1985-1993 National Tapes

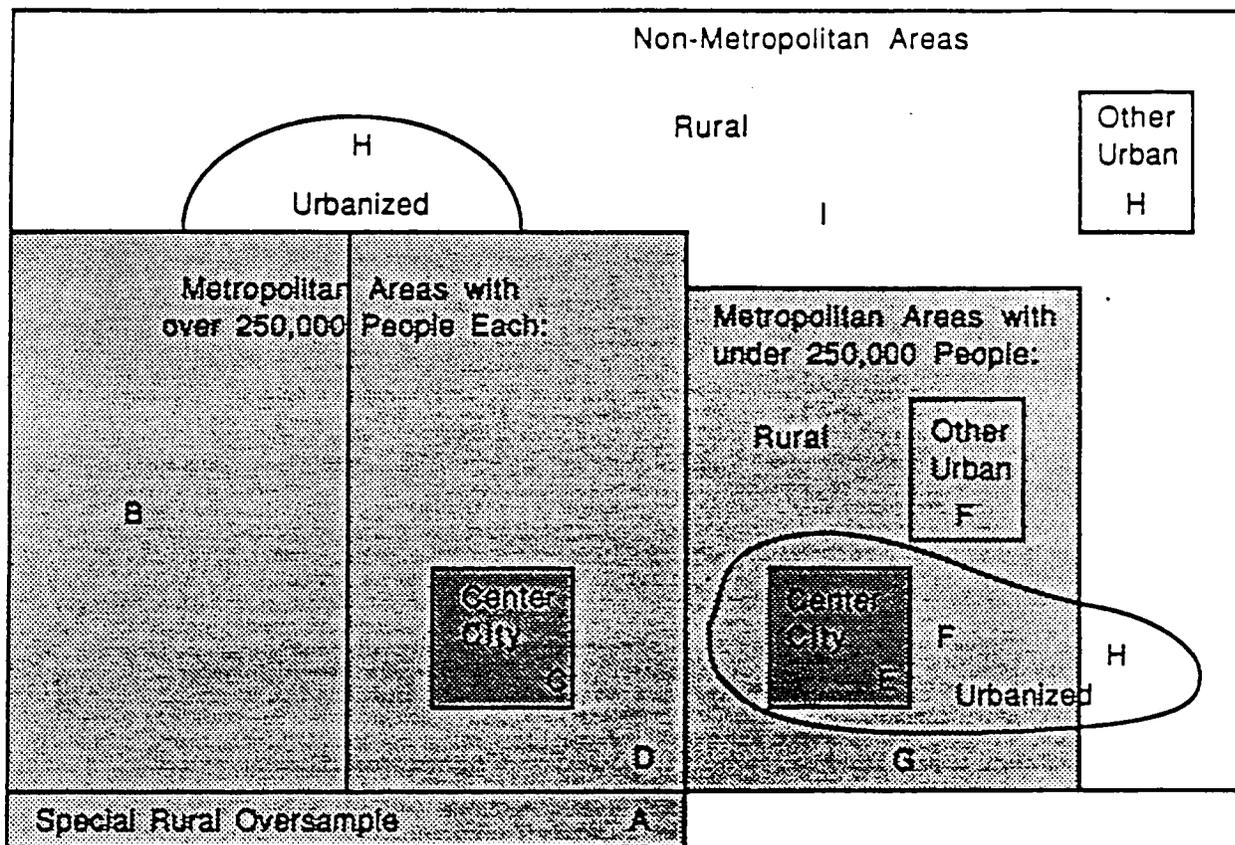


		METRO	SMSA
CENTER CITIES	A	1	XXXX The 4-digit numeric Code is given on central city cases as long as central cities total over 100,000 people. 9999 Otherwise
SUBURBS			
Urbanized Areas	B	2	XXXX The 4-digit numeric Code is given on urbanized suburb cases as long as urbanized suburbs total over 100,000 people. 9999 Otherwise
Other Urban	C	3	9999
Rural	D	4	9999
NON-METROPOLITAN			
Urbanized Areas	E	5	9999
Other Urban	F	6	9999
Rural	G	7	9999

Note that from 1985 on, central city and urban/rural indicators are never suppressed.

Figure 1: COMPARISON OF NATIONAL GEOGRAPHIC VARIABLES (continued)

1974-1983 National Tapes



	RURREC	ZMETRO	METRO	URBAN	POP	SMSA
<b>METROPOLITAN AREA</b>						
<b>Over 250,000 People</b>						
Special Rural Oversample	A	2	1	9	2-5*	9 9999
Area Where Either Suburbs or Center City has under 250,000 People	B	1	1	9	9	9 Given
<b>Area where Each has over 250,000 People</b>						
Center Cities	C	1	1	1 or 4	9	9 Given
Suburbs	D	1	1	2	9	9 Given
<b>Under 250,000 People</b>						
Center Cities	E	1	1	1	1	9 9999
Suburbs - Urban	F	1	1	2	1	9 9999
Suburbs - Rural	G	1	1	2	2-5	9 9999
<b>NON-METROPOLITAN AREA</b>						
Urban	H	1	2	9	1	1-9** 9999
Rural	I	1	2	9	2-5	9 9999

Note that from 1974 to 1983, central city and urban/rural indicators are suppressed in some cases.

\*There are a few cases coded 1 in this cell, interviewed in error. They have zero weight.  
 \*\*Note that 9 elsewhere means suppressed, but in this cell it means 2500-4999.

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

0001 REGION 73N-93N Census Region 83N 85N  
 G G  
 1 Northeast  
 2 Midwest (North Central)  
 3 South  
 4 West

Note: Until 1983, The Ohio portion of the Huntington-Ashland SMSA/PMSA, the Indiana portion of the Louisville SMSA/PMSA and the New Jersey portion of the Wilmington SMSA/PMSA are each included in the South region where the bulk of the SMSA/PMSA is located.

0002 ZMETRO 74N-83N Metropolitan Status 83N  
 G  
 1 Inside 1971 boundaries of SMSAs  
 2 Outside 1971 boundaries of SMSAs

0003 METRO 73N-93N Central City/Suburban Status 83N 83S 84S 85N  
 74S-93S 73N 74S-83S 74N-83N 85N-93N 84S-93S  
 G G G G  
 1 1 1 1 1 Central City of SMSA  
 2 2 4 1 2-6 Additional Central City,  
 e.g., St. Paul, MN  
 2 Urbanized Suburb  
 3 Other Urban Suburb  
 4 Rural Suburbs  
 2 3 2 5 7 Suburb  
 5 Urbanized Area, Non-metro  
 6 Other Urban, Non-metro  
 7 Rural, Non-metro  
 9 9 Nonmetropolitan or in  
 one of the SMSA's  
 listed under the  
 variable SMSA  
 without a 1983  
 breakdown of central  
 city and suburbs.  
 9 Non-Interview

Note: 85N-93N files use 1983 boundaries, as do 84S-93S if center city was suppressed before 1984. Otherwise 73N-83N and 74S-93S use 1971 boundaries.

0004 DEGREE 85N-93N Long Term Average Degree Days 85N  
 G  
 1 Coldest: over 7,000 heating degree days  
 and under 2,000 cooling degree days  
 2 Cold: 5,500-7,000 heating degree days  
 and under 2,000 cooling degree days  
 3 Cool: 4,000-5,500 heating degree days  
 and under 2,000 cooling degree days  
 4 Mild: Under 4,000 heating degree days  
 and under 2,000 cooling degree days  
 5 Hot: Under 2,000 heating degree days  
 and over 2,000 cooling degree days  
 6 Mixed: Over 2,000 heating degree days  
 and over 2,000 cooling degree days

0005 URBAN 73N-83N Urban Status 83N  
 1  
 73N 74N 76N 78N-  
75N 77N 83N  
 1 1 1 1 Urban (Population 2500+)  
 2 2 Rural  
 2 Rural Farm  
 2 Rural Farm GT 10 Acres  
 3 Rural Farm LT 10 Acres  
 3 Rural Nonfarm  
 4 Rural Nonfarm GT 10 Acres  
 5 Rural Nonfarm LT 10 Acres  
 9 9 In One Of The 125 SMSA/PSMAs Listed Under  
 Variable "SMSA" (Either Urban Or Rural)  
 9 Rural Type C Non-Interview Or In One Of  
 The SMSA/PSMAs Listed W/out A Star Under  
 The Variable "SMSA"

0006 LUC 73N Land Use Code 73N  
 1  
 1 Urban  
 2 Large Rural Farm  
 3 Small Rural Farm  
 4 Large Rural Nonfarm  
 5 Small Rural Nonfarm

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0007	LOT	73N-93N 74S-93S	Size Of Lot Which House/Apartment Is On 73N-83N 85N 87N-93N 74S-83S 84S-86S 87S-93S	<u>83N</u> 6	<u>83S</u> 6	<u>84S</u> 15	<u>85N</u> 16
			3 Don't Know 1-217799 1-435999 Number of Square Feet 217800 5 Acres or More 2 Less Than 10 Acres 1 435600 10 Acres Or More 999998 Not Answered 9 999999 999999 Not Applicable				
0008	CROPSL	76N-93N 77S-93S	Crop Sales \$1000 Or More In The Last 12 Months 76N-83N 77S-93S 85N-93N	<u>83N</u> 12	<u>83S</u> 12	<u>84S</u> C1	<u>85N</u> C1
			1 1 Yes 2 2 No 8 Not Answered 9 9 Not Applicable				
0009	CROP5	78N-83N	Crop Sales \$50 Or More In The Last 12 Months	<u>83N</u> 12	<u>83S</u> 12		
0010	CROP25	82S-83S	Crop Sales \$250 Or More In The Last 12 Months 1 Yes 2 No 9 Not Applicable	12	12		
0011	RURREC	74N-93N	Rural Recode 74N-83N 85N 87N 89N 91N 93N	<u>83N</u> G			<u>85N</u> G
			1 1 1 In the Basic National Sample 2 In Extra Sample of the Rural Portion of the SMSAs Listed Under the Variable SMSA. 2 In the Basic National Sample as Kernel of Cluster of 10 Neighbors 3 Neighbor Unit Note: 74N-83N, cases coded "1" form a complete sample of the country. The variable WEIGHT is adjusted properly so that if you analyze only cases coded "1" (weighting each case by WEIGHT), you will have an accurate representation of the entire country. Therefore, most analyses will only include cases coded "1" and exclude cases coded "2". Cases coded "2" are only on the file for certain specialized rural analyses, which are explained in Chapter 2.  In 1985, 1989 and 1993, a special sample of neighbors of urban AHS units is interviewed. (See Chapter 3). This sample contains about 680 clusters. Each cluster includes one randomly chosen urban AHS unit, and the ten homes closest to it. The neighbor units are coded 3. The basic AHS unit itself (center of the cluster) is coded RURREC=2. The eleven units which form a cluster can be grouped together by using the variable NEIGH below. Neighboring units (RURREC=3) have been assigned a weight of zero, while the center of the cluster unit is assigned the appropriate AHS weight (see Note below).  Most analyses will exclude these neighbor (RURREC = 3) units. Cases coded "1" and "2" form a complete sample.  In earlier versions of 85N, this variable was mis-classified with a "9" in every case.				
0012	NEIGH	85N 89N 93N	Code For Neighboring Units (Neighbor Unit Sample) 1-9998 Neighbor Code--all units in a cluster share same code 9999 Regular AHS units which are not the center of a Neighbor cluster. Note: On the CD-ROM Disk and early 1985 files, RURREC is always coded 9 and NEIGH is always 9999.				<u>85N</u> G

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

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

REF#	NAME	SURVEYS	DESCRIPTION		PAGE ON QUESTIONNAIRE
			73N	74N-83N	
0013	POP	73N-83N	Place Size		<u>83N</u> G
			1	1 5,000-19,999	
			2	2 20,000-49,999	
			3	50,000-99,999	
			4	100,000-249,999	
			5	250,000-499,999	
			6	500,000-999,999	
			7	1,000,000 Or More	
			9	0-5,000 Or Nonplace	
			9	0-5,000 Or Nonplace Or Inside SMSA	

REF#	NAME	SURVEYS	DESCRIPTION		PAGE ON QUESTIONNAIRE
			73N	74N-83N	
0014	PLACE	73N	Place Code of Central City		<u>73N</u> G
			0150	Atlanta	
			0025	Baltimore	
			0440	Boston	
			0450	Buffalo	
			1051	Chicago	
			0865	Cincinnati	
			0900	Cleveland	
			0960	Columbus	
			1085	Dallas	
			0320	Denver	
			0680	Detroit	
			1975	Houston	
			1145	Indianapolis	
			1000	Jacksonville	
			2220	Kansas City	
			1610	Long Beach, CA	
			1630	Los Angeles	
			0940	Memphis	
			1645	Milwaukee	
			2585	Minneapolis	
			1016	Nashville	
			0956	New Orleans	
			2505	New York	
			1970	Oakland, CA	
			1815	Oklahoma City	
			7180	Philadelphia	
			0260	Phoenix	
			7234	Pittsburgh	
			0905	Portland, OR	
			3745	San Antonio	
			2475	San Diego	
			2485	San Francisco	
			2510	San Jose	
			1140	Seattle	
			3875	St. Louis	
			0005	Washington, DC	
			4265	On Tape, Unidentified	
			9999	Other, Suppressed	

Note: Census documentation erroneously indicates that the code for Buffalo is 0405. The correct code for Buffalo is 0450, as listed here.

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

0015 SMSA 74N-93N Metropolitan Areas 83N 83S 84S 85N  
 74S-93S G G G G

The former variable name, SMSA, was retained in the file. Starting in 1984, however, this variable includes PMSA and MSA codes as appropriate. The 1971 boundaries are used for 1974 through 1983. The 1983 boundaries are used starting in 1984. The five first columns give the number of cases in Central City, Suburb or in Total to show which parts of each metropolitan area have been identified, until 1983 and later.

Number of Cases					Codes		
1983N		1985N		74N-83N	85N-93N		
CC	Tot	Sub	CC	Sub	74S-83S	84S-93S	
59		97	51		0080	0080	Akron, OH
55		121	69	49	0160	0160	Albany-Schenectady-Troy, N
	107		82		0200	0200	Albuquerque, NM
	141		60	33	0240	0240	Allentown-Bethlehem-Easton
				12	0275	0275	Alton-Granite City, IL
143		361	81	350	0360	0360	Anaheim-Santa Ana-Garden G
	58		30		0460	0460	Appleton-Oshkosh-Neenah, W
119		342	106	304	0520	0520	Atlanta, GA
				30	0560	0560	Atlantic City, NJ
	67			33	0600	0600	Augusta, GA-SC
	149		111		0640	0640	Austin, TX
	103		25	25	0680	0680	Bakersfield, CA
207		357	191	182	0720	0720	Baltimore, MD
	65		52	33	0760	0760	Baton Rouge, MD
	80		28		0840	0840	Beaumont-Port Arthur, TX
	76				0960		Binghamton, NY-PA
67		149	85	60	1000	1000	Birmingham, AL
151		472	198	327	1120	1120	Boston, MA
			36		1125	1125	Boulder-Longmont, CO
	100		48	50	1160	1160	Bridgeport-Milford, CT
111		211			1280		Buffalo, NY
	91		37	23	1320	1320	Canton, OH
	119			47	1440	1440	Charleston, SC
	125				1520		Charlotte-Gastonia-Rock Hi
	70		32	30	1560	1560	Chattanooga, TN-GA
740		950	646	530	1600	1600	Chicago, IL
117		243	91	135	1640	1640	Cincinnati, OH-KY-IN
171		313	122	234	1680	1680	Cleveland, OH
			67		(1720)	1720	Colorado Springs, CO
	84		13	45	1760	1760	Columbia, SC
147		111	136	51	1840	1840	Columbus, OH
	78		54		1880	1880	Corpus Christi, TX
276		274	292	130	1920	1920	Dallas, TX
	85		76		1960	1960	Davenport-Rock Island-Moli
	199				2000		Dayton-Springfield, OH
				41	2020	2020	Daytona Beach, FL
154		284	105		2080	2080	Denver, CO
	77		40		2120	2120	Des Moines, IA
285		653	323	491	2160	2160	Detroit
	72		32		2240	2240	Duluth, MN-WI
				15	2285	2285	East St. Louis-Belleville,
	87		78		2320	2320	El Paso, TX
	70		21		2360	2360	Erie, PA
			29		2400	2400	Eugene-Springfield, OR
			25		2440	2440	Evansville, IN-KY
	129		29	38	2640	2640	Flint, MI
	286		91	157	2680	2680	Fort Lauderdale-Hollywood-
				17	2700	2700	Fort Myers-Cape Coral, FL
	82		30		2760	2760	Fort Wayne, IN
102		174	152	61	2800	2800	Fort Worth-Arlington, TX
	124		47	35	2840	2840	Fresno, CA
60		95	56	37	2960	2960	Gary-Hammond, IN
	137		42	46	3000	3000	Grand Rapids, MI
110		94	66		3120	3120	Greensboro-Winston Salem-H
	95		21	46	3160	3160	Greenville-Spartanburg, SC
	119				3240		Harrisburg-Lebanon-Carlisi

(Continued On Next Page)

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE		
		165	29	3280	3280	Hartford, CT
66	115	77	43	3320	3320	Honolulu, HI
392	267	398	183	3360	3360	Houston, TX
	71			3400		Huntington-Ashland, WV-KY-
194	95	158	26	3480	3480	Indianapolis, IN
	67	35		3560	3560	Jackson, MS
	163	120		3600	3600	Jacksonville, FL
60	81	45	77	3640	3640	Jersey City, NJ
		27	31	3660	3660	Johnson City-Kingsport-Bri
	69			3680		Johnstown, PA
141	214	122	143	3760	3760	Kansas City, MO-KS
	135	56	35	3840	3840	Knoxville, TN
		17	44	3965		Lake County, IL
	78		18	4000	4000	Lakeland-Winter Haven, FL
	96	41		4040	4040	Lancaster, PA
	171	45	73	4120	4120	Lansing-East Lansing, MI
		20	17	4160	4160	Las Vegas, NV
		47		4280	4280	Lawrence-Haverhill, MA-NH
	112	66		4400	4400	Lexington-Fayette, KY
	65			4440	4440	Little Rock-North Little R
860	1023	802	712	4480	4480	Lorain-Elyria, OH
93	109			4520		Los Angeles-Long Beach, CA
	90	41		4720	4720	Louisville, KY-IN
		38				Madison, WI
			33			McAllen-Edinburgh-Mission,
	207	146	27	4920	4920	Melbourne-Titusville-Palm
95	353	143	233	5000	5000	Memphis, TN-AR-MS
		135		5015		Miami-Hialeah, FL
170	193	132	90	5080	5080	Middlesex-Somerset-Hunterd
184	281	198	219	5120	5120	Milwaukee, WI
	127	70		5160	5160	Minneapolis-St. Paul, MN
		26		5170		Mobile, AL
			158	5190	5190	Modesto, CA
		31		5240		Monmouth-Ocean, NJ
	174	103		5360	5360	Montgomery, AL
			462	5380	5380	Nashville, TN
	83	55	33	5480	5480	Nassau-Suffolk, NY
150	143	119	96	5560	5560	New Haven-Meriden, CT
978	863	1514	206	5600	5600	New Orleans, LA
77	336	68	259	5640	5640	New York City, NY
	68			5680		Newark, NJ
		229		5720	5720	Newport News-Hampton, VA
95	96			5720		Norfolk-Virginia Beach-New
		139	267	5775		Norfolk-Portsmouth, VA
133	81	120	73	5880	5880	Oakland, CA
	139	72	32	5920	5920	Oklahoma City, OK
	166	27	108	5960	5960	Omaha, NE-IA
	138	34	53	6000	6000	Orlando, FL
71	232			6040	6040	Oxnard-Ventura, CA
			42	6080	6080	Paterson-Clifton-Passaic,
	88	29	25	6120	6120	Pensacola, FL
458	709	445	476	6160	6160	Peoria, IL
212	238	296	71	6200	6200	Philadelphia, PA-NJ
124	442	88	262	6280	6280	Phoenix, AZ
124	241			6440	6440	Pittsburgh, PA
85	155	41	69	6480	6480	Portland, OR-WA
		86		(6640)	6640	Providence, RI
	90			6680	6680	Raleigh-Durham, NC
	157			6760		Reading, PA
78	148	57	87	6840	6840	Richmond-Petersburg, VA
	60	25		6880	6880	Rochester, NY
87	197	98	110	6920	6920	Rockford, IL
143	430	121	195	7040	7040	Sacramento, CA
			23	7090	7090	St. Louis, MO-IL
	70	29		7120	7120	Salem-Gloucester, MA
	161	69	111	7160	7160	Salinas-Seaside-Monterey,
	256	190	24	7240	7240	Salt Lake City-Ogden, UT
102	341	74	217	7280	6780	San Antonio, TX
238	263	226	175	7320	7320	Riverside-San Bernardino,
298	598	177	177	7360	7360	San Diego, CA
124	211	127	133	7400	7400	San Francisco, CA
	70	37		7480	7480	San Jose, CA
		26				Santa Barbara-Santa Maria-
			38	7500	7500	Santa Rosa-Petaluma, CA
			56	7510	7510	Sarasota, FL
		42		7560	7560	Scranton-Wilkes Barre, PA

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

184	274	138	159	7600	7600	Seattle, WA
	90	70		7680	7680	Shreveport, LA
	81			7800		South Bend-Mishawaka, IN
	99	51		7840	7840	Spokane, WA
	130	48	38	8000	8000	Springfield, MA
		31			8040	Stamford, CT
	104	38		8120	8120	Stockton, CA
	156	31	49	8160	8160	Syracuse, NY
	117	42	54	8200	8200	Tacoma, WA
152	270	156	239	8280	8280	Tampa-St. Petersburg-Clear
101	82	104	22	8400	8400	Toledo, OH
	77		24	8480	8480	Trenton, NJ
	127	95	38	8520	8520	Tucson, AZ
	171	82		8560	8560	Tulsa, OK
	77	29		8680	8680	Utica-Rome, NY
		45			8720	Vallejo-Fairfield-Napa, CA
178	620	195	443	8840	8840	Washington, DC-MD-VA
		17			8880	Waterbury, CT
	238	47	126	8960	8960	West Palm Beach-Boca Raton
	126	71		9040	9040	Wichita, KS
	85			9120		Wilkes-Barre-Hazleton, PA
	117			9160		Wilmington, DE-MD-NJ
	107	50	13	9240	9240	Worcester, MA
	76			9280		York, PA
	139	28	55	9320	9320	Youngstown-Warren, OH
				9999	9999	Non-Metro or Suppressed MS

Note: 9999 code not present in MSA tapes. Codes in parentheses are present in metropolitan surveys only.

0016 PMSA 84S-93S (P)MSA Code See Table 4 of this section. 84S  
G

0017 CMSA 85N-93N Consolidated Metropolitan Statistical Area 85N  
G

- 7 Boston-Lawrence-Salem, MA-NH
- 10 Buffalo-Niagara Falls, NY
- 31 Dallas-Ft. Worth, TX
- 34 Denver-Boulder, CO
- 41 Hartford-New Britain-Middletown, CT
- 49 Los Angeles-Anaheim-Riverside, CA
- 56 Miami-Ft. Lauderdale, FL
- 70 New York-Northern New Jersey-Long Island, NY-NJ-CT
- 78 Pittsburgh-Beaver Valley, PA
- 79 Portland-Vancouver, OR-WA
- 80 Providence-Pawtucket-Fall River, RI-MA
- 82 St. Louis-East St. Louis-Alton, MO-IL
- 91 Seattle-Tacoma, WA
- 99 CMSA not identified

0018 COUNTY 74S-93S County Codes See Table 4 of this section. 83S 84S  
G G

0019 STATE 74S-93S State Codes See Table 4 of this section. 83S 84S  
G G

0020 ZONE 84S-93S Socio-economically Homogeneous Area of Greater Than 100,000 Population 84S  
G

Note: Maps Showing Each Zone Can Be Purchased Through The AHSDP At Abt Associates.

Note Also That These Zones Are Not Intended for Use in Separate Analyses, but Rather As Analytic Building Blocks, Because the Limited Sample Size In Each Zone Will Preclude Reliable Results for Any Single Area. Zones will only be available in the MSA files. See Table 4 below.

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REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

84S  
G

0021 TRACT 84S-93S **Census Tract for 1970 Containing Case**  
 Note: Number Does Not Correspond To Real Census Tract Numbers To Preserve Confidentiality. If More Than 20 Sample Cases In Tract Then Cases Are Split Between Two Pseudo Tract Numbers With No More Than 20 Cases In Each Pseudo Tract. If a Tract Crosses a City Line, Each Section is Treated as a Separate Pseudo Tract.

## Suburban Infill Housing

*Project Sponsor/Designer: Edmund Burger  
 San Francisco,  
 California*

*Consultant: Geoffrey Barrett  
 Structural Engineer*

*Floor Areas: Unit A—578 sq. ft.  
 Unit B—878 sq. ft.  
 Unit C—1,089 sq. ft.  
 Unit D—1,288 sq. ft.  
 Unit E—1,201 sq. ft.*

This project offers an alternate solution to rising detached suburban housing costs through the use of higher-density planning and flexible means of construction completion.

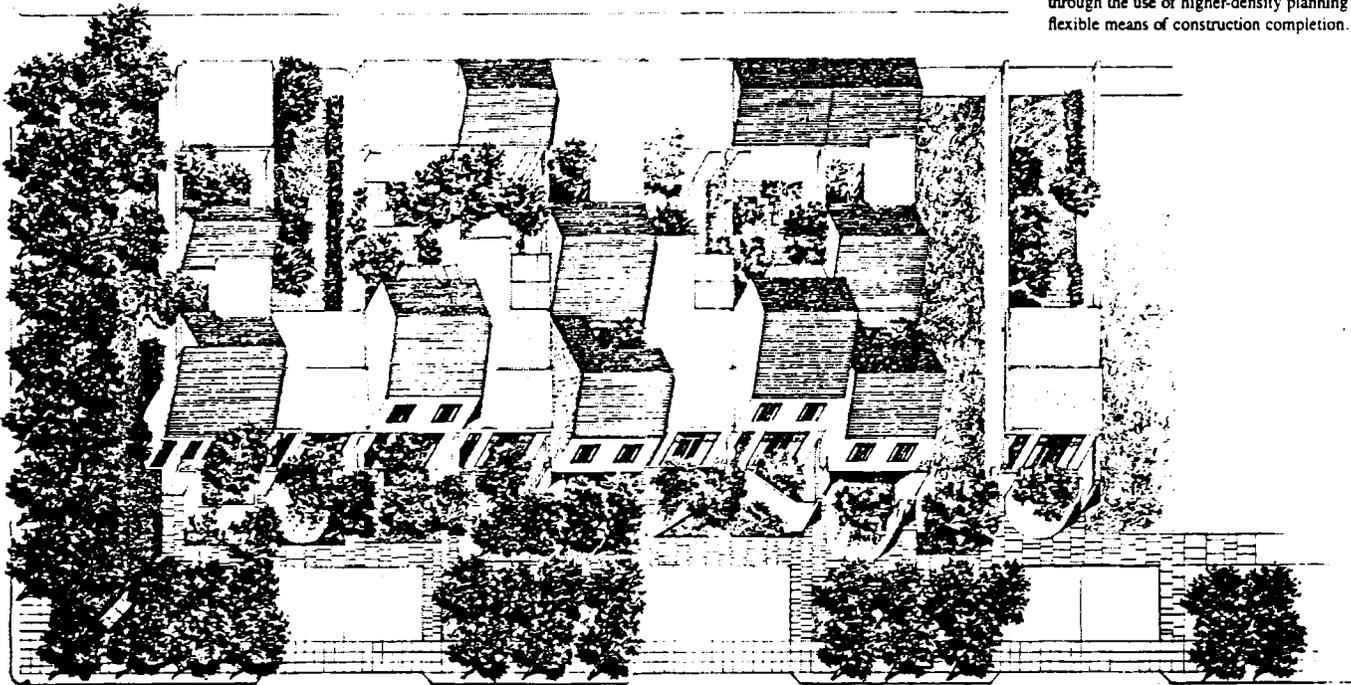


Table 4: GEOGRAPHIC CODES ON AHS MSA FILES

The following table provides a list of all the geographic areas identified on the MSA Tapes. Counties and parts of counties have been grouped together on the tapes to avoid identification of the respondents. Each group is described separately below, along with the codes for its geographic variables (SMSA, PMSA, STATE, COUNTY, ZONE, and METRO) and its sample size.

Below means the area is shown in more detail.  
 Above means the area is included in a line above.  
 Partly means a portion of the area was included earlier, but new area was added.  
 NA means the area was not interviewed in a particular wave.  
 Yes means the area was interviewed, but we do not yet know the sample size.

When a metro area grew after 1983, you may sometimes want data just for the old area: omit any new zones, for a zone that has partly new area and partly old, omit new cases, and multiply weights of the old cases in those zones by:

Birmingham	1.06
Memphis	1.02
Newport News	1.11
Providence	1.20

MSA NAME	S M S A	P M S A	S T T E	C O U N T Y	Z O N E	M E T R O	NUMBER OF CASES			
							FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
Albany-Schenectady-Troy, NY							(74) 5,464	(77) 5,182	(80) 5,736	NA
Albany, Schenectady & Troy Cities In Albany, Rensselaer, & Schenectady Counties	160			36	999	1	2,037	1,892	2,042	NA
Balance Albany, Schenectady, & Rensselaer Cos.; All Saratoga Co.	160			36	999	3	3,427	3,290	3,694	NA
Allentown-Bethlehem-Easton, PA-NJ							(76) 5,022	(80) 5,208	NA	NA
All Lehigh Co, PA Incl. Allentown	240			42	077	9	2,355	2,457	NA	NA
All Northampton Co., PA, Incl. Bethlehem & Easton Cities; All Warren Co., NJ	240			99	999	9	2,667	2,751	NA	NA
Anaheim-Santa Ana-Garden Grove PMSA							(74) 5,154	(77) 5,531	(81) 4,939	(86) 3,300
Anaheim, Santa Ana, & Garden Grove Cities in Orange County	360	360	06	999	1,2,104	1	1,447	1,449	1,219	Yes
Balance Orange County	360	360	06	999	101-110	3	3,707	4,082	3,720	Yes
Atlanta, GA MSA							(75) 15,002	(78) 15,537	(82) 4,250	(87) 3,300
Atlanta in Fulton & DeKalb Cos.	520	520	13	888		1	7,351	7,175	1,173	Below
Balance of Fulton & DeKalb Cos.	520	520	13	888		3	4,332	4,533	1,558	Below
All Cobb, Clayton, & Gwinnett Cos.	520	520	13	999		3	3,319	3,829	1,519	Below
Cobb County	520	520	13	067	102-103	3	Above	Above	Above	Yes
Butts, Coweta, Fayette, Henry & Spalding Counties	520	520	13	888	112	3	NA	NA	NA	Yes
Gwinnett County	520	520	13	135	105	3	Above	Above	Above	Yes
Barrow, Newton, Rockdale & Walton Counties	520	520	13	888	113	3	NA	NA	NA	Yes
Cherokee, Douglas, Forsyth & Paulding Counties	520	520	13	888	111	3	NA	NA	NA	Yes
Clayton County	520	520	13	063	110	3	Above	Above	Above	Yes
Baltimore, MD MSA							(76) 5,270	(79) 5,436	(83) 4,287	(87) 3,300
Baltimore City	720	720	24	510	001-006	1	2,092	2,027	1,626	Yes
Baltimore County	720	720	24	005	102-106	3	1,573	1,641	1,307	Yes
All Harford, Carroll, Howard, & Anne Arundel Counties	720			24	999	3	1,605	1,768	1,354	Below
Anne Arundel & Queen Anne's Cos.	720	720	24	888	109-111	3	Partly	Partly	Partly	Yes
Carroll & Howard Cos.	720	720	24	888	101,108	3	Above	Above	Above	Yes
Harford County	720	720	24	025	107	3	Above	Above	Above	Yes

MSA NAME	S M S A	P M S A	S T A E	C O U N T Y	Z O N E	M E T R O	NUMBER OF CASES			
							FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
Birmingham, AL MSA							(76) 5,235	(80) 5,408	(84) 4,250	(88) 3,300
Birmingham in Jefferson County	1000	1000	01	999		1	2,037	2,028	Yes	Yes
Balance Jefferson County; All Shelby, Walker Counties	1000		01	999		3	3,198	3,380	Below	Below
Balance Jefferson County	1000	1000	01	073	101-103	3	Above	Above	Yes	Yes
All Blount, St. Clair, Shelby, Walker Counties	1000	1000	01	993	104	3	Partly	Partly	Yes	Yes
Note: COUNTY * "073" from 84 on										
Boston-Lawrence-Lowell, MA-NH CMSA							(74) 15,969	(77) 15,245	(81) 5,701	(85) 3,800
Boston in Suffolk County	1120	1120	25	025	001-005	1	7,983	7,552	2,757	Yes
Balance Suffolk County, and parts of Essex, Middlesex, Norfolk, & Plymouth Counties	1120		25	999		3	7,987	7,693	2,944	Below
Balance Suffolk County, MA, All Essex County, MA, parts of Bristol, Middlesex, Norfolk, Plymouth, Worcester Cos, MA, parts of Hillsborough and Rockingham Cos, NH	1120	9999	99	999	101-126	3	Partly	Partly	Partly	Yes
Buffalo, NY CMSA							(76) 5,287	(79) 5,240	(84) 4,250	(88) 3,300
Buffalo in Erie County	1280	1280	36	999	001-003	1	1,871	1,766	Yes	Yes
Balance Erie Co.; Niagara Co.	1280		36	999		3	3,416	3,474	Below	Below
Balance Erie County	1280	1280	36	029	103-107	3	Above	Above	Yes	Yes
Niagara County	1280	5700	36	063	101-102	3	Above	Above	Yes	Yes
Chicago, IL							(75) 15,494	(79) 16,256	(83) 8,570	(87) 3,300
Chicago in Cook County	1600	1600	17	031	001-022	1	7,700	7,508	4,036	Yes
Balance Cook County	1600	1600	17	031	106-108	3	4,581	4,932	2,555	Yes
Du Page County	1600	1600	17	043	110-114 121-125 128-132 115-116 118-120 126	3	1,076	1,359	708	Yes
Kane County	1600	0620	17	089	109,117	3	555	614	305	Yes
Lake County	1600	3965	17	097	102-105	3	761	880	467	Yes
McHenry & Will Counties	1600		17	999		3	821	963	499	Below
Grundy, Kendall & Will Cos.	1600	9999	17	999	127 133-134	3	Above	Above	Above	Yes
McHenry Co. (NOTE: Part of Chicago, O'Hare Airport, is in Du Page County, but no one lives there. Therefore, "Chicago in Du Page County" is not separately identified.)	1600	1600	17	111	101	3	Above	Above	Above	Yes
Cincinnati, Oh-KY-IN							(75) 5,129	(78) 5,423	(82) 4,228	(86) 3,300
Cincinnati in Hamilton Co.; OH	1640	1640	39	061	001-004	1	1,798	1,332	1,332	Yes
Balance Hamilton Co., All Clermont, Warren Counties, OH	1640		39	999		3	2,247	2,497	1,978	Below
Dearborn Co., IN; Boone, Campbell, & Kenton Counties, KY	1640	1640	88	999	107-108	3	1,084	1,153	918	Yes
Balance Hamilton County	1640	1640	39	061	101-104	3	Above	Above	Above	Yes
Clermont & Warren Counties, OH	1640	1640	39	888	105-106	3	Above	Above	Above	Yes

MSA NAME	S M S A	P M S A	S T A E	C O U N T Y	Z O N E	M E T R O	NUMBER OF CASES			
							FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
							(76)	(79)	(84)	(88)
Cleveland, OH							5,229	5,215	4,250	3,300
Cleveland in Cuyahoga County	1680	1680	39	035	001-005	1	1,895	1,751	Yes	Yes
Balance Cuyahoga County	1680	1680	39	035	101-108	3	2,457	2,498	Yes	Yes
Geauga, Lake, and Medina Cos.	1680		39	999		3	877	966	Below	Below
Lake County	1680	1680	39	085	109	3	Above	Above	Yes	Yes
Medina and Geauga Cos.	1680	1680	39	992	110-111	3	Above	Above	Yes	Yes
							(75)	(78)	NA	NA
Colorado Springs, CO							5,204	5,477		
All El Paso County, Incl. Colorado Springs	1720		08	999		9	5,204	5,477		
							(75)	(78)	(82)	(87)
Columbus, OH							5,213	5,476	4,250	3,300
Columbus in Franklin County	1840	1840	39	999	001-004	1	3,252	3,290	2,505	Yes
Balance Franklin County	1840		39	999		3	1,961	2,186	1,745	Below
Delaware, Franklin & Pickaway Cos.	1840	1840	39	888	101 103-104	3	Partly	Partly	Partly	Yes
Fairfield & Madison Cos.	1840	1840	39	888	105	3	NA	NA	NA	Yes
Licking & Union Cos.	1840	1840	39	888	102	3	NA	NA	NA	Yes
							(74)	(77)	(81)	(85)
Dallas, TX							5,135	5,166	4,802	3,300
Dallas City in Dallas County	1920	1920	48	999	001-007	1	2,838	2,734	2,416	Yes
Irving City in Dallas County	1920	1920	48	999	008	1	Below	Below	Below	Yes
Balance Dallas Co., Collin, Denton, Ellis, Kaufman, & Rockwell Cos.	1920		48	999		3	2,297	2,432	2,386	Below
Balance Dallas County	1920	1920	48	113	103-106	3	Above	Above	Above	Yes
Collin County	1920	1920	48	085	102	3	Above	Above	Above	Yes
Denton County	1920	1920	48	121	101	3	Above	Above	Above	Yes
Ellis, Kaufman & Rockwell Cos.	1920	1920	48	999	107	3	Above	Above	Above	Yes
							(76)	(79)	(83)	(86)
Denver, CO							5,318	5,891	4,304	3,300
Denver City/County	2080	2080	08	031	001-004	1	2,069	2,092	1,477	Yes
Adams & Arapahoe Counties	2080		08	777		3	1,521	1,835	1,393	Below
Boulder & Jefferson Counties	2080		08	888		3	1,728	1,964	1,434	Below
Adams County	2080	2080	08	001	103	3	Above	Above	Above	Yes
Arapahoe County	2080	2080	08	005	104	3	Above	Above	Above	Yes
Boulder County	2080	1125	08	013	105	3	Above	Above	Above	Yes
Douglas & Jefferson Counties	2080	2080	08	999	101-102	3	Partly	Partly	Partly	Yes
							(74)	(77)	(81)	(85)
Detroit, MI							15,273	14,286	5,299	6,600
Detroit in Wayne County	2160	2160	26	163	001-007	1	7,626	6,767	2,386	Yes
Balance Wayne County	2160	2160	26	163	112-119	3	3,207	3,038	1,144	Yes
Macomb County	2160	2160	26	099	109-111	3	1,702	1,715	669	Yes
Oakland County	2160	2160	26	125	102-108	3	2,738	2,766	1,100	Yes
Livingston County	2160	2160	26	093	102	3	NA	NA	NA	Yes
Monroe County	2160	2160	26	115	120	3	NA	NA	NA	Yes
Lapeer & St. Clair Counties	2160	2160	26	999	101	3	NA	NA	NA	Yes
							(74)	(77)	(81)	(85)
Ft. Worth-Arlington, TX PMSA							5,311	5,443	5,137	3,300
Ft. Worth in Tarrant County	2800	2800	48	439	001-003	1	2,670	2,556	2,179	Yes
Balance Tarrant Co., Johnson Co.	2800		48	999		3	2,641	2,887	2,958	Below
Arlington in Tarrant County	2800	2800	48	439	004	1	Above	Above	Above	Yes
Balance Tarrant Co., & Johnson and Parker Cos.	2800	2800	48	999	101-102	3	Partly	Partly	Partly	Yes
							(76)	(80)	NA	NA
Grand Rapids, MI							5,145	5,441	NA	NA
All Ken County Incl. Grand Rapids; All Ottawa County	3000		26	999		9	5,145	5,441	NA	NA

MSA NAME	S M S A	P M S A	S T A E	C O U N T Y	Z O N E	M E T R O	NUMBER OF CASES			
							FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
Hartford, CT							(75) 5,248	(79) 5,494	(83) 4,287	(87) 3,300
All Hartford County Incl. Hartford City; Balance MSA (Portions of Tolland & Middlesex--See Map in Current Housing Reports.)	3280		09	999		9	5,248	5,494	4,287	Below
Hartford City in Hartford County	3280	3280	09	003	001	1	Above	Above	Above	Yes
Balance Hartford County, Portions of Litchfield, Middlesex, New London & Tolland Counties	3280	9999	09	999	101-106	3	Partly	Partly	Partly	Yes
Honolulu, HI							(76) 5,048	(79) 5,155	(83) 4,274	NA
Honolulu City in Honolulu County	3320		15	999		1	2,717	2,748	2,150	NA
Balance Honolulu County (Oahu Is.)	3320		15	999		3	2,330	2,407	2,124	NA
Houston, TX							(76) 17,386	(79) 19,360	(83) 4,165	(87) 3,300
Houston in Harris County	3360	3360	48	999	001-010	1	7,905	8,375	2,329	Yes
Balance Harris Co., All Brazoria, Fort Bend, Liberty, Montgomery Counties	3360		48	999		3	9,478	10,985	1,836	Below
Balance Harris Co., Fort Bend, Liberty, Montgomery, and Walker Cos.	3360	3360	48	999	101-105	3	Partly	Partly	Partly	Yes
Brazoria County	3360	1145	48	039	106	3	Above	Above	Above	Yes
Indianapolis, IN							(76) 5,224	(80) 5,363	(84) 4,250	(88) 3,300
Indianapolis in Marion County	3480	3480	18	997	001-005	1	3,479	3,489	Yes	Yes
Balance Marion County; All Boone Hamilton, Hancock, Hendricks, Johnson, Morgan, & Shelby Cos.	3480		18	999		3	1,745	1,874	Below	Below
Balance Marion County	3480	3480	18	097	001-005	3	Above	Above	Yes	Yes
Boone & Hendricks Cos.	3480	3480	18	996	101	3	Above	Above	Yes	Yes
Hamilton & Hancock Cos.	3480	3480	18	995	102	3	Above	Above	Yes	Yes
Johnson, Morgan & Shelby Cos.	3480	3480	18	994	103	3	Above	Above	Yes	Yes
Kansas City, MD-KS							(75) 5,156	(78) 5,374	(82) 4,085	(86) 3,300
Kansas City in Clay, Jackson & Platte Counties, MO	3760	3760	29	999	001-003	1	2,186	2,136	1,563	Yes
Balance Clay, Jackson, Platte Cos., MO; All Cass Co., MO	3760		29	999		3	1,420	1,563	1,218	Below
Johnson, Wyandotte Counties, KS	3760		20	999		3	1,540	1,675	1,304	Below
Balance Jackson Co., MO	3760	3760	29	095	102-103	3	Above	Above	Above	Yes
Balance Clay & Platte Cos., MO, Cass, Lafayette, & Ray Cos., MO	3760	3760	29	999	101	3	Partly	Partly	Partly	Yes
Johnson, Leavenworth, Miami & Wyandotte Cos., KS	3760	3760	20	999	104-106	3	Partly	Partly	Partly	Yes
(NOTE: Kansas City, KS is not a central city. It is wrongly shown as a central city on the map in the 1975 SMSA Volume.)										
Las Vegas, NV							(76) 5,400	(79) 6,983	NA	NA
All Clark Co., Incl. Las Vegas	4120		32	999		9	5,400	6,983	NA	NA
Los Angeles-Long Beach, CA							(74) 15,561	(77) 14,538	(80) 14,918	(85) 6,600
Los Angeles City in Los Angeles Co.	4480	4480	06	037	001-020	1	6,818	6,370	6,537	Yes
Long Beach in Los Angeles County	4480	4480	06	037	021-023	2	967	889	903	Yes
Balance Los Angeles County	4480		06	037	101-121	3	7,776	7,279	7,478	Yes
Pasadena City in Los Angeles Co.	4480	4480	06	037	012	3	Above	Above	Above	Yes
Burbank & Pomona Cities in LA Co.	4480	4480	06	037	009	3	Above	Above	Above	Yes
Louisville, KY-IN							(76) 5,258	(80) 5,352	(83) 4,276	NA
Louisville in Jefferson Co., KY	4520		99	999		1	2,276	2,203	1,779	NA
Balance Jefferson Co., KY, All Clark & Floyd Counties, IN	4520		99	999		3	2,982	3,149	2,497	NA

MSA NAME	S M S A	P M S A	S T T E	C O U N T Y	Z O N E	M E T R O P O L I T A N	NUMBER OF CASES			
							FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
Madison, WI							(75) 5,394	(77) 5,258	(81) 4,604	NA
All Dane County Incl. Madison	4720		55	999		9	5,394	5,258	4,604	NA
Memphis, TN-AR							(74) 4,462	(77) 4,936	(80) 5,452	(84) 4,257
All Shelby Co, TN, Incl. Memphis, All Crittenden County, AR	4920		99	999		9	4,462	4,936	5,452	Below
Memphis in Shelby County, TN	4920	4920	47	157	001-005	1	Above	Above	Above	Yes
Balance Shelby Co., Tipton Co., TN, Crittenden Co., AR, DeSoto Co., MS	4920	4920	99	999	101	3	Partly	Partly	Partly	Yes
Miami-Fort Lauderdale, FL CMSA							(75) 5,010	(79) 5,575	(83) 4,258	(86) 3,300
Miami in Dade County	5000	5000	12	999	001-003	1	1,215	1,243	915	Yes
Fort Lauderdale in Broward Co.	2680		12	999	004	3	NA	NA	NA	Yes
Hollywood City in Broward Co.	2680		12	999	005	3	NA	NA	NA	Yes
Balance Dade County	5000	5000	12	025	101-108	3	3,795	4,332	3,343	Yes
Balance Broward County	2680		12	011	109	3	NA	NA	NA	Yes
Milwaukee, WI							(75) 5,229	(79) 5,541	(84) 4,250	(88) 3,300
Milwaukee City in Milwaukee County	5080	5080	55	079	001-006	1	2,709	2,712	Yes	Yes
Balance Milwaukee County	5080	5080	55	079	101,102	3	1,218	1,301	Yes	Yes
Waukesha, Washington & Ozaukee Cos.	5080		55	999		3	1,308	1,528	Below	Below
Waukesha County	5080	5080	55	133		104	3	Above	Above	Yes
Washington & Ozaukee Cos.	5080	5080	55	999		103	3	Above	Above	Yes
Minneapolis-St. Paul, MI							(74) 5,040	(77) 4,827	(81) 4,330	(85) 3,800
Minneapolis in Hennepin County	5120	5120	27	053	001-003	1	1,357	1,194	989	Yes
Balance Hennepin County	5120	5120	27	053	101-104	3	1,338	1,363	1,254	Yes
St. Paul in Ramsey County	5120	5120	27	999	004-005	2	909	799	671	Yes
Balance Ramsey County, all Anoka Dakota, Washington Cos.	5120		27	999		3	1,436	1,471	1,416	Below
Balance Ramsey County	5120	5120	27	123	105	3	Above	Above	Above	Yes
Anoka Co., MN	5120	5120	27	003	106	3	Above	Above	Above	Yes
Dakota Co., MN	5120	5120	27	037	107	3	Above	Above	Above	Yes
Washington Co., MN	5120	5120	27	163	108	3	Above	Above	Above	Yes
Carver, Chisago, Isanti, Scott & Wright Cos., MN, and St. Croix Co., WI	5120	5120	99	999	109	3	NA	NA	NA	Yes
New Orleans, LA							(75) 5,168	(78) 5,550	(82) 4,281	(86) 3,300
New Orleans City in Orleans Parish	5560		22	071		1	2,769	2,762	2,059	Below
Balance Orleans Parish; All Jefferson, St. Bernard, & Tammany Parishes	5560		22	999		3	2,399	2,788	2,222	Below
Orleans Parish	5560	5560	22	071	001-005	1	Above	Above	Above	Yes
St. Tammany Parish	5560	5560	22	103	101	3	Above	Above	Above	Yes
Jefferson, St. Bernard, St. Charles & St. John the Baptist Parishes	5560	5560	22	999	102-104	3	Partly	Partly	Partly	Yes
New York-Nassau-Suffolk, NY PMSAs							(76) 16,121	(80) 14,823	(83) 8,573	(87) 3,300
Bronx County in New York City	5600	5600	36	005	001-010	1	1,389	1,243	994	Yes
Kings Co (Brooklyn) in NYC	5600	5600	36	047	035-052	1	2,387	2,159	1,759	Yes
New York Co (Manhattan) in NYC	5600	5600	36	061	011-020	1	2,013	1,833	1,522	Yes
Queens County in New York City	5600	5600	36	081	021-034	1	1,892	1,681	1,402	Yes
Nassau County	5600	5380	36	059	107-118	3	2,833	2,616	922	Yes
Richmond County (Staten Is.) NYC	5600	5600	36	085	053-055	1	272	262	217	Yes
Suffolk County	5600	5380	36	103	119-128	3	2,727	2,633	936	Yes
Rockland & Westchester Counties	5600		36	999		3	2,624	2,396	821	Below
Rockland County	5600	5600	36	087	102	3	Above	Above	Above	Yes
Westchester County	5600	5600	36	119	103-106	3	Above	Above	Above	Yes
Orange & Putnam Cos.	5600	9999	36	999	101	3	NA	NA	NA	Yes

MSA NAME	S M S A	P M S A	S T T E	C O U N T Y	Z O N E	M E T R O	NUMBER OF CASES			
							FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
Newark, NJ--Northeastern NJ							(74)	(77)	(81)	(87)
Newark in Essex County	5640	5640	34	013	001-003	1	5,100	4,819	3,946	3,300
Balance Essex County	5640	5640	34	013	116-120	3	1,006	928	723	Yes
Morris County	5640	5640	34	027	102-105	3	1,581	1,511	1,218	Yes
Union County	5640	5640	34	029	121-124	3	1,046	1,042	902	Yes
Jersey City City in Hudson Co.	5640	5640	34	029	121-124	3	1,467	1,338	1,103	Yes
Paterson City in Passaic Co.	3640	0875	34	031	005	1	NA	NA	Yes	Yes
Bergen Co.	3640	0875	34	003	108-113	3	**	**	Yes	Yes
Balance Hudson County	3640	3640	34	017	114-115	3	NA	NA	Yes	Yes
Middlesex Co.	3640	5015	34	023	126-129	3	NA	NA	Yes	Yes
Monmouth Co.	3640	5190	34	025	130-133	3	NA	NA	Yes	Yes
Ocean Co.	3640	5190	34	029	134-135	3	NA	NA	Yes	Yes
Balance Passaic County	3640	0875	34	031	106-107	3	**	**	Yes	Yes
Sussex Co.	3640	5640	34	037	101	3	NA	NA	Yes	Yes
Hunterdon & Somerset Cos.	3640	5015	34	999	125	3	NA	NA	Yes	Yes
Norfolk-VA Beach-Newport News, VA MSA							(75)	(78)	(84)	(88)
All York County, Incl. Newport News & Hampton	5680		51	999		9	4,597	4,615	4,250	3,300
Norfolk City	5680	5720	51	710	001	1	4,597	4,615	NA	NA
Virginia Beach City	5680	5720	51	810	002	1	NA	NA	Yes	Yes
Newport News City	5680	5720	51	700	003	1	NA	NA	Yes	Yes
Portsmouth City	5680	5720	51	740	004	1	NA	NA	Yes	Yes
Chesapeake & Suffolk Cities	5680	5720	51	999	101	3	NA	NA	Yes	Yes
Gloucester Co., James City, York Co., Hampton City, Poquoson City & Williamsburg City	5680	5720	51	999	102	3	NA	NA	Yes	Yes
Oklahoma City, OK							(76)	(80)	(84)	(88)
Oklahoma City in Oklahoma, Canadian & Cleveland Counties	5880	5880	40	999	001-003	1	5,328	5,698	4,250	3,300
Balance Oklahoma, Canadian & Cleveland Counties	5880		40	999		3	3,109	3,208	Yes	Yes
Balance Oklahoma, Canadian & Cleveland Counties; Logan, McClain & Pottawatomie Cos.	5880	5880	40	988	101-103	3	2,219	2,490	Below	Below
Omaha, NB							(76)	(79)	NA	NA
All Douglas County, Incl. Omaha, All Pottawattamie & Sarpy Cos.	5920		99	999		9	5,218	5,323	NA	NA
Orlando, FL							(74)	(77)	(81)	NA
All Orange County Incl. Orlando, All Seminole County	5960		12	999		9	5,136	5,118	4,659	NA
Paterson-Clifton-Passaic, NJ							(75)	(78)	(82)	***
Paterson, Clifton, & Passaic Cities in Passaic County	6040		34	999		1	5,175	5,280	4,265	***
Balance Passaic Co, All Bergen Co.	6040		34	999		3	1,120	1,115	1,100	***
Philadelphia, PA-NJ							(75)	(78)	(82)	(85)
Philadelphia City/County, PA	6160	6160	42	101	001-013	1	15,659	16,327	4,246	6,600
Bucks County, PA	6160	6160	42	017	105-107	3	7,745	7,827	1,613	Yes
Chester County, PA	6160	6160	42	029	108-110	3	1,174	1,305	447	Yes
Delaware County, PA	6160	6160	42	045	111-114	3	769	919	303	Yes
Montgomery County, PA	6160	6160	42	091	101-104	3	1,553	1,584	464	Yes
Camden County, NJ	6160	6160	34	007	118-121	3	1,787	1,872	567	Yes
Gloucester & Burlington Cos, NJ	6160		34	999		3	1,280	1,352	389	Yes
Burlington Co., NJ	6160	6160	34	005	115-117	3	1,351	1,468	463	Below
Gloucester Co., NJ	6160	6160	34	015	122	3	Above	Above	Above	Yes

\*\*Formerly included in the Paterson area

\*\*\*Starting in 1987, the Paterson-Clifton-Passaic area is included under the Newark-Northern New Jersey area.

MSA NAME	S M S A	P M S A	T A T E	S U T T E Y	C O U N T Y	Z O N E	M E T R O	NUMBER OF CASES			
								FIRST	SECOND	THIRD	FOURTH
								WAVE	WAVE	WAVE	WAVE
Phoenix, AZ								(74)	(77)	(81)	(85)
Phoenix in Maricopa County	6200	6200	04	999	001-006	1		5,270	5,565	5,612	3,300
Balance Maricopa County	6200	6200	04	999	101-103	3		2,936	2,767	2,551	Yes
Tempe City in Maricopa County	6200	6200	04	999	007	1		2,334	2,798	3,061	Yes
Mesa City in Maricopa County	6200	6200	04	999	008	1		Above	Above	Above	Yes
Pittsburgh, PA								(74)	(77)	(81)	(86)
Pittsburgh in Allegheny County	6280	6280	42	003	001-004	1		5,301	4,902	4,150	3,300
Balance Allegheny County	6280	6280	42	003	102-107	3		1,231	1,107	896	Yes
Beaver & Washington Counties	6280		42	999		3		2,323	2,148	1,837	Yes
Westmoreland County	6280	6280	42	129	109	3		909	843	713	Below
Beaver Co.	6280	0845	42	007	101	3		838	804	704	Yes
Fayette Co.	6280	6280	42	051	110	3		Above	Above	Above	Yes
Washington Co.	6280	6280	42	125	108	3		NA	NA	NA	Yes
Portland, OR								(75)	(79)	(83)	(86)
Portland in Multnomah County	6440	6440	99	999	001-003	1		5,237	6,097	4,214	3,300
Balance Multnomah Co, All	6440		99	999		3		1,932	1,979	1,367	Yes
Clackamas, Clark & Washington Cos								3,305	4,118	2,847	Below
Clark County	6440	8725	41	011	101	3		Above	Above	Above	Yes
Washington & Yamhill Counties	6440	6440	41	999	102	3		Partly	Partly	Partly	Yes
Balance Multnomah Co. & All	6440	6440	41	999	103-104	3		Above	Above	Above	Yes
Clackamas Co.											
Providence-Warwick-Pawtucket, RI-MA								(76)	(80)	(84)	(88)
Providence & Pawtucket Cities in	6480	9999	99	999	001-003	1		5,345	5,408	4,250	3,300
Providence Co, RI; Warwick City								2,094	2,048	Yes	Yes
in Kent Co, RI											
Part of Providence County;	6480	9999	99	999	101-105	3		3,251	3,360	Yes	Yes
Part of Kent County; All											
Washington & Bristol Cos, RI;											
Portions of Bristol, Norfolk, &											
Worcester Cos, MA (See Map in											
SMSA Volume for changes in											
coverage.)											
Raleigh, NC								(76)	(79)	NA	NA
All of Wake County, Incl. Raleigh	6640		37	999		9		5,761	6,239		
								5,761	6,239		
Rochester, NY								(75)	(78)	(82)	(86)
Rochester in Monroe County	6840	6840	36	999	001	1		5,352	5,550	4,210	3,300
Balance Monroe County,	6840		36	999		3		1,837	1,789	1,324	Yes
Livingston, & Orleans Cos.								3,515	3,761	2,886	Below
Balance Monroe County	6840	6840	36	055	101-104	3		Above	Above	Above	Yes
Livingston, Ontario, Orleans &	6840	6840	36	999	105	3		Partly	Partly	Partly	Yes
Wayne Counties											
Sacramento, CA								(76)	(80)	(83)	NA
Sacramento City in Sacramento Co.	6920		06	999		1		5,277	6,112	4,308	NA
Balance Sacramento County; All	6920		06	999		3		1,606	1,763	1,253	NA
Placer & Yolo Counties								3,671	4,349	3,055	NA
Saginaw, MI								(74)	(77)	(80)	NA
All Saginaw County including	6960		26	999		9					
Saginaw City									4,951	5,481	NA

MSA NAME	S M S A	P M S A	S T T E	C O U N T Y	Z O N E	M E T R O	NUMBER OF CASES			
							FIRST	SECOND	THIRD	FOURTH
							WAVE	WAVE	WAVE	WAVE
							(76)	(80)	(83)	(87)
St. Louis, MO-IL							15,809	14,138	4,301	3,300
St. Louis City, MO	7040	7040	29	510	001-004	1	7,730	6,326	1,164	Yes
St. Louis County, MO	7040	7040	29	189	102-108	3	4,262	4,115	1,602	Yes
All Jefferson, St. Charles, & Franklin Counties, MO	7040		29	999		3	1,443	1,487	615	Below
Madison County, IL	7040		17	119		3	1,126	1,063	413	Below
St. Clair County, IL	7040		17	163		3	1,248	1,147	507	Below
Jefferson Co., MO	7040	7040	29	099	109	3	Above	Above	Above	Yes
Franklin & St. Charles Cos., MO	7040	7040	29	999	101	3	Above	Above	Above	Yes
Clinton, Monroe & St. Clair Counties, IL	7040	9999	17	999	110-111	3	Partly	Partly	Partly	Yes
Jersey & Madison Counties, IL	7040	0275	17	999	112-113	3	Partly	Partly	Partly	Yes
							(74)	(77)	(80)	(84)
Salt Lake City, UT							5,210	5,491	6,705	4,250
All Salt Lake County, Incl. Salt Lake City; All Davis County	7160		49	999		9	5,210	5,491	6,705	Below
Salt Lake City	7160	7160	49	035	001	1	Above	Above	Above	Yes
Balance Salt Lake County	7160	7160	49	035	101-102	3	Above	Above	Above	Yes
Davis County	7160	7160	49	011	103	3	Above	Above	Above	Yes
Weber County	7160	7160	49	057	104	3	NA	NA	NA	Yes
							(75)	(78)	(82)	(86)
San Antonio, TX							5,303	5,579	4,285	3,300
All Bexar County, Incl. San Antonio; All Guadalupe County	7240		48	999		9	5,303	5,579	4,285	Below
San Antonio City in Bexar County	7240	7240	48	029		1	Above	Above	Above	Yes
Balance Bexar Co; Comal & Guadalupe Counties	7240	7240	48	999		3	Partly	Partly	Partly	Yes
							(75)	(78)	(82)	(86)
San Bernardino-Riverside-Ontario, CA							5,310	6,398	4,131	3,300
San Bernardino & Ontario Cities in San Bernardino County, Riverside City in Riverside County	7280	7280	06	999	001-002	1	1,269	1,415	1,030	Yes
Balance San Bernardino & Riverside Counties	7280		06	999		3	4,041	4,983	3,101	Below
Balance San Bernardino County	7280	7280	06	071	101-104	3	Above	Above	Above	Yes
Balance Riverside County	7280	7280	06	065	105-107	3	Above	Above	Above	Yes
							(75)	(78)	(82)	(87)
San Diego, CA							4,908	5,841	4,215	3,300
San Diego City in San Diego County	7320	7320	06	999	001-005	1	2,453	2,749	1,978	Yes
Balance San Diego County	7320	7320	06	999	101-105	3	2,455	3,092	2,237	Yes
							(75)	(78)	(82)	(85)
San Francisco-Oakland, CA							15,458	16,169	4,251	6,600
San Francisco City in San Francisco County	7360	7360	06	075	001-006	1	5,225	5,293	880	Yes
Oakland in Alameda County	7360	5775	06	001	007	2	2,456	2,445	386	Yes
Balance Alameda County	7360	5775	06	001	108-111	3	2,660	2,874	1,092	Yes
San Mateo County	7360	7360	06	081	112-115	3	2,133	2,243	764	Yes
Contra Costa & Marin Counties	7360		06	999		3	2,984	3,314	1,129	Below
Contra Costa County	7360	5775	06	013	103-107	3	Above	Above	Above	Yes
Marin County	7360	7360	06	013	101-102	3	Above	Above	Above	Yes
							NA	NA	NA	(84)
San Jose, CA							NA	NA	NA	4,250
San Jose City	7400	7400	06	999		1	NA	NA	NA	Yes
Santa Clara County	7400	7400	06	085		3	NA	NA	NA	Yes

MSA NAME	S M S A	P M S A	S T T E	C O U N T Y	Z O N E	M E T R O	NUMBER OF CASES			
							FIRST	SECOND	THIRD	FOURTH
							WAVE	WAVE	WAVE	WAVE
Seattle-Everett-Tacoma CMSA							(76) 15,909	(79) 17,656	(83) 4,236	(87) 3,300
Seattle in King County; Everett in Snohomish County	7600	7600	53	999	001-005	1	7,673	7,668	1,654	Yes
Tacoma City in Pierce County	7600	8200	53	995	006	1	**	**	**	Yes
Balance Pierce County	7600	8200	53	053	109-110	3	**	**	**	Yes
Balance King and Snohomish Cos.	7600	7600	53	999	101-108	3	8,236	9,988	2,582	Yes
Spokane, WA							(74) 5,242	(77) 5,213	(81) 4,746	NA
All Spokane Co. Incl. Spokane City	7840		53	999		9	5,242	5,213	4,746	NA
Springfield-Chicopee-Holyoke, MA							(75) 5,743	(78) 5,811	NA	NA
Springfield, Chicopee, & Holyoke In Hampden Co. Portion of Hampden, Hampshire, Worcester, & Tolland Cos. (See Map in Published SMSA Volume)	8000		99	999		9	5,743	5,811	NA	NA
Tacoma, WA							(74) 5,395	(77) 5,389	(81) 4,863	***
All Pierce County, Incl. Tacoma	8200		53	999		9	5,395	5,389	4,863	
Tampa-St. Petersburg, FL							NA	NA	NA	3,800
Tampa City in Hillsborough Co.	8280	8280	12	999	001-002		NA	NA	NA	Yes
St. Petersburg in Pinellas Co.	8280	8280	12	999	003-004		NA	NA	NA	Yes
Balance Pinellas County	8280	8280	12	999	102-105		NA	NA	NA	Yes
Balance Hillsborough County	8280	8280	12	999	106-108		NA	NA	NA	Yes
Hernando & Pasco Counties	8280	8280	12	999	101		NA	NA	NA	Yes
Washington, DC-MD-VA							(74) 15,687	(77) 14,991	(81) 5,798	(85) 6,600
Washington, DC	8840	8840	11	001	001-005	1	7,900	7,335	2,723	Yes
Arlington Co & Alexandria City	8840		51	001		3	1,270	1,225	472	Below
Falls Church & Fairfax Cities Fairfax, Prince William, & Loudoun Counties, VA	8840		51	002		3	2,399	2,469	1,043	Below
Montgomery County, MD	8840	8840	24	031	102-105	3	1,952	1,881	771	Yes
Prince Georges County, MD	8840	8840	24	033	106-110	3	2,166	2,081	789	Yes
Frederick County, MD	8840	8840	24	021	101	3	NA	NA	NA	Yes
Arlington County, VA	8840	8840	51	013	006	3	Above	Above	Above	Yes
Alexandria City, VA	8840	8840	51	510	112	3	Above	Above	Above	Yes
Calvert & Charles Cos., MD	8840	8840	24	999	111	3	NA	NA	NA	Yes
Fairfax City & County, & Falls Church City, VA	8840	8840	51	999	113-116	3	Above	Above	Above	Yes
Loudoun Co., Prince William Co., Stafford Co., Manassas City, & Manassas Park City, VA	8840	8840	51	999	117	3	Partly	Partly	Partly	Yes
Wichita, KS							(74) 5,343	(77) 5,343	(81) 4,587	NA
All Sedgwick County, Incl. Wichita; All Butler County	9040		20	999		9	5,343	5,343	4,587	

\*\*Formerly included in the Tacoma area  
 \*\*\*Tacoma is now included with the Seattle-Everett-Tacoma CMSA

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.

**Plans**

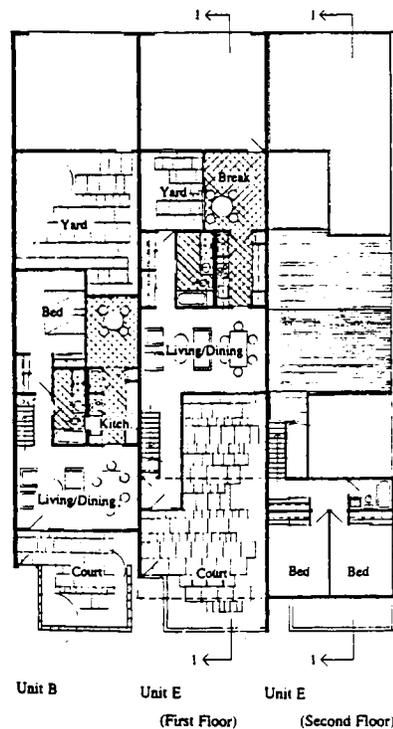
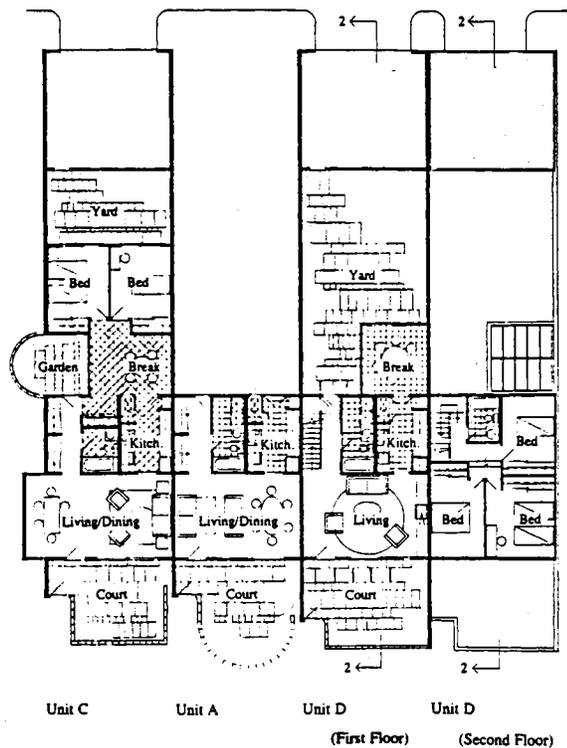
Fundamental to the concept is the establishment of reinforced concrete block party walls subdividing the developer's parcel into 100' long lots. One end of these walls abuts a principal access street, while the other terminates at a service alley running behind

each lot.

Each 20' lot width is modularly coordinated to accommodate standard building materials and can be infilled with studios, and one, two, and three bedroom units of one or two stories. A uniform one story streetwall screens

the empty lots and ongoing construction from community view. By this scheme the developer/builder can sell lots at various stages of development, ranging from empty lots with only basic site services to completed houses of varying size and plan. The homeowner has a corresponding advantage of reducing initial

costs by self-constructing all or a portion of his own house.



GENERAL

This section documents a broad range of data items. Basic unit data include occupancy status, tenure status, and building descriptors such as the size and age of the unit, the type of living quarters present, the number of floors, and the presence of nonresidential units within the building. Other data include the number of household cars, the availability of parking facilities, and the presence of elevators. Items on the general characteristics of previous residence are included in the Mobility section. The information contained in this section, together with the information presented in the Geography and Sample Status sections, is especially relevant for selecting cases to be included in a specific analysis. The variables documented in this section are, for the most part, available for all units in the sample. Exceptions are indicated in the documentation of specific variables.

## Eligible Housing Unit

At the time the sample was selected, living quarters were classified as either housing units or group quarters. Housing units are included in the Annual Housing Survey; group quarters are not.

Housing Units--A housing unit is a house, an apartment, a group of rooms, a single room, a trailer, a tent, or a boat, occupied or intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants (1) live and eat separately from all other persons in the structure and (2) have 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. Living quarters do not have direct access if the only entrance to the unit is through a room or hall of another unit. Any group of rooms which has no direct access is combined with the unit it is entered through. Units whose occupants live or eat with occupants of another unit similarly are combined with the other unit. Thus the occupants of a unit 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 Other Units below).

Vacant units intended for occupancy as separate living quarters are housing units if they have direct access. Both occupied units and vacant units intended for occupancy are counted in the housing inventory. Vacant mobile homes, cabins, tents, or boats which are intended for occupancy are included. Vacant sites for trailers or tents, however, are not counted as housing units. Similarly, houseboats, yachts, travel trailers or campers used only for vacations or for overflow sleeping quarters are not part of the inventory.

These definitions conform to the definitions used in the 1980 Census. In the 1970 Census, slightly different definitions were used. When the AHS survey was first designed in 1973, it used the 1970 Census definitions, which differed on two points from the definitions presented above. A housing unit did not need to have direct access, as long as it had complete kitchen facilities for the exclusive use of the occupants. Mobile homes, trailers, tents, caves, boats, railroad cars, and the like, were not counted if they were URE1 or vacant. (They appeared on the AHS data tapes with a weight of zero.) When the Census Bureau modified its definition for the 1980 Census, these changes were not immediately implemented in the AHS. The 1970 definitions continued to be used through 1983. The new definitions were adopted for the 1984 and subsequent surveys. Therefore users must be aware of differences in definitions between the AHS data collected before 1984 and the AHS data for subsequent years. Furthermore, users interested in comparing data from the AHS and data from the Census must remember that the definitions for the 1980-1983 AHS surveys differ from the definitions used in the 1980 Census.

Other Units--Other units are located in special places, such as institutions, student dormitories, and boarding houses, where the residents have their own room, group of rooms, or beds and also have some common facilities, such as dining halls, lobbies, living rooms, or recreational areas. Some of the rooms or groups of rooms in these places are always classified as other units, even though they have direct access. Other rooms or groups of rooms are classified as other units only if they do not meet the housing unit definition.

For example, a boarding house is an establishment with five or more units for rent that serves meals to residents, who pay a combined rate for rent and meals. A combination boarding house has five or more units for rent and serves meals to some of the residents (boarders) but only rent to others (roomers). The quarters for boarders are always considered other units. The quarters occupied by roomers, the manager or other resident employees are housing units if they meet the housing unit definition.

In a hospital or other institution, the rooms reserved for the patients are classified as other units, while the living quarters intended for occupancy by resident staff, employees and guests of patients are considered housing units if they meet the housing unit definition.

Other units are located most frequently in institutions, boarding houses, military barracks, college dormitories, fraternity and sorority houses, hospitals, monasteries, convents, and ships.

Interviewers are provided with very detailed instructions to determine whether a unit should be classified as a housing unit or an other unit. For example, a migratory worker's camp consists of quarters for five or more seasonal or temporary workers engaged in agricultural activities. A tent camp is considered an other unit if it consists of five or more tents or sites for five or more tents.

Information on the housing characteristics of other units is not collected in the American Housing Survey. In the 1980 Census places with eight or fewer non-relatives are counted as housing units, while places with nine or more non-relatives of the person in charge are classified as other units (group quarters). The Census does contain data on group quarters.

Rules for Hotels--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.

Type of Interview--The Annual Housing Survey is conducted on a sample of addresses, not persons or families. An interview is conducted with the occupants of housing units only. Occupants of group quarters are not interviewed. There are three categories of interviews.

1. Regular--Sample unit is a housing unit and it is occupied by one or more persons whose usual place of residence is the sample unit. If the occupants are temporarily absent, for example on vacation, the unit is still considered occupied. Interviews are normally spread over several months, so an interview can be obtained when the household returns. Eligible respondents are household members 16 years of age or older.
  
2. URE--Sample unit is a housing unit and it is occupied by persons who all have a usual residence elsewhere (URE). Eligible respondents are knowledgeable occupants 16 years of age or older. Most AHS questions are asked for URE units. In general, all questions related to the unit and the neighborhood are asked in URE interviews. Questions referring to the occupants of the units (household composition and income) as well as questions designed for recent movers are not asked in URE interviews. Published data often merge UREs with vacant units, but the data base and this codebook always treat the two separately.
  
3. Vacant--Sample unit is an unoccupied housing unit that has the interior protected against the elements, has no sign or other indication that it is condemned or to be demolished and is not being used for commercial, farm or other nonresidential purposes. 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. Landlords, owners, or building managers are eligible respondents. If this type of respondent is unavailable, a neighbor may be interviewed. Only a subset of questions is available for vacant units. Questions cover the overall characteristics of the unit, the value of the unit for owner-occupied units, and the rent charged for the unit and the utilities included in the rent for rental units.

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.

Cooperatives and Condominiums--In a condominium, people own their units individually and have joint ownership of some or all common areas such as the land, hallways, entrances, elevators, etc. "Time-shared" condominiums are included in this definition.

A cooperative is owned by a corporation. Shareholders have ownership of all the units as well as the common areas. Each shareholder of the cooperative is entitled to occupy or rent out an individual unit, but does not own that unit directly.

Cooperative or condominium ownership may apply to various types of structures including single-family houses, rowhouses, townhouses, etc., as well as apartment buildings.

Owned Second Home--A second home may be a single-family house, vacation cottage, hunting cabin, ski lodge, etc., which is owned and held for use sometime during the year by the owner or members of his household. Second homes may also be owned in partnership with members of a different household or on a time-sharing basis. Included are second homes which are sometimes rented or leased on a short-term basis to other persons but are principally held for the owner's occasional use during the year. In 1985, the National Survey included a series of questions for second homes. See Second Home section.

Units in structure--In determining the number of housing units in a structure, all units, both occupied and vacant, are counted.

A structure is a separate building if it has either open space on all sides or is separated from other structures by dividing walls that extend from the bottom of the foundation to the roof. The figures are subject to error, especially in row houses, because the respondent may not know whether walls go from bottom of foundation to roof, or whether units share an attic crawl space, which would qualify the row house as a multiunit building. Starting in 1984, questions are asked of the respondent to determine whether the unit shares an attic, basement or boiler with another unit. This information allows the Census Bureau to more accurately define the number of units in a structure.

Structures containing only one housing unit are further classified as detached or attached. A one-unit structure is detached if it has open space on all four sides even though it has an adjoining shed or garage. A one-unit structure is attached if it has one or more walls extending from ground to roof which divide it from other adjoining structures, such as in row houses, townhouses, etc.

Mobile homes and trailers form a separate category. Mobile homes and trailers were originally constructed to be towed on their own chassis. These include double-wides, expandables, and single-wides. Although designed without permanent foundations, they may be placed on foundations. Travel trailers, campers intended for mounting on pick-up trucks, tent campers with collapsible sides or self-propelled vehicles such as motor homes, prefabs or modular homes are not classified as mobile homes, unless they are used as year-round housing in their present location. Before 1983 when one or more rooms had been added to a mobile home or trailer, it was classified as a one-unit structure. If, however, only a porch or shed had been added, it was still counted as a mobile home or trailer. After 1984, mobile homes with one or more permanent rooms are included as mobile homes.

Year Structure Built--"Year structure built" refers to when the building was first constructed, not when it was remodeled, added to, or converted. For mobile homes and trailers, the manufacturer's model year was assumed to be the year built. The data are based on the respondent's estimate and are, therefore, subject to the respondent's knowledge of the year the building was constructed.

Basement--A structure has a basement if there is enclosed space, at least partially underground, in which persons can walk upright under all or part of the building. Starting in 1984, respondents are asked more specific questions about the basement and type of foundations for units not having a basement.

Garage or carport on property--The garage or carport must be available for use by the occupants of the housing unit; i.e., members of the household could 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 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 an area that for some reason cannot be used for parking. Starting in 1984, a garage is reported for a rental unit only if it is included in the rent.

Offstreet parking--Offstreet parking is available if there is a driveway or a parking lot available for use by the household. Starting in 1984, offstreet parking is recorded only if the parking space is included in the rent.

Cars and trucks--Cars and trucks include passenger cars, station wagons, vans, pickups and small parcel trucks of one-ton capacity or less which are owned, being bought or regularly used by members of the household which are ordinarily kept at home. The purpose of the question is to count the number of vehicles available to household members for day-to-day transportation. Vehicles which are rented or leased for one month or more are included, as well as business vehicles or company cars which are regularly used for non-business purposes. Vehicles used exclusively for business or for recreational activities (e.g., dunebuggies), government-owned cars and junk cars used for parts are not included. The item should not be used to reflect the number of privately owned automobiles or trucks or the number of households owning such vehicles.

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				
0022	ISTATUS	73N-93N	Type Of Interview	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>	
		74S	73N 78N 74N-77N 74S	1	1	1	1	
		76S-93S	79N-83N 76S-93S					
			85N-93N					
		1	1	1	1	Occupied Regular Interview		
		2	2	2	2	Usual Residence Elsewhere (Interview)		
		3	3	3	3	Vacant (Interview With Owner, Neighbor, Etc.)		
			4	4	4	Non-Interview (Type A, B, Or C)		
			4			Non-Interview (Type A, B, Or C) and Vacant or URE Units in transient hotels, mobile homes or "other housing" (See TYPE).		
			5	5		Not Yet In The Sample		
	6	6		Dropped from Sample (Type C Non-Interview in Preceding Year or Reduction of Sample)				
	7	7		Missing from Sample (Applicable to a Few Cases Which Were Not Present in One Year and Reappeared in Next Year)				
		8		1981 Sample Reduction of Some Rural Cases Which Were Reinterviewed in 1983				
			Note: Codes 5-8 are not on Census tapes, but only on tapes generated by Abt Associates for the national survey until 1983N.					
0023	STATUS	73N-93N	Occupancy Status	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>	
		74S-75S	73N 74S-75S 77S-83S 74N-83N 85N-93N	2	2	C1	C1	
		77S-93S	84S-93S					
		1	1	1	1	Occupied Unit		
						Occupied (Interview Or Type A Non-Interview)		
		2	2	2	2	Not Occupied		
						Vacant (Interview Or Type A Non-Interview)		
		3	3	3	3	Usual Residence Elsewhere (Interview or Type A Non-Interview)		
						Type B Interview		
			9		9	Not In Housing Stock (Type B Or C Non-Interview)		
		9		Not In Housing Stock (Type B Or C Non-Interview) and Vacant Or URE Units in transient hotels, mobile homes or "other housing" (See TYPE).				
0024	MOPERM	85N-93N	Months Since Unit Occupied On a Permanent Basis	<u>84S</u>	<u>85N</u>			
		84S-93S	0 Less Than One Month	37	37			
			1-24 1 to 24 Months					
			25 Over 2 Years					
			26 Never Occupied as a Permanent Home					
			27 Don't Know					
			98 Not Answered					
			99 Not Applicable					
0025	YRRND	85N-93N	Residence Suitable For Year Round Use	<u>84S</u>	<u>85N</u>			
		84S-93S	1 Yes	37	37			
			2 No					
			8 Not Answered					
			9 Not Applicable					
0026	TIMSHR	85N-93N	Ownership Timeshared	<u>84S</u>	<u>85N</u>			
		84S-93S	1 Yes	38	39			
			2 No					
			9 Not a URE Interview					
0027	SHORTU	87N-93N	Vacation Or Short-Term Use (URE And Vacant Rental Units)	<u>87S</u>	<u>87N</u>			
		87S-93S	1 Yes					
			2 No					
			9 Not Applicable					



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0035	NUCND0	80N-83N 83S	Building Converted From Rental To Condo/Coop Units <u>80N-83N</u> <u>83S</u>	<u>83N</u> 43	<u>83S</u> 33
			1 1 Yes		
			2 2 No		
			3 3 Don't Know		
			8 Not Answered		
			8 8 Not A Condo/Coop Or Not Answered		
			9 9 Not Applicable		
0036	WHNCND	80N-83N 83S	Year Unit Was Converted To Condo./Coop. Ownership <u>80N-81N</u> <u>83N, 83S</u>	<u>83N</u> 43	<u>83S</u> 33
			0 1983		
			1 1981-1982		
			1 1981		
			2 2 1979-1980		
			3 3 1976-1978		
			4 4 1970-1975		
			5 5 Before 1970		
			6 6 Don't Know		
			8 8 Not Answered		
			9 9 Not Applicable		
0037	NUMCND	80N-83N 83S	Number of Condominium/Cooperative Units In Development 1 Less Than 50 2 50-99 3 100-499 4 500 or More 5 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 43	<u>83S</u> 33
0038	CANRNT	80N-83N 83S	Any Units In Condo/Coop Development Rented/For Rent 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 43	<u>83S</u> 33

0039 LONGIT 845-93S Characteristics of Household in Unit in 1970 or 1980 84S  
G

Note: This variable describes the household which lived in this unit in 1970 for the sample cases which were selected from the 1970 Census and the household which lived in this unit in 1980 for cases added to the sample after 1983. This household may not be the same as the household living in the unit at the time of the interview. If the unit was vacant in 70 (or 80), the variable provides information about the vacancy of the unit in 1970 or 1980. The codes applicable to sample cases selected from the 1970 Census are presented in the first table below, while the codes for cases drawn from the 1980 Census are provided in the second table. Users should note that the characteristics describing units differ for the two samples.

Family Income At Unit In 1970	FAMILY SIZE AT UNIT IN 1970									
	1		2		3		4		5	
	Owned In 70	Rented In 70	Rented In 70	Owned In 70	Owned In 70	Rented In 70	Rented In 70	Owned In 70	Owned In 70	Rented In 70
Under \$3,000	1	2	3	4	5	6	7	8	9	10
\$3-5,999	20	19	18	17	16	15	14	13	12	11
\$6-9,999	21	22	23	24	25	26	27	28	29	30
\$10-14,999	40	39	38	37	36	35	34	33	32	31
\$15,000+	41	42	43	44	45	46	47	48	49	50

Note: for Family Size 2 and 4, the information is presented before the information for owners. This was done on purpose and is not a typographical error.

- 51 Low Value Vacants (Rent under \$80 or Value under \$15,000)
- 52 Medium Value Vacants (Rent of \$80-119 or Value of \$15,000 to 24,999)
- 53 High Value Vacants (Rent of \$120+ or Value of \$25,000+)
- 54 Residual Vacants (Those not for sale or rent; includes seasonal and migratory vacants)
- 55 Housing Unit in Group Quarters (see Appendix A for definition of Group Quarters)
- 56 Other Group Quarters which was not a housing unit in 1970, but became a housing unit since then
- 99 1970 Data not available

CONTRACT RENT IN 1980	UNIT RENTED IN 1980			VALUE IN 1980	UNIT OWNED IN 1980		
	NO OF ROOMS IN UNIT 1-3	4-5	6+		NO OF ROOMS IN UNIT 1-3	4-5	6+
<\$100	101	102	103	<\$20,000	130	129	128
\$100-149	106	105	104	\$20,000-\$29,999	131	132	133
\$150-199	107	108	109	\$30,000-\$34,999	136	135	134
\$200-249	112	111	110	\$35,000-\$39,999	137	138	139
\$250-299	113	114	115	\$40,000-\$49,999	142	141	140
\$300-349	118	117	116	\$50,000-\$64,999	143	144	145
\$350-399	119	120	121	\$65,000-\$79,999	148	147	146
\$400 or more	124	123	122	\$80,000-\$99,999	149	150	151
				\$100,000-\$149,000	154	153	152
				\$150,000 or more	155	156	157
NA	125	126	127	NA	160	159	158

- 161 Group Quarters Population I-Institutionalized
- 162 Group Quarters Population II-Noninstitutionalized

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										
0049	ACCESS	74N-93N	<b>Access To Unit</b> 77N-81N 74N-76N 83N 85N-93N <u>75S-93S</u>		<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>						
		74S-93S			2	2	C1	C1						
				1	1	Direct								
				2	2	Through Another Unit								
				8		Not Reported								
				9	9	Not Applicable								
		0050		TYPE	73N-93N	<b>Type Of Living Quarters</b> 73N-76N 77N-83N 85N-93N <u>74S-75S</u> <u>76S-83S</u> <u>84S-93S</u>		<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>			
					74S-93S			2	2	C1	C1			
							1	1	House, Apartment					
							5	5	House, Apartment Or Mobile Home With Room Added					
	6		6		Mobile Home/Trailer--No Perm. Room									
	7		7		Mobile Home--Permanent Room Added									
	2		2		Housing Unit In Non-Transient Hotel									
	3		3		Transient Hotel Unit Occupied More Than 6 Months									
	4		4		Unit in Rooming House									
					7 Boat Or Recreational Vehicle									
					8 Tent, Cave, Or Railroad Car									
	6		7		9 Other Housing Units Not Specified Above									
			8		10 Non-housing Unit In Boarding House									
					11 Student Quarters In College Dorm									
			10		12 Unoccupied Tent Or Trailer Site									
			9		13 Not Perm. Unit In Transient Hotel									
			11		14 Other Non-housing Units Not Specified Above									
	99		99		99 Permanent Loss From Stock (Type C Non-Interview) or not yet in sample									
Note: Codes 1-7 are for living quarters that are housing units. Codes 8-11 are for living quarters not classified as housing units. For a discussion of the definitions of living quarters, housing units, and other types of quarters, refer to the introduction to this section.														
0051	TIED		74N-77N		<b>Mobile Home Is Secured by Tiedowns</b> 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable			<u>83N</u>	<u>81S</u>					
			80N					31	10					
			83N											
			75S-81S											
			0052				ELEV	73N-93N	<b>Passenger Elevator In Building (Enumerator Observation)</b> 73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u>		<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
								74S-93S			4	4	42	53
	2	1		No Elevator										
	1	2		At Least One Working Elevator										
		3		All Elevators Not Working										
	9			1 To 3 Stories or Non-Interview										
		9		Non-Interview										
Note: In 1978N-1981N, 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 value is carried forward. After 1983, the question says "on this floor".														
0053	CLIMB	75N-77N		<b>Stories From Main Bldg. Entry To Main Apartment Entry</b> 75N-77N 76S-81S 85N-93N <u>83N</u> <u>83S</u> <u>84S-93S</u>		<u>83N</u>		<u>83S</u>		<u>84S</u>	<u>85N</u>			
		83N-93N				54		40		42	53			
		76S-81S												
		83S-93S												
			1		1	0 None, On Same Floor								
			2		2	1 One (Up or Down)								
						2 Two (Up or Down)								
			3		3	Two or More (Up or Down)								
						3-8 Three to Eight or More								
					8	98 Not Answered								
	9	9	99 Not Applicable											
Note: Some "8"s have been detected in 75N-77N. 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																																											
0054	FLOORS	73N-93N 74S-93S	<b>Stories In Building</b> 73N-83N 78S-81S 85N-93N 74S-77S 84S-93S <u>82S-83S</u>	<u>83N</u>	<u>83S</u>	<u>84S</u> 22	<u>85N</u>																																								
			<table border="0"> <tr> <td></td> <td>1</td> <td>1</td> <td>One</td> </tr> <tr> <td>1</td> <td></td> <td></td> <td>1 to 3 Stories</td> </tr> <tr> <td></td> <td>2</td> <td>2</td> <td>Two</td> </tr> <tr> <td></td> <td>3</td> <td>3</td> <td>Three</td> </tr> <tr> <td></td> <td></td> <td>4-8</td> <td>Four to Eight Stories In Building</td> </tr> <tr> <td>2</td> <td>4</td> <td></td> <td>Four to Six</td> </tr> <tr> <td>3</td> <td>5</td> <td></td> <td>Seven to Twelve</td> </tr> <tr> <td>4</td> <td>6</td> <td></td> <td>Thirteen or More</td> </tr> <tr> <td></td> <td></td> <td>98</td> <td>Not Answered</td> </tr> <tr> <td>9</td> <td>9</td> <td>99</td> <td>Not Applicable</td> </tr> </table> <p>Note: In 1978N-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 value is preserved here. Also, prior to 1985N and 1984S, the question excludes basements. Starting in 1984S and 1985N, the question includes basements.</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>		1	1	One	1			1 to 3 Stories		2	2	Two		3	3	Three			4-8	Four to Eight Stories In Building	2	4		Four to Six	3	5		Seven to Twelve	4	6		Thirteen or More			98	Not Answered	9	9	99	Not Applicable				
	1	1	One																																												
1			1 to 3 Stories																																												
	2	2	Two																																												
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		98	Not Answered																																												
9	9	99	Not Applicable																																												
0055	CELLAR	73N-93N 74S-93S	<b>Basement In House Or Building</b> 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>83N</u> 7	<u>83S</u> 7	<u>84S</u> 3	<u>85N</u> 3																																								
			<table border="0"> <tr> <td></td> <td>1</td> <td></td> <td>Basement Under All The Building</td> </tr> <tr> <td></td> <td>2</td> <td></td> <td>Basement Under Part Of Building</td> </tr> <tr> <td>1</td> <td></td> <td></td> <td>Basement Under Building (Completeness Not Specified)</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>No Basement In Building</td> </tr> <tr> <td></td> <td>3</td> <td></td> <td>Crawl Space Under Building</td> </tr> <tr> <td></td> <td>4</td> <td></td> <td>Concrete Slab Under Building</td> </tr> <tr> <td></td> <td>5</td> <td></td> <td>Something Else Under Building</td> </tr> <tr> <td></td> <td>8</td> <td></td> <td>Not Answered</td> </tr> <tr> <td>9</td> <td>9</td> <td></td> <td>Not Applicable</td> </tr> </table> <p>Note: This is an ambiguous concept in many buildings built on a slope where the bottom floor is partly below ground, roughly finished, but used as normal living space.</p>		1		Basement Under All The Building		2		Basement Under Part Of Building	1			Basement Under Building (Completeness Not Specified)	2			No Basement In Building		3		Crawl Space Under Building		4		Concrete Slab Under Building		5		Something Else Under Building		8		Not Answered	9	9		Not Applicable								
	1		Basement Under All The Building																																												
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9	9		Not Applicable																																												
0056	SHOPS	73N-93N	<b>Commercial Establishments In Building</b>	<u>83N</u> 4	<u>83S</u> 4	<u>84S</u> 17	<u>85N</u> 18																																								
0057	DOCS	74S-93S	<b>Medical, Dental Office In Building</b> 1 Yes 2 No 9 Not Applicable	4	4	17	18																																								
			Note: After 1983, the wording of the question was changed from "in building" to "on the property".																																												
0058	CARS	73N-77N 80N-81N 85N-93N 74S-82S 84S-93S	<b>No. of Household Cars Including Company Owned Vehicles</b> 73N 74N-77N 80N-81N 74S 75S-81S 85N-93N 82S <u>84S-93S</u>	<u>81N</u> 39	<u>82S</u> 39	<u>84S</u> 25	<u>85N</u> 25																																								
			<table border="0"> <tr> <td></td> <td>1</td> <td>1</td> <td>0</td> <td>None</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1-7</td> <td>1-7 Cars</td> </tr> <tr> <td></td> <td>2</td> <td>2</td> <td></td> <td>1 Car</td> </tr> <tr> <td></td> <td>3</td> <td>3</td> <td></td> <td>2 Cars</td> </tr> <tr> <td></td> <td>4</td> <td>4</td> <td></td> <td>3 Or More Cars</td> </tr> <tr> <td></td> <td></td> <td>5</td> <td></td> <td>4 Or More Cars</td> </tr> <tr> <td>9</td> <td>9</td> <td>9</td> <td></td> <td>Not Applicable</td> </tr> </table> <p>Note: On 79S-81S Includes Trucks Under 1 Ton</p>		1	1	0	None				1-7	1-7 Cars		2	2		1 Car		3	3		2 Cars		4	4		3 Or More Cars			5		4 Or More Cars	9	9	9		Not Applicable									
	1	1	0	None																																											
			1-7	1-7 Cars																																											
	2	2		1 Car																																											
	3	3		2 Cars																																											
	4	4		3 Or More Cars																																											
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9	9	9		Not Applicable																																											

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE					
0059	TRUCKS	73N-77N	Number Of Household Trucks Including Company Owned			<u>81N</u>	<u>82S</u>	<u>84S</u>	<u>85N</u>
		80N-81N	(Less Than 1 Ton)			39	39	25	25
		85N-93N	73N-77N 80N-81N						
		74S-78S	74S-78S 85N-93N						
		82S	82S						
		84S-93S	<u>84S-93S</u>						
			1	0	None				
				1-7	1-7 Trucks				
			2		1 Truck				
			3		2 Or More Trucks				
	9	9	Not Applicable						
0060	GARAGE	73N-93N	Garage/Carport			<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		74S-93S	73N-83N 78S-81S 85N-93N			3	3	14	14
			74S-77S	84S-93S					
			<u>82S-83S</u>						
				1	Included In Rent Or Value				
				2	No, Or Not Included In Rent Or Value Available				
			1		Offstreet, Uncovered Space Available				
				1	Carport Available				
				2	One Car Garage Available				
				3	Two Car Garage Available				
		4	Three+ Car Garage Available						
		5	Not Available						
	2	6	Not Available						
	8	8	8	Not Answered					
	9	9	9	Not Applicable					
0061	GARGC	78N-81N	Change In Availability Of Garage/Carport Since Last Int.			<u>81N</u>			
			1	Yes			4		
			2	No					
			3	Not Sure					
			8	Not Answered					
	9	Not Applicable							
0062	INCP	73N-77N	Cost Of Offstreet Parking Space Included In Rent			<u>77N</u>	<u>81S</u>	<u>84S</u>	<u>85N</u>
		85N-93N	73N-77N 85N-93N			24	24	14	14
		74S-81S	<u>74S-81S</u> <u>84S-93S</u>						
		84S-93S		1	Included In Rent Or Value				
				1	Included In Rent				
		2	No, Not Included In Rent Or Value						
		2	No, Not Included In Rent						
		8	Not Answered						
		9	Not Applicable						
0063	IFP	73N-77N	Parking Facilities Available With Building (Renter)			<u>77N</u>	<u>81S</u>		
		74S-81S		1	Yes	24	24		
				2	No				
				8	Not Answered				
				9	Not Applicable				
0064	FARP	74S-78S	Parking Space Away From Building (Renter)				<u>78S</u>		
				1	Yes		24		
				2	No				
				8	Not Answered				
				9	Not Applicable				
0065	PAYP	73N-77N	Household Rents A Building Parking Space (Renter)			<u>77N</u>	<u>81S</u>		
		74S-81S		1	Yes	24	24		
				2	No or available at no extra charge				
				9	Not Applicable				
				Note: Reversal in sense of question. INCP asks if parking space is included in rent, while PAYP asks if the household rents a parking space associated with building.					
0066	COSTP	73N-77N	Monthly Cost For Parking Space (Renter)			<u>77N</u>	<u>81S</u>		
		74S-81S		1-198	\$1-\$198	24	24		
				199	\$199 Or More				
				998	Not Answered				
				999	Not Applicable				

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

0067 ZPARK 73N-77N 74S-81S Recoded Parking Facilities Present At Unit (Recent Movers Only) 77N 81S  
G G

- |         |         |   |
|---------|---------|---|
| 74S     | 73N-77N |   |
| 75S-81S |         |   |
| 1       | 1       | Parking Cost In Rent                                    |
| 2       | 2       | Parking Paid Separately                                 |
| 3       | 3       | Parking Payment Method Not Reported                     |
| 4       | 4       | Space Not Rented  |
| 5       | 5       | Parking Space Rent Not Reported                         |
| 6       | 6       | Space Rented Elsewhere                                  |
| 7       | 7       | Space Not Rented Elsewhere                              |
| 8       | 8       | Whether Space Rented Elsewhere Not Reported             |
| 9       | 9       | Parking Availability Not Reported                       |
| 10      | 10      | No Cash Rent  |
| 11      | 11      | Different Reference Person In Previous and Present Unit |
| 27      |         | Undocumented Code                                       |
| 99      |         | Not Applicable  |

Note: In 1977N, one case with value 91 was found.

0068 ZPARK2 73N-77N 74S-81S Recoded Availability of Parking 77N 81S  
G G

- |         |   |                                   |
|---------|---|-----------------------------------|
| 74S-77S |   |                                   |
| 1       | 1 | Parking Not Available             |
| 2       | 2 | Parking Paid In Rent              |
| 3       | 3 | Parking Paid Separately           |
| 4       | 4 | Parking Available But Not Rented  |
| 8       | 8 | Parking Availability Not Reported |
| 9       | 9 | Not Applicable                    |

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## **Integrated Design Concepts**

*Project Sponsor: Huth-Westwood Builders  
Akron, Ohio*

*Project Designer: Environmental Design  
Alternatives - Architects  
Akron, Ohio*

*Consultants: City of Akron—Building  
Department  
National ESP—Energy Products  
Lowry Plumbing Corporation*

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This house represents a comprehensive mix of thoughtful design, rationalized structural and mechanical systems, modular planning and passive solar features.



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Steven Winter Associates, Inc., Building Value into Housing 1980 Awards, A compendium of Winning Submissions Under HUD's 1980 "Building Value into Housing Program", November, 1980.

Data in this section include the unit size, the number of rooms, bedrooms, bath rooms and other rooms in the unit, the number of persons 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. Prior to 1984, 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 exterior. 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 a dining room and not counted as a room.

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.

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 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.

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.

UNIT (Continued)

Crowding--Until 1983, a variable reporting the number of persons per room was provided in the AHS files. This variable can be created for subsequent 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 persons in the household. One measure is based on the number of persons per room (not more than 1.0 or 1.5 persons per room), another on the number of persons per bedroom (not more than 2 persons per bedroom). The latter has sometimes been elaborated by relating the requirements to family composition (for example, by requiring that persons 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 Renovation--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. Prior to 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.

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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0069	UNITSF	85N-93N 84S-93S	<p>Size Of Unit (In Square Feet)</p> <p>0 Don't Know</p> <p>1-5000 1 to 5000 square feet</p> <p>5001 5001 square feet or more</p> <p>9998 Not Reported</p> <p>9999 Not Applicable</p> <p>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.</p>	<u>84S</u> 30	<u>85N</u> 30		
0070	USFCHG	87N-93N 88S-93S	<p>Change in Square Footage of Unit Since 1985</p> <p>1 Yes</p> <p>2 No</p> <p>9 Not Applicable</p>	<u>88S</u> 40	<u>87N</u> 28		
0071	USFCAM	87N-93N 88S-93S	<p>Amount Of Square Footage Added/Lost In Unit Since 1985</p> <p>-5001 Lost 5,000 square feet or more</p> <p>-1 - -5000 Lost 1 to 5,000 square feet</p> <p>0 Don't Know</p> <p>1-5000 Added 1 to 5,000 square feet</p> <p>5001 Added 5001 square feet or more</p> <p>9998 Not Reported</p> <p>9999 Not Applicable</p>	<u>88S</u> 40	<u>87N</u> 28		
0072	MEASUR	85N-93N 84S-93S	<p>Source of Data on Size of Unit</p> <p>1 Respondent Provided Square Footage, or Non-Interview</p> <p>2 Respondent Provided Length and Width of Each Floor</p> <p>3 Interviewer Measured Unit</p>	<u>84S</u> 30	<u>85N</u> 30		
0073	ROOMS	73N-93N 74S-93S	<p>Number of Rooms In House Or Apartment</p> <p>73N 74N-83N 74S-83S 85N-93N</p> <p>84S-93S</p> <p>1-20 1 to 20 Rooms</p> <p>21 21 Rooms or More</p> <p>1-91 1 to 91 Rooms</p> <p>1-11 1 to 11 Rooms</p> <p>1-39 1 to 39 Rooms</p> <p>12 12 or More</p> <p>99 99 Not Applicable</p> <p>Note: Starting in 1984, this variable is computer-generated by adding all rooms reported by respondent.</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>	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> G	<u>85N</u> G
0074	ROOMSC	78N-81N	<p>Change In No. Of Rms In House/Aprtmt Since Last Survey</p> <p>1 Yes</p> <p>2 No</p> <p>3 Not Sure</p> <p>9 Not Applicable</p>	<u>81N</u> 3			
0075	BEDRMS	73N-93N 74S-93S	<p>Number of Bedrooms Used</p> <p>74N-81N 73N</p> <p>83N 85N-93N</p> <p>74S-93S</p> <p>0 None</p> <p>0-5 None To 5 Bedrooms</p> <p>1-9 1 To 9 Bedrooms</p> <p>6 6 Or More Bedrooms</p> <p>10 10 Or More Bedrooms</p> <p>99 99 Not Applicable</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>	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> 4	<u>85N</u> 4
0076	BDRMSC	78N-81N	<p>Change In No. Of Rms Mainly For Sleeping Since Last Int.</p> <p>1 Yes</p> <p>2 No</p> <p>3 Not Sure</p> <p>8 Not Answered</p> <p>9 Not Applicable</p>	<u>81N</u> 3			

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0077	BATHS	73N-93N 74S-93S	Number of Bathrooms 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</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				
			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.				
			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.				
0078	HALFB	85N-93N 84S-93S	Number of Half Bathrooms			<u>84S</u>	<u>85N</u>
			0 None			<u>4</u>	<u>4</u>
			1-9 1 To 9				
			10 10 or More Half Baths				
			99 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.				
0079	LIVING	85N-93N	Number Of Living Rooms			<u>84S</u>	<u>85N</u>
0080	KITCH	84S-93S	Number of Kitchens			<u>4</u>	<u>4</u>
0081	DINING		Number of Dining Rooms			<u>4</u>	<u>4</u>
0082	DENS		Number of Family Rms, Dens, Rec Rms And/Or Libraries			<u>4</u>	<u>4</u>
0083	OFFICE		Number of Rms That Are Business Space W/Sep. Access			<u>4</u>	<u>4</u>
0084	NOTHRM		Number of Other Rooms, Finished or Unfinished			<u>4</u>	<u>4</u>
			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, the 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			<u>4</u>	<u>4</u>
			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			<u>9</u>	<u>9</u>
			2 No				
			9 Not Applicable				
0087	ZCROWD	73N-81N 83N 74S-83S	Recoded Persons Per Room 001-996 0.01-9.96 Persons/Room 997 9.97 or More Persons/Room 999 Not Applicable	<u>83N</u>	<u>83S</u>		
				<u>G</u>	<u>G</u>		
0088	PRIVN	73N-81N 83N 74S-83S	Must Go Through Bedroom To Reach Non-Bath/Bedroom	<u>83N</u>	<u>83S</u>		
			1 Yes	<u>7</u>	<u>7</u>		
			2 No				
			8 Not Answered				
			9 Not Applicable (Unit has 0 Bedrooms), URE, Vacant, Or Non-interview				

Notes: G = Variable is computer generated, and is not present on the questionnaire.  
 ++ = Variable is present on a supplemental page to the questionnaire.  
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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0089	PRIVB	73N-81N 83N 74S-83S	Must Go Through Bedroom To Reach Bath 1 Yes 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.	<u>83N</u> 7	<u>83S</u> 7
0090	IF3BED	73N	Any Bedrooms Used For Sleeping By 3 Or More Persons 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>73N</u> 4	
0091	NUM3BED	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	<u>85N</u> 16
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>84S</u> 15	<u>85N</u> 16
0095	NEWADD	85N-93N	New Additions Built In Last 2 Years	<u>84S</u> 15	<u>85N</u> 16
0096	NEWKIT	84S-93S	Kitchen Added or Remodeled In Last 2 Years	15	16
0097	NEWBTH		Bathroom(s) Added Or Remodeled In Last 2 Years	15	16
0098	NEWSID		Siding Replaced Or Added In Last 2 Years	15	16
0099	OTHFIX		Other Major Repairs/Improvements >\$500 Ea In Last 2 Yrs 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	16
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 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.	21	22

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0108	CSTROF	85N-93N	Cost of Roofing Job In Last 2 Years	84S 15	85N 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	84S 15	85N 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	SUBFIX	85N-93N 84S-93S	Hhld Recd Low Interest Loan/Grant From Govt For Repairs	84S 15	85N 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	77N 22	81S 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.					

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## **Structurally Innovative Fourplex**

*Project Sponsor/Designer: Homer T. Hurst, P.E.  
Blacksburg,  
Virginia*

*Consultants: John Spears, Energy Specialist  
Clark Lentz, Architect  
Gregory & Rogers, Architects  
J. B. Byers,  
Ricky Lawrence*

---

*This design incorporates cost saving energy components, generous space provisions, and innovative structural concepts . . .*



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 included 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, (3) built in burners, not portable, and (4) an oven. 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 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 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 included in the "other" category.

Sewage disposal--A "public sewer" is connected to a city, county, sanitary district, neighborhood, or subdivision sewer system. It may be operated by a 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 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 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. Before 1984, 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 not included.

**Floor Plans**

The four living units, consisting of two two-bedroom and two duplex four-bedroom versions, are arranged with "daytime" spaces along the southern exposure, where views and direct heat gain are most important. Cluster-

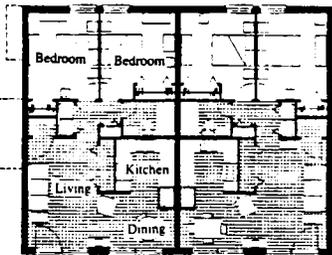
ing of baths and kitchens permits use of one economical plumbing wall to serve all four units.

Each living unit has its own remote entry to maximize personal privacy. The larger du-

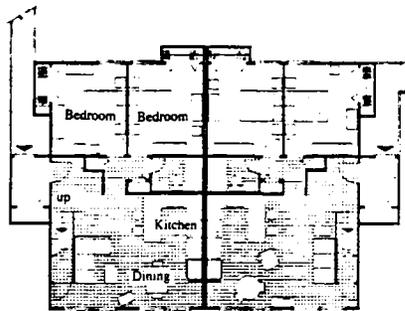
plexes have terraces. Family and living rooms can be interchangeably located according to the homeowner's wishes.

Floor Plans

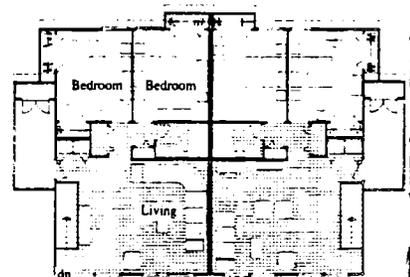
*Apartment Areas: Two bedroom—828 sq. ft.  
Four bedroom—1,728 sq. ft.*



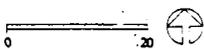
Lower Level



Mid-Level



Upper Level



## EQUIPMENT (Continued)

PAGE 55

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0117	KITCHEN	73N-93N 74S-93S	Complete Kitchen Facilities 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> G	<u>85N</u> G
			1 Complete Kitchen Facilities Present 1 Yes, Exclusive Use 2 Yes, Shared 3 2 No Complete Kitchen Facilities 9 9 Not Applicable				
			Note: Starting in 1984, the variable was computed using respondents' answers to specific items included in the definition of a complete kitchen.				
0118	KITCHC	78N-81N	Change in Kitchen Facilities Since Last Survey	<u>81N</u> 3			
			1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable				
0119	PHONE	74N-93N 74S-93S	Use Of Telephone	<u>83N</u> 9	<u>83S</u> 9	<u>84S</u> C1	<u>85N</u> C1
			1 Yes 2 No 9 Not Applicable				
0120	SINK	85N-93N 84S-93S	Kitchen Sink Present For This Household's Use Only			<u>84S</u> 4	<u>85N</u> 4
			1 Yes 2 No 8 Not Answered 9 Not Applicable				
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 Only			7	7
0128	DRY		Unit Has A Clothes Dryer For This Hhld's Use Only			7	7
			Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable				
0129	REFRS	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			7	7
			Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Appliance Not Present or Non-Interview				
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				

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			
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	<b>Complete Plumbing Facilities</b> 73N-83N 85N-93N <u>74S-83S 84S-93S</u> 1 1 Yes, Exclusive Use 2 2 Yes, Shared 3 3 Lack One or Two Items 3 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.	<u>83N</u> 4	<u>83S</u> 4	<u>84S</u> G	<u>85N</u> G
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	<b>Water Source</b> 73N-83N 85N-93N <u>74S-83S 84S-93S</u> 1 1 Public Or Private System 2 2 Individual Well 3 3 Spring 4 4 Cistern 5 5 Stream or Lake 6 6 Bottled Water 3 7 Other Source 9 9 Not Applicable	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> 5	<u>85N</u> 5
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	<b>Well Drilled or Dug</b> 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-93N 84S-93S	<b>How Many Units Well Serves</b> 1 Only This House/Apartment 2 Two To Five Units 3 Six Or More Units 8 Not Answered 9 Water For Home Not From Well Or Non-Interview			<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		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0145	HOTPIP	77N-79N 85N-93N 84S-93S	Hot And Cold Piped Water 1 Yes 2 No 8 Not Answered 9 Not Applicable Note: Prior to 1984, the question specified "hot" piped water only.	<u>79N</u> 35	<u>84S</u> 5	<u>85N</u> 5	
0146	WNEAR	74N-77N 83N 75S-81S	Water Available Within 1/4 Mile 74N-77N 83N <u>75S-79S 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 82S-83S 84S-93S</u> 1 Public Sewer 2 2 Septic Tank/Cesspool 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
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>84S</u> 6	<u>85N</u> 6
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 84S-93S</u> 1 Some Type of Air Conditioning Present 2 Room Air Conditioners Present 3 No Air Conditioning 4 No Room Air Conditioners Present 8 Not Answered 9 Not Applicable Note: In 73N-83N and 74S-83S, the question does not specify room air conditioners. There is a separate variable for room air conditioners.	<u>83N</u> 11	<u>83S</u> 11	<u>84S</u> 7	<u>85N</u> 7

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0152	AIRSYS	73N-93N 74S-93S	Central Air Conditioning Present 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>83N</u> 11	<u>83S</u> 11	<u>84S</u> 7	<u>85N</u> 7
			1 1 Central AC Present 2 Central AC Not Present 2 Room AC Present 8 Not Answered 9 Not Applicable				
			Note: In 73N-83N and 74S-83S, the question refers to type of air conditioning rather than specifying whether central air conditioning is present.				
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
0154	RARUNT	80N	1 Room Air Conditionr Used To Reduce Use Of Central AC	<u>80N</u> 34			
0155	RAAWNS		2 Awnings Used to Reduce Use of Central AC				34
0156	RADHMD		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
			The Codes Unique To Each Variable Are Shown Above; Standard Codes For All Variables Are: 0 The Item Was Not Used To Reduce Use Of Central A.C. 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use RANONE.				
0161	RANONE	80N	Nothing Reduced Use Of Central Air Conditioning 0 Something Used To Reduce Use Of Central A.C. 8 Nothing Used To Reduce Use Of Central A.C., or Not Answered 9 Not Applicable	<u>80N</u> 34			
			Note: To distinguish between "nothing used" and "not answered" use one of the previous 7 variables.				
0162	HEQUIP	73N-93N 74S-93S	Main Type of Heating Equipment Used 73N-76N 77N-81N 85N-93N 83N <u>74S-75S 76S-83S 84S-93S</u>	<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 8	<u>85N</u> 8
			1 1 Central Warm Air Furnace 2 Heat Pump 3 Electric Heat Pump 2 Steam or Hot Water/Hot Air 3 Built-in Electric Units 4 Other Built-in Electric Units 4 Floor, Wall or Pipeless Furnace 5 Built-in Hot Air Htr w/o Ducts 5 Room Heater With Vent or Flue 6 Burning Gas, Oil or Kerosene 6 Room Heater Without Vent or Flue 7 Burning Gas, Oil or Kerosene 7 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 No Heating Equipment 9 99 Non-Interview				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE		
0163	HADDL	73N-83N 74S-83S	Used Additional Heating Equipment Past Winter 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 46	<u>83S</u> 28	
			Supplemental Heating Equipment			
0164	SAFUR	84N-93N	Suppl Heat-Centr1 Wrm Air Furn W/Ducts	<u>81S</u> 42	<u>84S</u> 8	<u>85N</u> 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/Pipelss 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 note 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).			
0175	SNONE	84N-93N 80S-81S 84S-93S	No Supplemental Heating Equipment 0 Some Suppl Heat Equip Specified Above 1 No Supplemental Heating Equipment 9 Not Applicable	<u>81S</u> 42	<u>84S</u> 8	<u>85N</u> 8
0176	SFRPLI	84N-93N 84S-93S	Suppl Heat From Fireplace With Inserts 0 No Equipment of the Type Indicated Above 1 Supplemental Equipment of the Type Specified Above 9 Not Applicable		<u>84S</u> 8	<u>85N</u> 8
0177	FRPL	80N	House/Apartment Has Fireplace Or Heating Stove 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>80N</u> 33		
0178	FPLWK	80N 85N-93N 84S-93S	Fireplace In Working Order 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>80N</u> 33	<u>84S</u> 8	<u>85N</u> 8
			Note: In 1980N, the question includes heating stoves.			

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
			No. 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	NHPMP		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	HAO1SL	78N-80N	1 Solar Heating Equipment Acquired In Last 12 Months	33	
0192	HAO2WS		2 Wood Or Coal Burning Stove Acquired In Last 12 Mos.	33	
0193	HAO3FP		3 Wood Or Coal Burning Fireplace Acq. In Last 12 Mos.	33	
0194	HAO4EH		4 Portable Electric Heater Acquired In Last 12 Months	33	
0195	HAO5UV		5 Room Heater W/O Flue/Vent Burning Gas/Oil/Kerosene Acquired In Last 12 Months	33	
0196	HAO6OT		6 Other Type Of Supplemental Heating Equipment Acq. In Last 12 Months	33	
0197	HAO7NO		7 No Supp. Heating Equipment Acquired In Last 12 Mos. Standard Codes For All Variables Are:	33	
			0 No Supplemental Heating Equipment of the Specified Type Acquired In Past 12 Months		
			8 Not Answered		
			9 Not Applicable		
			Note: HAO7NO 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		
				<u>79N</u>	
0199	FURMAN	77N-79N	Maintenance Done On Furnace In Last 12 Months	37	
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		
				<u>84S</u>	<u>85N</u>
0204	NEWMEQ	85N-93N 84S-93S	Major Equipment Replaced Or Added In Last 2 Yrs	15	16
			1 Yes, Not Known By Whom		
			2 No, Not Added Or Replaced		
			3 Yes, Installed By Hhld Member		
			4 Yes, Not Installed By Hhld Member		
			8 Not Answered		
			9 Not Applicable		
				<u>84S</u>	<u>85N</u>
0205	CSTMEQ	85N-93N 84S-93S	Cost Of Major Equip Replaced/Added In Last 2 Yrs	15	16
			0-9996 \$0-\$9996.00		
			9998 Not Answered		
			9999 Not Applicable		

**EQUIPMENT (Continued)**

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0206	THERMY	77N-79N	How Often Change Thermostat 1 Occasionally 2 Regularly 3 Don't Know 8 Not Answered 9 Not Applicable	<u>79N</u> 36	
0207	STORMW	74N-80N	Storm Windows/Other Window Protection Present	<u>80N</u> 35	<u>81S</u> 12
0208	STORMD	75S-81S	Storm Doors Present 1 Yes, All 2 Yes, Some 3 No 8 Not Answered 9 Not Applicable	35	12
0209	NEWSDW	85N-93N 84S-93S	New Storm Windows/Doors Bought/Installed-Last 2 yrs. 1 Yes, Installed, Not Known By Whom 2 No, Not Bought/Installed 3 Yes, Installed By Hhld Member 4 Yes, Installed, Not By Hhld Member 8 Not Answered 9 Not Applicable	<u>84S</u> 15	<u>85N</u> 16
0210	CSTSDW	85N-93N 84S-93S	Cost of New Storm Windows/Doors--Last Two Years 0-9997 \$0-\$9997.00 9998 Not Answered 9999 Not Applicable	<u>84S</u> 15	<u>85N</u> 16
0211	NEWSW	75N	Storm Windows Installed In Last 12 Months	<u>80N</u> 35	
0212	NEWSD	77N-80N	Storm Doors Installed In Last 12 Months 1 Yes 2 No 8 Not Answered 9 Not Applicable	35	
0213	NEWC	80N	Protective Window Coverings Installed In Past 12 Mos. 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>80N</u> 35	
0214	NEWSHUT	80N	Closable Shutters On Windows Installed In Past 12 Mos. 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>80N</u> 35	
0215	INSUL	74N-80N 75S-81S	Attic or Roof Insulation Present 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>80N</u> 35	<u>81S</u> 12
0216	NEWIN	75N 77N-80N 85N-93N 84S-93S	Insulation Added Recently 1 Added In Last 12 Mos. 2 Added In Last 2 Years, Not Known By Whom 3 Not Added 4 Added In Last 2 Years, By Household Member 8 Added In Last 2 Years, Not By Household Member 9 Not Answered 9 Not Applicable	<u>80N</u> 35	<u>84S</u> 15

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE		
0217	NEWWIN	75N	Wall Insulation Installed In Last 12 Months	80N		
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	Amount of Attic Insulation Added In Past 12 Months	79N		
		77N-79N	1 Less Than 3 Inches	36		
			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 Mos.	80N		
0221	INSFL		Insulation For Floors/Crawl Spaces Added In Past 12 Mos.	35		
			1 Yes			
			2 No			
			8 Not Answered			
			9 Not Applicable			
0222	NEWWTH	75N	Weatherstripping Installed In Last 12 Months	80N		
		77N-80N	75N 77N-79N	35		
			80N			
			1 1 Yes			
			2 2 No			
			3 3 Don't Know			
			8 8 Not Answered			
			9 9 Not Applicable			
0223	NEWICST	75N	Cost of Insulation Added In Last Two Years	80N	84S	85N
		77N-80N	75N 80N 85N-93N	35	15	16
		85N-93N	77N-79N 84S-93S			
		84S-93S	0-9997			
			1 \$0-\$997			
			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.			

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 routine 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 after 1983. The four-scale 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.

Exterior 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 interior of the unit to the elements. Missing materials on the walls and chimney do not have to expose the interior 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 lead 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 are reported if they occurred in the last 12 months.

Interior walls and ceilings--Data are collected on whether there are open cracks or holes and broken plaster or peeling paint on the interior 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.

Interior floors--Data are collected 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.

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 water 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 prior to 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 prior to 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 prior to the interview. To qualify as having lived here "last winter", the reference person must have moved into the unit prior to 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 included 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 Problems

<u>1984</u>	<u>1983</u>
<ul style="list-style-type: none"> <li>• <u>SEVERE</u>. A unit is considered severely deficient if it has any of the following five problems:</li> </ul>	
<p><u>Plumbing</u>. Lacking hot piped water or a flush toilet, or lacking both bathtub and shower, all for the exclusive use of the unit.</p>	Same
<p><u>Heating</u>. 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.</p>	Having the heating equipment break down at least three times last winter, for at least six hours each time.
<p><u>Upkeep</u>. Having any <u>five</u> of the following six maintenance problems: leaks from outdoors, leads 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.</p>	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.
<p><u>Hallways</u>. Having all of the following <u>four</u> problems in public areas: no working light fixtures; loose or missing steps; loose or missing railings; and no elevator.</p>	Having all of the three problems other than the elevator, which is not considered.
<p><u>Electric</u>. 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.</p>	Same.
<ul style="list-style-type: none"> <li>• <u>MODERATE</u>. A unit is considered moderately deficient if it has any of the following five problems, but none of the severe problems:</li> </ul>	
<p><u>Plumbing</u>. Having the toilets all break down at once, at least three times in the last three months, for at least six hours each time.</p>	Having only one toilet which broke down at least three times in the last three months, for at least six hours each time.
<p><u>Heating</u>. Having unvented gas, oil or kerosene heaters as the main source of heat; these give off unsafe fumes.</p>	Same.
<p><u>Upkeep</u>. Having any <u>three</u> of the six upkeep problems mentioned under SEVERE.</p>	Same.
<p><u>Hallways</u>. Having any <u>three</u> of the four Hallways problems mentioned under SEVERE.</p>	Having any two of the three problems, other than the elevator problem.
<p><u>Kitchen</u>. Lacking a sink, range, or refrigerator, all for the exclusive use of the unit.</p>	Same.

Programming Commands (Most Survey Years)Exceptions

ZADEQ = 1		
Plumbing	If PLUMB = 2 or PLUMB = 3 then ZADEQ = 3	
Heating	If NUMCOLD $\geq$ 3 and NUMCOLD < 4 then ZADEQ = 3	
Electric	If BUYE = 2 or PAYE = 3 then ZADEQ = 3 If NOWIRE = 2 and PLUGS = 2 and NUMBLOW $\geq$ 3 and NUMBLOW < 8 then ZADEQ = 3	IF BUYE = 1 THEN ZADEQ = 3 (Starting in 1984)
Upkeep	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 = 3	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) <sup>1</sup>  Starting in 1984, this line should be deleted.
Hallways	M = 0 If LTS = 2 or LTSOK = 3 then M = M + 1 If BADSTEP = 1 then M = M + 1 If RAILOK = 2 or RAILOK = 3 then M = M + 1 If N = 4 then ZADEQ = 3  IF ZADEQ NE 3 THEN:	IF LTS = 2 or LTSOK = 4 THEN M = M + 1 IF BADSTEP = 2 THEN M = M + 1 IF RAILOK = 1 or RAILOK = 3 THEN M = M + 1 IF CLIMB > 3 and CLIMB < 98 and ELEV NE 2 THEN M = M + 1 (Starting in 1984)
Plumbing	If NUMTLT = 3 or NUMTLT = 4 then ZADEQ = 2	
Heating	If HEQUIP = 7 then ZADEQ = 2	IF HEQUIP = 6 THEN ZADEQ = 2 (In 73N-76N and 74S-75S) <sup>2</sup>
Upkeep	If N $\geq$ 3 then ZADEQ = 2	
Hallways	If M = 2 then ZADEQ = 2	IF M = 3 THEN ZADEQ = 2 (Starting in 1984)
Kitchen	If KITCHEN = 2 or KITCHEN = 3 then ZADEQ = 2	
	END	

- 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.

UNIT QUALITY (Continued)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0224	ZADEQ	85N-93N 84S-93S	<b>Recoded Adequacy Of Housing</b> 1 Adequate 2 Moderately Inadequate 3 Severely Inadequate 9 Not Applicable Note: In 1984S, some coding errors have been found.		<u>84S</u> G	<u>85N</u> G	
0225	HOWH	74N-93N 74S-93S	<b>Resident's Satisfaction With House As Residence</b> 74N-83N 85N-93N <u>74S-83S 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	<b>Like to Move Because of Structural Deficiencies</b> 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 Note: This variable combines data from the following variables: BLEAK, RLEAK, CRACKS, HOLES, PEEL, BIGP, PAINT, PLASTER and DILAPM below.		<u>77N</u> G		
0227	CSTMNT	85N-93N 84S-93S	<b>Amt Spent In Last Year On Routine Maintenance</b> 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	<b>Unit Boarded Up (Enumerator Observation)</b> 1 Yes 2 No 8 Not Answered 9 Occupied, URE or Non-Interview Note: Prior to 1984, the variable was available for vacant units only.	<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 42	<u>85N</u> 53

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0229	ESAGR	85N-93N	House/Building Has Sagging Roof	84S	85N		
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 Bldg 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-84N 74S-83S	Light Fixtures in Building Public Halls	83N	83S		
			1 Yes	54	40		
			2 No				
			3 No Public Halls				
			8 Not Answered				
			9 Not Applicable				
0242	LTSOK	73N-93N 74S-93S	Public Hall Light Fixtures Working	83N	83S	84S	85N
			73N-83N 85N-93N	54	40	42	53
			74S-83S 84S-93S				
			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	83N	83S	84S	85N
			73N-83N 85N-93N	54	40	42	53
			74S-83S 84S-93S				
			1 Yes				
			2 No				
			3 No Common Stairs				
			8 Not Answered				
			9 Not Applicable				
0244	RAILOK	73N-93N 74S-93S	Firmly Attached Stair Railings	83N	83S	84S	85N
			73N-83N 85N-93N	54	40	42	53
			74S-83S 84S-93S				
			1 Yes				
			2 No				
			3 No Stair Rails				
			8 Not Answered				
			9 Not Applicable				
0245	LEAK	85N-93N	Water Leaked Into Home From Outside In Last 12 Mos	84S	85N		
0246	ILEAK	84S-93S	Leaks In House From Inside Bldg In Last 12 Mos	5	5		
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				
0247	WLEAK	85N-93N	Leaks Around Walls/Closed Windows/Closed Doors	84S	85N		
0248	OTLEAK	84S-93S	Leaks From Other Outside Sources	5	5		
0249	PLEAK		Leaks From Own Plumbing Fixtures (Backup/Overflow)	5	5		
0250	PILEAK		Leaking Pipes (Including Those In Other Apts)	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							

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0252	BLEAK	73N-78N 83N-93N 74S-81S 83S-93S	Signs of Basement Leaks 73N-78N 85N-93N 83N 84S-93S 74S-81S 83S	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 5	<u>85N</u> 5
			2 0 No 1 1 Yes 3 Don't Know 8 8 Not Answered 9 9 Not Applicable				
0253	RLEAK	73N-93N 74S-93S	Leaking Roof 73N-83N 85N-93N 74S-83S 84S-93S	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 5	<u>85N</u> 5
			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> 11	<u>83S</u> 11	<u>84S</u> 9	<u>85N</u> 9
0255	HOLES	74S-93S	Holes In Floor 1 Yes 2 No 8 Not Answered 9 Not Applicable	11	11	9	9
0256	PEEL	73N-74N 74S-75S	Broken Plaster or Peeling Paint Inside 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>74N</u> 9	<u>75S</u> 12		
0257	BIGP	73N-74N 85N-93N 74S-75S 84S-93S	Broken Plaster or Peeling Paint Over 1 Square Foot 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>74N</u> 9	<u>75S</u> 12	<u>84S</u> 9	<u>85N</u> 9
0258	PAIN	75N-83N	Any Peeling Paint Over 1 Square Foot	<u>83N</u> 11	<u>83S</u> 11		
0259	PLASTER	76S-83S	Any Broken Plaster Over 1 Square Foot 1 Yes 2 No 8 Not Answered 9 Not Applicable	11	11		
0260	DILAPM	74N-77N 75S-81S	Want to Move Because Of Leaks, Cracks, Holes, Broken Plaster, Peeling Paint 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>77N</u> 19	<u>81S</u> 19		
0261	IFDRY	73N-93N 74S-93S	Water Source Breakdown Last 90 Days 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 47	<u>83S</u> 29	<u>84S</u> 5	<u>85N</u> 5
0262	BADDRY	73N-78N 81N 83N 74S-81S 83S	Complete Lack of Running Water for 6 Hours or More 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 47	<u>83S</u> 29		

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UNIT QUALITY (Continued)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0263	NUMDRY	73N-93N 74S-93S	Number of Water Breakdowns for 6 Hours or More 73N-83N 84S-93S <u>74S-83S 85N-93N</u>	<u>83N</u> 47	<u>83S</u> 29	<u>84S</u> 5	<u>85N</u> 5
			0 None Lasted 6 Hours				
			1-7 1-7 Water Breakdowns ≥ 6 hrs				
			1 1				
			2 2				
			3 3 Or More				
			8 8 Not Answered				
			9 9 Not Applicable				
0264	WHYDRY	73N-78N 81N 83N 74S-81S 83S	Primary Reason for Water Breakdown 1 Problem in Building 2 Problem Not in Building 8 Not Answered 9 Not Applicable	<u>83N</u> 47	<u>83S</u> 29		
0265	IFTLT	73N-93N 74S-93S	Flush Toilet Breakdown Last 90 Days 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 47	<u>83S</u> 29	<u>84S</u> 4	<u>85N</u> 4
			Note: Codes of '3' have been detected on original 1973 National Survey tape.				
0266	BADTLT	73N-78N 81N 83N 74S-81S 83S	Flush Toilet Breakdown of 6 Hours or More 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 47	<u>83S</u> 29		
0267	NUMTLT	73N-93N 74S-93S	Number of Flush Toilet Breakdowns of 6 Hours or More 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>83N</u> 47	<u>83S</u> 29	<u>84S</u> 4	<u>85N</u> 4
			0 None Lasted 6 Hours				
			1-7 1-7 Toilet Breakdowns ≥ 6 hrs				
			1 1				
			2 2				
			3 3				
			4 4 Or More				
			8 8 Not Answered				
			9 9 Not Applicable				
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>83N</u> 47	<u>83S</u> 29		
0269	IFSEW	73N-93N 74S-93S	Public Sewer Breakdown in Last 90 Days 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 6	<u>85N</u> 6
0270	BADSEW	73N-78N 81N 83N 74S-81S 83S	Public Sewer Breakdown of 6 Hours or More 1 Yes 2 No 3 Not Sure 8 Not Answered 9 Not Applicable	<u>83N</u> 48	<u>83S</u> 30		
0271	NUMSEW	73N-93N 74S-93S	Number of Public Sewer Breakdowns 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 6	<u>85N</u> 6
			0 None Lasted 6 Hours				
			1-7 1-7 Sewer Breakdowns ≥ 6 hrs				
			1 1				
			2 2				
			3 3 Or More				
			8 8 Not Answered				
			9 9 Not Applicable				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0272	PLUGS	73N-93N 74S-93S	Working Electric Wall Outlets in Every Room 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 7	<u>83S</u> 7	<u>84S</u> 5	<u>85N</u> 5
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>83N</u> 7	<u>83S</u> 7	<u>84S</u> 5	<u>85N</u> 5
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>83N</u> 47	<u>83S</u> 29	<u>84S</u> 5	<u>85N</u> 5
0275	NUMBLOW	73N-93N 74S-93S	No. of Times Blew Fuses or Breakers In Last 90 Days 73N-83N 85N-93N <u>74S-83S 84S-93S</u> 1 1 1 2 2 2 3-7 3 to 7 or more 3 3 Or More 8 8 Not Answered 9 9 Not Applicable	<u>83N</u> 47	<u>83S</u> 29	<u>84S</u> 5	<u>85N</u> 5
0276	FREEZE	79N-93N 82S-93S	House Too Cold 24+ Hours 79N-83N 85N-93N <u>82S-83S 84S-93S</u> 1 1 Yes 2 2 No 3 Did Not Live Here Last Winter 8 8 Not Answered 9 9 Not Applicable	<u>83N</u> 46	<u>83S</u> 28	<u>84S</u> 9	<u>85N</u> 9
0277	IFCOLD	73N-78N 81N-93N 74S-93S	Heat Breakdowns Last Winter 1 Yes 2 No 8 Not Answered 9 Not Applicable Note: Through 83 breakdowns are counted only if they lasted 6+ hours. From 84 on they count if they made the house uncomfortably cold for 24+ hours.	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 9	<u>85N</u> 9
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 84S-93S</u> 0 No Breakdowns Lasting 6+ Hours 1 1 1 Breakdown 2 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	<u>83N</u> 48	<u>83S</u> 30	<u>84S</u> 9	<u>85N</u> 9
0279	OTHCLD	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

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
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		
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 <u>74S</u> <u>75S-83S</u>	<u>83N</u> 7	<u>83S</u> 7
			1 None		
			1 2 One Room		
			2 3 Two Rooms		
			3 4 Three or More Rooms		
			8 8 Not Answered		
			9 9 Not Applicable		
0285	TRASH	73N-77N 74S-81S	Garbage Collection Services 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

UNIT QUALITY (Continued)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
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.	<u>77N</u> 18	<u>81S</u> 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		

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### Elevations

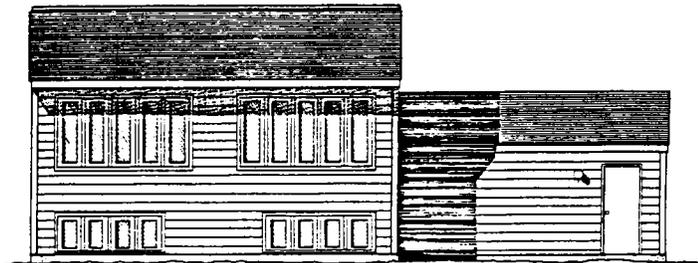
The south glazing admits sunlight to as many living spaces as possible, particularly those critical for daytime functions. Minimally, this glazing will provide for a sun tempered residence, while the addition of lightweight concrete floor slabs (see wall section) will

provide a thermal mass storage source to reradiate stored heat at night.

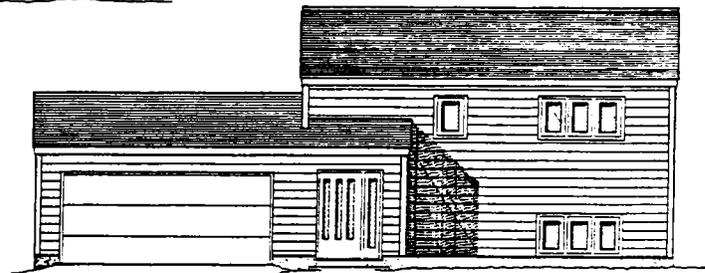
Conversely, the north elevation features fewer and smaller windows which reduce this elevation's heat losses. The lower bedroom floor is set into the earth, allowing maximum

use of foundation walls as interior surfaces, and improving the thermal performance of the walls through the earth's added insulative properties.

### Elevations



South Elevation



North Elevation

Steven Winter Associates, Inc., Building Value into Housing 1980 Awards, A compendium of Winning Submissions Under HUD's 1980 "Building Value into Housing Program", November, 1980.

Data on neighborhood conditions include the presence of particular services, their dependability/adequacy, and the presence/extent of bother of particular detriments (e.g., litter, crime pollution). Users should note that data on neighborhood conditions are based on subjective assessments of the respondent rather than on objective evaluations of the neighborhood (there are a few exceptions where the enumerator's observations are available; these are indicated as appropriate). It should also be noted that the definition of "neighborhood" varies across years (for example, in 1973, respondents were asked to rate the conditions of their street while in later years they were asked to rate the conditions of the neighborhood). Furthermore, neighborhood is not defined to the respondent; it is whatever the respondent considers his/her neighborhood to be. Items related to previous neighborhood are presented in the Past and Future Homes section. Starting in 1984, interviewers are asked to complete, by observation, a few questions describing the immediate surroundings of the sample unit. The area is defined as 300 feet in any direction from the front of the building. These variables are identified in the documentation by the words "within 300 feet" in the variable description.

Many of the questions were asked in a three-part format: Does the problem exist, is it disturbing to you, and does the problem make you want to move? In the 1973 National and 1974 SMSA tapes, the answers are preserved in three separate variables (e.g., CRIME, CRIMED, CRIMEM), while in later tapes, the answers were combined (for example, CRIME).

The phrase "want to move" in these variables is not intended as a measure of mobility but as a measure of dissatisfaction. Nevertheless, the variables are weakly correlated to mobility.

Besides these questions about the general neighborhood, the 1985N survey has actual interviews with neighbors. For about 680 urban AHS units, chosen at random, the 10 closest units were chosen and interviewed. These units are identified in the RURREC and NEIGH variables in the Geography section. A regular AHS interview was conducted, so you can analyze income, income mix, family composition, types of houses, etc. in each cluster of neighbors. The samaple of neighbors will be interviewed again in 1989 and 1993.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0291	HOWN	73N-79N 81N 83N 85N-93N 74S-93S	Resident's Satisfaction With Neighborhood 73N-79N 85N-93N 81N, 83N 84S-93S <u>74S-83S</u>	<u>83N</u> 50	<u>83S</u> 32	<u>84S</u> 9	<u>85N</u> 9
			0 No Neighborhood 1 Worst On A Scale of 1 to 10 2 On A Scale of 1 to 10 3 On A Scale of 1 to 10 4 On A Scale of 1 to 10 5 On A Scale of 1 to 10 6 On A Scale of 1 to 10 7 On A Scale of 1 to 10 8 On A Scale of 1 to 10 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				
0292	ESFD	85N-93N	Single Family Detached House(s) Within 300 Ft Of Unit			<u>84S</u> 43	<u>85N</u> 54
0293	ELOW	84S-93S	SF Attached/MF Lowrise Bldgs Within 300 Ft Of Unit			43	54
0294	EMID		Mid Rise Residential Buildings Within 300 Ft Of Unit			43	54
0295	EHIGH		High Rise Residential Buildings Within 300 Ft Of Unit			43	54
0296	EMOBIL		Mobile Home(s) (Excl Campers) Within 300 Ft Of Unit			43	54
0297	ECOM		Commercial/Institutional/Industrial Bldgs Within 300 Ft			43	54
0298	EPRKG		Residential Parking Lot(s) Within 300 Ft Of Unit			43	54
0299	EWATER		Body Of Water Within 300 Ft Of Unit			43	54
0300	EGREEN		Open Space/Park/Woods/Farm/Ranch Within 300 Ft Of Unit			43	54
0301	ECL		Other Features Not Listed Above Within 300 Ft Of Unit For All Variables, Standard Codes Are: 0 Feature Not Observed 1 Feature Observed 9 Not Applicable			43	54
0302	ETRANS	87N-93N 86S-93S	Four Lane Highway/Railroad/Airport Within 300 Ft			<u>86S</u> G	<u>87N</u> G
			0 Feature Not Observed 1 Feature Observed 9 Not Applicable				
0303	ENOCL	85N-93N 84S-93S	Area Surrounding Sample Unit Could Not Be Observed			<u>84S</u> 43	<u>85N</u> 54
			0 No 1 Yes 9 Not Applicable				
0304	EAGE	85N-93N 84S-93S	Predominant Age Of Residential Bldgs Within 300 Ft			<u>84S</u> 43	<u>85N</u> 54
			1 Older Than Sample Unit 2 About The Same 3 Newer Than Sample Unit 4 Very Mixed 5 No Other Residential Bldgs 9 Not Observed				
0305	EABAN	73N-93N 74S-93S	Abandoned/Boarded Up/Vandalized Bldgs Within 300 Ft 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 43	<u>85N</u> 54
			1 1 Yes, One 2 2 Yes, More Than One 3 No 4 No Other Building Within 300 Feet 8 8 Not Answered 9 9 Not Applicable				
			Note: In 79N-81N, 83N, and 82S-83S, question only asks about boarded up bldgs or bldgs with broken windows. Prior to 1984, the question referred to buildings on the street. From 1984 on, it covers 300 ft from unit.				
0306	EBARCL	85N-93N 84S-93S	Bars on Windows of Buildings Within 300 Ft			<u>84S</u> 43	<u>85N</u> 54
			1 Yes, One Building With Bars 2 Yes, More Than One Building 3 No Bars on Windows 8 Not Answered 9 Not Applicable				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0307	EABAN2	79N-83N 82S-83S	Abandoned Bldgs On St (Enumerator Observation) 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 54	<u>83S</u> 40		
0308	EROAD	79N 81N 83N 85N-93N 82S-93S	Condition of Streets And Roads Within 300 Ft 79N,81N 85N-93N 83N 84S-93S <u>82S-83S</u> 3 1 Major Repairs Needed 2 2 Minor Repairs Needed 1 3 No Repairs Needed 4 No Street Within 300 Feet 8 8 Not Answered 9 9 Not Applicable Note: Prior to 1984, the question referred to the neighborhood. From 1984, it covers 300 feet from the unit.	<u>83N</u> 54	<u>83S</u> 40	<u>84S</u> 43	<u>85N</u> 54
0309	EJUNK	79N 81N 83N 85N-93N 82S-93S	Trash, Litter Or Junk In Neighborhood 79N,81N 85N-93N 83N 84S-93S <u>82S-83S</u> 1 Major Accumulation 2 2 Minor Accumulation 1 3 None 3 Moderate Accumulation 4 Heavy Accumulation 8 8 Not Answered 9 9 Not Applicable Note: Prior to 1984, the question referred to the neighborhood. From 1984, it covers 300 feet from the unit.	<u>83N</u> 54	<u>83S</u> 40	<u>84S</u> 43	<u>85N</u> 54
0310	NPROBS	85N-93N 84S-93S	Something About Neighborhood Is Bothersome 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 9	<u>85N</u> 9
0311	NOPROB	85N-93N	No Problem About Neighborhood Is Bothersome.			<u>84S</u> 9	<u>85N</u> 9
0312	NUCRIM	84S-93S	Crime In Neighborhood Is Bothersome			9	9
0313	NOISE		Noise In Neighborhood Is Bothersome			9	9
0314	NUTRAF		Traffic In Neighborhood Is Bothersome			9	9
0315	LITTER		Litter Or Housing Deterioration Is Bothersome			9	9
0316	BADSRV		Poor City/Co Services In Neighborhood Are Bothersome			9	9
0317	BADPRP		Undesirable Non-Residential Uses Are Bothersome			9	9
0318	BADPER		People In Neighborhood Are Bothersome			9	9
0319	OTHNHDD		Other Feature In Neighborhood Is Bothersome For All Variables, Standard Codes Are: 0 No, Condition Does Not Bother 1 Yes, Condition Bothers 8 Not Answered 9 Not Applicable			9	9
0320	TPARK	74N-93N 75S-93S	Number of Mobile Homes in Group (Enumerator Observation) 74N-77N 78N-81N 85N-93N 83N 84S-93S <u>75S-81S</u> <u>82S-83S</u> 0 Not A Mobile Home 1 6 or more 1 1 Mobile Home 2 1-5 2 6-99 2 2 or more 3 100 or more 9 9 Not Applicable	<u>83N</u> 10	<u>83S</u> 10	<u>84S</u> 42	<u>85N</u> 53

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>73N</u>	<u>74S</u>		
0333	STRND	73N	Street Noise Disturbing	14	14		
0334	TRAFD	74S	Heavy Street Traffic Disturbing	14	14		
0335	ROADD		Street Continually in Need of Repair Disturbing	14	14		
0336	STRLD		Inadequate Street Lighting Disturbing	14	14		
0337	CRIMED		Street/Neighborhood Crime Disturbing	14	14		
0338	JUNKD		Trash, Litter or Junk Disturbing	14	14		
0339	ABAND		Abandoned or Boarded-up Buildings Disturbing	14	14		
0340	DUMPD		Rundown Houses or Buildings Disturbing	14	14		
0341	NONRES		Commercial, Industrial, Non-res. Activities Disturbing	14	14		
0342	ODORD		Odors, Smoke or Gas Disturbing	14	14		
0343	AIRND		Airplane Noise Disturbing	14	14		
			For All Variables, Standard Values Are:				
			1 Yes, Disturbing				
			2 No, Not Disturbing				
			8 Not Answered				
			9 Not Applicable				
				<u>73N</u>	<u>74S</u>		
0344	STRNM	73N	Street Noise-Want To Move	14	14		
0345	TRAFM	74S	Heavy Street Traffic-Want To Move	14	14		
0346	ROADM		Street Continually in Need of Repair-Want To Move	14	14		
0347	STRLM		Inadequate Street Lighting-Want To Move	14	14		
0348	CRIMEM		Street/Neighborhood Crime-Want To Move	14	14		
0349	JUNKM		Trash, Litter or Junk-Want To Move	14	14		
0350	ABANM		Abandoned or Boarded-up Buildings-Want To Move	14	14		
0351	DUMPM		Rundown Houses or Buildings-Want To Move	14	14		
0352	NONRESM		Commercial, Industrial, Non-res. Activities-Want To Move	14	14		
0353	ODORM		Odors, Smoke or Gas-Want To Move	14	14		
0354	AIRNM		Airplane Noise-Want To Move	14	14		
			For All Variables, Standard Values Are:				
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				
				<u>83N</u>	<u>83S</u>		
0355	FUZZ	74N-77N	Police Protection Adequate	49	31		
		79N	74N-77N				
		81N	79N,81N				
		83N	83N				
		74S-83S	<u>74S</u> <u>75S-83S</u>				
			2 1 Adequate				
			1 2 Inadequate				
			3 3 Don't Know				
			8 8 Not Answered				
			9 9 Not Applicable				
				<u>83N</u>	<u>83S</u>	<u>85S</u>	<u>85N</u>
0356	FUZZM	74N-77N	How Inadequate Is Police Protection	49	31	46	46
		79N	74N-76N 77N 85N				
		81N	79N,81N 78S-80S 85S-87S				
		83N	83N				
		85N	74S-77S				
		74S-83S	<u>81S-83S</u>				
		85S-87S					
			1 Adequate, Wish To Move Not Answered				
			2 Inadequate, Wish To Move Not Answered				
			3 Adequacy Not Known, Wish To Move Not Answered				
			4 Inadequate Service, Wish To Move				
			5 Inadequate Service, No Wish To Move				
			1 Not A Bother				
			2 Bothers A Little				
			3 Bothers Very Much				
			8 Not Answered				
			9 Not Applicable				

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0357	SHP	73N-77N 79N 81N-93N 74S-83S 85S-88S	Shopping Facilities Adequate 74N-77N 73N 79N, 81N 83N-93N 74S 75S-88S	<u>83N</u> 50	<u>83S</u> 32	<u>85S</u> 47	<u>85N</u> 47
			2 1 Adequate 1 2 Inadequate 3 3 Don't Know 8 8 Not Answered 9 9 Not Applicable				
0358	SHPM	73N-77N 74S-81S	How Inadequate Is Shopping 73N-76N 77N 74S-77S 78S-80S 81S	<u>77N</u> 31	<u>81S</u> 31		
			2 Not A Bother or Not Enough To Move 1 Not A Bother 2 Bothers A Little 3 Bothers Very Much 1 4 Bothers, Want To Move 8 8 Not Answered 9 9 Not Applicable				
0359	SHPCLS	79N 81N-93N 82S-83S 85S-88S	Grocery or Drug Store Within 1 Mile 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 50	<u>83S</u> 32	<u>85S</u> 47	<u>85N</u> 47
			School(s) Children Attend (Ages 5-13)				
0360	SCHPUB	79N	1 Public Elementary School	<u>83N</u> 50	<u>83S</u> 32	<u>85S</u> 47	<u>85N</u> 47
0361	SCHPRI	81N-93N	2 Private Elementary School	50	32	47	47
0362	SCHOTH	82S-83S 85S-88S	3 Other School	50	32	47	47
			The Codes Unique To Each Variable Are Shown Above: For All Variables, Standard Codes Are: 0 This Answer Not Given 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use Variable SCHN0 described below.				
0363	SCHN0	79N 81N-93N 82S-83S 85S-88S	Do School Age Children Attend School 4 Do Not Attend School 8 Not Answered 9 Not Applicable	<u>83N</u> 50	<u>83S</u> 32	<u>85S</u> 47	<u>85N</u> 47
0364	SCHOK	79N 81N 83N 82S-85S	Is Closest Public School Satisfactory 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 50	<u>83S</u> 32	<u>84S</u>	
0365	SCH	73N-77N 85N-93N 74S-81S 83S	Schools Adequate 73N 74N-77N 74S 85N-93N 75S-81S 83S	<u>77N</u> 31	<u>83S</u> 32		<u>85N</u> 47
			2 1 Adequate 1 2 Inadequate 3 3 Don't Know 8 8 Not Answered 9 9 Not Applicable				
0366	SCHM	73N-77N 85N-93N 74S-81S 85S-88S	How Inadequate Are Schools 73N-76N 77N 74S-77S 78S-80S 81S 85N-93N 85S-88S	<u>77N</u> 31	<u>81S</u> 31	<u>85S</u> 47	<u>85N</u> 47
			2 Not A Bother or Not Enough To Move 1 Not A Bother 2 Bothers A Little 3 Bothers Very Much 1 4 Bothers, Want To Move 8 8 Not Answered 9 9 Not Applicable				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0367	SCHCLS	79N 81N-93N 82S-83S 85S-88S	Public School Within 1 Mile 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 50	<u>83S</u> 32	<u>85S</u> 47	<u>85N</u> 47
0368	RECR	77N 79N 81N 83N 77S-83S	Outdoor Recreation Facilities Adequate 1 Adequate 2 Inadequate 3 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 49	<u>83S</u> 31		
0369	RECRM	77N 79N 81N 83N 77S-83S	How Inadequate Are Outdoor Rec. Facilities 77N 79N,81N 83N 78S-80S 77S <u>81S-83S</u>	<u>83N</u> 49	<u>83S</u> 31		
			2 Not A Bother or Not Enough To Move 1 Not A Bother 2 Bothers A Little 3 Bothers Very Much 4 1 Bothers, Want To Move 8 8 Not Answered 9 9 Not Applicable				
0370	HOSP	74N-77N 79N 81N 83N 75S-83S	Hospitals Or Health Clinics Adequate 1 Adequate 2 Inadequate 3 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 49	<u>83S</u> 31		
0371	HOSPM	74N-77N 79N 81N-85N 75S-83S 85S-87S	Hospitals So Inadequate That You Want To Move 74N-76N 77N 85N 79N,81N 78S-80S 85S-87S 83N 75S-77S <u>81S-83S</u>	<u>83N</u> 49	<u>83S</u> 31	<u>85S</u> 46	<u>85N</u> 46
			1 Adequate, Wish To Move Not Answered 2 Inadequate, Wish To Move Not Answered 3 Adequacy Not Known, Wish To Move Not Answered 1 4 4 Inadequate, Wish To Move 2 5 Not A Bother Or No Wish To Move 1 Not A Bother 2 Bothers A Little 3 Bothers Very Much 8 8 8 Not Answered 9 9 9 Not Applicable				
0372	FIRE	74N-76N 74S-76S	Fire Protection Adequate 74N-76N <u>74S</u> <u>75S-76S</u>	<u>76N</u> 30	<u>76S</u> 31		
			2 1 Adequate 1 2 Inadequate 3 3 Don't Know 8 8 Not Answered 9 9 Not Applicable				
0373	FIREM	74N-76N 74S-76S	Fire Protection So Inadequate That You Want To Move 1 Bothers, Want To Move 2 Not a Bother or Not Enough to Move 8 Not Answered 9 Not Applicable	<u>76N</u> 30	<u>76S</u> 31		

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0374	NEWTRN	79N 81N-93N 82S-83S 85S-88S	Public Transportation Available 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 50	<u>83S</u> 32	<u>85S</u> 47	<u>85N</u> 47
0375	USETRN	79N 81N-93N 82S-83S 85S-88S	Household Member Use Public Transportation Once A Week 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 50	<u>83S</u> 32	<u>85S</u> 47	<u>85N</u> 47
0376	TRN	73N-77N 85N-93N 74S-81S 85S-88S	Public Transportation Adequate 73N 74N-77N 85N-93N 74S 75S-81S 85S-88S 2 1 1 Adequate 1 2 2 Inadequate 3 Do Not Use 3 Don't Know 8 8 8 Not Answered 9 9 9 Not Applicable	<u>77N</u> 31	<u>81S</u> 31	<u>85S</u> 47	<u>85N</u> 47
0377	TRAN	79N 81N 83N 82S-83S	Public Transportation for Area Satisfactory 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 50	<u>83S</u> 32		
0378	TRNM	73N-77N 74S-81S	Public Transp. So Inadequate That Want To Move 73N-76N 77N 74S-77S 78S-80S 81S 2 Not A Bother or Not Enough To Move 1 Not A Bother 2 Bothers A Little 3 Bothers Very Much 4 Bothers, Want To Move 8 8 Not Answered 9 9 Not Applicable	<u>77N</u> 31	<u>81S</u> 31		
0379	ZSTRM	74N-77N 74S-83S	Recoded Neighborhood Condition - Desire To Move 74N-77N 74S-75S 76S-80S 81S-83S 1 1 1 Move Due To 1 Condition 0 0 6 1 No Inadequate Condition 2 2 2 Move Due to 2-3 Conditions 3 3 3 2 Not A Bother 3 3 3 Move Due to 5+ Conditions 4 4 4 3 Bothers, Not Enough to Move 4 4 4 Inadequate, But No Wish To Move 5 5 4 Bothers, Want To Move 5 5 4 Wish To Move Not Reported 5 5 5 Bothers, Wish To Move Not Reported 6 Condition Exists, Bother- someness Not Answered 8 8 8 7 Not Answered 9 9 9 9 Not Applicable	<u>77N</u> G	<u>83S</u> G		
0380	ZMOVE	73N-74N 74S	Recoded Inadequate Services - Want To Move 73N 74N 74S 1 1 Inadequate Service, Want To Move 2 2 Inadequate Service, Don't Want To Move 3 3 Inadequate Service, Wish To Move Not Reported 4 4 Adequate Services 8 8 Not Reported Or Out Of Universe 9 9 Out of Universe	<u>74N</u> G	<u>74S</u> G		
0381	ZSERVM	73N-74N 74S	Recoded Inadequate Services-Desire Move 2 Want To Move 3 Don't Want To Move 8 Not Reported 9 Not Applicable	<u>74N</u> G	<u>74S</u> G		

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

0382 ZSERVM2 74N-77N Recoded Wish To Move Due To Inadequate Services  
 1 Wish To Move  
 2 Don't Wish To Move  
 3 Wish To Move Not Reported  
 4 No Inadequate Services  
 5 Don't Know (Not On 74N)  
 8 Not Answered  
 9 Not Applicable

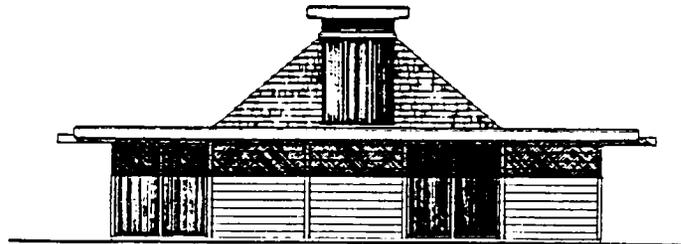
77N  
G

**Elevations**

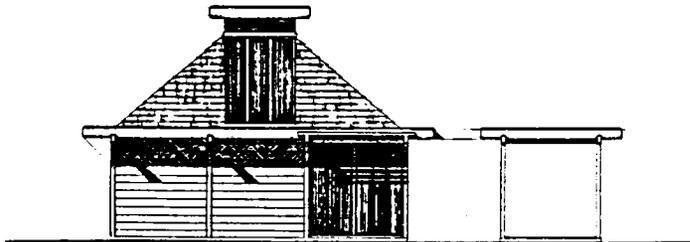
solar exposure, reducing thermal loads.

These elevations demonstrate the designer's concern with the cooling requirements of semi-arid Arizona. Overhangs protruding above large glazed areas are sized to provide shading and prevent excess solar heat gain. Landscaping buffers external surfaces from

Elevations



West Elevation



South Elevation

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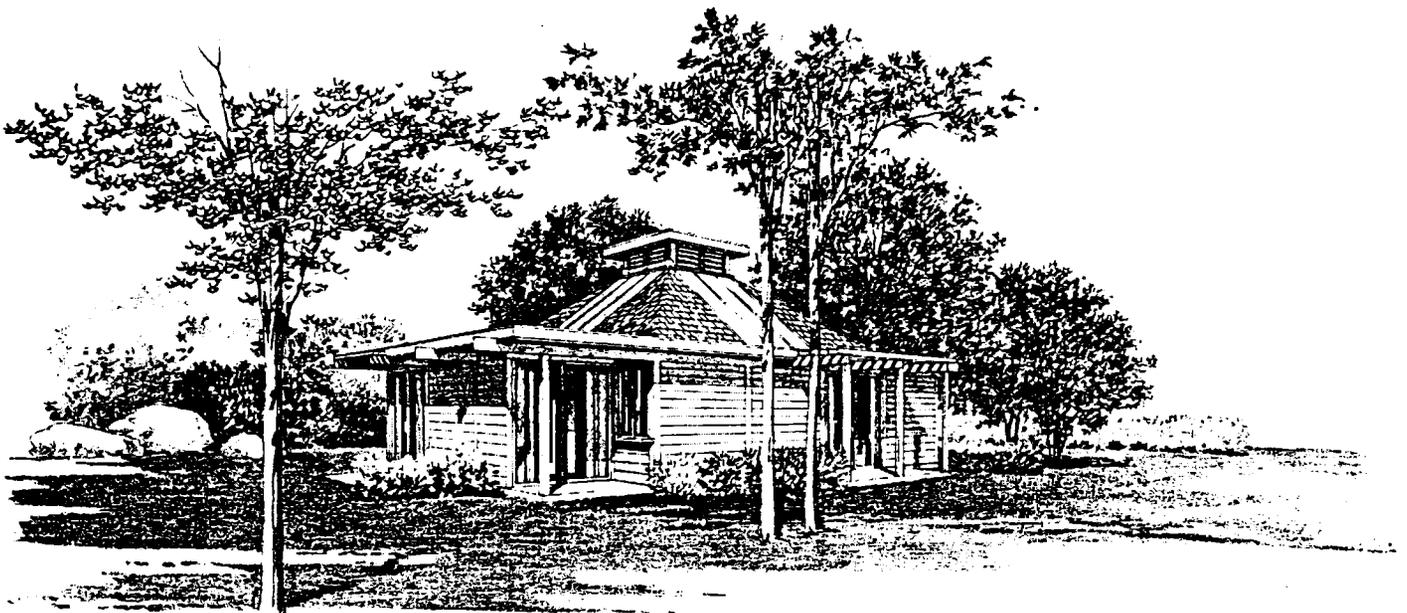
## Naturally Cooled Post & Beam

*Project Sponsor/Designer: Lee Choitz &  
Mark Good  
Newport Beach,  
California*

*Living Area: 1,000 sq. ft.*

---

This house combines post and beam construction and manufactured roof and wall panels with passive solar techniques to produce a design for semi-arid climates.



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Steven Winter Associates, Inc., Building Value into Housing 1980 Awards, A compendium of Winning Submissions Under HUD's 1980 "Building Value into Housing Program", November, 1980.

Data on household composition are collected for all members of the household and describe both individual members and aggregate household demographics. Basic demographic data such as age, sex, and race are available, as well as data on years of education. Concepts such as spouse present, race, Spanish origin, and marital status are not defined to the respondent. The variables reflect the answers as stated by the respondent. Some variables are available for the head or reference person only. (The concept of "head of household" was dropped in 1980, and replaced by the "reference person" who may be any of the people who own or rent the unit.) Summary household variables include total number of persons, number of adults, number of children, number of people not related to the head or reference person, and number of persons 65 years or older. The availability of these summary variables vary from year to year. Any variable can be recreated using the detailed information for each household member. Additional information on household members is contained in the Disabilities section, when they moved in is in the mobility section, and their incomes are in the Income section.

It should be noted that the variable ZCOMP presented at the end of this section and intended to provide a household classification, is not recommended as some users have found that it is unreliable.

The following is a discussion of key concepts related to household composition as well as definitions for a number of variables documented in this section. The definitions are followed by a discussion of the interviewing and recording procedures to obtain household composition and demographic data items.

Household--A household consists of all the persons who occupy a housing unit whether or not they are related. By definition, the count of households is the same as the count of occupied housing units.

Number of persons--All persons occupying the housing unit are counted. These persons include not only occupants related to the reference person but also any lodgers, roomers, boarders, partners, wards, foster children, and resident employees who share the living quarters of the reference person.

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. Unmarried students temporarily away in another locality to attend school are considered household members, unless they have left home permanently.

Reference person--Family relationships are coded in relation to a "reference person". The "reference person" is the first household member listed on the questionnaire or control card who is an owner or renter of the sample unit. If no household member occupying the sample unit owns or rents the unit, the reference person is the first household member listed who is 18 years old or older, or the first person listed if all household members are under 18. In surveys from 1973 through 1979, the concept "head of household" was used. One person in each household was designated as the head, that is the person who was regarded as the head by the respondent. However, if a married woman living with her husband was reported as the head, her husband was considered the head for the purpose of simplifying the coding.

Relationship--Starting in 1984, the relationships provided in the AHS files are less detailed than in earlier years. Several variables have been added to the files. The variable PARENT provides the line number of the father or mother of a given household member, if living in the household. If both are present, the line number of the first person listed is entered. The second parent, if present, can be identified by using the variable SPOUSE, which includes the line number of the spouse. These two variables, together with the relationship codes, can be used to determine the composition of a household.

Own children--A child is defined as an "own" child if he or she is a single (never married) son, daughter, stepchild, or adopted child of the reference person. Own children of subfamilies are excluded from the total count of own children, as are foster children.

Subfamily--A subfamily is a married couple with or without children, or one parent with one or more of their own single (never married) children, living in a household and related to, but not including the reference person or spouse. The most common example of a subfamily is a young married couple sharing the home of the husband's or wife's parents.

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

Nonrelative--A nonrelative of the reference person is any person in the household who is not related to the reference person by blood, marriage, or adoption. Roomers, boarders, lodgers, partners, resident employees, wards, and foster children are included in this category.

Age--The age classification refers to the age reported as of each person's last birthday.

Race--The concept of race used by the Census Bureau does not denote clear-cut scientific definitions of biological stock. The interviewer was to report the race of the reference person 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. The classification of race in the American Housing Survey up through 1977 was made by the interviewer based on his own observation of the respondent (and a question about the other members of the household if there seemed any reason why they might be of a different race). In the 1970 and 1980 Census, race was essentially a self-classification by people according to the race with which they identified themselves. Starting with the 1978 AHS National and SMSA Surveys, new households joining the sample were asked to classify themselves by race, but other households interviewed before retained the interviewer observation.

Spanish origin--Spanish origin was determined on the basis of a question that asked for self-identification of a person's origin or descent.

Care should be exercised in the interpretation of differences in the estimated counts of Spanish-origin households between the American Housing Survey, the 1970 Census, 1980 Census, and other current surveys. Spanish persons are identified according to various criteria: birthplace, birthplace of parents, language, surname, and origin or descent. In addition, research indicates that 1970 estimates of Spanish-origin households may be significantly overstated in the South Region and North Central Region. In the 1980 Census the categories are essentially the same as the 1980 AHS, except the category "Central or South American" is not present. Starting in 1984, the data state whether a person is of Spanish origin but do not distinguish between the various origins.

Years of school completed by reference person--The data 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. Reference persons 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, and noncredit adult education classes.

Note that in the 1970 and 1980 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 American 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 householder. Therefore, the American Housing Survey may overstate the education level of the reference person; that is, respondents may have reported the grade or year the person was currently enrolled in or had last been enrolled in whether or not the grade or year was completed.

Household characteristics--As described above, the American Housing Survey has information on each person in each household: age, sex, marital status, relationship to a reference person, and race. These are stored in AGE-AGE15, SEX-SEX15, MAR-MAR15, REL-REL15, and RACE-RACE15.

Most of the variables documented in this section are recorded on the control card of the AHS Survey. A sample of the control card is shown below. The control card is completed by the interviewer, the first time that the occupants of a sample unit are interviewed. The interviewer lists all household members on page 2 of the control card, and completes items 10-26 for each person that does not have a Usual Residence Elsewhere (see Item 14 on page 2 of the control card). During subsequent interviews in that same unit, the interviewer reviews the information on the control card with the respondent and identifies household members that have left or have moved in since the last interview.

Line numbers (PLINE-PLIN15)--are assigned as name of household members are written down in the interview. The reference person is always entered first. Line numbers are consistent from survey to survey, until the household moves out. For example if the household as a whole remains in place, but the person on line 4 moves out, and a new baby is born, the baby will be assigned a new line number at the end of the list, and no person in the household will have line number 4.

Income data for each household member are also coded using the concept of line numbers. See sample of income questions following the control card sample. Amount of wages, salaries and tips earned is collected for each household member, age 14 or more. The line number of the household member is entered next to the appropriate amount. Therefore, the variable SAL3 for example, provides salary information for the household member listed in PLINE3, Ages, Sexs, etc. Refer to the introduction to the Income Section for a more detailed description of the income variables and a discussion of the coding changes which occurred after 1983.

SAMPLE AHS CONTROL CARD

PGM 2		1 PSU Segment Serial Sample Panel or Check digit		2a SEGMENT <input type="checkbox"/> Unit <input type="checkbox"/> Area <input type="checkbox"/> Permit <input type="checkbox"/> Special Place		2b EXTRA UNIT Original unit serial number		INTRODUCTION <b>OCCUPIED HOUSEHOLD:</b> Hello. I am ... from the United States Bureau of the Census. Here is my identification card. We are taking a survey of housing in the United States. I have some questions I would like to ask you. Did you receive our letter? If prior year interview, ask: Is this the (Last name of reference person) household?					OMB No. 2528-0016 Approval Expires 3-31-85		FORM AHS-61 (4-11-84) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS <b>CONTROL CARD AMERICAN HOUSING SURVEY</b>		<b>NOTICE</b> - All information which would permit identification of the individual will be held in strict confidence by law, under U.S. Code, title 13, section 9a. It may be seen only by sworn Census employees and may be used only for statistical purposes.							
3f ADDRESS (Sheet _____, Line _____)		3e PLACE STATE ZIP CODE		2c Sheet _____ Line _____		AREA SEGMENTS ONLY					6a LAND USE - Follow instructions for box that is marked 1 <input type="checkbox"/> URBAN - Go to item 6 2 <input type="checkbox"/> RURAL - Reg. units and SP, PL units coded 85 - 88 in item 3e - Go to item 8b SP, PL units not coded 85 - 88 in item 3e - Mark "No" in item 5b without asking. Then go to item 6.		6b During the past 12 months did sales of crops, livestock, and other farm products from this place amount to \$1,000 or more? Yes _____ No _____											
3b (Ask every survey.) What is the exact address? (Make corrections to address above.)		3c OFFICE USE ONLY 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/>		3d Special place name		3a Type code		3f Sample number		4 Year built <input type="checkbox"/> Ask first visit <input type="checkbox"/> Do NOT ask When this structure built before April 1, 1980, or after? <input type="checkbox"/> Before 4-1-80 - Continue interview <input type="checkbox"/> After 4-1-80 - End interview					4a Coverage questions <input type="checkbox"/> Ask items marked <input type="checkbox"/> Do NOT ask 4b Are there any occupied or vacant apartments besides (your own/that one) on the same floor? Yes - Fill Table X No _____ 4c Are there any other building on the property for people to live in - either occupied or vacant? Yes - Fill Table X No _____									
8 STATUS OF CONTROL NUMBER HISTORY Control number in sample last enumeration period		1 2 3 4 5		1 1 1 1 1		Control number in sample for first time this enumeration period - Mark reason for adding control number below		2 2 2 2 2		7a CHECK ITEM Unit NOT in a special place Unit in a special place - Refer to Table A in part C of manual and mark appropriate box in item 7c					7b ACCESS - Mark or ask: Does (Address in item 3a) have direct access either from the outside or through a common hall? ACCESS Yes, direct No, through another unit - Not a separate unit; combine with unit through which access is gained. Apply merged unit procedures if appropriate					7c Mark or ask: Is (Address in item 3a) a house, an apartment, a mobile home, or some other type of residence? HOUSING UNIT TYPE House, apartment, flat Mobile home with NO permanent room added Mobile home WITH one or more permanent rooms added HU in nontransient hotel, motel, etc. HU, permanent in transient hotel, motel HU in rooming house Boat or recreational vehicle Tent, cave, or railroad car HU not specified above - Specify				
9 Survey year		Date completed 9a Month Day Year 9b		Interviewer code 9c		Reg. Occ. URE Occ. VAC Non-interview (Enter code)		Line number of respondent 9d		OFFICE USE ONLY 9a 9f		I may have to clarify something with you after checking my work. Is there a telephone on which you can be reached? 9g		What is the number? 9h Area code Number Mark (X) if unstd./ref.		What is the best time to reach you? 9i Time		REG./URE INTERVIEW IF APPLICABLE, DO UNIT MEASUREMENT AND FILL OBSERVATION ITEMS		8a CHECK ITEM Occupied - Go to item 8b Not occupied - Go to AHS-63 8b TENURE TENURE Is this (house/apartment) - Owned or being bought by someone in your household? Rented for cash? Occupied without payment of cash rent? 8c SKIP TO ITEM 11.				
Prior years		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		NOTES Fill item 29 on page 4 and, if applicable, observation items. * For Vacant Interviews, use the following codes: 90 - Owner 91 - Landlord/Landlady 92 - Rental Agent 93 - Neighbor 94 - Observation 95 - Other				
1		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		DLINE! 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to i Unlisted Refused				
2		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to i Unlisted Refused				
3		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to i Unlisted Refused				
4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to i Unlisted Refused				
5		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to i Unlisted Refused				



REGULAR OCCUPIED - Continued					
<p><b>114.</b> One of the main housing problems today is the total cost of housing compared to income. The next few questions are about income.</p> <p>In the past 12 months, how much did ... earn in wages, salaries, tips, and commissions before deductions?</p> <p><i>(Obtain income for reference person and all household members age 14 + RELATED TO REFERENCE PERSON by blood, marriage, or adoption.)</i></p>	~ 6 24 ~	Line No.	Amount		
	3940	[ ]	3950	\$ SAL1 00	
		PLINE		o <input type="checkbox"/> None	
	3960	[ ]	3970	\$ SAL2 00	
		PLINE2		o <input type="checkbox"/> None	
	3980	[ ]	3990	\$ SAL3 00	
		PLINE3		o <input type="checkbox"/> None	
	4000	[ ]	4010	\$ SAL4 00	
		PLINE4		o <input type="checkbox"/> None	
	4020	[ ]	4030	\$ SAL5 00	
		PLINE5		o <input type="checkbox"/> None	
4040	[ ]	4050	\$ SAL6 00		
	PLINE6		o <input type="checkbox"/> None		
4060	[ ]	4070	\$ SAL7 00		
	PLINE7		o <input type="checkbox"/> None		
4080	[ ]	4090	\$ SAL8 00		
	PLINE8		o <input type="checkbox"/> None		
4100	[ ]	4110	\$ SAL9 00		
	PLINE9		o <input type="checkbox"/> None		
4120	[ ]	4130	\$ SAL10 00		
	PLINE10		o <input type="checkbox"/> None		
<p><b>115a.</b> In the past 12 months did ..., or ... (Specify names for line numbers in item 114) -</p> <p>(1) Have a business, farm or ranch? .....</p> <p>(2) Receive social security or pensions? (Social security checks are green. Do not count pale gold SSI checks as social security.) .....</p> <p>(3) Receive any interest or dividend income of \$400 or more? .....</p> <p>(4) Receive rental income? .....</p> <p>(5) Receive welfare or SSI? .....</p> <p>(6) Receive alimony or child support? .....</p> <p>(7) Receive unemployment or worker's compensation or any other income? .....</p>	~ 6 11 ~				
	4140	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	QBUS	
	4160	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	QSS	
	4170	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	If all "No." QINT skip to item 116	
	4180	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No		QRENT
	4190	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No		QWELE
	4210	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No		QAUM
	4220	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	QOTHER	
<p><b>b.</b> In the past 12 months what was the total income from (Sources marked "Yes" in item 115a) after deducting expenses and losses?</p> <p><input type="checkbox"/> Verified that identical amounts in items 114 and 115b are not duplicate amounts</p>	4230	\$ VOTHER 00	Total income after deducting expenses and losses		
		OR			
	4240	\$ VOTHER 00	Amount of total net loss		
		OR			
		o <input type="checkbox"/> None or broke even			
<p><b>116.</b> Check item (See items 114 and 115b.) (Mark first box that applies.)</p> <p><input type="checkbox"/> Total income over \$20,000 - Skip to item 118a, page 27</p> <p><input type="checkbox"/> Income \$20,000 or less - Skip to item 117b, page 27</p> <p><input type="checkbox"/> Income is refused, NA or DK - Ask item 117a, page 27</p>					
<p>Notes</p>					

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S	84S	85N
0383	DLINE1	74N-93N 74S-93S	Line Number of Respondent 74N 75N-83N 85N-93N <u>74S-83S 84S-93S</u> 1-97 1-97	8	8	C2	C2
			1-88 1-88 89 Manager 90 Owner 91 Landlord 92 Rental/Real Estate Agent 93 Neighbor 94 Enumerator Observation 95 Other 98 98 98 Not Answered 99 99 99 URE, Or Non-Interview 99 99 99 Vacant, URE, Or Non-Interview 99 99 99 Vacant Or Non-Interview (URE Coded Above)				

0384	PLINE	74N-92N	Line Number-Reference Person	8	8	26	26
0385	PLINE2	74S-93S	Line Number-Person 2			C2	
0386	PLINE3		Line Number-Person 3			C2	
0387	PLINE4		Line Number-Person 4			26	C2
0388	PLINE5		Line Number-Person 5			C2	
0389	PLINE6		Line Number-Person 6			26	C2
0390	PLINE7		Line Number-Person 7	8	8	26	26
0391	PLINE8		Line Number-Person 8			C2	
0392	PLINE9		Line Number-Person 9			C2	26
0393	PLINE10		Line Number-Person 10			C2	26
0394	PLINE11		Line Number-Person 11	8	8	C2	C2
0395	PLINE12		Line Number-Person 12	8	8	C2	C2
0396	PLINE13		Line Number-Person 13	8	8	C2	C2
0397	PLINE14		Line Number-Person 14	8	8	C2	C2
0398	PLINE15		Line Number-Person 15	8	8	C2	C2

For All Variables, Standard Codes Are:

74N 75N-93N

75S-93S

0 Not Present

1-97 1-97 1-97

99 99 Not Present, Vacant, URE, Or Non-Interview

99 99 99 Vacant Or Non-Interview (URE Coded Above)

0399	PAR	85N-93N	Line Number of Parent Of Reference Person			84S	85N
0400	PAR2	84S-93S	Line Number of Parent of 2nd Person			C2	C2
0401	PAR3		Line Number of Parent of 3rd Person			C2	C2
0402	PAR4		Line Number of Parent of 4th Person			C2	C2
0403	PAR5		Line Number of Parent of 5th Person			C2	C2
0404	PAR6		Line Number of Parent of 6th Person			C2	C2
0405	PAR7		Line Number of Parent of 7th Person			C2	C2
0406	PAR8		Line Number of Parent of 8th Person			C2	C2
0407	PAR9		Line Number of Parent of 9th Person			C2	C2
0408	PAR10		Line Number of Parent of 10th Person			C2	C2
0409	PAR11		Line Number of Parent of 11th Person			C2	C2
0410	PAR12		Line Number of Parent of 12th Person			C2	C2
0411	PAR13		Line Number of Parent of 13th Person			C2	C2
0412	PAR14		Line Number of Parent of 14th Person			C2	C2
0413	PAR15		Line Number of Parent of 15th Person			C2	C2

For All Variables Above, Standard Codes Are:

1-97 1 to 97

98 Parent of Hhld Member Not Present In Hhld

99 Person Not Present In Hhld, Vacant, URE, or Non-Interview

Note: If both parents of a household member are living in the household, the line number of the first parent listed is entered. The second parent can be identified by using the variable SPOS below.

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			
0414	SPOS	85N-93N	Line Number of Spouse Of Reference Person		<u>84S</u>	<u>85N</u>	
0415	SPOS2	84S-93S	Line Number of Spouse of 2nd Person		C2	C2	
0416	SPOS3		Line Number of Spouse of 3rd Person		C2	C2	
0417	SPOS4		Line Number of Spouse of 4th Person		C2	C2	
0418	SPOS5		Line Number of Spouse of 5th Person		C2	C2	
0419	SPOS6		Line Number of Spouse of 6th Person		C2	C2	
0420	SPOS7		Line Number of Spouse of 7th Person		C2	C2	
0421	SPOS8		Line Number of Spouse of 8th Person		C2	C2	
0422	SPOS9		Line Number of Spouse of 9th Person		C2	C2	
0423	SPOS10		Line Number of Spouse of 10th Person		C2	C2	
0424	SPOS11		Line Number of Spouse of 11th Person		C2	C2	
0425	SPOS12		Line Number of Spouse of 12th Person		C2	C2	
0426	SPOS13		Line Number of Spouse of 13th Person		C2	C2	
0427	SPOS14		Line Number of Spouse of 14th Person		C2	C2	
0428	SPOS15		Line Number of Spouse of 15th Person		C2	C2	
For All Variables Above, Standard Codes Are:							
1-97 1 to 97							
98 Spouse of Hhld Member Not Present in Hhld							
99 Person Not Present in Hhld, Vacant, URE, Non-Interview, or Age 0-13							
0429	REFPER	79N	Line Number-Reference Person		<u>79N</u>		
			0 Not Applicable		25		
			1-97 1 to 97				
			98 Not Answered				
			99 Not Applicable, Vacant, URE, Or Non-Interview				
0430	REL	74N-93N 74S-93S	Relationship to Reference Person		<u>83N</u>	<u>83S</u>	<u>84S</u> <u>85N</u>
			74N 75N-83N 85N-93N	8	8	C2	C2
			75S-83S 84S-93N				
			1 Reference Person, Other Rels Present				
			2 Reference Person, No Rels Present				
		11 11	Head Of Household (Reference Person)				
		99 99	Vacant, URE Or Non-Interview				
		99	Vacant or Non-Interview (URE Coded Above)				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				83N	83S	84S	85N
0431	REL2	74N-93N	Relationship To Reference Person of Person 2	8	8	C2	C2
0432	REL3	75S-93S	Relationship To Reference Person of Person 3	8	8	C2	C2
0433	REL4		Relationship To Reference Person of Person 4	8	8	C2	C2
0434	REL5		Relationship To Reference Person of Person 5	8	8	C2	C2
0435	REL6		Relationship To Reference Person of Person 6	8	8	C2	C2
0436	REL7		Relationship To Reference Person of Person 7	8	8	C2	C2
0437	REL8		Relationship To Reference Person of Person 8	8	8	C2	C2
0438	REL9		Relationship To Reference Person of Person 9	8	8	C2	C2
0439	REL10		Relationship To Reference Person of Person 10	8	8	C2	C2
0440	REL11		Relationship To Reference Person of Person 11	8	8	C2	C2
0441	REL12		Relationship To Reference Person of Person 12	8	8	C2	C2
0442	REL13		Relationship To Reference Person of Person 13	8	8	C2	C2
0443	REL14		Relationship To Reference Person of Person 14	8	8	C2	C2
0444	REL15		Relationship To Reference Person of Person 15	8	8	C2	C2

For All Variables, Standard Codes Are:

74N 75N-83N 85N-93N

75S-83S 84S-93S

0			Not Present
		3	Husband of Ref Person
		4	Wife of Ref Person
12	12		Spouse of Ref Person
13	13	5	Unmarried Child of Ref Per (Natural, Adopted, Step) (excl Foster)
		6	Parent of Ref Person (excl Inlaws)
		7	Sibling of Ref Person (Natural, Step, Half)
4	4	8	Other Relative of Ref Person
5	5		Non-Relative (Partner)
6	6		Other Non-Relative
		9	Non-Relative w/Own Rel Present
		10	Non-Relative w/o Own Rel Present
21	21		Subfamily 1--Ref Person
22	22		Subfamily 1--Wife
23	23		Subfamily 1--Unmarried Child
31	31		Subfamily 2--Ref Person
32	32		Subfamily 2--Wife
33	33		Subfamily 2--Unmarried Child
41	41		Subfamily 3--Ref Person
42	42		Subfamily 3--Wife
43	43		Subfamily 4--Unmarried Child
51	51		Subfamily 4--Ref Person
52	52		Subfamily 4--Wife
53	53		Subfamily 4--Unmarried Child
		99	Not Present, Vacant, URE, or Non-Interview
99			Vacant Or Non-Interview (URE Coded Above)

Note: Code "12" Is Not Applicable For Persons 3-15

REF#	NAME	SURVEYS	DESCRIPTION	84S	85N
				C2	C2
0445	TEN	85N-93N	House Is Rented/Owned in Reference Person's Name	C2	C2
0446	TEN2	84S-93S	House Is Rented/Owned in Person Number 2's Name	C2	C2
0447	TEN3		House Is Rented/Owned in Person Number 3's Name	C2	C2
0448	TEN4		House Is Rented/Owned in Person Number 4's Name	C2	C2
0449	TEN5		House Is Rented/Owned in Person Number 5's Name	C2	C2
0450	TEN6		House Is Rented/Owned in Person Number 6's Name	C2	C2
0451	TEN7		House Is Rented/Owned in Person Number 7's Name	C2	C2
0452	TEN8		House Is Rented/Owned in Person Number 8's Name	C2	C2
0453	TEN9		House Is Rented/Owned in Person Number 9's Name	C2	C2
0454	TEN10		House Is Rented/Owned in Person Number 10's Name	C2	C2
0455	TEN11		House Is Rented/Owned in Person Number 11's Name	C2	C2
0456	TEN12		House Is Rented/Owned in Person Number 12's Name	C2	C2
0457	TEN13		House Is Rented/Owned in Person Number 13's Name	C2	C2
0458	TEN14		House Is Rented/Owned in Person Number 14's Name	C2	C2
0459	TEN15		House Is Rented/Owned in Person Number 15's Name	C2	C2

1 Yes  
8 Person Present But Did Not Answer  
9 Person Not Present in Hhld

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	
				84S	85N
0460	SUBF	85N-93N	Family Type (Person Number 1)	G	G
0461	SUBF2	84S-93S	Family Type (Person Number 2)	G	G
0462	SUBF3		Family Type (Person Number 3)	G	G
0463	SUBF4		Family Type (Person Number 4)	G	G
0464	SUBF5		Family Type (Person Number 5)	G	G
0465	SUBF6		Family Type (Person Number 6)	G	G
0466	SUBF7		Family Type (Person Number 7)	G	G
0467	SUBF8		Family Type (Person Number 8)	G	G
0468	SUBF9		Family Type (Person Number 9)	G	G
0469	SUBF10		Family Type (Person Number 10)	G	G
0470	SUBF11		Family Type (Person Number 11)	G	G
0471	SUBF12		Family Type (Person Number 12)	G	G
0472	SUBF13		Family Type (Person Number 13)	G	G
0473	SUBF14		Family Type (Person Number 14)	G	G
0474	SUBF15		Family Type (Person Number 15)	G	G

- 1 Person is member of reference person's family
- 2 Reference person with no relatives present
- 3 Person is part of a subfamily related to reference person
- 4 Person is part of a subfamily not related to reference person
- 5 Person is a non-relative without own relatives present

Note: Code 2 applies to the reference person ONLY.

		SURVEYS	DESCRIPTION	84S	85N
0475	FAM	85N-93N	Family Number of Person Number 1	G	G
0476	FAM2	84S-93S	Family Number of Person Number 2	G	G
0477	FAM3		Family Number of Person Number 3	G	G
0478	FAM4		Family Number of Person Number 4	G	G
0479	FAM5		Family Number of Person Number 5	G	G
0480	FAM6		Family Number of Person Number 6	G	G
0481	FAM7		Family Number of Person Number 7	G	G
0482	FAM8		Family Number of Person Number 8	G	G
0483	FAM9		Family Number of Person Number 9	G	G
0484	FAM10		Family Number of Person Number 10	G	G
0485	FAM11		Family Number of Person Number 11	G	G
0486	FAM12		Family Number of Person Number 12	G	G
0487	FAM13		Family Number of Person Number 13	G	G
0488	FAM14		Family Number of Person Number 14	G	G
0489	FAM15		Family Number of Person Number 15	G	G

- 0 Person has no relative present in household
- 1 Person is a member of the reference person's family
- 2-7 Person is a member of Family Number 2 through 7
- 9 Not Present, or Vacant

0490	AGE	73N	Age of Head/Reference Person				73N	83S	84S	85N
		85N-93N	73N	74S-77S	78S-83S	84S-93S	1	8	C2	C2
		74S-93S				85N-93N				

	10-90	91	10-96	97	01-98	99	99	99	99
	10-90 Years	91 Years or Older	10-96 Years	97 Years or Older	10-98 Years	Vacant (URE Coded Above), Non-Interview	99 Years or More, Vacant, URE, or Non-Interview	99	99

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			
				83N	83S	84S	85N
0491	AGE2	74N-93N	Age Of Person 2	8	8	C2	C2
0492	AGE3	75S-93S	Age Of Person 3	8	8	C2	C2
0493	AGE4		Age Of Person 4	8	8	C2	C2
0494	AGE5		Age Of Person 5	8	8	C2	C2
0495	AGE6		Age Of Person 6	8	8	C2	C2
0496	AGE7		Age Of Person 7	8	8	C2	C2
0497	AGE8		Age Of Person 8	8	8	C2	C2
0498	AGE9		Age Of Person 9	8	8	C2	C2
0499	AGE10		Age Of Person 10	8	8	C2	C2
0500	AGE11		Age Of Person 11	8	8	C2	C2
0501	AGE12		Age Of Person 12	8	8	C2	C2
0502	AGE13		Age Of Person 13	8	8	C2	C2
0503	AGE14		Age Of Person 14	8	8	C2	C2
0504	AGE15		Age Of Person 15	8	8	C2	C2

For All Variables, Standard Codes Are:

74N 75S-77S 75N-83N 85N-93N  
 78S-83S 84S-93S

	0	0	0	
	0			Less Than 1 Year
				Less Than 1 Year Or Not Present
			1-90	1-90 Years
			91	91 Years or more
1-96		1-96		1-96 Years
97		97		97 Years or more
	1-98			1-98 Years
		99	99	Not Present, Vacant, URE Or Non-Interview
		99		99 Years Or More, Not Present, Vacant, URE, Or Non-Interview
99				Vacant Or Non-Interview (URE Coded Above)

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.

0505	ZAGE	74N-83N	Age Of Head/Reference Person			
			74N	75N-76N	77N-81N	83N
			1	1	1	14-19 Years
			2	2	2	20-24 Years
			3	3	3	25-29 Years
			4	4	4	30-34 Years
			5	5	5	35-39 Years
			6	6	6	40-44 Years
			7	7	7	45-49 Years
			8	8	8	50-54 Years
			9	9	9	55-59 Years
			10	10	10	60-64 Years
			11	11	11	62-64 Years
			12	12		65-69 Years
					12	65-67 Years
					13	68-69 Years
			13	13	14	70-74 Years
			14	14	15	75-79 Years
			15	15	16	80-84 Years
			16	16	17	85-89 Years
			17	17	18	90 Years Or Over
				99	99	Vacant, URE Or Non-Interview
						Vacant Or Non-Interview, URE Coded Above

Note: Break in pattern for codes 10-12 or 13.

Notes: G = Variable is computer generated, and is not present on the questionnaire.  
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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0506	MAR	74N-93N	Marital Status Of Head/Reference Person	8	8	C2	C2
0507	MAR2	75S-93S	Marital Status Of Person 2	8	8	C2	C2
0508	MAR3		Marital Status Of Person 3	8	8	C2	C2
0509	MAR4		Marital Status Of Person 4	8	8	C2	C2
0510	MAR5		Marital Status Of Person 5	8	8	C2	C2
0511	MAR6		Marital Status Of Person 6	8	8	C2	C2
0512	MAR7		Marital Status Of Person 7	8	8	C2	C2
0513	MAR8		Marital Status Of Person 8	8	8	C2	C2
0514	MAR9		Marital Status Of Person 9	8	8	C2	C2
0515	MAR10		Marital Status Of Person 10	8	8	C2	C2
0516	MAR11		Marital Status Of Person 11	8	8	C2	C2
0517	MAR12		Marital Status Of Person 12	8	8	C2	C2
0518	MAR13		Marital Status Of Person 13	8	8	C2	C2
0519	MAR14		Marital Status Of Person 14	8	8	C2	C2
0520	MAR15		Marital Status Of Person 15	8	8	C2	C2

For All Variables, Standard Codes Are:

74N 75N-93N

75S-93S

0		Not Present
1	1	Married
2	2	Widowed
3	3	Divorced
4	4	Separated
5	5	Never married
	9	Age 0-13, Not Present, Vacant, URE, Or Non-Interview
9		Age 0-13, Vacant, Or Non-Interview (URE Coded Above)

REF#	NAME	SURVEYS	DESCRIPTION	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0521	RACE	73N-93N	Race Of Head/Reference Person	8	8	C2	C2
		74S-93S					

73N-74N 75N-83N 85N-93N

74S 75S-83S 84S-93S

1	1	1	White, Including Hispanic White
2	2	2	Black, Including Hispanic Black
		3	American Indian, Aleutian, Eskimo
3	3		Alaskan Native, American Indian, Asian, Or Pacific Islander
		4	Asian or Pacific Islander
		5	Other
	9	9	Vacant, URE, Or Non-Interview
9			Vacant Or Non-Interview (URE Coded Above)

REF#	NAME	SURVEYS	DESCRIPTION	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0522	RACE2	73N-93N	Race Of Person 2	8	8	C2	C2
0523	RACE3	75S-93S	Race Of Person 3	8	8	C2	C2
0524	RACE4		Race Of Person 4	8	8	C2	C2
0525	RACE5		Race Of Person 5	8	8	C2	C2
0526	RACE6		Race Of Person 6	8	8	C2	C2
0527	RACE7		Race Of Person 7	8	8	C2	C2
0528	RACE8		Race Of Person 8	8	8	C2	C2
0529	RACE9		Race Of Person 9	8	8	C2	C2
0530	RACE10		Race Of Person 10	8	8	C2	C2
0531	RACE11		Race Of Person 11	8	8	C2	C2
0532	RACE12		Race Of Person 12	8	8	C2	C2
0533	RACE13		Race Of Person 13	8	8	C2	C2
0534	RACE14		Race Of Person 14	8	8	C2	C2
0535	RACE15		Race Of Person 15	8	8	C2	C2

For All Variables, Standard Codes Are:

73N-74N 75N-83N 85N-93N

74S 75S-83S 84S-93S

0		Not Present	
1	1	White, Including Hispanic White	
2	2	Black, Including Hispanic Black	
		3	American Indian, Aleutian, Eskimo
3	3		Alaskan Native, American Indian, Asian, Or Pacific Islander
		4	Asian or Pacific Islander
		5	Other
	9	9	Not Present, Vacant, URE, Or Non-Interview
9			Vacant Or Non-Interview (URE Coded Above)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0536	RACE70	83S-93S	Race Of Household Head Who Occupied Unit In 1970/1980 1 Non-Black 2 Black 3 Unit Vacant In 1970/80 4 1970/80 Data Not Available Note: This data comes from the 1970 Census for sample cases selected from the 1970 Census, or from the 1980 Census for sample cases added to the sample after 1983. See LONGIT in the General Section to determine whether the data comes from the 1970 or 1980 Census.	<u>83S</u>	<u>84S</u>	C2	
0537	SPAN	73N-93N 74S-93S	Spanish Origin Of Head/Reference Person 73N-74N 75N-83N 85N-93N <u>74S-83S 84S-93S</u> 1 Hispanic or Spanish American 1 Mexican American 2 Chicano 3 Mexican 4 Mexicano 5 Puerto Rican 6 Cuban 7 Central or South American 8 Other Spanish 9 Not Hispanic or Spanish American 99 Vacant, URE, or Non-Interview (URE Coded Above)	<u>83N</u> 9	<u>83S</u> 9	<u>84S</u> C2	<u>85N</u> C2
0538	SPAN2	85N-93N	Spanish Origin Of Person 2	<u>84S</u> <u>85N</u>			
0539	SPAN3	84S-93S	Spanish Origin Of Person 3	C2 C2			
0540	SPAN4		Spanish Origin Of Person 4	C2 C2			
0541	SPAN5		Spanish Origin Of Person 5	C2 C2			
0542	SPAN6		Spanish Origin Of Person 6	C2 C2			
0543	SPAN7		Spanish Origin Of Person 7	C2 C2			
0544	SPAN8		Spanish Origin Of Person 8	C2 C2			
0545	SPAN9		Spanish Origin Of Person 9	C2 C2			
0546	SPAN10		Spanish Origin Of Person 10	C2 C2			
0547	SPAN11		Spanish Origin Of Person 11	C2 C2			
0548	SPAN12		Spanish Origin Of Person 12	C2 C2			
0549	SPAN13		Spanish Origin Of Person 13	C2 C2			
0550	SPAN14		Spanish Origin Of Person 14	C2 C2			
0551	SPAN15		Spanish Origin Of Person 15	C2 C2			
Standard Codes For All Variables Are:							
1 Hispanic or Spanish American							
2 Not Hispanic or Spanish American							
9 Vacant, URE, or Non-Interview							
0552	SPANR	79N	Spanish Origin Of Reference Person 1 Mexican-American 2 Chicano 3 Mexican 4 Mexicano 5 Puerto Rican 6 Cuban 7 Central or South American 8 Other Spanish 9 Not Hispanic (i.e., Anglo) 98 Not Answered 99 Vacant, URE, Non-Interview, Or Reference Person is Head	<u>79N</u> 25			
0553	SEX	73N-93N 74S-93S	Sex Of Head/Reference Person 73N-74N 75N-93N <u>74S</u> <u>75S-93S</u> 1 Male 2 Female 9 Vacant, URE, Or Non-Interview 9 Vacant Or Non-Interview (URE Coded Above)	<u>83N</u> 8	<u>83S</u> 8	<u>84S</u> C2	<u>85N</u> C2

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				83N	83S	84S	85N
0554	SEX2	74N-93N	Sex Of Person 2	8	8	C2	C2
0555	SEX3	75S-93S	Sex Of Person 3	8	8	C2	C2
0556	SEX4		Sex Of Person 4	8	8	C2	C2
0557	SEX5		Sex Of Person 5	8	8	C2	C2
0558	SEX6		Sex Of Person 6	8	8	C2	C2
0559	SEX7		Sex Of Person 7	8	8	C2	C2
0560	SEX8		Sex Of Person 8	8	8	C2	C2
0561	SEX9		Sex Of Person 9	8	8	C2	C2
0562	SEX10		Sex Of Person 10	8	8	C2	C2
0563	SEX11		Sex Of Person 11	8	8	C2	C2
0564	SEX12		Sex Of Person 12	8	8	C2	C2
0565	SEX13		Sex Of Person 13	8	8	C2	C2
0566	SEX14		Sex Of Person 14	8	8	C2	C2
0567	SEX15		Sex Of Person 15	8	8	C2	C2

For All Variables, Standard Codes Are:

74N 75N-93N

75S-93S

0		Not Present
1	1	Male
2	2	Female
9	9	Not Present, Vacant, URE, Or Non-Interview
		Vacant Or Non-Interview (URE Coded Above)

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S	84S	85N
				9	9	C2	C2
0568	GRADE1	74N-93N 75S-93S	Highest School Grade Attended By Head/Reference Person				
			74N 75N-83N 85N-93N				
			75S-83S 84S-93S				
			0 0 0 Never Attended				
			1 1 Kindergarten Only				
			2 2 1 Grade 1				
			3 3 2 Grade 2				
			4 4 3 Grade 3				
			5 5 4 Grade 4				
			6 6 5 Grade 5				
			7 7 6 Grade 6				
			8 8 7 Grade 7				
			9 9 8 Grade 8				
			10 10 9 Grade 9				
			11 11 10 Grade 10				
			12 12 11 Grade 11				
			13 13 12 Grade 12				
			14 14 21 1 Year of College				
			15 15 22 2 Years of College				
			16 16 23 3 Years of College				
			17 17 24 4 Years of College				
			18 18 25 1 Year of Graduate School				
			19 19 26 2 or More Years of Graduate School				
			99 99 99 Vacant, URE, or Non-Interview				
			99 Vacant or Non-Interview, or Age 0-13				
			99 Coded Above)				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>84S</u>	<u>85N</u>		
0569	GRAD2	85N-93N	Highest School Grade Attended By Person 2	G	G		
0570	GRAD3	84S-93S	Highest School Grade Attended By Person 3	G	G		
0571	GRAD4		Highest School Grade Attended By Person 4	G	G		
0572	GRAD5		Highest School Grade Attended By Person 5	G	G		
0573	GRAD6		Highest School Grade Attended By Person 6	G	G		
0574	GRAD7		Highest School Grade Attended By Person 7	G	G		
0575	GRAD8		Highest School Grade Attended By Person 8	G	G		
0576	GRAD9		Highest School Grade Attended By Person 9	G	G		
0577	GRAD10		Highest School Grade Attended By Person 10	C2	C2		
0578	GRAD11		Highest School Grade Attended By Person 11	C2	C2		
0579	GRAD12		Highest School Grade Attended By Person 12	C2	C2		
0580	GRAD13		Highest School Grade Attended By Person 13	C2	C2		
0581	GRAD14		Highest School Grade Attended By Person 14	C2	C2		
0582	GRAD15		Highest School Grade Attended By Person 15	C2	C2		
Standard Codes For All Variables Are:							
			0 Never Attended School				
			1 Grade 1				
			2 Grade 2				
			3 Grade 3				
			4 Grade 4				
			5 Grade 5				
			6 Grade 6				
			7 Grade 7				
			8 Grade 8				
			9 Grade 9				
			10 Grade 10				
			11 Grade 11				
			12 Grade 12				
			21 1 Year of College				
			22 2 Years of College				
			23 3 Years of College				
			24 4 Years of College				
			25 1 Year of Graduate School				
			26 2 Years or More of Graduate School				
			99 Vacant, URE, or Non-Interview				
0583	GRADER	79N	Highest School Grade Attended By Ref Person	<u>79N</u>	<u>25</u>		
			0 No School				
			1 Kindergarten				
			2 Grade 1				
			3 Grade 2				
			4 Grade 3				
			5 Grade 4				
			6 Grade 5				
			7 Grade 6				
			8 Grade 7				
			9 Grade 8				
			10 Grade 9				
			11 Grade 10				
			12 Grade 11				
			13 Grade 12 - High School Grad				
			14 1 Year College				
			15 2 Years College				
			16 3 Years College				
			17 4 Years College				
			18 5 Years College				
			19 6 Years College Or More				
			98 Not Answered				
			99 Vacant, URE, Non-Interview, Or Reference Person Is Head				
0584	OTH6	74N-93N	Other Persons Under 6 Yrs Old, Beyond Pers 1-15 Above	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0585	OTHN	75S-93S	Other Non-Relatives, Beyond Persons 1-15 Above	++	++	++	++
0586	OTHT		Other Persons Not Counted Above	++	++	++	++
			0-6 0-6				
			7 7 Or More				
			9 Not Applicable				

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0587	OTH17	74N-84N 75S-83S	Other Persons 6-17 Years Old, Beyond Pers 1-15 Above 0-6 0-6 7 7 Or More 9 Not Applicable	<u>83N</u> ++	<u>83S</u> ++		
0588	PER	73N-93N 74S-93S	Number of Persons In Household 73N-74N 75N-76N 77N 78N 79N 74S 75S-76S 77S-78S 80N-83N 79S-83S 85N-93N 84S-93S	<u>83N</u> 1	<u>83S</u> 1	<u>84S</u>	<u>85N</u>
			0 1-98 1-98 1-98 1-98 1-98 99 99 99 99				
			All URE, Some Vacant Some URE, Some Vacant 1-98 Occupied 1-98 Occupied and URE All URE, All Vacant, All Non-Interview All Vacant, All Non-Interview Some URE, All Vacant, All Non-Interview Some Vacant, Some Non-Interview Some URE, Some Vacant, All Non-Interview				
0589	ZADULT	85N-93N 84S-93S	Total Number Of Adults (18+) In Household 0-10 0-10 Adults 11 11 Or More Adults 98 Not Answered 99 URE, Vacant, Or Non-Interview			<u>84S</u> G	<u>85N</u> G
0590	PER65	73N-83N 74S	Number of Persons in Household Age 65 Or Over 74N 73N 75N-81N 83N 74S	<u>83N</u> 1	<u>74S</u> 1		
			0-98 0-98, Vacant 99 0-98 0-98 99 URE, Non-Interview (Vacant coded above) 99 URE, Vacant, Non-Interview				
0591	C6	73N-77N	No. of Children of Ref Person 0-6 Years Old, In Hhold	<u>77N</u> 1	<u>74S</u> 1		
0592	C617	74S	No. of Unmarried Children 6-17 of Ref Person, in Hhold 0 None 1-96 1-96 97 97 Or More 99 Not Applicable	1	1		
0593	C18	73N-74N 74S	No. of Unmarried Children 18 Or Over of Ref Per, in Hhold 0 None 1-96 1-96 97 97 Or More 99 Not Applicable	<u>74N</u> 1	<u>74S</u> 1		
0594	ZCHILD	73N-83N 74S	Children Under 18 Of Head/Reference Person, in Hhold 0 None 1 1 Under 6 Only 2 2 Under 6 Only 3 3 Or More Under 6 4 1 6-17 Only 5 2 6-17 Only 6 3 Or More 6-17 7 2, Both Age Groups 8 3 (Or More), Both Age Groups 99 Not Applicable	<u>83N</u> G	<u>74S</u> G		
0595	HHCOMP	73N-77N 74S	Presence of Spouse 1 Reference Person Without Spouse 2 Married Couple 9 Not Applicable	<u>77N</u> 1	<u>74S</u> 1		

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

0596	RELS	73N-83N 74S	Non-rels & Rels Other Than Spouse Or Children Present 0 No Relatives Other Than Spouse/Children or Nonrelatives Present 1 Relatives Other Than Spouse Or Children Present 2 Nonrelatives Present 3 Relatives and Nonrelatives 9 Not Applicable	<u>83N</u> 1	<u>74S</u> 1
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0597	S30	73N-77N	Number of Subfamily Heads Under 30	<u>77N</u> 1	<u>74S</u> 1
0598	S3064	74S	Number of Subfamily Heads 30 To 64	1	1
0599	S65		Number of Subfamily Heads 65 or Over	1	1
		73N 74N-77N			
		<u>74S</u>			
		0-1 0-1	None Or 1		
		99 9	Not Applicable		

0600	ZCOMP	73N-84N 74S-83S	Recoded HH Composition By Age, Sex of Reference Person 73N-74N 75N-77N 78N-80N 81N-83N	<u>83N</u> G	<u>83S</u> G
		<u>74S</u>	<u>75S-76S</u> <u>77S-79S</u> <u>80S-83S</u>		
		01	01 01 01		
		02	02 02 02		
		03	03 03 03		
		04	04 04 04		
		05	05 05 05		
		06	06 06 06		
			07 07 07		
		07			
			08 08 08		
			09 09 09		
			10 10 10		
			11 11 11		
		08	12 12 12		
		09			
			13 13 13		
			14 14 14		
			15 15 15		
			16 16 16		
			17 17 17		
		10	18 18 18		
		11			
			19 19 19		
			20 20 20		
			21 21 21		
			22 22 22		
			23 23 23		
		12	24 24 24		
		13			
			25 25 25		
			26 26 26		
			27 27 27		
			28 28 28		
			29 29 29		
		14	30 30 30		
			31 31 31		
			32 32 32		
			33 33 33		
			34 34 34		
			35 35 35		
			36 36 36		
			37 37 37		
			38 38 38		
			39 39 39		
			40 40 40		
			41 41 41		
			42 42 42		

Note: Use of this variable is not recommended, because some cases are miscoded in some years. Note also that MH=Male Head, NR=Non Relatives Present, NNR=No Non-Relatives Present.

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>83N</u>
0601	KLINE1	83N	Line Number of First Female Hhld Member 35 or Older	52
0602	KLINE2		Line Number Of Second Female Hhld Member 35 or Older	52
0603	KLINE3		Line Number Of Third Female Hhld Member 35 or Older	53
0604	KLINE4		Line Number Of Fourth Female Hhld Member 35 or Older	53
			For all Variables, Standard Codes Are:	
			1-97 1-97	
			98 Not Answered	
			99 Not Applicable	
				<u>83N</u>
0605	KIDS1	83N	First 35+ Female Raised Child(ren) To Adulthood	52
0606	KIDS2		Second 35+ Female Raised Child(ren) To Adulthood	52
0607	KIDS3		Third 35+ Female Raised Child(ren) To Adulthood	53
0608	KIDS4		Fourth 35+ Female Raised Child(ren) To Adulthood	53
			For All Variables, Standard Codes Are:	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
				<u>83N</u>
0609	NMKID1	83N	No. of Child(ren) Raised To Adulthood By 1st 35+ Female	52
0610	NMKID2		No. of Child(ren) Raised To Adulthood By 2nd 35+ Female	52
0611	NMKID3		No. of Child(ren) Raised To Adulthood By 3rd 35+ Female	53
0612	NMKID4		No. of Child(ren) Raised To Adulthood By 4th 35+ Female	53
			For All Variables, Standard Codes Are:	
			1-97 1-97	
			98 Not Answered	
			99 Not Applicable	
				<u>83N</u>
0613	KIDG01	83N	Any Child(ren) of First 35+ Female Left Home	52
0614	KIDG02		Any Child(ren) of Second 35+ Female Left Home	52
0615	KIDG03		Any Child(ren) of Third 35+ Female Left Home	53
0616	KIDG04		Any Child(ren) of Fourth 35+ Female Left Home	53
			For All Variables, Standard Codes Are:	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
				<u>83N</u>
0617	WKDG01	83N	When Most Recent Leaver Left (1st 35+ Female's Child)	52
0618	WKDG02		When Most Recent Leaver Left (2nd 35+ Female's Child)	52
0619	WKDG03		When Most Recent Leaver Left (3rd 35+ Female's Child)	53
0620	WKDG04		When Most Recent Leaver Left (4th 35+ Female's Child)	53
			For All Variable, Standard Codes Are:	
			1 Within the Last Year	
			2 More Than 1 But Less Than 3 Years Ago	
			3 Three Years To Less Than 5 Years Ago	
			4 Five Years To Less Than 10 Years Ago	
			5 Ten Years Ago or More	
			8 Not Answered	
			9 Not Applicable	

Data on income are available at various levels of detail: individual household member income, relative/non-relative income, family income, and household income. The term 'family' means the reference person and anyone else in the household related to the reference person. Data are available for total income, as well as individual income and assets components such as wages, social security, pensions, welfare, alimony, estates and interest income. This section also includes variables on subsidies received by the family (housing subsidies, energy subsidies) and on contributions towards rent made by non-relatives living in the unit. Starting in 1984, a variable indicating whether a household receives Food Stamps is available.

In all years, wages and salaries are reported separately for each family member (SAL1-SAL15). Similarly, sources of family income other than wages are available in all years. The level of detail in reporting income amounts from other sources and income of non-relatives varies from year to year (see documentation of variables in this section). Starting in 1984, family income other than wages and salaries is aggregated under one variable (VOTHER). Total income of non-relatives (wages, salaries and other incomes) is reported separately for each non-relative. Prior to 1984, the variables SAL1-SAL6 represented the salaries and wages of family members only. Wages of non-relatives were reported in YIWS. Starting in 1984, the variables SAL1-SAL15 contain the wages and salaries for family members, and total income for non-relatives. To determine whether a person is family or non-relative, use the variables REL, REL2-REL15 (relationship to the reference person) in the Household Composition Section. It should be noted that the reference person is always family, even if he or she has no relatives in the household.

Prior to 1984, separate variables LINE1-LINE6 were provided to link the salary information provided in SAL1-SAL6 to the appropriate family member. Starting in 1984, these variables are not needed, since there is a separate income field for every household member. Similarly, NRLIN1-NRLIN4 (line number of non-relative adults) have been dropped. See the introduction to the Household Composition section for a discussion of how line numbers are assigned to each household member and for a sample of the questions asked to collect income data.

Accounting Period--There may be significant differences in the income data between the American Housing Survey and other surveys and Censuses. For example, the time period for income data in the American 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. Because the AHS questions refer to the last 12 months, there may be some inconsistencies in the way respondents provide income information within the AHS. The interviews are being conducted in the fall of the survey year. Some respondents may provide information based on their last income tax return, while others may give answers based on their current income. Income includes a full year of income for all current members, even if they did not live in the household all year.

Income--Income in the American Housing Survey is based on the respondent's reply to questions on income for the 12 months prior to the interview and is 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.

There have been numerous studies attempting to assess the accuracy of self-reported income in various surveys. These studies show there are errors in both directions (over- and under-reporting), but that in general, income is under-reported. See Chapter 1 for more details.

Income data are collected for all individuals occupying the housing unit, generally 14 years old and over. Specific ages covered vary from survey to survey and question to question. The chart below summarizes the ages covered for each year and variable(s):

Age Groups Covered, By Income Variables and Survey Year

Year	SAL1-SAL15, INCOME, YIWS, YSLF,		VTOTAL, QSS-QOTHER,	
	YFRM, ESS-EOTHER,	YSS-YOTHER4	PBUS, PFARM, PROFIT	VSS-VOUTPR
73N, 74N, 74S, 75S		14+	all ages	all ages
75N-79N, 76S, 77S		14+	all ages	14+
78S, 79S		14+	all ages	all ages
80S		14+	all ages	15+
80N, 81N, 83N, 81S-83S		15+	all ages	15+
84S+, 85N+		14+	14+	14+

Wage or salary income--These are defined as the total money earnings received for work performed as an employee. 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.

Starting in 1984, there may be some double counting or inconsistent reporting between wages and income from business, although the interviewer instructions are clear on this point. Salary income includes salaries received by an official of a corporation even though the person may own stock in the corporation or be the sole employee. It excludes salaries which owners of incorporated businesses pay themselves. Respondents are first asked the salary questions and then they are asked if the Family has a business. The income from the business is to be included in the total "other income" figure. If the respondent does not distinguish between salaries paid by the corporation or paid to himself/herself and other income from business, such as profit, the total business income may be reported under wages or under other income, or in certain cases double counted, although interviewers are instructed to watch for double counting.

Social Security or Railroad Retirement income--This category 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. This category does not include money received from the Supplemental Security Income Program (SSI), which is included under other income below.

Income from all other sources--This includes money income received from sources such as periodic payments from estates and trust funds; dividends; interest; net rental income from property rentals; net receipts from roomers or boarders; net royalties; public assistance or welfare payments, which include cash 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. Before 1984, the sources of income specified to the respondent were more detailed than they have been since 1984. For example, there previously were three categories to capture pensions: "Social Security or Railroad Retirement payments," "Government employee pensions" and "Private pensions or annuities." Since 1984, all pensions have been combined under the heading "Social Security or pensions." This category is meant to capture Social Security payments and Railroad Retirement income as defined above, as well as private pensions or retirement benefits, pensions paid by the Federal, State, County, or other government agencies to former employees (including members of the Armed Forces) or their survivors, and annuities, such as money received as returns on investment, or from paid-up life insurance policies, IRA and KEOGH accounts. Starting in 1984, the word "annuities" is omitted. This may imply that annuities could be reported under other income or not reported at all if the respondent views an annuity as a withdrawal from savings.

Money from the following sources are not included as income: value of income "in kind", such as free living quarters, housing subsidies, food stamps, or food produced and consumed by the household; 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.

Publicly Owned or Subsidized Housing-- The data are not based on government or local records; the figures are, therefore, subject to the ability of a respondent to properly classify the unit as public or private and, if private, as subsidized or nonsubsidized housing. The publicly owned housing is not necessarily subsidized; for example, it includes houses owned by state colleges and by military bases as well as low income housing projects. Subsidized housing, furthermore, includes state and local programs as well as federal and need not be low income housing.

Starting in 1984, a series of detailed questions is asked of respondents to help determine whether the unit is in a Public Housing Project or any other subsidized unit, and whether the household receives some type of rental assistance such as Section 8.

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0621	ZINC	73N-93N 74S-93S	Inc Of Ref Person And Hshld Members Related To Ref Pers. 73N-83N 74S-83S	83N G	83S G	84S G	85N G
			0 -10000 -1 To -9999 1 To 49999 50000 999999	0 1-999996 -10000 999999	No Income \$1 to \$999,996 Loss Of \$10,000 Or More Loss of \$1 to \$9,999 \$1 to \$49,999 \$50,000 Or More URE, Vacant or Noninterview		
0622	ZINCA	85N-93N 84S-93S	Any Income Component Included in ZINC Top Coded 0 No 1 Yes 9 Not Applicable			84S G	85N G
0623	ZINC2	85N-93N 77S-81S 84S-93S	Income Of All Hshld Members Incl. Non-Relatives 85N-93N 77S-81S 84S-93S	81S G	84S G	85N G	
			0 -10000 -1 To -9999 1 To 49999 50000 999999	0 1-999996 -10000 999999	No Income \$1 to \$999,996 Loss Of \$10,000 Or More Loss of \$1 to \$9,999 \$1 to \$49,999 \$50,000 Or More URE, Vacant or Noninterview		
0624	ZINCB	85N-93N 84S-93S	Any Income Component Included in ZINC2 Top Coded 0 No 1 Yes 9 Not Applicable			84S G	85N G
0625	LINE1	74N-81N	Line Number of First Family Adult	83N 16	83S 16		
0626	LINE2	83N	Line Number of Second Family Adult	16	16		
0627	LINE3	75S-83S	Line Number of Third Family Adult	16	16		
0628	LINE4		Line Number of Fourth Family Adult	16	16		
0629	LINE5		Line Number of Fifth Family Adult	16	16		
0630	LINE6		Line Number of Sixth Family Adult	16	16		
			For All Variables, Standard Codes Are: 1-91 Line Number 99 Not Applicable				
			For LINE6, Additional Codes Are: 92 2 Extra Family Adults 93 3 Extra Family Adults 94 4 Extra Family Adults 95 5 Extra Family Adults 96 6 Extra Family Adults 97 7 Extra Family Adults				
			Note: in 78N-81N, the variable LINE6 contains bad values which will be corrected at a later date.				
0631	NRLIN1	77N-81N	Line Number of First Nonrelative Adult	83N 19	83S 19	84S 25	85N 25
0632	NRLIN2	83N	Line Number of Second Nonrelative Adult	19	19	25	25
0633	NRLIN3	85N-93N	Line Number Of Third Nonrelative Adult	19	19	25	25
0634	NRLIN4	76S-93S	Line Number Of Fourth Nonrelative Adult	19	19	25	25
0635	NRLIN5		Line Number Of Fifth Nonrelative Adult	G	G	G	G
0636	NRLIN6		Line Number Of Sixth Nonrelative Adult	G	G	G	G
0637	NRLIN7		Line Number Of Seventh Nonrelative Adult	G	G	G	G
0638	NRLIN8		Line Number Of Eighth Nonrelative Adult	G	G	G	G
			For All variables, Standard Codes Are: 1-91 Line Number 99 No Nonrelatives; Vacant, URE, Or Noninterview				

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

REF#	NAME	SURVEYS	DESCRIPTION	84S	85N
0639	HERE1	85N-93N	Income Of Nonrelative 1 Reported or Estimated by Respondent	31	31
0640	HERE2	84S-93S	Income Of Nonrelative 2 Reported or Estimated by Respondent	31	31
0641	HERE3		Income Of Nonrelative 3 Reported or Estimated by Respondent	31	31
0642	HERE4		Income Of Nonrelative 4 Reported or Estimated by Respondent	31	31
0643	HERE5		Income Of Nonrelative 5 Reported or Estimated by Respondent	++	++
0644	HERE6		Income Of Nonrelative 6 Reported or Estimated by Respondent	++	++
0645	HERE7		Income Of Nonrelative 7 Reported or Estimated by Respondent	++	++
0646	HERE8		Income Of Nonrelative 8 Reported or Estimated by Respondent	++	++
0647	HERE9		Income Of Nonrelative 9 Reported or Estimated by Respondent	++	++
0648	HERE10		Income Of Nonrelative 10 Reported or Estimated by Respondent	++	++
0649	HERE11		Income Of Nonrelative 11 Reported or Estimated by Respondent	++	++
0650	HERE12		Income Of Nonrelative 12 Reported or Estimated by Respondent	++	++
0651	HERE13		Income Of Nonrelative 13 Reported or Estimated by Respondent	++	++
0652	HERE14		Income Of Nonrelative 14 Reported or Estimated by Respondent	++	++
0653	HERE15		Income Of Nonrelative 15 Reported or Estimated by Respondent	++	++

Standard Codes For All Variables Are:

- 1 Nonrelative Provided Data
- 2 Respondent Provided Data
- 8 Not Answered
- 9 Person Not Present, or Not a Nonrelative

Note: HERE1 is always coded 9.

REF#	NAME	SURVEYS	DESCRIPTION	81S	83S	84S	85N
0654	NONREL	78S-81S	Number Of Nonrelatives Reporting Income	G			
			0-4 Number Of Nonrelatives Reporting Income				
			9 Vacant, URE or Non-Interview				
0655	SAL1	74N-93N	Annual Salary, Wages, Tips, Commissions-Family Adult 1	83N	83S	84S	85N
0656	SAL2	75S-93S	Annual Salary, Wages, Tips, Commissions-Family Adult 2	16	16	26	31
0657	SAL3		Annual Salary, Wages, Tips, Commissions-Family Adult 3			31	
0658	SAL4		Annual Salary, Wages, Tips, Commissions-Family Adult 4			26	31
0659	SAL5		Annual Salary, Wages, Tips, Commissions-Family Adult 5			++	
0660	SAL6		Annual Salary, Wages, Tips, Commissions-Family Adult 6			++	

For All Variables, Standard Codes Are:

74N	75S-83S	75N-83N	85N-93N	84S-93S	
0		0	0		None, Or No Adults 2-6 Present
					None
			1-100000		\$1-\$100,000
			100001		\$100,001 Or More
1-49999	1-49999				\$1-49,999
50000	50000				\$50,000 Or More
999999					Vacant, URE, Non-interview
	999999	999999	999999		No Adults 2-6 Present, Or Vacant, URE, Non-Interview

Note: If LINE6 is 92-97, SAL6 represents total earned income for all extra adults.

Note: The following years have spurious values:

- 77N - 1 case with ISTATUS=9 and spurious values in all family income variables, including some >\$50,000 (case deleted on Abt tapes).
- 74N - spurious 999999 values for occupied units in all variables:

- SAL1 - 22 such values
- SAL2 - 1373 such values
- SAL3 - 474 such values
- SAL4 - 198 such values
- SAL5 - 96 such values
- SAL6 - 36 such values

Note also that in a few cases in 78N-80N, 0 = No Adults Present. These cases should have been coded 999999. See the note under SAL7-SAL15 to use SAL1-SAL15 in 1984 and subsequent years.

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.

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0661	SAL7	85N-93N	Annual Salary, Wages, Tips, Commissions-Family Adult 7	84S 26	85N 26
0662	SAL8	84S-93S	Annual Salary, Wages, Tips, Commissions-Family Adult 8	++	
0663	SAL9		Annual Salary, Wages, Tips, Commissions-Family Adult 9	26	26
0664	SAL10		Annual Salary, Wages, Tips, Commissions-Family Adult 10	++	
0665	SAL11		Annual Salary, Wages, Tips, Commissions-Family Adult 11	++	++
0666	SAL12		Annual Salary, Wages, Tips, Commissions-Family Adult 12	++	++
0667	SAL13		Annual Salary, Wages, Tips, Commissions-Family Adult 13	++	++
0668	SAL14		Annual Salary, Wages, Tips, Commissions-Family Adult 14	++	++
0669	SAL15		Annual Salary, Wages, Tips, Commissions-Family Adult 15	++	++
For All Variables, Standard Codes Are: O None 1-100000 \$1-\$100,000 100001 \$100,001 Or More 999999 No Adults 7-15 Present, Or Vacant, URE, Non-Interview Note: Starting in 1984, SAL1-SAL15 reflect the salaries, wages, tips, and commissions of family members or the total income of non-relatives. Use PLINE-PLINE15 and REL-REL15 in the Household Composition section to determine whether the variables represent salaries or total income. See the introduction to this section for further information. 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.					
0670	VTOTAL	73N	Amt Of Family Income Other Than Wages, Busnss, Farm	73N 16	
			0-49999 \$0-\$49999		
			50000 \$50000 Or More		
			99999 Not Applicable		
0671	INCOME	73N	Family Income From Wages, Salary, Tips, Commis Etc.	73N 15	74S 16
		74S	0-49999 \$0-\$49999		
			50000 \$50000 Or More		
			99999 Not Applicable		
0672	PROFIT	73N	Family Income From Business, Prof Practice, Or Farm	73N 15	74S 16
		74S	-10000 Loss of \$10,000 Or More		
			-1 To -9999 Loss of \$1 To \$9,999		
			0 To 49999 Earnings of \$0 to \$49,999		
			50000 Earnings of \$50,000 Or More		
			999999 Not Applicable		
0673	PBUS	74N-81N	Family Earnings From Business Or Professional Practice	83N 16	83S 16
0674	PFARM	83N	Amt Of Family Earnings From Farm Or Ranch	16	16
		75S-83S	-10000 Loss of \$10,000 Or More		
			-1 To -9999 Loss of \$1 To \$9,999		
			0 To 49999 Earnings of \$0 to \$49,999		
			50000 Earnings of \$50,000 Or More		
			999999 Vacant, URE, Or Non-interview		
0675	YIWS	77N-81N	Nonrelative Income From Wages, Salary, Tips, Commis Etc.	83N G	83S G
		83N	0-49999 \$0-\$49999		
		76S-83S	50000 \$50000 Or More		
			999999 No Nonrelatives, Vacant, URE, Or Non-interview		
0676	YSLF	77N-81N	Nonrelative Earnings-Business Or Professional Practice	83N G	83S G
0677	YFRM	83N	Nonrelative Earnings Farm Or Ranch	G	G
		76S-83S	-10000 Loss of \$10,000 Or More		
			-1 To -9999 Loss of \$1 To \$9,999		
			0 To 49999 Earnings of \$0 to \$49,999		
			50000 Earnings of \$50,000 Or More		
			999999 No relatives, Vacant, URE, or Non-interview		
0678	QBUS	85N-93N	Family Adult(s) Had Business, Farm, Ranch In Past 12 Mos	84S 26	85N 26
		84S-93S	1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
Note: In 1984S, the question refers only to businesses. See QFARM below.					

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0679	QFARM	84S	Family Adult(s) Had Farm In Past 12 Months 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 26	
0680	QSS	73N-93N	Any Social Security or RR Retirement Income, Family	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0681	QINT	74S-93S	Any Interest Income, Family	17	17	26	26
0682	QRENT		Any Net Rental Income, Family	17	17	26	26
0683	QWELF		Any Welfare Or Public Assistance Income*, Family	17	17	26	26
0684	QALIM		Any Alimony Or Child Support Income, Family	17	17	26	26
0685	QOTHER		Any Other Income, Family For All Variables, Standard Codes Are: 1 Yes 2 No 9 Vacant, URE, or Non-Interview *Note: Starting with 80N and 81S, respondents are asked specifically "...such as SSI." Also, starting in 1985, QOTHER includes unemployment, workmen's compensation, and all other income specified separately in earlier years (see QDIV-WOUTPR below) as well as miscellaneous income not reported elsewhere. Starting in 1984S, QINT includes both interest and dividends. Starting in 1985, QINT is reported only if in excess of \$400.	17	17	26	26
0686	QDIV	73N-81N	Any Estates, Trusts, Or Dividends Income, Family	<u>83N</u>	<u>83S</u>		
0687	QWKCMP	83N	Any Workmens Compensation Income, Family	17	17		
0688	QGOVPN	74S-83S	Any Government Employee Pension Income, Family	17	17		
0689	QVET		Any Veteran's Payments Income, Family	17	17		
0690	QPRVPN		Any Private Pension & Annuity Income, Family	17	17		
0691	QOUTPR		Any Reg Contributions From Persons Not In Hhold, Family For All Variables, Standard Codes Are: 1 Yes 2 No 9 Vacant, URE, or Non-interview	17	17		
0692	QUNEMP	73N-81N 83N 74S-84S	Any Unemployment Compensation Income, Family 1 Yes 2 No 9 Vacant, URE, or Non-interview Note: In 1984S, Includes Worker's Compensation.	<u>83N</u> 17	<u>83S</u> 17	<u>84S</u> 26	
0693	QSAVNG	85N-93N	Family Adult(s) Have Savings			<u>84S</u>	<u>85N</u>
0694	QBINV	84S-93S	Family Adult(s) Have Investments In Farm/Business			27	27
0695	QOINV		Family Adult(s) Have Other Investments			27	27
0696	INV2OK		Total Amt of Savings/Investments Over \$20,000 For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable			27	27
0697	QAFDC	83N-87N	Any Hhld Members Receive Payments/Benefits from AFDC	<u>83N</u>			<u>85N</u>
0698	QSSI		Any Hhld Members Receive Payments/Benefits from SSI	30			48
0699	QGAPA		Any Hhld Members Receive General or Public Assistance	30			48
0700	QFS		Any Hhld Members Receive Food Stamps For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable Note: Asked only of Household with Income Less Than \$25,000 in 1983 and \$30,000 in 1985 and 1987.	30			48
0701	QFS1	85N-93N 84S-93S	Any Family Adults Receive Food Stamps In Last 12 Months 1 Yes 2 No 9 Not Applicable			<u>84S</u> 27	<u>85N</u> 27

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0702	VSS	74N-81N	Amt. Of Social Security Or RR Retirement Income, Family*	<u>83N</u>	<u>83S</u>	17	17
0703	VWELF	83N	Amt. Of Welfare Or Public Assistance Income*, Family	17	17		
		74S-83S	For All Variables, Standard Codes Are:				
			1-49999 \$1-\$49,999				
			50000 \$50,000 Or More				
			99999 No Income Of That Type; Vacant, URE Or Non-interview				
			*Note: Starting with 80N and 81S, respondents are asked specifically "...such as SSI."				
0704	VOTHER	74N-93N	Amount of Other Income, Family	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		74S-93S	74N-83N 78S-83S 85N-93N	17	17	26	26
			74S-77S <u>84S-93S</u>				
			-1--9999 Loss of \$1 to \$9999				
			-10000 Loss of \$10,000 or More				
			00000 000000 No Income				
			1-100000 \$1-\$100,000				
			100001 \$100,001 or More				
		1-49999 1-49999	\$1-\$49,999				
		50000 50000	\$50,000 Or More				
		99999 999999	No Income of That Type, Vacant, URE Or Non-Interview				
		99999	Vacant, URE, Or Non-Interview				
			Note: In 74S VOTHER includes private pensions, alimony and contributions by persons not in household. These are reported separately in other surveys. After 1983, VOTHER includes business/farm/ranch income, social security and pension income, interest and dividend income over \$400, rental income, welfare or SSI income, alimony, child support, unemployment or workmen's compensation, etc. 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.				
0705	VDIR	74S	Amt of Family Income From Dividends, Interest, Rent	<u>74S</u>			
0706	VUW		Family Income From Unemp & Wkmen Comp, Govt pnsns, VA	16			
			For Both Variables Codes Are:				
			0-49999 \$0-\$49999				
			50000 \$50000 Or More				
			99999 Not Applicable				
0707	VDIV	74N-81N	Amt. Of Estates, Trusts, Or Dividends Income, Family	<u>83N</u>	<u>83S</u>		
0708	VINT	83N	Amt. Of Interest Income, Family	17	17		
0709	VRENT	75S-83S	Amt. Of Net Rental Income, Family	17	17		
0710	VUNEMP		Amt. Of Unemployment Compensation Income, Family	17	17		
0711	VWKCMP		Amt. Of Workmens Compensation Income, Family	17	17		
0712	VGOVPN		Amt. Of Government Employee Pension Income, Family	17	17		
0713	VVET		Amt. Of Veteran's Payments Income, Family	17	17		
0714	VPRVFN		Amt. Of Private Pension & Annuity Income, Family	17	17		
0715	VALIM		Amt. Of Alimony Or Child Support Income, Family	17	17		
0716	VOUTPR		Amt. Of Reg Contributns From Persons Not In Hhold, Family	17	17		
			For All Variables, Standard Codes Are:				
			1-49999 \$1-49,999				
			50000 \$50,000 or More				
			99999 No Income of That Type, Vacant, URE, or Non-Interview				
0717	LODGE1	85N-93N	Non-Relative 1 Pays Fixed Rent As Lodger to Hholder	<u>84S</u>	<u>85N</u>	25	25
0718	LODGE2	84S-93S	Non-Relative 2 Pays Fixed Rent As Lodger to Hholder	25	25		
0719	LODGE3		Non-Relative 3 Pays Fixed Rent As Lodger to Hholder	25	25		
0720	LODGE4		Non-Relative 4 Pays Fixed Rent As Lodger to Hholder	25	25		
0721	LODGE5		Non-Relative 5 Pays Fixed Rent As Lodger to Hholder	++	++		
0722	LODGE6		Non-Relative 6 Pays Fixed Rent As Lodger to Hholder	++	++		
0723	LODGE7		Non-Relative 7 Pays Fixed Rent As Lodger to Hholder	++	++		
0724	LODGE8		Non-Relative 8 Pays Fixed Rent As Lodger to Hholder	++	++		
			For All Variables, Standard Codes Are:				
			1 Yes				
			2 No				
			9 Not Applicable				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>84S</u>	<u>85N</u>
0725	FRENT1	85N-93N	Frequency Of Non-Relative 1's Rent	25	25
0726	FRENT2	84S-93S	Frequency Of Non-Relative 2's Rent	25	25
0727	FRENT3		Frequency Of Non-Relative 3's Rent	25	25
0728	FRENT4		Frequency Of Non-Relative 4's Rent	25	25
0729	FRENT5		Frequency Of Non-Relative 5's Rent	++	++
0730	FRENT6		Frequency of Non-Relative 6's Rent	++	++
0731	FRENT7		Frequency of Non-Relative 7's Rent	++	++
0732	FRENT8		Frequency of Non-Relative 8's Rent	++	++
			For All Variables, Standard Codes Are:		
			1-52 1 to 52 Times Per Year		
			99 Not Applicable		
				<u>84S</u>	<u>85N</u>
0733	RENT1	85N-93N	Amount of Rent Paid By Non-Relative 1.	25	25
0734	RENT2	84S-93S	Amount of Rent Paid By Non-Relative 2	25	25
0735	RENT3		Amount of Rent Paid By Non-Relative 3	25	25
0736	RENT4		Amount of Rent Paid By Non-Relative 4	25	25
0737	RENT5		Amount of Rent Paid By Non-Relative 5	++	++
0738	RENT6		Amount of Rent Paid by Non-Relative 6	++	++
0739	RENT7		Amount of Rent Paid by Non-Relative 7	++	++
0740	RENT8		Amount of Rent Paid by Non-Relative 8	++	++
			For All Variables, Standard Codes Are:		
			<u>84S-93S</u> <u>85N-93N</u>		
			1-500 \$1-\$500		
			501 \$501 or More		
			1-750 \$1-\$750		
			751 \$751 or More		
			999 999 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.		
				<u>84S</u>	<u>85N</u>
0741	F00D1	85N-93N	Rent Paid By Non-Relative 1 Includes Food	25	25
0742	F00D2	84S-93S	Rent Paid By Non-Relative 2 Includes Food	25	25
0743	F00D3		Rent Paid By Non-Relative 3 Includes Food	25	25
0744	F00D4		Rent Paid By Non-Relative 4 Includes Food	25	25
0745	F00D5		Rent Paid By Non-Relative 5 Includes Food	25	25
0746	F00D6		Rent Paid By Non-Relative 6 Includes Food	25	25
0747	F00D7		Rent Paid By Non-Relative 7 Includes Food	25	25
0748	F00D8		Rent Paid By Non-Relative 8 Includes Food	25	25
			For All Variables, Standard Codes Are:		
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
0749	ESS	77N	Any Social Security Or RR Retirement Income, non-rels	18	18
0750	EDIV	76S-83S	Any Estates, Trusts, Or Dividends Income, non-rels	18	18
0751	EINT		Any Interest Income, non-rels	18	18
0752	ERENT		Any Net Rental Income, non-rels	18	18
0753	EWELF		Any Welfare Or Public Assistance Income*, non-rels	18	18
0754	EUNEMP		Any Unemployment Compensation Income, non-rels	18	18
0755	EWKCOMP		Any Workmens Compensation Income, non-rels	18	18
0756	EGOVPN		Any Government Employee Pension Income, non-rels	18	18
0757	EVET		Any Veteran's Payments Income, non-rels	18	18
0758	EPRVPN		Any Private Pension & Annuity Income, non-rels	18	18
0759	EALIM		Any Alimony Or Child Support Income, non-rels	18	18
0760	EQUTPR		Any Reg Contributions From Pers. Not In Hhold, non-rels	18	18
0761	EOTHER		Any Other Income, non-rels	18	18
			For All Variables, Standard Codes Are:		
			1 Yes		
			2 No		
			9 Vacant, URE, or Non-interview		
			*Note: Starting with 81S, respondents are asked specifically "...such as SSI."		
				<u>77N</u>	<u>83S</u>

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>
0762	YSS	77N-81N	Amt. Of Soc Security Or RR Retirement Income, non-rels	G	G
0763	YDIV	83N	Amt. Of Estates, Trusts, Or Dividends Income, non-rels	G	G
0764	YINT	76S-83S	Amt. Of Interest Income, non-rels	G	G
0765	YRENT		Amt. Of Net Rental Income, non-rels	G	G
0766	YWELF		Amt. Of Welfare Or Public Assistance Income*, non-rels	G	G
0767	YUNEMP		Amt. Of Unemployment Compensation Income, non-rels	G	G
0768	YWKCOMP		Amt. Of Workmens Compensation Income, non-rels	G	G
0769	YGOVNP		Amt. Of Government Employee Pension Income, non-rels	G	G
0770	YVET		Amt. Of Veteran's Payments Income, non-rels	G	G
0771	YPRVNP		Amt. Of Private Pension & Annuity Income, non-rels	G	G
0772	YALIM		Amt. Of Alimony Or Child Support Income, non-rels	G	G
0773	YOUTPR		Amt. Of Reg Contrib From Persons Not In Hhold, non-rels	G	G
0774	YOTHER		Amt. Of Other Income, non-rels	G	G

For All Variables, Standard Codes Are:

77N,79N 78N,83N

76S-83S 80N-81N

0-49999 0-49999 \$0-49,999

50000 50000 \$50,000 Or More

999999 99999 No Non-rels, Vacant, URE, Non-Interview

999999 Not In Sample

\*Note: Starting With 80N and 81S, respondents are asked specifically "...such as SSI."

REF#	NAME	SURVEYS	DESCRIPTION	80N
0775	YSLF2	80N	Nonrel 2 Income from Business or Professional Practice	19
0776	YSLF3		Nonrel 3 Income from Business or Professional Practice	19
0777	YSLF4		Nonrel 4 Income from Business or Professional Practice	19
0778	YFRM2		Nonrel 2 Income from Farm or Ranch	19
0779	YFRM3		Nonrel 3 Income from Farm or Ranch	19
0780	YFRM4		Nonrel 4 Income from Farm or Ranch	19

For All Variables, Standard Codes Are:

-10000 Loss of \$10,000 Or More

-1 To -9999 Loss of \$1 To \$9,999

0 To 49999 Earnings of \$0 to \$49,999

50000 Earnings of \$50,000 Or More

999999 No Nonrelatives, Vacant, URE, Or

Non-Interview

Note: Individual income amounts for non-relative 1 have not been released. Individual income amounts for non-relatives 2-4 will be released on a separate tape. It is estimated that only 300-400 cases per year have more than one adult non-relative. The individual income amounts for non-relative 1 may be derived by subtracting individual amounts for non-relatives 2-4 from the total, or by using the total when there is only one non-relative adult.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>80N</u>
0781	YIWS2	80N	Nonrel 2 Income from Wages, Salary, Tips, Commis Etc.	19
0782	YIWS3		Nonrel 3 Income from Wages, Salary, Tips, Commis Etc.	19
0783	YIWS4		Nonrel 4 Income from Wages, Salary, Tips, Commis Etc.	19
0784	YSS2		Amt of Soc Sec or RR Retirement Inc Rec'd By Non-rel 2	19
0785	YSS3		Amt of Soc Sec or RR Retirement Inc Rec'd By Non-rel 3	19
0786	YSS4		Amt of Soc Sec or RR Retirement Inc Rec'd By Non-rel 4	19
0787	YDIV2		Amt of Estates/Trusts/Dividends Inc Rec'd By Non-rel 2	19
0788	YDIV3		Amt of Estates/Trusts/Dividends Inc Rec'd By Non-rel 3	19
0789	YDIV4		Amt of Estates/Trusts/Dividends Inc Rec'd By Non-rel 4	19
0790	YINT2		Amt of Interest Income Rec'd By Non-rel 2	19
0791	YINT3		Amt of Interest Income Rec'd By Non-rel 3	19
0792	YINT4		Amt of Interest Income Rec'd By Non-rel 4	19
0793	YRENT2		Amt of Net Rental Income Rec'd By Non-rel 2	19
0794	YRENT3		Amt of Net Rental Income Rec'd By Non-rel 3	19
0795	YRENT4		Amt of Net Rental Income Rec'd By Non-rel 4	19
0796	YWELF2		Amt of Welfare or Public Assist Inc Rec'd By Non-rel 2	19
0797	YWELF3		Amt of Welfare or Public Assist Inc Rec'd By Non-rel 3	19
0798	YWELF4		Amt of Welfare or Public Assist Inc Rec'd By Non-rel 4	19
0799	YUNEMP2		Amt of Unemployment Compensation Rec'd By Non-rel 2	19
0800	YUNEMP3		Amt of Unemployment Compensation Rec'd By Non-rel 3	19
0801	YUNEMP4		Amt of Unemployment Compensation Rec'd By Non-rel 4	19
0802	YWKCOMP2		Amt of Workmens Compensation Rec'd By Non-rel 2	19
0803	YWKCOMP3		Amt of Workmens Compensation Rec'd By Non-rel 3	19
0804	YWKCOMP4		Amt of Workmens Compensation Rec'd By Non-rel 4	19
0805	YGOVNP2		Amt of Government Employee Pension Rec'd By Non-rel 2	19
0806	YGOVNP3		Amt of Government Employee Pension Rec'd By Non-rel 3	19
0807	YGOVNP4		Amt of Government Employee Pension Rec'd By Non-rel 4	19
0808	YVET2		Amt of Veteran's Payments Rec'd By Non-rel 2	19
0809	YVET3		Amt of Veteran's Payments Rec'd By Non-rel 3	19
0810	YVET4		Amt of Veteran's Payments Rec'd By Non-rel 4	19
0811	YPRVPN2		Amt of Priv Pension & Annuity Income Rec'd By Non-rel 2	19
0812	YPRVPN3		Amt of Priv Pension & Annuity Income Rec'd By Non-rel 3	19
0813	YPRVPN4		Amt of Priv Pension & Annuity Income Rec'd By Non-rel 4	19
0814	YALIM2		Amt of Alimony/Child Support Rec'd By Non-rel 2	19
0815	YALIM3		Amt of Alimony/Child Support Rec'd By Non-rel 3	19
0816	YALIM4		Amt of Alimony/Child Support Rec'd By Non-rel 4	19
0817	YOUTPR2		Amt of Reg Contrib From Non-HH Per Rec'd By Non-rel 2	19
0818	YOUTPR3		Amt of Reg Contrib From Non-HH Per Rec'd By Non-rel 3	19
0819	YOUTPR4		Amt of Reg Contrib From Non-HH Per Rec'd By Non-rel 4	19
0820	YOTHER2		Amt of Other Income Rec'd By Non-rel 2	19
0821	YOTHER3		Amt of Other Income Rec'd By Non-rel 3	19
0822	YOTHER4		Amt of Other Income Rec'd By Non-rel 4	19

For All Variables, Standard Codes Are:

0-49999 \$0-49,999

50000 \$50,000 Or More

99999 No Non-rels 2-4, Vacant, URE, Non-interview

Note: Individual income amounts for non-relative 1 have not been released. Individual income amounts for non-relatives 2-4 will be released on a separate tape. It is estimated that only 300-400 cases per year have more than one adult non-relative. The individual income amounts for non-relative 1 may be derived by subtracting individual amounts for non-relatives 2-4 from the total, or by using the total when there is only one non-relative adult.

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S	84S	85N
0823	PROJ	73N-93N 74S-93S	Publicly Owned Housing 73N-77N 78N-93N <u>74S-83S 84S-93S</u>	15	15	14	15

1	1	Yes
2	2	No
8	8	Not Answered
9		Non-Interview, URE, or Owner-Occupied
	9	Vacant, URE, Non-Interview Or Owner-Occupied

Note: Includes all local, state, and federal owned housing, not just HUD public housing. Starting in 1984, the question specifies "owned by a public housing authority".

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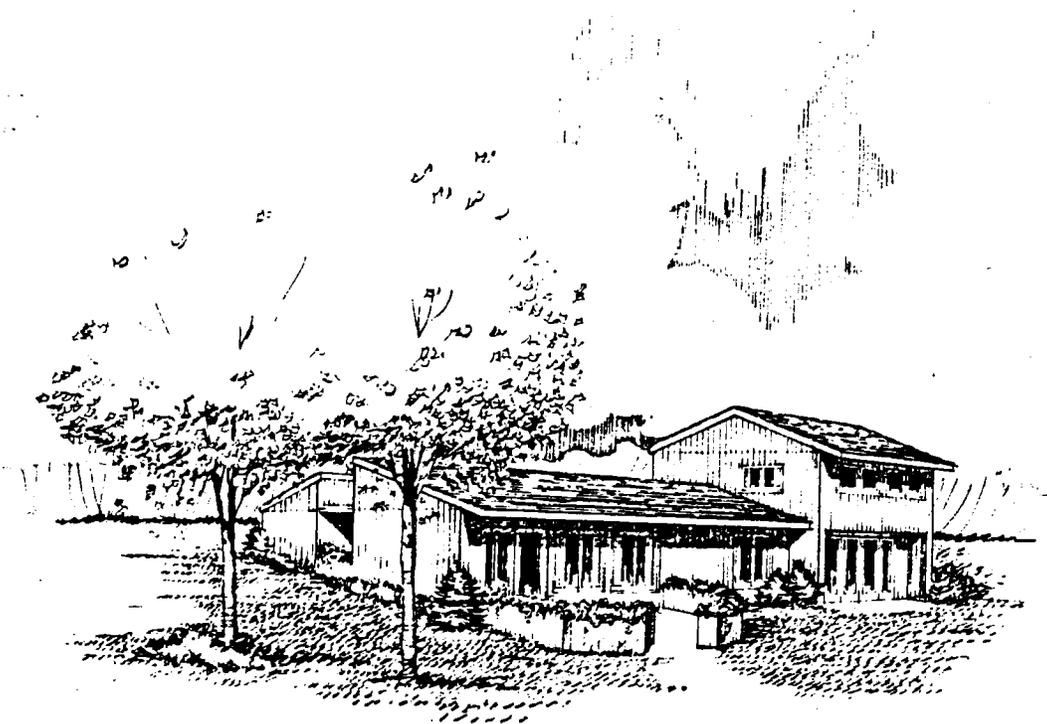
REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0824	SUB	73N-93N 74S-93S	Federal Govt Pays Some Of The Cost Of The Unit 1 Yes 2 No 8 Not Answered 9 Vacant, URE, Non-Interview, Owner Occupied Or Publicly Owned Note: Prior to 1984, the question includes state and local government subsidies as well. After 1983, state and local subsidies are dealt with in the variable SUBLOC below.	<u>83N</u> 15	<u>83S</u> 15	<u>84S</u> 14	<u>85N</u> 15
0825	SUBLOC	85N-93N	State Or Local Government Pays Some Costs For Unit			<u>84S</u> 14	<u>85N</u> 15
0826	SUBINC	84S-93S	Hhld Income Reported Each Year So Rent Can Be Set For Both Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable			14	15
0827	SUBMOR	85N-93N 84S-93S	Low Cost Mortgage Obtained Thru Govt Program 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 19	<u>85N</u> 19
0828	WHYNCR	74N-77N 75S-81S	Reason For No Cash Rent 1 Living Quarters Provided With Job 2 Live With Friend Or Relative 3 Other Reason 8 Not Answered 9 Other Than "No Cash Rent" In TENURE	<u>77N</u> 10	<u>81S</u> 10		
0829	JOBNCR	74N-77N 75S-81S	Type Of Job Allowing No Cash Rent 1 Tenant Farmer 2 Farm Manager 3 Farm Laborer 4 Other Farm Related 5 Not Farm Related 8 Not Answered 9 Other Than Code "1" In WHYNCR	<u>77N</u> 10	<u>81S</u> 10		
0830	RNTADJ	85N-93N 84S-93S	Rent Adjusted Because Hhldr Works For/Related To Owner 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 14	<u>85N</u> 15
0831	RCNTRL	85N-93N 84S-93S	Unit Is Under Rent Control 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 14	<u>85N</u> 15
0832	HTASST	83N-87N	Hhld Rec. Assistance for Home Heat from Govt Oct.-Sept.	<u>83N</u> 30			<u>85N</u> 48
0833	CLASST		Hhld Rec. Assistance To Cool Home from Govt Oct.-Sept.	30			48
0834	EEASST		Hhld Rec. Assistance For Energy Emergency Oct.-Sept.	30			48
0835	ECASST		Hhld Rec. Services From Energy Saving Prog Oct.-Sept. For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable Note: Asked Only of Households With Income Less Than \$25,000 in 1983, and \$30,000 in 1985 and 1987.	30			48
0836	HEASST	85N 87N	Government Helped In Paying Home Energy Costs 1 Yes 2 No 8 Not Answered 9 Not Applicable				<u>85N</u> 48
0837	WRHTAS	85N 87N	Address At Which Heating Assistance Was Received 1 Current Address 2 Previous Address 3 Both Current And Previous Address 8 Not Answered 9 Not Applicable				<u>85N</u> 48

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

0838	HTASCR	83N	Home Heat Assistance For Current Residence	<u>83N</u>
0839	HTASPR		Home Heat Assistance For Previous Residence	30
			For All Variables, Standard Codes Are:	30
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
			Note: Asked Of Recent Movers Only In Households With Incomes Less Than \$25,000.	

## Paired Units for Handicapped and Able-Bodied Residents



<b>Project</b>	Earth-Sun Design	<b>Consultant for</b>	James L. Solenberger	This design for a duplex unit provides a barrier-free apartment for a disabled individual or couple and a unit for an able-bodied person or family. Numerous occupancy combinations are possible from such pairings of barrier-free units with "able bodied" units, including various rental or ownership options and inter-generational family occupation of a common structure.
<b>Sponsor:</b>	Division of Maslavski/Litvan Architects and Planners, Inc. P.O. Box 2473 Springfield, Illinois 62705	<b>Barrier-Free Access:</b>		
<b>Architect:</b>	Maslavski/Litvan Architects and Planners, Inc.	<b>Floor Area:</b>	Residence "A" = 1,104 sq. ft. Residence "B" = 1,224 sq. ft.	
<b>Site and Landscaping Consultant:</b>	Jeffrey J. Mitchell, Sr.			

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## Poured Adobe Construction

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**Project:** Michael Belshew, Ph.D.  
**Sponsor:** Camp Wood Star Route  
 Prescott, Arizona 86301

**Project:** Michael Belshew, Ph.D.  
**Team:** Glenn Olsen

**Floor Area:** 1,200 sq. ft.

Energy efficient adobe construction is achieved in this design without the manufacturing, transportation and skilled labor costs normally associated with adobe brick. Poured adobe construction allows for design flexibility and for use of relatively unskilled labor at the construction site.

The monolithic walls contain pre-installed reinforcing, ducts and conduits. In desert climates, all necessary space cooling can be achieved by using external shading devices over the vigas (poles) extending from the roof structure, reflective roof coloration, use of a patio to capture prevailing winds, operable skylights and windows, and reliance on the thermal stability of the thick adobe walls.

This section documents data collected on the types of fuels used to operate different types of equipment in the home (including supplemental heating equipment), and the costs of utilities. Data are also available on the costs of services such as garbage collection. Cost data on mortgages and rent, taxes, furnishings and insurance are presented in the Housing Value and Costs section. Fuel and utility costs for previous residence are presented in the Mobility section data. Different variables were used for renters, owners Mobility section. Prior to 1984, the Census Bureau distinguished between several types of units in collecting utility cost data. Different variables in single family units, owners in condominium, etc. The information was asked every year for renters and owner-occupied one-unit structures on less than 10 acres having no commercial establishment or medical or dental office on the property. It was asked only in selected years for the other types of owner occupied units. Utility costs questions were not asked for renters in single family units on more than 10 acres. Starting in 1984, the information is available for all units and the same variable name is used for all groups of respondents. We chose the name which had earlier been used for single family owners, since they are most numerous. See the table on the next page to select the variables appropriate for a specific analysis.

Heating and Cooking Fuel--"Gas from underground pipes" is gas run through pipes from a central system to serve the neighborhood. "Bottled, or other liquid fuel" is stored in tanks which are refilled or exchanged when empty. "Kerosene and other liquid fuel" includes kerosene, gasoline, alcohol, and other combustible liquids. "Other fuel" includes any other fuel such as: briquettes made of pitch and sawdust; corncobs; or purchased steam.

Utility Costs--The cost of utilities is not collected if the cost is included in rent, site rent, condominium or other fee, or if the fuel is not used or obtained free. The amount for each utility is the average for the past 12 months to take seasonal variations into account. Collecting information on utility costs is always difficult. Unless a household subscribes to a "continuous level billing" plan, utility costs fluctuate greatly from one month to the other. Heating bills are much higher in cold winters and air conditioning affects the electricity costs during the summer months. Some households receive a combined bill for more than one fuel. Respondents are asked to state their

average monthly costs based on the last 12 months. If the respondent does not know the exact cost, the interviewer accepts an estimate, probing as necessary to obtain the estimate. Starting in 1984, an estimate for several utilities combined is accepted, if the respondent cannot provide amounts for each utility. A separate variable allows the user to determine which utilities are included in the combined amount. If a respondent does not know the cost of fuel oil, coal, or wood, the interviewer helps the respondent by obtaining information on the number of gallons (tons or cords) used and the cost per unit. If the occupants have been living in the unit for less than twelve months, an estimate based on experience and general knowledge of costs is recorded.

Fuel & Utility Costs Variables

Variable Name	Owners				Renters
	Single Family Detached/Attached >10 Acres, No Drs. or Commercial Est.	Mobile Homes On Less Than 10 Acres	Condominium/Cooperative	Other*	
HFUEL-FHOTH1	Yes	Yes	Yes	Yes	Yes
BUYE-AMTW, 1984-1993 1973-1983	Yes Yes	Yes	Yes	Yes	Yes
AMTF	Yes	Yes	Yes	Yes	Yes
PAYE-OTHF					Yes
CBUYE-CAMTO			Yes		
CONE-CONT			Yes		
PBUYE-PAMTO				Multi-Family	
NORESE-SPBILT				Multi-Family	
ZUTIL-ZUTIL2					Yes
BILLGE-BILLWT	Yes	Yes	Yes	Yes	Yes
VOLTS	Yes	Yes	Yes	Yes	
NHBILL	Income> \$30,000	Income> \$30,000	Income> \$30,000	Income> \$30,000	Income> \$30,000
EVEN, OVER	Yes	Yes	Yes	Yes	Yes

\*Other includes single family units on less than 10 acres with doctors or commercial establishments, duplex, two unit mobile homes, multifamily, single family or mobile home on more than 10 acres.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0840	HFUEL	73N-93N 74S-93S	<b>Main Heating Fuel</b> 73N-76N 77N-81N 85N-93N <u>74S-83S 83N 84S-93S</u>	<u>83N</u> 3	<u>83S</u> 3	<u>84S</u> 7	<u>85N</u> 7
			1 1 Gas From Underground Pipes				
			2 2 Gas LP, Bottled, or Tank				
			3 2 Gas				
			3 3 Fuel Oil And Kerosene				
			4 3 Fuel Oil				
			4 4 Kerosene				
			4 4 Kerosene Or Other Liquid Fuel				
			5 1 Electricity				
			5 5 Coal or Coke				
			6 6 Wood				
			7 7 Solar Energy				
			7 8 Other Fuel				
			8 9 No Fuel Used				
			99 99 Not Applicable				
			Note: 1974 Census documentation is in error. The question does not also refer to primary cooking fuel. Also, in 1977N to 1980N, the Census documentation refers to a code 10 which is not present in the files.				
0841	HFUELC	78N-81N	<b>Change in Main Heating Fuel Since Last Survey</b>	<u>81N</u>			
			1 Yes	4			
			2 No				
			3 Not Sure				
			8 Not Answered				
			9 Not Applicable				
0842	HFC12	80N	<b>Change in Heating Fuel in Last 12 Months.</b>	<u>80N</u>			
			1 Yes	35			
			2 No				
			3 Don't Know				
			8 Not Answered				
			9 Not Applicable				
			Note: Asked Only Of Mover Households.				
0843	CFUEL	73N-80N 85N-93N 74S-81S 84S-93S	<b>Primary Cooking Fuel</b> 73N-80N 85N-93N <u>74S-81S 84S-93S</u>	<u>80N</u> 34	<u>81S</u> 12	<u>84S</u> 6	<u>85N</u> 6
			3 1 Electricity				
			2 2 Gas				
			1 1 Gas From Underground Pipes				
			2 2 Gas LP, Bottled or Tank				
			3 3 Kerosene or Other Liquid Fuel				
			4 4 Fuel Oil, Kerosene				
			5 4 Coal or Coke				
			6 5 Wood				
			7 6 Other Fuel				
			8 7 No Fuel Used				
			99 9 Not Applicable				
0844	WFUEL	77N-80N 85N-93N 84S-93S	<b>Fuel Used To Heat Water</b> 77N-80N 85N-93N <u>84S-93S</u>	<u>80N</u> 34		<u>84S</u> 5	<u>85N</u> 5
			3 1 Electricity				
			2 2 Gas				
			1 1 Gas From Underground Pipes				
			2 2 Bottled Gas				
			4 3 Fuel Oil				
			5 4 Kerosene or Other Liquid Fuel				
			6 5 Coal or Coke				
			6 6 Wood				
			7 7 Solar Energy				
			8 8 Other Fuel				
			9 9 No Fuel Used				
			10 Not Answered				
			99 9 Not Applicable				

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UTILITIES (Continued)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0845	WSOLAR	78N-80N	Supplemental Solar Water Heating Unit 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>80N</u> 34	
0846	AFUEL	85N-93N	Fuel Used By Central Air Conditioning System	<u>84S</u> 7	<u>85N</u> 7
0847	DFUEL	84S-93S	Fuel Used By Clothes Dryer 1 Electricity 2 Gas 3 Other 8 Not Answered 9 Not Applicable	7	7
0848	GASPIP	85N-93N	Source of Gas For All Household Uses	<u>84S</u> 23	<u>85N</u> 24
0849	GASPI2	84S-93S	Source of Vacant Unit's Heating Gas 1 Underground Pipes Serving Neighborhood 2 Bottled Gas 9 Not Applicable	G	G
0850	SJUICE	85N-93N	Supplemental Electricity Used to Heat DU	<u>84S</u> 7	<u>85N</u> 7
0851	SGAS	84S-93S	Supplemental Gas Used to Heat DU	7	7
0852	SOIL		Supplemental Fuel Oil Used to Heat DU	7	7
0853	SKERO		Supplemental Kerosene/Liquid Fuel Used to Heat DU	7	7
0854	SCOAL		Supplemental Coke or Coal Used to Heat DU	7	7
0855	SWOOD		Supplemental Wood Used to Heat DU	7	7
0856	SSUN		Supplemental Solar Energy Used to Heat DU	7	7
0857	SOTHER		Other Supplementary Fuel Used to Heat DU Standard Codes For All Variables Are: 0 No Supplemental Fuel of This Type Used 1 Supplemental Fuel of This Type Used 8 Not Answered 9 Not Applicable	7	7
0858	SNO	85N-93N 84S-93S	No Supplemental Fuel Used to Heat DU 0 Supplemental Fuel Used 1 No Supplemental Fuel Used 8 Not Answered 9 Not Applicable	<u>84S</u> 7	<u>85N</u> 7
0859	FPLFUL	80N	Main Fuel Used In Fireplace Or Heating Stove 1 Wood Or Wood By-Products 2 Coal 3 Other 4 None 8 Not Answered 9 Not Applicable	<u>80N</u> 33	
0860	BUYFUL	80N	All Wood Used To Heat In Past 12 Months Was Purchased 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>80N</u> 33	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>815</u>
Type Of Fuel Used For Supplemental Heat				
0861	FAFURA	80S-81S	1 Piped Gas Used For Air Furnace	43
0862	FAFURB		2 Bottled Gas Used For Air Furnace	43
0863	FAFURC		3 Fuel Oil Used For Air Furnace	43
0864	FAFURD		4 Kerosene Used For Air Furnace	43
0865	FAFURE		5 Electricity Used For Air Furnace	43
0866	FAFURF		6 Coke Or Coal Used For Air Furnace	43
0867	FAFURG		7 Wood Used For Air Furnace	43
0868	FAFURH		8 Solar Heat Used For Air Furnace	43
0869	FAFURI		9 Other Heat Used For Air Furnace	43
0870	FHPMPA		1 Piped Gas Used For Heat Pump	43
0871	FHPMPB		2 Bottled Gas Used For Heat Pump	43
0872	FHPMPC		3 Fuel Oil Used For Heat Pump	43
0873	FHPMPD		4 Kerosene Used For Heat Pump	43
0874	FHPMPE		5 Electricity Used For Heat Pump	43
0875	FHPMPF		6 Coke or Coal Used For Heat Pump	43
0876	FHPMPG		7 Wood Used For Heat Pump	43
0877	FHPMPH		8 Solar Heat Used For Heat Pump	43
0878	FHPMPI		9 Other Fuel Used For Heat Pump	43
0879	FSTEMA		1 Piped Gas Used For Steam Or Hot Water System	43
0880	FSTEMB		2 Bottled Gas Used For Steam Or Hot Water System	43
0881	FSTEMC		3 Fuel Oil Used For Steam Or Hot Water System	43
0882	FSTEMD		4 Kerosene Used For Steam Or Hot Water System	43
0883	FSTEME		5 Electricity Used For Steam Or Hot Water System	43
0884	FSTEMF		6 Coke or Coal Used For Steam Or Hot Water System	43
0885	FSTEMG		7 Wood Used For Steam Or Hot Water System	43
0886	FSTEMH		8 Solar Heat Used For Steam Or Hot Water System	43
0887	FSTEMI		9 Other Fuel Used For Steam Or Hot Water System	43
0888	FELCTA		1 Piped Gas Used For Built-In Electric Units	43
0889	FELCTB		2 Bottled Gas Used For Built-In Electric Units	43
0890	FELCTC		3 Fuel Oil Used For Built-In Electric Units	43
0891	FELCTD		4 Kerosene Used For Built-In Electric Units	43
0892	FELCTE		5 Electricity Used For Built-In Electric Units	43
0893	FELCTF		6 Coke or Coal Used For Built-In Electric Units	43
0894	FELCTG		7 Wood Used For Built-In Electric Units	43
0895	FELCTH		8 Solar Heat Used For Built-In Electric Units	43
0896	FELCTI		9 Other Fuel Used For Built-In Electric Units	43
0897	FPLFA		1 Piped Gas Used For Floor, Wall, Or Pipeless Furnace	43
0898	FPLFB		2 Piped Gas Used For Floor, Wall, Or Pipeless Furnace	43
0899	FPLFC		3 Fuel Oil Used For Floor, Wall, Or Pipeless Furnace	43
0900	FPLFD		4 Kerosene Used For Floor, Wall, Or Pipeless Furnace	43
0901	FPLFE		5 Electricity Used For Floor, Wall, Or Pipeless Furnace	43
0902	FPLFF		6 Coke or Coal Used For Floor, Wall, Or Pipeless Furnace	43
0903	FPLFG		7 Wood Used For Floor, Wall, Or Pipeless Furnace	43
0904	FPLFH		8 Solar Heat Used For Floor, Wall, Or Pipeless Furnace	43
0905	FPLFI		9 Other Fuel Used For Floor, Wall, Or Pipeless Furnace	43
0906	FFLINA		1 Piped Gas Used For Vented Rm Htrs Burning Liquid Fuel	43
0907	FFLINB		2 Bottled Gas For Vented Rm Htrs Burning Liquid Fuel	43
0908	FFLINC		3 Fuel Oil For Vented Rm Htrs Burning Liquid Fuel	43
0909	FFLIND		4 Kerosene For Vented Rm Htrs Burning Liquid Fuel	43
0910	FFLINE		5 Electricity For Vented Rm Htrs Burning Liquid Fuel	43
0911	FFLINF		6 Coke or Coal For Vented Rm Htrs Burning Liquid Fuel	43
0912	FFLING		7 Wood For Vented Rm Htrs Burning Liquid Fuel	43
0913	FFLINH		8 Solar Heat For Vented Rm Htrs Burning Liquid Fuel	43
0914	FFLINI		9 Other Fuels For Vented Rm Htrs Burning Liquid Fuel	43
0915	FFLOTA		1 Piped Gas For Unvented Rm Htrs Burning Liquid Fuel	43
0916	FFLOTB		2 Bottled Gas For Unvented Rm Htrs Burning Liquid Fuel	43
0917	FFLOTC		3 Fuel Oil For Unvented Rm Htrs Burning Liquid Fuel	43
0918	FFLOTD		4 Kerosene For Unvented Rm Htrs Burning Liquid Fuel	43
0919	FFLOTE		5 Electricity For Unvented Rm Htrs Burning Liquid Fuel	43
0920	FFLOTF		6 Coke or Coal For Unvented Rm Htrs Burning Liquid Fuel	43
0921	FFLOTG		7 Wood For Unvented Rm Htrs Burning Liquid Fuel	43
0922	FFLOTH		8 Solar Heat For Unvented Rm Htrs Burning Liquid Fuel	43
0923	FFLOTI		9 Other Fuel For Unvented Rm Htrs Burning Liquid Fuel	43
0924	FFRPLA		1 Piped Gas Used For Fireplace	43
0925	FFRPLB		2 Bottled Gas Used For Fireplace	43
0926	FFRPLC		3 Fuel Oil Used For Fireplace	43
0927	FFRPLD		4 Kerosene Used For Fireplace	43

(Continued On Next Page)

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
0928	FFRPLE		5 Electricity Used For Fireplace	43
0929	FFRPLF		6 Coke or Coal Used For Fireplace	43
0930	FFRPLG		7 Wood Used For Fireplace	43
0931	FFRPLH		8 Solar Heat Used For Fireplace	43
0932	FFRPLI		9 Other Fuel Used For Fireplace	43
0933	FSTOVA		1 Piped Gas Used For Stove	43
0934	FSTOVB		2 Bottled Gas Used For Stove	43
0935	FSTOVC		3 Fuel Oil Used For Stove	43
0936	FSTOVD		4 Kerosene Used For Stove	43
0937	FSTOVE		5 Electricity Used For Stove	43
0938	FSTOVF		6 Coke or Coal Used For Stove	43
0939	FSTOVG		7 Wood Used For Stove	43
0940	FSTOVH		8 Solar Heat Used For Stove	43
0941	FSTOVI		9 Other Fuel Used For Stove	43
0942	FPORTA		1 Piped Gas Used For Portable Room Heaters	43
0943	FPORTB		2 Bottled Gas Used For Portable Room Heaters	43
0944	FPORTC		3 Fuel Oil Used For Portable Room Heaters	43
0945	FPORTD		4 Kerosene Used For Portable Room Heaters	43
0946	FPORTE		5 Electricity Used For Portable Room Heaters	43
0947	FPORTF		6 Coke or Coal Used For Portable Room Heaters	43
0948	FPORTG		7 Wood Used For Portable Room Heaters	43
0949	FPORTH		8 Solar Heat Used For Portable Room Heaters	43
0950	FPORTI		9 Other Fuel Used For Portable Room Heaters	43
0951	FHOTH A		1 Piped Gas Used For Other Supp. Heat Source	43
0952	FHOTH B		2 Bottled Gas Used For Other Supp. Heat Source	43
0953	FHOTH C		3 Fuel Oil Used For Other Supp. Heat Source	43
0954	FHOTH D		4 Kerosene Used For Other Supp. Heat Source	43
0955	FHOTH E		5 Electricity Used For Other Supp. Heat Source	43
0956	FHOTH F		6 Coke or Coal Used For Other Supp. Heat Source	43
0957	FHOTH G		7 Wood Used For Other Supp. Heat Source	43
0958	FHOTH H		8 Solar Heat Used For Other Supp. Heat Source	43
0959	FHOTH I		9 Other Fuel Used For Other Supp. Heat Source	43

The Codes Unique to Each Variable Are Shown Above:  
Standard Codes For All Variables are:

- 0 Respondent did not cite this fuel
- 8 Not Answered
- 9 Not Applicable

Note: If a series of variables (e.g. FAFURA-FAFURI) is not applicable, then all variables in the series are coded 9. If a series of variables is not answered, then the first eight variables (e.g. FAFURA-FAFURH) are coded 9 and the last variable (e.g. FAFURI) is coded 8.

				83N	83S	84S	85N
0960	BUYE	74N-93N	Occupant Pays For Electricity	14	14	23	24
0961	BUYG	75S-93S	Occupant Pays For Gas	14	14	23	24
0962	BUYD		Occupant Pays For Oil, Coal, Kerosene, Wood, Etc.	14	14	23	24
0963	BUYW		Occupant Pays Water/Sewerage Sep From Real Estate Taxes			24	17
0964	BUYT		Occupant Pays Grbge/Trash Clctn Sep From Real Estate Tax			17	

74N-83N 85N-93N  
75S-83S 84S-93S

- 1 Not Used
- 2 Included In Rent, Condo Fee or Other Fee
- 3 Obtained Free
- 1 Occupant Pays For Utility Separately
- 2 Utility Not Paid For Separately
- 9 Not Applicable
- 9 Occupant Pays for Utility Separately, or Vacant, URE or Non-Interview

Note: Before 1984, these variables refer only to single family home owners. See the Table at the beginning of this section. Also starting in 1984, BUYD refers to Oil only. Other fuels such as Coal, Kerosene, etc. are coded under BUYF (see below).

				84S	85N
0965	BUYF	85N-93N 84S-93S	Occupant Pays For Wood, Coal, Kerosene or Other Fuel	23	24
			1 Not Used		
			2 Included in Rent, Condo Fee or Other Fee		
			3 Obtained Free		
			9 Occupant Pays For Utility Separately, Vacant, URE, or Non-Interview		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0966	BUYE2	85N-93N	Occupant of Vacant Unit Would Pay For Electricity	84S	85N		
0967	BUYG2	84S-93S	Occupant of Vacant Unit Would Pay For Gas	G	G		
0968	BUYO2		Occupant of Vacant Unit Would Pay for Fuel Oil	G	G		
0969	BUYF2		Occupant of Vacant Unit Would Pay for Wood/Coal/Kero/Other F	G	G		
0970	BUYT2		Occupant of Vacant Unit Would Pay for Garbage/Trash Collecti	G	G		
0971	BUYW2		Occupant of Vacant Unit Would Pay for Water/Sewerage	G	G		
			1 Yes				
			2 No, included in rent, condo fee, etc.				
			3 Not Used				
			8 Not Answered				
			9 Not Applicable				
0972	AMTE	74N-93N 75S-93S	Average Monthly Cost of Electricity	83N 14	83S 14	84S 23	85N 24
			74N-83N 85N-93N				
			<u>75S-83S 84S-93S</u>				
			1-260 \$1 to \$260				
			261 \$261 or More				
			1-997 \$1 to \$997				
			998 998 Not Answered				
			999 999 Not Applicable				
			Note: Before 1984, this variable refers only to single family home owners. See the Table at the beginning of this section.				
			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.				
0973	AMTG	74N-93N 75S-93S	Average Monthly Cost of Gas	83N 14	83S 14	84S 23	85N 24
			74N-83N 85N-93N				
			<u>75S-83S 84S-93S</u>				
			1-195 \$1 to \$195				
			196 \$196 or More				
			1-997 \$1 to \$997				
			998 998 Not Answered				
			999 999 Not Applicable				
			Note: Before 1984, this variable refers only to single family home owners. See the Table at the beginning of this section.				
			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.				
0974	AMTT	74N-93N 75S-93S	Annual Cost Of Garbage Collection	83N 14	83S 14	84S 23	85N 24
			74N-83N 85N-93N				
			<u>75S-83S 84S-93S</u>				
			1-650 \$1 to \$650				
			651 \$651 or More				
			1-997 \$1 to \$997				
			998 998 Not Answered				
			999 999 Not Applicable				
			Note: Before 1984, this variable refers only to single family home owners. See the Table at the beginning of this section.				
			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.				

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0975	AMTO	74N-93N 75S-93S	Avg. Annual Cost of Oil, Coal, Kerosene, Etc. 74N-83N 85N-93N <u>75S-83S 84S-93S</u> 1-2600 \$1 to \$2600 2601 \$2601 or More 1-9997 \$1 to \$9997 9998 9998 Not Answered 9999 9999 Not Applicable Note: Before 1984, this variable refers only to single family home owners. See the Table at the beginning of this section. Also, starting in 1984, AMTO refers to oil only. Other fuels such as Coal, Kerosene, etc. are coded under AMTF (see below). 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.	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 23	<u>85N</u> 24
0976	AMTW	74N-93N 75S-93S	Annual Cost of Water And Sewage 74N-83N 85N-93N <u>75S-83S 84S-93S</u> 1-650 \$1 to \$650 651 \$651 or More 1-9997 \$1 to \$9997 9998 998 Not Answered 9999 999 Not Applicable Note: Before 1984, this variable refers only to single family home owners. See the Table at the beginning of this section. 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.	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 23	<u>85N</u> 24
0977	AMTF	85N-93N 84S-93S	Average Annual Cost of Other Fuels (Than Fuel Oil) 1-2600 \$1 to \$2600 2601 \$2601 or More 9998 \$9998 Or More 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.			<u>84S</u> 23	<u>85N</u> 24
0978	PAYE	73N-83N	Electricity Paid by Renter	<u>83N</u> 7	<u>83S</u> 7		
0979	PAYG	74S-83S	Gas Paid by Renter	7	7		
0980	PAYO		Oil, Coal, Kerosene, Wood, Etc. Paid by Renter For these variables standard codes are: 1 Paid For Separately 2 Included In Rent 3 Utility Or Service Not Used or Free 9 Not Applicable	7	7		
0981	PAYW	73N-83N	Water Paid by Renter	<u>83N</u> 7	<u>83S</u> 7		
0982	PAYT	74S-83S	Garbage Collection Paid by Renter For these variables standard codes are: 1 Paid For Separately 2 Included In Rent 9 Not Applicable	7	7		
0983	COSTE	73N-83N	Average Monthly Cost of Electricity (Renter)	<u>83N</u> 15	<u>83S</u> 15		
0984	COSTG	74S-83S	Average Monthly Cost Of Gas (Renter)	15	15		
0985	COSTT		Average Annual Cost Of Garbage Collection (Renter) 1-997 \$1-\$997 998 \$998 Or More 999 Not Applicable	15	15		
0986	COSTO	73N-83N	Average Annual Cost Of Oil, Coal, Etc. (Renter)	<u>83N</u> 15	<u>83S</u> 15		
0987	COSTW	74S-83S	Average Annual Cost Of Water (Renter) 1-9997 \$1-\$9997 9998 \$9998 Or More 9999 Not Applicable	15	15		
0988	COSTF	73N-77N 74S-81S	Average Monthly Rent On Furniture (Renter) 1-198 \$1-\$198 199 \$199 Or More 998 Not Answered 999 Not Applicable	<u>77N</u> 24	<u>81S</u> 24		

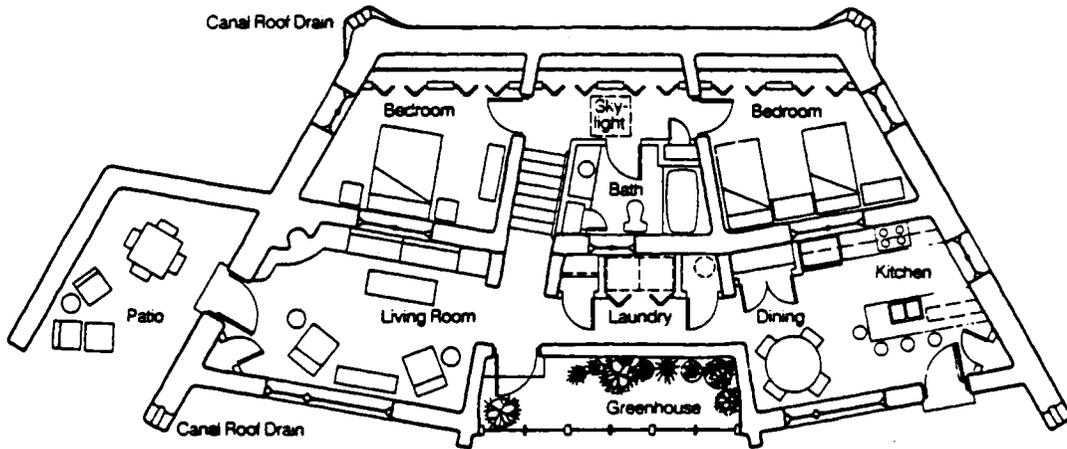
REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
0989	IFF	73N-83N 74S-83S	Apartment Or House Rented Furnished 73N-77N 78N-81N <u>74S-83S 83N</u> 1 1 Furnished 2 2 Unfurnished 8 8 Not Answered 9 9 Not Applicable	<u>83N</u> 16	<u>83S</u> 16
0990	PAYF	73N-77N 74S-81S	Cost Of Furniture Included In Rent 1 Yes 2 No 9 Not Applicable Note: Incorrectly coded in some Census documentation.	<u>77N</u> 24	<u>81S</u> 24
0991	OTHF	73N-77N 74S-78S	Furniture Rented From Other Than Landlord 1 Yes 2 No 9 Not Applicable Note: Incorrectly coded in some Census documentation.	<u>77N</u> 24	<u>78S</u> 24
0992	CBUYE	80N-83N	Condo Owner Pays For Electricity Sep From Condo Fee	<u>83N</u> 44	<u>83S</u> 34
0993	CBUYG	83S	Condo Owner Pays For Gas Sep From Condo Fee	44	34
0994	CBUYW		Condo Owner Pays For Water Sep From Condo Fee	44	34
0995	CBUYD		Condo Owner Pays For Oil/Coal/Kerosene/Wood/Other Fuel Separately From Condo Fee	45	35
0996	CBUYT		Condo Owner Pays For Garbage Collection Sep From Fee 1 Yes 2 No 8 Not Answered 9 Not Applicable	45	35
0997	CAMTE	80N-83N	Average Monthly Cost Of Electricity Pst 12 Mos (Condo)	<u>83N</u> 44	<u>83S</u> 34
0998	CAMTG	83S	Average Monthly Cost of Gas Over Past 12 Months (Condo)	44	34
0999	CAMTT		Yearly Cost of Garbage (Food Waste) Collection (Condo) For All Variables, Standard Values Are: 0-997 \$0-\$997 998 Not Answered 999 Not Applicable	45	35
1000	CAMTW	80N-83N	Yearly Cost Of Water (Condo)	<u>83N</u> 44	<u>83S</u> 34
1001	CAMTO	83S	Yrly Cost of Oil, Coal, Kerosene, Wood, Other Fuel (Condo) For All Variables, Standard Codes Are: 0-9997 \$0-\$9997 9998 Not Answered 9999 Not Applicable	45	35
Utilities and Services Included in Condominium Fee					
1002	CONE	80N-83N	Electricity Included in Condo Fee	<u>83N</u> 44	<u>83S</u> 34
1003	CONG	83S	Gas Included in Condo Fee	44	34
1004	CONW		Water Included in Condo Fee	44	34
1005	CONO		Oil, Coal, Kerosene, Wood, or Other Fuels in Condo Fee	45	35
1006	CONT		Garbage (Food Waste) Collection Included in Condo Fee Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	45	35
1007	PBUYE	83N	Multi-Family Owner Pays For Electricity	<u>83N</u> 40	<u>83S</u> 37
1008	PBUYG	83S	Multi-Family Owner Pays For Gas	40	37
1009	PBUYW		Multi-Family Owner Pays For Water/Sewage	40	37
1010	PBUYD		Multi-Family Owner Pays For Oil, Kerosene, Other Fuels	41	38
1011	PBUYT		Multi-Family Owner Pays For Garbage/Trash Collection For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	42	39

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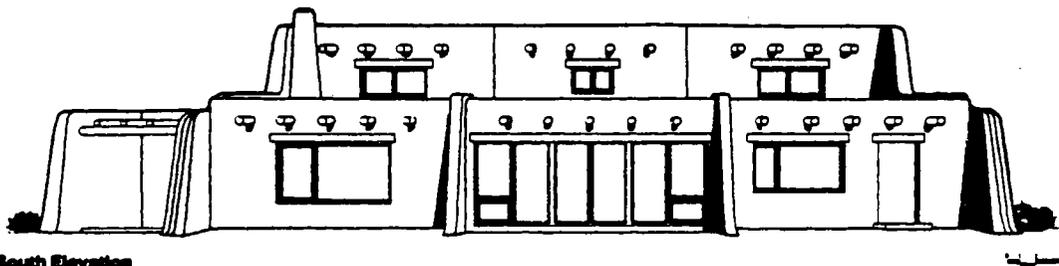
REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1012	PAMTE	83N	Avg Monthly Cost of Multi-Family Electricity	83N 40	83S 37
1013	PAMTG	83S	Avg Monthly Cost of Multi-Family Gas	40	37
1014	PAMTT		Avg Monthly Cost of Multi-Family Garbage Collection For All Variables, Standard Codes Are: 1-997 \$1-\$997 998 \$998 or more 999 Not Applicable	42	39
1015	PAMTW	83N	Avg Monthly Cost of Multi-Family Water/Sewage	83N 40	83S 37
1016	PAMTO	83S	Avg Annual Cost of Oil, Coal, Kerosene for Multi-Family 1-9997 \$1-\$9997 9998 \$9998 Or More 9999 Not Applicable	41	38
1017	NORESE	83N	Electricity Costs Cover Units Other Than Owner's Res	83N 40	83S 37
1018	NORESG	83S	Gas Costs Cover Units Other Than Owner's Res	40	37
1019	NORESW		Water/Sewage Costs Cover Units Other Than Owner's Res	40	37
1020	NORESO		Oil/Other Fuel Costs Cover Units Other Than Owner's Res	41	38
1021	NOREST		Trash Collection Costs Cover Units Other Than Owner's Res For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	42	39
1022	AMTRSE	83N	Avg Monthly Cost Of Electricity For Owner's Res Only	83N 40	83S 37
1023	AMTRSG	83S	Avg Monthly Cost Of Gas For Owner's Res Only	40	37
1024	AMTRST		Annual Cost Of Trash Collection For Owner's Res Only For All Variables, Standard Codes Are: 0 Don't Know 1-997 \$1-\$997 998 \$998 Or More 999 Not Applicable	42	39
1025	AMTRSO	83N	Annual Cost Of Oil/Other Fuel For Owner's Res Only	83N 41	83S 38
1026	AMTRSW	83S	Annual Cost Of Water/Sewage For Owner's Res Only For All Variables, Standard Codes Are: 0 Don't Know 1-9997 \$1-\$9997 9998 \$9998 Or More 9999 Not Applicable	40	37
1027	SPMTR	83N	Owner's Res Electricity Metered Separately	83N 40	83S 37
1028	SPMTRG	83S	Owner's Res Gas Metered Separately	40	37
1029	SPMTRW		Owner's Res Water Metered Separately	40	37
1030	SPBILT		Owner's Res Trash Collection Billed Separately For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	42	39
1031	ZUTIL	73N-77N 74S-83S	Recoded Utilities Included in Rent 1 All Utilities In Rent 2 Garbage Collection In Rent, But Not All Other Services 3 Some Or No Utilities Included 9 Not Applicable	77N G	83S G
1032	ZUTIL2	73N-81N 83N 74S-83S	Recoded Utilities Included In Rent 1 Included In Rent 2 Not Included In Rent 9 Not Applicable	83N G	83S G

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>84S</u>	<u>85N</u>
1033	BILLGE	85N-93N	Gas Billed with Electricity	23	24
1034	BILLGO	84S-93S	Gas Billed with Fuel Oil	23	24
1035	BILLGF		Gas Billed with Other Fuel	23	24
1036	BILLGT		Gas Billed with Garbage and Trash	23	24
1037	BILLGW		Gas Billed with Water and Sewage	23	24
1038	BILLOE		Fuel Oil Billed with Electricity	23	24
1039	BILLOG		Fuel Oil Billed with Gas	23	24
1040	BILLOF		Fuel Oil Billed with Other Fuel	23	24
1041	BILLOT		Fuel Oil Billed with Garbage and Trash	23	24
1042	BILLOW		Fuel Oil Billed with Water and Sewage	23	24
1043	BILLFE		Other Fuel Billed with Electricity	23	24
1044	BILLFG		Other Fuel Billed with Gas	23	24
1045	BILLFO		Other Fuel Billed with Fuel Oil	23	24
1046	BILLFT		Other Fuel Billed with Garbage and Trash	23	24
1047	BILLFW		Other Fuel Billed with Water and Sewage	23	24
1048	BILLTE		Garbage and Trash Billed with Electricity	23	24
1049	BILLTG		Garbage and Trash Billed with Gas	23	24
1050	BILLTO		Garbage and Trash Billed with Oil	23	24
1051	BILLTF		Garbage and Trash Billed with Other Fuel	23	24
1052	BILLTW		Garbage and Trash Billed with Water	23	24
1053	BILLWE		Water and Sewage Billed with Electricity	23	24
1054	BILLWG		Water and Sewage Billed with Gas	23	24
1055	BILLWO		Water and Sewage Billed with Fuel Oil	23	24
1056	BILLWF		Water and Sewage Billed with Other Fuel	23	24
1057	BILLWT		Water and Sewage Billed with Garbage and Trash	23	24
			Standard Codes For All Variables Are:		
			0 No		
			1 Yes		
			9 Utility Not Used, Included In Rent, Obtained Free, or Non-Interview		
1058	VOLTS	81N 83N	Status Of Company Supplying Electricity	<u>83N</u>	<u>21</u>
			1 Electricity Generated in House/Bldg		
			2 No Electricity Used		
			3 Don't Know Source		
			4 Privately Owned		
			5 Publicly Owned		
			6 Cooperatively Owned		
			8 Not Answered		
			9 Not Applicable		
			Note: Code 2 was not checked against the variable BUYE. Some discrepancies may be present.		
1059	NHBILL	85N	Hhld Without Heat Because Unable to Pay Bill	<u>85N</u>	<u>48</u>
1060	EVEN	87N	Hhld Pays Util. Bill In Installments to Even Out Csts		48
1061	OVER		Hhld Uses Installment Plan to Pay Overdue Energy Bills		48
			1 Yes		
			2 No		
			9 Not Applicable		

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Floor Plan



South Elevation

This design utilizes passive solar heating through the use of thick adobe walls and a greenhouse. Fireplaces and efficient air circulation will also lower heating and cooling requirements.

Butresses not only serve as structural elements but contain channels to conduct water away from the adobe walls.

Cost data include monthly mortgage and rent costs, taxes, condominium or mobile home park fees and insurance expenses. Starting in 1984, new questions are asked about mortgage type, terms and interest rates. Utility costs for fuels, water and trash are documented in the Fuel and Utility Cost section. Housing cost variables for previous residence are presented in the Past and Future Homes section. Indicators of whether a unit is in a public housing project or is subsidized, as well as information on housing costs paid by non-relatives living in the unit are documented in the Income Section. The cost of routine maintenance is included in the Breakdown and Maintenance Section. These costs are included in the ownership housing costs summary variable (see below).

The AHS distinguishes between several types of units in collecting housing cost data for owner-occupied units. The intent is to identify units where special factors affect the cost variables, e.g., units on more than 10 acres. Prior to 1984, the housing cost questions were asked of owners in single family units or mobile homes on less than 10 acres having no commercial establishment or medical/dental office on the property. In selected years, information was collected for condominium units and multi-family units. Different variables were present in the data files to describe the same information for different types of units (e.g., PMT, CPMT, PPMT were used to record mortgage payments for single family units, condominium units and multi-family units, respectively). Starting in 1984, the information is collected for all owner-occupied units. The questions distinguish between the costs associated with the sample unit itself and the costs associated with other portions of the property. The same variable name is used for all groups of respondents. Also, prior to 1984, rent information was not available for renters in single family units on more than 10 acres. Starting in 1984, the questions are asked of all renters. See the table following this introduction to select the variables appropriate to your analysis requirements.

It should be noted that because of the complexity of the skip patterns involved, not all variables presented in the table could be checked systematically for each year. The discrepancies, if any, are small and relate mostly to units in cooperatives and mobile homes on more than 10 acres which account for a relatively small number of cases. The table is sufficiently accurate to assist users in planning and conducting their analyses.

Ownership Monthly Housing Costs--Selected monthly ownership housing cost is the monthly sum of payments for the mortgage(s), or installment loan(s) or contract(s), real estate taxes (including taxes on mobile homes or trailer sites if the sites are owned), property insurance, utilities (electricity, gas, water, and sewage disposal), fuel (oil, coal, kerosene, wood, etc.), and garbage and trash collection. Starting in 1984, the variable includes fees (condominium, mobile home and homeowner associations),

Prior to 1984, ownership housing costs were not computed for households with a mortgage or similar debt that failed to report the amount of their loan or contract payment and/or those households that did not report their real estate taxes. Starting in 1984, the variable is generated unless the respondent fails to report mortgage payment amounts.

Ownership Housing Costs as Percentage of Income--The yearly housing costs (housing costs multiplied by 12) are expressed as a percentage of the total income of the family or primary individual. This percentage is calculated for the same owner-occupied units for which "ownership monthly housing costs" were computed (for exclusions, see table at the end of this introduction). The percentage was computed separately for each unit and was rounded to the nearest tenth of a percent. The measure was not computed for units where occupants reported no income or a net loss or for households that did not report the amount or did not pay mortgage or similar debt and/or real estate taxes. Starting in 1984, this variable is not available in the AHS data files. It can be replicated by using the above specifications.

Monthly Contract Rent--Monthly contract rent is the monthly rent agreed to, or contracted for, even if the furnishings, utilities, or services are included. Prior to 1984, the data on rent excluded one-unit structures on 10 acres or more. Rent data for mobile homes and trailers were not restricted by acreage. Starting in 1984, rent information is collected for all rental units.

Renter Monthly Housing Costs--Monthly 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. It should be noted that the definition of gross rent is not consistent if contract rent includes the cost of furnishings and parking, since these costs are not added to contract rent (if paid separately) in computing gross rents. If the sample is large enough, users may consider estimating the cost of furniture and/or parking, and exclude these costs from gross rents for units in which contract rent includes furnishings and/or parking. The adjustment cannot be made directly since the cost of furnishings and/or parking is not available if included in contract rent. After 1983, the question on furniture was dropped.

Prior to 1984, the data on gross rent excluded one-unit structures on 10 acres or more. Rent data for mobile homes and trailers was not restricted by acreage. Starting in 1984, the information is available for all rental units. Until 1984, gross rent was reported separately from ownership housing costs. Starting in 1984, the same variable is used for both types of housing costs.

Value--The information is collected for all owner-occupied units, but is not collected for renter-occupied units.

For owner-occupied units, value represents the respondent's estimate of how much the property (house and lot) would sell for if it were for sale. For vacant units, value represents the sale price asked for the property at the time of the interview, and may differ from the price at which the property is sold.

Prior to 1984, the value variable was available for selected owner-occupied units (see table). Starting in 1984, it is available for all owner-occupied units and represent the value of the sample unit and its yard (VALUE). The value of the overall property for multi-family units, structures with commercial/medical establishment and structures on more than 10 acres is recorded under the variable PVALUE.

Purchase Price--This is the price which was paid at the time the property was acquired (house and lot), not the estimated value at the time of the interview. If only the house is owned, but not the land, the respondent was asked for a combined estimate of the value of the house and lot at the time of purchase. If the house was a single family unit at the time of purchase, but was split into two or more units since the purchase, the purchase price is the value of the complete structure at the time of the purchase. Purchase price includes the costs of furnishings if the property was acquired furnished. An estimate was accepted if the respondent did not know the exact purchase price. The amount reported excludes closing costs. Until 1984, the information was available for units acquired within 12 months of the interview data. Starting in 1984, the information is available for all units.

Purchase price of mobile home--This item refers to owner-occupied mobile homes and trailers. The purchase price is the total cost of the mobile home or trailer at the time of purchase including the down payment but excluding site costs or closing costs. The "no purchase n/a" category refers to mobile homes and trailers that were not purchased by any occupant of the unit, e.g., the unit was acquired as a gift.

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 collected for owner-occupied units for which "value" was collected. The ratio was computed separately for each unit and was rounded to one decimal place. In reporting value, respondents were asked to select an appropriate class interval. The midpoints of the value intervals were used for the computation of the value-income ratio, except that very small and very large ratios were recoded. For income, the dollar amounts were used. The ratio is not computed if occupants reported no income or a net loss. Starting in 1984, the variable is not available in the AHS data files. Users can replicate the variable by using the above specifications.

Year mobile home acquired--This item pertains to owner-occupied mobile homes and trailers. "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. "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.

Mortgage--A mortgage or similar debt 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 in which the title to the property remains with the seller until the agreed-upon payments have been made by the buyer. Until 1984, the questions referred to any mortgage on the property. Starting in 1984, the respondent is asked how many mortgages there are on the property. Detailed information is obtained for the first and the second mortgage. Summary information such as amount and monthly payment is available for additional mortgages.

Lower Cost Mortgages--These loans are generally 1 to 3 percent below the current mortgage interest rate at the time the loan was obtained. These loans are managed through state or local governments, and financed from the proceeds from revenue bonds e.g., loans for first time home buyers. These loans do not include federally funded V.A. programs.

Wrap-around mortgage--A wrap-around mortgage is a second or junior mortgage with a face value of both the amount it secures and the balance due under the first mortgage.

Current Interest Rate--For variable interest rates, the respondent is asked to report the interest in effect at the time of the interview. If the last payment under the old schedule has been made, the rate for the next payment is recorded.

Monthly mortgage payment--The data includes all owner-occupied units. If a mortgage exists, data are collected on the monthly dollar amount paid for the mortgage, principal and interest only. Until 1984, the monthly payment represents the sum of all mortgage payments made by the owner. Starting in 1984, separate amounts are available for the first, the second mortgage and any other mortgages combined.

Real estate taxes last year--The data come only from owner-occupied units.

"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 special assessments, school taxes, state and local real estate taxes. Not included are payments on delinquent taxes due from prior years. (Payments for special assessments, facilities, or services were not included prior to 1984.) Even when the real estate taxes are included with the mortgage, a separate amount for the taxes is obtained. Starting in 1984, the total amount due minus any rebate is reported and the rebate amount, if any, is reported separately. Rebates include refunds or reduced rates on property taxes or lowered tax assessments because of the circumstances of the owner (e.g., senior citizens or disabled).

Insurance--This refers to 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. Until 1983, the data are collected 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. Starting in 1984, the information is collected for all units, including renter-occupied units, in which case, the question refers to household property insurance.

Furniture--The data 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 some source other than the management are not classified as furnished. Starting in 1984, information on whether a unit is rented furnished is not collected.

**HOUSING COSTS (Continued)**

Fees--A condominium fee includes all operating and maintenance costs of the common property and related administrative costs such as utilities billed communally and management fees. The cooperative maintenance fee (also called carrying charges) is the share of the annual budget to be borne by the member living in the sample unit, including the occupant's share of the amount paid by the cooperative for real estate taxes, mortgage interest and operating costs. Mobile home park fees are regular payments to the park management which could include utility charges, mail handling, and/or fees for the maintenance of common areas. A homeowner association fee may include payments for the upkeep of common property (e.g., street lights, parking areas, lawns), the use and maintenance of recreational facilities and the payment of security guards or other personnel. A fee which is optional is not included.

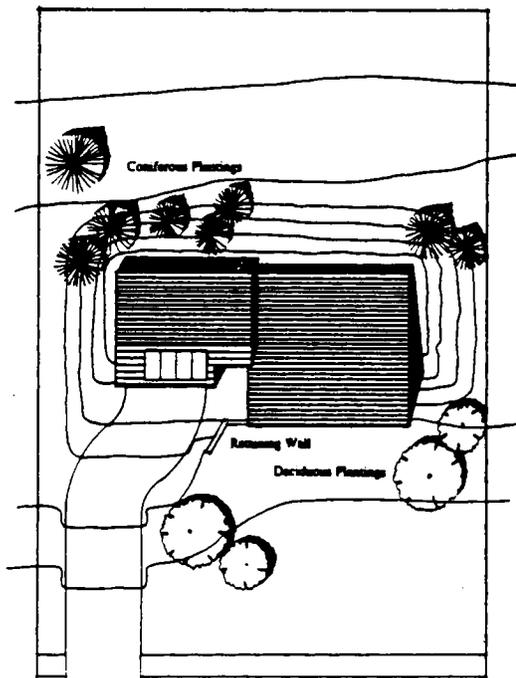
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**Site Plan**

This earth sheltered concept does not require an unusual site, as it is adaptable to any basically flat site with southern exposure and access.

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Site Plan



## Housing Value and Housing Costs (excluding utilities)

Variable Name	Owners				Condominium/ Cooperative	Other*	Renters
	Single Family Detached & Attached on less than 10 acres, no doctors or commer- cial establishments		Mobile Homes on less than 10 acres				
Summary Housing Variables							
ZSMHC 1984+	Yes	Yes	Yes	Yes	Yes	Yes	Yes
1974-1983	Yes	Yes					
ZSMHCP	Yes	Yes					
ZRENT, ZRI							Yes
RENT, FRENT							Yes
Property Value, Purchase Price and Acquisition Information							
VALUE 1984+	Yes	Yes	Yes	Yes	Yes		
75N-83N, 76S-83S	Yes			condo only			
73N-74N, 74S-75S	Yes						
ZVI				condo only			
75N-83N, 76S-83S	Yes						
73N-74N, 74S-75S	Yes						
PVALUE						except MH**	
1984+						Yes	
83N, 83S							
LVALUE		Site owned				MH, Site owned	
MSALE		Site rented					
MVAL		Site owned					
LPRICE, DWNPAY 1984+	Yes	Yes	Yes	Yes	Yes		
Earlier	Recent movers***	Recent movers					
ZPRICEM--PRICEM		Yes					
ZPRICE, PRICE						MH only	
BUYR 1984+	Yes	Yes	Yes	Yes	Yes	Yes	
1978-1983	RM only	RM only	RM (condo only)			RM Only	
YRBUYM		Yes					
YRBUY						MH only	
WHNRCV	Yes	Yes	Yes	Yes	Yes		
MNEWM, 1983						MH only	Yes
1980							Yes
NEWM		Yes					
NEWMOT						MH only	

\* Other includes Single Family Units on less than 10 acres with doctors, offices or commercial establishments, duplex, two unit mobile homes, multifamily, single family or mobile home on more than 10 acres.

\*\* MH = Mobile Homes

\*\*\* Recent Movers (RM) refer to households that bought their home in the last 12 months.

## Housing Value and Housing Costs (excluding utilities)

Variable Name	Owners			Renters	
	Single Family Detached & Attached on less than 10 acres, no doctors or commer- cial establishments	Mobile Homes on less than 10 acres	Condominium/ Cooperative	Other*	
NEWMCO			Condo only		
HOWBUY	no mortgage	no mortgage			
MHGET		no mortgage			
Mortgage Information					
NRQWR	Yes	Yes	Yes	Yes	
MORT, 1984+ earlier	Yes Yes	Yes Except in 75S	Yes	Yes	
MLOAN		75S only			
CMORT, 83N, 83S 80N, 81N			Yes Condo only	Yes	
NUMMOR	Yes	Yes	Yes	Yes	
MATBUY, 1984+ Earlier	Yes no mortgage	Yes no mortgage	Yes	Yes	
MATBU2	Yes	Yes	Yes	Yes	
MNUMOR		no mortgage			
NEWMOR, 1984-1993 Earlier	Yes RM** w/Mortgage	Yes RM w/Mortgage	Yes RM w/Mortgage	Yes RM w/Mortgage	
NEWMR2	Yes	Yes	Yes	Yes	
AMMORT, 1985-1993 1977-1983	Yes RM, non-assumed mortgage	Yes RM, non-assumed mortgage	Yes RM, non-assumed mortgage	Yes RM, non-assumed mortgage	
AMMOR2-INT2	Yes	Yes	Yes	Yes	
MORTINS, 1983-1993 Earlier	Yes Yes	Yes Yes	Yes Yes	Yes	
MORTN2-LOON2	Yes	Yes	Yes	Yes	Yes
PINCOP, 1984+ Earlier	Yes	Yes	Yes	Yes Yes	
MFARM-RESMR2	Yes	Yes	Yes	Yes	
Mortgage Payment					
FPMT	Yes	Yes			
CFPMT			Yes		
NRPAYM	Yes	Yes	Yes	Yes	

\* Other includes Single Family Units on less than 10 acres with doctors, offices or commercial establishments, duplex, two unit mobile homes, multifamily, single family or mobile home on more than 10 acres.

\*\* Recent Movers (RM) refer to households that bought their home in the last 12 months.

## Housing Value and Housing Costs (excluding utilities)

Variable Name	Owners				Renters
	Single Family Detached & Attached on less than 10 acres, no doctors or commer- cial establishments	Mobile Homes on less than 10 acres	Condominium/ Cooperative	Other*	
PMT, 1984+	Yes	Yes	Yes	Yes	
Earlier	Yes	Yes			
PMT2	Yes	Yes	Yes	Yes	
CPMT			Yes	Yes (83)	
RESAMT				Yes	
Real Estate Taxes, Insurance and other charges					
TAXPMT, 1984+	Yes	Yes	Yes	Yes	
Earlier	Yes	Yes			
TAXPM2	Yes	Yes	Yes	Yes	
CTXPMT			Yes		
PTXPMT				Yes	
BUYX	Yes	Yes			
CBUYX			Yes		
PBUYX-NORESX				Yes	
MPRTX-MHTAX, 1983N 198ON		If pay R.E. taxes Yes			
MPRT, MHTX		If no R.E. taxes			
AMTX, 1984+	Yes	Yes	Yes	Yes	
Earlier	Yes	Yes			
CAMTX			Yes		
PAMTX-SPASSX				Yes	
BUYI, 1984+	Yes	Yes	Yes	Yes	Yes
Earlier	Yes	Yes			
CBUYI			Yes		
PBUYI, NORESI				Yes	
INSPMT, 1984+	Yes	Yes	Yes	Yes	
Earlier	Yes	Yes			
INSPM2	Yes	Yes	Yes	Yes	
PINSPT				Yes	
AMTI	Yes	Yes			

\* Other includes Single Family Units on less than 10 acres with doctors, offices or commercial establishments, duplex, two unit mobile homes, multifamily, single family or mobile home on more than 10 acres.

## Housing Value and Housing Costs (excluding utilities)

Variable Name	Owners				Renters
	Single Family Detached & Attached on less than 10 acres, no doctors or commer- cial establishments	Mobile Homes on less than 10 acres	Condominium/ Cooperative	Other*	
CAMTI			Yes		
PAMTI-SPREI				Yes	
INSTHF-INSOKE	Yes	Yes	Yes	Yes	
REFINS, RETYP	Yes	Yes	Yes	Yes	Yes
INSRTH-INSRHZ					Yes
Land Rent Information					
OWNLOT 1984+ Earlier	Yes	Yes Yes		Yes	
OWNLT				MH only	
OWNSIT					MH only
LANPMT	Land not owned				
INCS, 84+ 83N, 83S Earlier	Yes	Yes Yes Yes		MH only** MH only	MH only MH only
FLRENT-LRENT, 84+ 83N, 83S Earlier	Yes	Yes Yes Yes		MH only MH only	MH only MH only See FSRENT & SRENT be
FSRENT, SRENT					MH only
Mobile Home, Condominium, Homeowner Association Fees					
PARKF-HOTHFE		Yes		MH only	MH only
MPRT, MHTX		Not paying R.E. taxes			
IFFEE	Yes	Yes	Yes	Yes	
CAMF, CONFEE, 84+ Earlier	Yes	Yes Yes	Yes Yes	Yes	
CMNTN-COTHER			Yes		
OTHPMT-AMTM2	Yes	Yes	Yes	Yes	
IFOTHF--MHOTFE		Yes		Yes MH only	Yes

\* Other includes Single Family Units on less than 10 acres with doctors, offices or commercial establishments, duplex, two unit mobile homes, multifamily, single family or mobile home on more than 10 acres.

\*\* MH = Mobile Homes

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			
1062	ZSMHC	74N-93N 83S-93S	<p>Monthly Housing Costs (Mortgage, Taxes, Rent, Utilities, etc.; Not Repairs or Capital Gains)</p> <p>74N-79N 80N-93N <u>83S-93S</u></p> <p>0 Not Computed 1-99996 1-99996 \$1-\$99,996 99997 99997 \$99,997 or More 99998 99998 PMT, AMTX or AMTI Were Not Answered 99999 99999 Not Applicable</p> <p>Note: In 1977N, This Question Includes URE Units. If any components of housing costs were not answered, data were allocated as explained in the Sample Status Section, and ZSMHC is calculated as if the data were real and not coded "Not Answered" in these cases. Starting in 1984, ZSHMC is not available if the mortgage payment was allocated. Also starting in 1984, this variable applies to all units. Before 1984, it applied to owner-occupied units only, while the variable ZRENT applied to renter-occupied units. See the table at the beginning of this section. Also, starting in 1984 the variable includes property insurance of renters. Property insurance of owners has always been included.</p>	<u>83N</u> G	<u>83S</u> G	<u>84S</u> G	<u>85N</u> G
1063	ZSMHCP	74N-83N	<p>Monthly Housing Costs As Percent Of Income</p> <p><u>74N-77N</u> <u>78N-83N</u></p> <p>0 0 Zero Or Not Computed 01-96 01-96 1%-96% 01-97 01-97 1%-97% 97 97 97% Or More 98 98 98% Or Not Answered 99 99 Not Answered 99 99 99% Or Not Applicable 99 99 Not Applicable</p>	<u>83N</u> G			
1064	ZRENT	73N-83N 74S-83S	<p>Recoded Gross Rent (Contract Rent Plus Utilities)</p> <p>0 No Cash Rent 1-2729 \$1-\$2729 2730 \$2730 Or More 9999 Not Applicable</p>	<u>83N</u> G	<u>83S</u> G		
1065	ZRI	73N-83N 74S-83S	<p>Recoded Gross Rent As Percent Of Income</p> <p>73N-77N 78N-83N 74S, 76S 75S <u>82S-83S</u> <u>77S-81S</u></p> <p>0 0 Not Computed 01-96 01-96 1%-96% 01-98 01-98 1%-98% 97 97 97% Or More 98 98 Not Present 99 99 99% Or More Or Not Applicable 99 99 Not Applicable</p>	<u>83N</u> G	<u>83S</u> G		
1066	FRENT	73N-93N 74S-93S	<p>Frequency Of Rent Payment</p> <p>73N-83N 85N-93N <u>74S-83S</u> <u>84S-93S</u></p> <p>1-11 1-11 times per year 12 Monthly 13-52 13-52 times per year 53 More than 52 times per year 1 More than once a month 2 Less than once a month 3 Once a month 9 99 Not Applicable</p>	<u>83N</u> 6	<u>83S</u> 6	<u>84S</u> 14	<u>85N</u> 14

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

1067 RENT 73N-93N Monthly Contract Rent  
 74S-93S 73N-83N 85N-93N  
 74S-83S 84N-93N

83N 83S 84S 85N  
 6 6 14 14

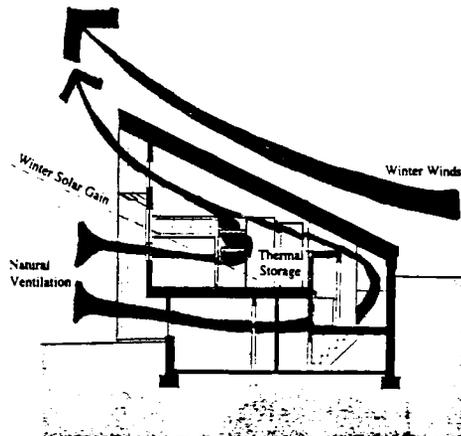
0 No Cash Rent  
 1-750 \$1-\$750  
 751 \$751 or More  
 1-1998 \$1-\$1998  
 1999 \$1999 or More  
 999 Not Applicable or No Cash Rent  
 9999 Not Applicable  
 Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, the top code is the 97th percentile for the entire national sample.

**Building Section**

The upper entry level contains a "vaulted great room" designed for market appeal and solar gain considerations. An open stair provides access and light to a lower bedroom level and also serves a mid-level compartmentalized bath and laundry area. The plan

concept allows for expansion on the east/west axis to create larger or additional bedrooms.

Section



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REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

1070 PVALUE 83N 85N-93N 84S-93S 83N 84S 85N  
42 17 18

Property Value	
83N	85N-93N
84S-93S	84S-93S
1-250000	\$1-\$250,000
250001	\$250,001 or More
1	Under \$5,000
2	\$5,000-\$7,499
3	\$7,500-\$9,999
4	\$10,000-\$12,499
5	\$12,500-\$14,999
6	\$15,000-\$17,499
7	\$17,500-\$19,999
8	\$20,000-\$22,499
9	\$22,500-\$24,999
10	\$25,000-\$27,499
11	\$27,500-\$29,999
12	\$30,000-\$34,999
13	\$35,000-\$39,999
14	\$40,000-\$44,999
15	\$45,000-\$49,999
16	\$50,000-\$54,999
17	\$55,000-\$59,999
18	\$60,000-\$64,999
19	\$65,000-\$69,999
20	\$70,000-\$74,999
21	\$75,000-\$79,999
22	\$80,000-\$89,999
23	\$90,000-\$99,999
24	\$100,000-\$124,999
25	\$125,000-\$149,999
26	\$150,000-\$199,999
27	\$200,000-\$249,999
28	\$250,000-\$299,999
29	\$300,000 Or More
98	999998 Not Answered
99	999999 Not Applicable

Note: Refers to the value of the entire property, including commercial establishments, land for units on more than 10 acres, and other dwelling units for multi-family buildings (see Table at the beginning of this section).

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.

1071 LVALUE 85N-93N 84S-93S 84S 85N  
19 19

Market Value Of Land (Mobile Home)	
85N-93N	84S-93S
0-15000	\$0-\$15,000
15001	\$15,001 or More
99998	Not Answered
99999	Not Applicable

Note: Only Asked If Land Is Owned

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.

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			
1072	MSALE	80N	Market Value Of Mobile Home (Asked if Site Rented)	<u>83N</u>			
1073	MVAL	83N	Market Value of Mobile Home (Asked if Site Owned)	37			
			1 Less Than \$5000				
			2 \$5000-7499				
			3 \$7500-9999				
			4 \$10,000-12,499				
			5 \$12,500-14,999				
			6 \$15,000-17,499				
			7 \$17,500-19,999				
			8 \$20,000-22,499				
			9 \$22,500-24,999				
			10 \$25,000-27,499				
			11 \$27,500-29,999				
			12 \$30,000-34,999				
			13 \$35,000-39,999				
			14 \$40,000-44,999				
			15 \$45,000-49,999				
			16 \$50,000-54,999				
			17 \$55,000-59,999				
			18 \$60,000-64,999				
			19 \$65,000-69,999				
			20 \$70,000-74,999				
			21 \$75,000- Or More				
			98 Not Answered				
			99 Not Applicable				
1074	LPRICE	78N-93N 78S-93S	Purchase Price Of House And Lot/Condo Unit (Not Including Closing Costs Or Value Of Land For Mobile Homes)	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
			78N-83N	23	21	16	17
			<u>78S-83S</u> <u>84S-93S</u> <u>85N-93N</u>				
			1-200000				\$1-\$200,000
			200001				\$200,001 or More
			1-250000				\$1-\$250,000
			250001				\$250,001 or More
			1-999996				\$1-\$999,996
			999998				999998 Not Answered
			999999				999999 Not Applicable
			Note: Before 1984, the variable was available for recent movers who acquired the property in the last 12 months only. After 1984, it is available for all owner-occupied units (See table at the beginning of this section).				
			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.				
1075	DWNPAY	78N-93N 82S-93S	Major Source of Dnpmnt.--Purchase/Constr. of Property	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
			78N-83N 85N-93N	23	21	16	17
			<u>82S-83S</u> <u>84S-93S</u>				
			1	1			Sale of Previous Home If Sold During Past 12 Months
			3	2			Savings Or Cash On Hand
			2	3			Sale of Other Investment
			4	4			Borrowing Other Than A Mortgage On This Property
				5			Inheritance or Gift
			5				Gift
			6	6			Land On Which Structure Built Used For Financing
			7	7			Other
			8	8			No Downpayment Required
			98	98			Not Answered
			99	99			Not Applicable

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

1076 ZPRICEM 74N-83N Purchase Price of Mobile Home (on &lt;10 acres)

83N  
13

74N-81N	83N	
1	1	Under \$500
2	2	\$500-\$999
3	3	\$1000-\$1499
4	4	\$1500-\$1999
5	5	\$2000-\$2499
6	6	\$2500-\$2999
7	7	\$3000-\$3499
8	8	\$3500-\$3999
9	9	\$4000-\$4499
10	10	\$4500-\$4999
11	11	\$5000-\$5499
12	12	\$5500-\$5999
13	13	\$6000-\$6499
14	14	\$6500-\$6999
15	15	\$7000-\$7499
16	16	\$7500-\$7999
17	17	\$8000-\$8499
18	18	\$8500-\$8999
19	19	\$9000-\$9499
20	20	\$9500-\$9999
21	21	\$10000-\$10499
22	22	\$10500-\$10999
23	23	\$11000-\$11499
24	24	\$11500-\$11999
25	25	\$12000-\$12499
26	26	\$12500-\$12999
27	27	\$13000-\$13499
28	28	\$13500-\$13999
29	29	\$14000-\$14499
30	30	\$14500-\$14999
31	31	\$15000-\$17499
	32	\$17500-\$19999
	33	\$20000-\$22499
	34	\$22500-\$24999
	35	\$25000-\$27499
	36	\$27500-\$29999
	37	\$30000-\$34999
	38	\$35000 or more
98	98	Not Answered
99	99	Not Applicable

Note: For a few non-mobile homes in 78N-81N, ZPRICEM is coded 31 instead of 99 in the Census Tapes. These cases are corrected in the Abt tapes.

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REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

1077	RPRICE	83N	Purchase Price Of Mobile Home (on <10 acres)
			1 Under \$500
			2 \$500-\$999
			3 \$1000-\$1499
			4 \$1500-\$1999
			5 \$2000-\$2499
			6 \$2500-\$2999
			7 \$3000-\$3499
			8 \$3500-\$3999
			9 \$4000-\$4499
			10 \$4500-\$4999
			11 \$5000-\$5499
			12 \$5500-\$5999
			13 \$6000-\$6499
			14 \$6500-\$6999
			15 \$7000-\$7499
			16 \$7500-\$7999
			17 \$8000-\$8499
			18 \$8500-\$8999
			19 \$9000-\$9499
			20 \$9500-\$9999
			21 \$10000-\$10499
			22 \$10500-\$10999
			23 \$11000-\$11499
			24 \$11500-\$11999
			25 \$12000-\$12499
			26 \$12500-\$12999
			27 \$13000-\$13499
			28 \$13500-\$13999
			29 \$14000-\$14499
			30 \$14500-\$14999
			31 \$15000 Or More
			98 Not Answered
			99 Not Applicable

83N  
13

1078	PRICEM	75S-83S	Purchase Price of Mobile Home (on <10 acres)
			0 Not Purchased
			1-99997 \$1-\$99997
			99998 Not Answered
			99999 Not Applicable

83S  
13

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1079	ZPRICE	83N	Purchase Price of Mobile Home (on >10 acres)	<u>83N</u> 39			
			1 Under \$500				
			2 \$500-\$999				
			3 \$1000-\$1499				
			4 \$1500-\$1999				
			5 \$2000-\$2499				
			6 \$2500-\$2999				
			7 \$3000-\$3499				
			8 \$3500-\$3999				
			9 \$4000-\$4499				
			10 \$4500-\$4999				
			11 \$5000-\$5499				
			12 \$5500-\$5999				
			13 \$6000-\$6499				
			14 \$6500-\$6999				
			15 \$7000-\$7499				
			16 \$7500-\$7999				
			17 \$8000-\$8499				
			18 \$9000-\$8999				
			19 \$9000-\$9499				
			20 \$9500-\$9999				
			21 \$10000-\$10499				
			22 \$10500-\$10999				
			23 \$11000-\$11499				
			24 \$11500-\$11999				
			25 \$12000-\$12499				
			26 \$12500-\$12999				
			27 \$13000-\$13499				
			28 \$13500-\$13999				
			29 \$14000-\$14499				
			30 \$14500-\$14999				
			31 \$15000-\$17499				
			32 \$17500-\$19999				
			33 \$20000-\$22499				
			34 \$22500-\$24999				
			35 \$25000-\$27499				
			36 \$27500-\$29999				
			37 \$30000-\$34999				
			38 \$35000 Or More				
			98 Not Answered				
			99 Not Applicable				
1080	PRICE	83S	Purchase Price of Mobile Home (on >10 acres)	<u>83S</u> 36			
			0 Not Purchased				
			1-99997 \$1-\$99997				
			99998 Not Answered				
			99999 Not Applicable				
1081	BUYR	78N-93N 78S-93S	When Household Purchased This Property	<u>83N</u> 23	<u>83S</u> 21	<u>84S</u> 16	<u>85N</u> 17
			78N-83N 85N-93N				
			<u>78S-83S 84S-93S</u>				
			01 Owner Built or Had Built				
			02 Received As Inheritance Or Gift				
		1	Purchased In Last 12 Months				
			03-93 Purchased 1903 to 1993				
		2	Purchased Prior to Last 12 Months				
		8	Not Answered				
		9	Not Applicable				
			99 Non-Interview or Renter				
1082	YRBUYM	74N-83N 75S-83S	Year Acquired Mobile Home or Trailer (on<10 acres)	<u>83N</u> 13	<u>83S</u> 13		
			74N-81N 75S-83S				
			<u>83N</u>				
			00-83 1900-1983				
		59	1959 Or Before				
		60-83	1960-1983				
		99	99 Not Applicable				

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1083	YRBUY	83N 83S	Year Acquired Mobile Home or Trailer (on>10 acres) <u>83N</u> <u>83S</u> 00-83 1900-1983 59 1959 or Before 60-83 1960-1983 99 99 Not Applicable	<u>83N</u> 39	<u>83S</u> 36		
1084	WHNRCV	85N-93N 84S-93S	Year In Which Hhld Recd/Inherited Home 00-93 1900-1993 98 Not Answered 99 Non-Interview, Renter, Or Did Not Inherit/Receive Home			<u>84S</u> 16	<u>85N</u> 17
1085	MNEWM	80N 83N	Mobile Home New When Head Moved In 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 38			
1086	NEWM	74N-83N 75S-83S	Mobile Home New When Acquired (MH on < 10 acres) 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 13	<u>83S</u> 13		
1087	NEWMOT	83N 83S	Mobile Home New When Acquired (MH on > 10 acres) 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 39	<u>83S</u> 36		
1088	NEWMCO	83N	Mobile Home New When Acquired (MH owned as condo) 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 38			
1089	HOWBUY	74N-77N 75S-81S	How Property Was Acquired 1 Inherited Or Gift 2 Paid All Cash 3 Other Manner 8 Not Answered 9 Not Applicable	<u>77N</u> 21	<u>81S</u> 21		
1090	MHGET	80N 83N	How Was Mobile Home Acquired 1 Inheritance Or Gift 2 Paid All Cash 3 Other Manner 8 Not Answered 9 Not Applicable	<u>83N</u> 36			
1091	NROWNR	85N-93N 84S-93S	Ownership Of House/Apt Shared With Non-Resident 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 19	<u>85N</u> 19
1092	MORT	73N-93N 74S-93S	Mortgage Or Other Secured Loan On Property 1 Mortgage Or Other Secured Loan 2 Free And Clear 9 Not Applicable	<u>83N</u> 13	<u>83S</u> 13	<u>84S</u> 19	<u>85N</u> 19
1093	MLOAN	75S	Installment Loan On Mobile Home 1 Yes, Installment Loan Or Contract 2 No, Owned Free and Clear 8 Not Answered 9 Not Applicable			<u>75S</u> 14	

Note: Starting with 76S, question is coded under MORT. In 76S-78S tapes released earlier, MLOAN is still present and is unreliable. It has been corrected in later versions.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1094	CMORT	80N-83N 83S	Mortgage on Condo/Coop Unit 1 Unit Mortgaged 2 Unit Owned Free and Clear 8 Not Answered 9 Not Applicable	<u>83N</u> 22	<u>83S</u> 20		
1095	NUMMOR	85N-93N 84S-93S	Number Of Mortgages On Home/Property 1-6 1 to 6 Mortgages 8 Not Answered 9 Not Applicable			<u>84S</u> 20	<u>85N</u> 20
1096	MATBUY	74N-77N 85N-93N 75S-81S 84S-93S	Mortgage Placed-Assumed At Acquisition 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>77N</u> 21	<u>81S</u> 21	<u>84S</u> 20	<u>85N</u> 20
1097	MATBY2	85N-93N 84S-93S	2nd Mortgage Placed/Assumed At Acquisition 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 20	<u>85N</u> 20
1098	MNUMOR	80N 83N	Placed Or Assumed Mortgage When Mobile Home Acquired 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 36			
1099	NEWMOR	77N-93N 77S-93S	Primary Mortgage New Or Assumed 77N-83N 85N-93N <u>77S-83S 84S-93S</u> 1 1 New 2 2 Assumed 3 3 Wrap-Around 8 8 Not Answered 9 9 Not Applicable	<u>83N</u> 23	<u>83S</u> 21	<u>84S</u> 20	<u>85N</u> 20
1100	NEWMR2	85N-93N 84S-93S	Second Mortgage New Or Assumed 1 New 2 Assumed 3 Wrap-Around 8 Not Answered 9 Non-Interview, Renter, Or No Second Mortgage			<u>84S</u> 20	<u>85N</u> 20
1101	AMMORT	77N-93N 77S-93S	Amount of Primary Mortgage When Acquired 77N-83N 85N-93N 84S-93S <u>77S-83S</u> 1-200000 1-200,000 200001 \$200,001 or More 1-250000 \$1-\$250,000 250001 \$250,001 or More 1-999996 \$1-\$999,996 999997 \$999,997 or More 999998 999998 999998 Not Answered 999999 999999 999999 Not Applicable	<u>83N</u>	<u>83S</u>	<u>84S</u> 20	<u>85N</u> 20
<p>Note: In 78S, the question is applicable to some owner occupants who are not recent movers. From 1984 on, also see RESMOR, RESMR2 below.</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>							

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1102	AMMRT2	85N-93N	Amount of Second Mortgage When Acquired	84S	85N		
1103	AMMRT3	84S-93S	Amount of Third Mortgage When Acquired	20	20		
			1-200000 \$1-\$200,000	22	21		
			200001 \$200,001 Or More				
			999998 Not Answered				
			999999 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.				
1104	YRMOR	85N-93N	Year In Which Primary Mortgage Obtained	84S	85N		
1105	YRMOR2	84S-93S	Year In Which Second Mortgage Obtained	20	20		
			00-93 1900-1993	20	20		
			98 Not Answered				
			99 Non-Interview, Renter, Or No (1st/2nd) Mortgage				
			Note: Asked only if mortgage was not obtained at acquisition time.				
1106	TERM	85N-93N	Term Of Primary Mortgage	84S	85N		
1107	TERM2	84S-93S	Term Of Second Mortgage	20	20		
			0 Can Vary	20			
			01-30 1 to 30 Years				
			31 31 Years or More				
			98 Not Answered				
			99 Not Applicable				
			Note: If mortgage was assumed, the variables refer to the number of years left.				
			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.				
1108	AMRTZ	85N-93N	Ammortization Schedule For Primary Mortgage	84S	85N		
1109	AMRTZ2	84S-93S	Ammortization Schedule For Second Mortgage	20	20		
			01-96 1 To 96 Years To Pay Off	20	20		
			98 Not Answered				
			99 Non-Interview, Renter, No Mortgage, Or More Than 15 Years To Ammortize				
			Note: Question asked only if mortgage term is less than 15 years.				
1110	INT	85N-93N	Current Interest Rate On Primary Mortgage	84S	85N		
1111	INT2	84S-93S	Current Interest Rate On Second Mortgage	20	20		
			0000-9797 0.00% to 97.97%	20	20		
			9898 Not Answered (Note Special Code)				
			9999 Not Applicable				
1112	MORTINS	73N-77N	Primary Mortgage Insurance	83N	83S	84S	85N
		79N-93N	73N 74N 75N 75S 76S 78S 77N 85N-93N	22	20	21	21
		74S-93S	74S 76N 77S 79S 79N-83N 84S-93S				
			80S-83S				
			1 1 1 1 1 1 1 1				
			2 2 2 2 2 2 2 2				
			3 3 3 3 3 3 3 3				
			4 4				
			2 5 5 5 5 4				
			6 6 5				
			8 8 8 8 8 8 8				
			8 8				
			9 9 9 9 9 9 9 9				
			9 9				
			Note: 74N-76N Questionnaires Have "Private Co." As A Possible Answer; These Were Changed To "5" In The Data Base. Because The Information Was Considered Unreliable. 79N Questionnaire Has "No Mortgage" As A Possible Answer; This Was Changed To "9" In The Data Tapes.				

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1113	MORTN2	85N-93N 84S-93S	Insurance For Second Mortgage 1 FHA 2 VA 3 FMHA 4 Some Other Mortgage 5 Don't Know 8 Not Answered 9 Not Applicable	84S 21	85N 21		
1114	BANK	85N-93N	Who Provided Primary Mortgage	84S 21	85N 21		
1115	BANK2	84S-93S	Who Provided Second Mortgage 1 Bank Or Other Organization 2 Individual 8 Not Answered 9 Not Applicable	21	21		
1116	SELL	85N-93N	Seller Provided Primary Mortgage	84S 21	85N 21		
1117	SELL2	84S-93S	Seller Provided Second Mortgage Standard Codes For Both Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	21	21		
1118	VARY	85N-93N	Payments Same During Length Of 1st Mortgage	21	21		
1119	VARY2	84S-93S	Payments Same During Length Of 2nd Mortgage	21	21		
1120	FIXED		1st Mortgage Payments Vary Due To Change In Taxes/Insurance Or Decline In Principal Balance	21	21		
1121	FIXED2		2nd Mortgage Payments Vary Due To Change In Taxes/Insurance Or Decline In Principal Balance	21	21		
1122	ARM		1st Mortgage Payment Varies With Interest Rate	21	21		
1123	ARM2		2nd Mortgage Payment Varies With Interest Rate	21	21		
1124	GPM		1st Mortgage Payment Rises On Fixed Schedule (Part of Loan)	21	21		
1125	GPM2		2nd Mortgage Payment Rises On Fixed Schedule (Part of Loan)	21	21		
1126	GPMW		1st Mortgage Payment Rises On Fixed Schedule (Whole Loan)	21	21		
1127	GPMW2		2nd Mortgage Payment Rises On Fixed Schedule (Whole Loan)	21	21		
1128	BLOON		Last Payment Largest For First Mortgage	21	21		
1129	BLOON2		Last Payment Largest For Second Mortgage Standard Codes For All Variables Are: 0 No 1 Yes 8 Not Answered 9 Not Applicable	21	21		
Note: Asked only if variable payment schedule.							
1130	VARM	85N-93N	1st Mortgage Payments Vary For Other Reason	85S 21	85N 21		
1131	VARM2	85S-93S	2nd Mortgage Payments Vary For Other Reason Standard Codes For Both Variables Are: 0 No 1 Yes 8 Not Answered 9 Not Applicable	21	21		
Note: Asked only if variable payment schedule.							
1132	LOON	85N-93N	Percent of 1st Mortgage To Be Paid In Balloon Payment	84S 21	85N 21		
1133	LOON2	84S-93S	Percent of 2nd Mortgage To Be Paid In Balloon Payment Standard Codes For All Variables Are: 1 1 to 25 Percent 2 26 to 50 Percent 3 51 to 75 Percent 4 76 to 100 Percent 8 Not Answered 9 Not Applicable	21	21		
Note: Asked only if payment is variable and last payment is the largest.							
1134	PINCOP	83N-93N 83S-93S	1st Mortgage Pymnt Inc Pymnt For Prop Other Than Res 1 Yes 2 No 8 Not Answered 9 Not Applicable	83N 39	83S 36	84S 20	85N 20

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1135	PINCO2	85N-93N 84S-93S	2nd Mortgage Payment Incl Payment For Prop Other Than Res 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>84S</u> 20	<u>85N</u> 20		
1136	MFARM	85N-93N	1st Mortgage Payment Incl Payment For Farm Land	<u>84S</u> 20	<u>85N</u> 20		
1137	MFARM2	84S-93S	2nd Mortgage Payment Incl Payment For Farm Land Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	20	20		
1138	MCOM	85N-93N	1st Mortgage Payment Incl Payment For Business On Prop	<u>84S</u> 20	<u>85N</u> 20		
1139	MCOM2	84S-93S	2nd Mortgage Payment Incl Payment For Business On Prop Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	20	20		
1140	RESMOR	85N-93N	Amt Of 1st Mortgage Applying To Residence	<u>84S</u> 20	<u>85N</u> 20		
1141	RESMR2	84S-93S	Amt Of 2nd Mortgage Applying To Residence 1-999996 \$1 to \$999,996 999997 \$999,997 Or More 999998 Not Answered 999999 Not Applicable	20	20		
1142	FPMT	74N-81N 83N 75S-83S	Frequency of Mortgage Payment 1 Monthly 2 Yearly 3 Other 8 Not Answered 9 Not Applicable	<u>83N</u> 14	<u>83S</u> 14		
1143	CFPMT	80N-81N 83N 83S	Mortgage Payments On This Condo/Coop Unit Due 1 Per Month 2 Per Year 3 Other 8 Not Answered 9 Not Applicable	<u>83N</u> 44	<u>83S</u> 34		
1144	NRPAYM	85N-93N 84S-93S	Non-Resident Pays Some Mortgage/Utility Costs 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>84S</u> 19	<u>85N</u> 19		
1145	PMT	74N-93N 75S-93S	Amount of Primary Mortgage Payment 74N-83N 85N-93N <u>75S-83S 84S-93S</u> 1-2000 \$1-\$2,000 2001 \$2,001 or More 1-9996 \$1-\$9996 9997 \$9,997 or More 9998 9998 Not Answered 9999 9999 Not Applicable Note: Before 1984, this variable reflects total mortgage payments, if owner had more than one mortgage. Starting in 1984, the variable is available for all owner-occupied units. See the table at the beginning of the section. 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.	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 20	<u>85N</u> 20
1146	PMT2	85N-93N	Amount of Second Mortgage Payment	<u>84S</u> 20	<u>85N</u> 20		
1147	PMT3	84S-93S	Amount of Third/Other Mortgage(s) Payment(s) 1-2000 \$1-\$2000 2001 \$2001 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.	22	21		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1148	CPMT	80N-81N 83N 83S	Total Mortgage Payments On Condo/Coop Unit 0-9997 \$0-\$9997 9998 Not Answered 9999 Not Applicable	<u>83N</u> 44	<u>83S</u> 34		
1149	RESAMT	83N 83S	Amount of Mortgage Payment Applying to Res Only 0 Don't Know 1-9996 \$1-\$9996 9997 \$9997 or more 9998 Not Answered 9999 Not Applicable	<u>83N</u> 39	<u>83S</u> 36		
1150	TAXPMT	74N-93N 75S-93S	Real Estate Taxes Included In 1st Mortgage Payment 1 Yes 2 No 8 Not Answered 9 Not Applicable Note: starting in 1984, the variable is available for all owner-occupied units. See the table at the beginning of the section.	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 20	<u>85N</u> 20
1151	TXPMT2	85N-93N 84S-93S	Real Estate Taxes Included In 2nd Mortgage Payment 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 20	<u>85N</u> 20
1152	CTXPMT	80N-83N 83S	Real Estate Taxes Included In Condo Mortgage Payments 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 44	<u>83S</u> 34		
1153	PTXPMT	83N 83S	Real Estate Taxes Included In Multi-Family Mort Payment 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 39	<u>83S</u> 36		
1154	BUYX	74N-83N 75S-83S	Owner Pays Real Estate Taxes (Even If Incl In Mortgage) 1 Yes 2 No 9 Not Applicable	<u>83N</u> 14	<u>83S</u> 14		
1155	CBUYX	80N-83N 83S	Pay Real Estate Taxes Separately From Condo Mortgage 1 Yes 2 No, Or Not Used 8 Not Answered 9 Not Applicable	<u>83N</u> 44	<u>83S</u> 34		
1156	PBUYX	83N 83S	Prop Owner Pays Real Estate Taxes (Even If Included In Mortgage) 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 41	<u>83S</u> 38		
1157	NORESX	83N 83S	Payment For Real Estate Taxes Other Than For Res 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 41	<u>83S</u> 38		

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1158	MPRPTX	80N 83N	Annual Tax, Fee Or Similar Charge For Mobile Home <u>80N</u> <u>83N</u> 2 200 License Fee Or Similar Charge Only 3 30 None 4 4 Don't Know 10 1000 Personal Property Tax Only 12 1200 Personal Property Tax and License Fee 98 9998 Not Answered 99 9999 Not Applicable Note: A few codes "13" in 1980N are present in the files. These values should be considered as missing as they cannot be accurately documented.	<u>83N</u> 36
1159	MHTAX	80N 83N	Yearly Cost of Taxes and Fees On Mobile Home 0-9997 \$0-9997 9998 Not Answered 9999 Not Applicable	<u>83N</u> 38
1160	MPRT	80N 83N	Tax, Fee Or Similar Charge For Mob Hm-no R.E. tax paid <u>80N</u> <u>83N</u> 2 200 License Fee Or Similar Charge Only 3 30 None 4 4 Don't Know 10 1000 Personal Property Tax Only 12 1200 Personal Property and License Fee 98 9998 Not Answered 99 9999 Not Applicable	<u>83N</u> 37
1161	MHTX	83N	Yrly Cost of Taxes+Fees On Mobile Home--No Taxes Pd 0-9997 \$0-9997 9998 Not Answered 9999 Not Applicable	<u>83N</u> 38



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1166	SPASSX	83N 83S	Amt Of Owner's Res Tax Payment Based On Sep Assess 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 41	<u>83S</u> 38		
1167	BUYI	74N-93N 75S-93S	Household Pays Fire/Hazard/Hhld Property Insurance (Even If Included In Mortgage) 1 Yes 2 No 9 Not Applicable  Note: Until 1983, the variable referred to Fire/ Hazard/Casualty Insurance only and was asked of owners in single family units only. Starting in 1984, this variable is asked for all owner occupied units and for rental units (household property insurance). See Table at the beginning of the section.	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 23	<u>85N</u> 24
1168	CBUYI	80N-81N 83N 83S	Condo/Coop Owner Buys Fire/Hazard Ins Sep From Mort 1 Yes 2 No, Or Not Used 8 Not Answered 9 Not Applicable	<u>83N</u> 44	<u>83S</u> 34		
1169	PBUYI	83N 83S	Multi-Family Owner Buys Prop Fire/Hazard Insurance (Even If Included in Mortgage) 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 41	<u>83S</u> 38		
1170	NORESI	83N 83S	Payment For Insurance Other Than For Residence 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 41	<u>83S</u> 38		
1171	INSPMT	74N-93N 75S-93S	Fire+Hazard Casualty Insurance Incl In Mortgage Payment 1 Yes 2 No 8 Not Answered 9 Not Applicable  Note: Starting in 1984, the variable is available for all owner-occupied units. See the table at the beginning of this section.	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 20	<u>85N</u> 20
1172	INPMT2	85N-93N 84S-93S	Fire+Hazard Casualty Ins Incl In 2nd Mortgage Payment 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 20	<u>85N</u> 20
1173	PINSPT	83N 83S	Fire & Hazard Ins Inc In Prop Mortgage Payment 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 39	<u>83S</u> 36		
1174	AMTI	74N-93N 75S-93S	Annual Cost For Fire/Hazard/Hhld Property Insurance 74N-83N 85N-93N <u>75S-83S 84S-93S</u> 1-500 \$1-\$500 501 \$501 or More 1-1996 \$1-\$1996 1997 \$1997 or More 9998 998 Not Answered 9999 999 Not Applicable  Note: Starting in 1984, this variable is available for owners and renters. See the table at the beginning of this section.	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 23	<u>85N</u> 24

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			
1175	CAMTI	80N-81N 83N 83S	Yearly Cost Of Fire And Hazard Insurance For All Variables, Standard Codes Are: 0-9997 \$0-\$9997 9998 Not Answered 9999 Not Applicable	<u>83N</u> 44	<u>83S</u> 34		
1176	PAMTI	83N 83S	Avg Annual Cost of Property Fire And Hazard Ins 1-9997 \$1-\$9997 9998 \$9998 or more 9999 Not Applicable	<u>83N</u> 41	<u>83S</u> 38		
1177	AMTRSI	83N 83S	Amt Of Insurance Payment For Owner's Residence 0 Don't Know 1-9997 \$1-\$9997 9998 \$9998 Or More 9999 Not Applicable	<u>83N</u> 41	<u>83S</u> 38		
1178	SPPREI	83N 83S	Amt Of Owner's Res Ins Payment Based On Sep Bills 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 41	<u>83S</u> 38		
1179	INSTHF	76N-77N	Theft Insurance (Owner)	<u>77N</u>	<u>78S</u>		
1180	INSFLD	77S-78S	Flood Insurance (Owner)	36	36		
1181	INSQKE		Earthquake Insurance (Owner)	36	36		
1182	REFINS		Refused Insurance 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	36	36		
1183	REFTYP	76N-77N 77S-78S	Type of Insurance Refused 1 Fire Only 2 Theft Only 3 Hazard Only 4 Fire And Theft 5 Fire And Hazard 6 Theft And Hazard 7 Fire, Theft, And Hazard 8 Not Answered 9 Not Applicable	<u>77N</u> 36	<u>78S</u> 36		
1184	INSRTH	76N-77N	Theft Insurance (Renter)	<u>77N</u>	<u>78S</u>		
1185	INSRFR	77S-78S	Fire Insurance (Renter)	36	36		
1186	INSRHZ		Hazard Insurance (Renter) 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	36	36		
1187	OWNLOT	74N-93N 75S-93S	Land/Mobile Home Site Owned 1 Yes 2 No 8 Not Answered 9 Not Applicable  Note: Prior to 1984, the question only applied to mobile homes on less than 10 acres. Starting in 1984, this question is asked of all mobile home owners. Starting in 1985, the variable is coded for URE and Vacant Units.	<u>83N</u> 13	<u>83S</u> 13	<u>84S</u> 23	<u>85N</u> 40
1188	OWNLT	83N	If Mobile Home Owned, Is Site Owned (MH on>10 acres) 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 39	<u>83S</u> 36		

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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1189	OWNSIT	74N-83N 75S-83S	Site Owned (Rented Mobile Homes) 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 15	<u>83S</u> 15		
1190	LANPMT	85N-93N 84S-93S	Land Rent Included In Mortgage Payment 1 Yes 2 No 8 Not Answered 9 Not Applicable Note: Asked if home is owned and land rented.			<u>84S</u> 23	<u>85N</u> 24
1191	INCS	74N-77N 80N 83N-93N 75S-81S 84S-93S	Pay Land/Site Rent 74N-77N 80S-81S 80N,83N 85N-93N <u>75S-79S 84S-93S</u> 2 1 Yes 1 2 No 8 Not Answered 9 9 Not Applicable Note: Until 1983, the question was asked for rented mobile homes only. Starting in 1984, it is asked of all owners (see table at the beginning of this section).	<u>83N</u> 38	<u>81S</u> 23	<u>84S</u> 14	<u>85N</u> 14
1192	FLRENT	80N 83N-93N 83S-93S	Frequency Of Site Rent 80N,83N 85N-93N <u>83S 84S-93S</u> 0 Not Cash Rent 1 More Than Once A Month 2 Less Than Once A Month 3 Once A Month 1-12 1 to 12 Times A Month 8 98 Not Answered 9 99 Not Applicable Note: Until 1983, the question was asked for owned mobile homes only. After 1984, it is asked of non-mobile home owners who rent the land only. Starting in 1985, it is asked of all owners (see table at the beginning of the section).	<u>83N</u> 37	<u>83S</u> 13	<u>84S</u> 23	<u>85N</u> 24
1193	LRENT	74N-77N 80N 83N-93N 75S-81S 83S-93S	Monthly Rent For Mobile Home Site, Home Itself Owned 74N-77N 80N-93N <u>75S-83S 84S-93S</u> 0-996 \$0-\$996 0-1998 \$0-\$1998 997 \$997 Or More 1999 \$1999 Or More Included In Mobile Home Park Or Association Fee (Mobile Homes Only) 9998 998 Not Answered 9999 999 Not Applicable Note: Until 1983, the question was asked for owned mobile homes only. In 1983, it is asked of mobile home renters and all owners who rent the land. Starting in 1984, it is asked of mobile home renters and mobile home owners (see table at the beginning of this section). 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.	<u>83N</u> 37	<u>83S</u> 13	<u>84S</u> 23	<u>85N</u> 14
1194	FSRENT	80N	Rent Freq For Mobile Home Site-Home Rented Separately 1 More Than Once A Month 2 Less Than Once A Month 3 Once A Month 8 Not Answered 9 Not Applicable	<u>80N</u> 46			

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1195	SRENT	74N-77N 80N 75S-81S	Mnthly Rent for Mobile Home Site-Home Rented Separately 74N-77N 80N <u>75S-81S</u> 1-996 \$1-\$996 1-1998 \$1-\$1998 997 \$997 Or More 1999 \$1999 Or More 9998 998 Not Answered 9999 999 Not Applicable	<u>80N</u> 46	<u>81S</u> 23		
1196	IFEE	85N-93N 84S-93S	Condo/Coop/Homeowner's Assn/Mobile Home Fee Required 1 Yes 2 No 8 Not Answered 9 Not Applicable		<u>84S</u> 15	<u>85N</u> 14	
1197	CAMF	80N-93N 83S-93S	Condo/Homeowner's Assn/Mobile Home Fee Due 80N-83N 85N-93N <u>83S</u> <u>84S-93S</u> 2 1 One Time Per Year 3 2-52 2 to 52 Times Per Year 1 12 Other Number Of Times Per Year 8 98 Monthly 9 99 Not Answered 99 Not Applicable	<u>83N</u> 44	<u>83S</u> 34	<u>84S</u> 22	<u>85N</u> 14
1198	CONFEE	80N-93N 83S-93S	Amount of Condominium/Homeowner's Ass/Mobile Home Fee 80N-83N 85N-93N <u>83S</u> <u>84S-93S</u> 1 \$1-5 2 \$6-10 3 \$11-15 4 \$16-20 5 \$21-25 6 \$26-30 7 \$31-35 8 \$36-40 9 \$41-45 10 \$46-50 11 \$51-55 12 \$56-60 13 \$61-65 14 \$66-70 15 \$71-75 16 \$76-80 17 \$81-85 18 \$86-90 19 \$91-95 20 \$96-100 21 \$101-105 22 \$106-110 23 \$111-115 24 \$116-120 25 \$121-125 26 \$126-130 27 \$131-135 28 \$136-140 29 \$141-145 30 \$146-150 31 \$151-155 32 \$156-160 33 \$161-165 34 \$166-170 35 \$170+ 0-9997 \$0-\$9997 9998 98 Not Answered 9999 99 Not Applicable	<u>83N</u> 22	<u>83S</u> 22	<u>84S</u> 22	<u>85N</u> 14

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.

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1199	CMNTN	80N-81N	Upkeep Maintenance of the Common Space/Grounds in Fee	<u>83N</u> 45	<u>83S</u> 35
1200	CPARK	83N	Off-Street Parking Included in Fee	45	35
1201	CSWIM	83S	Swimming Facilities Included in Fee	45	35
1202	CREC		Other Recreational Facilities Included in Fee	45	35
1203	CSECUR		Security Personnel Included in Fee	45	35
1204	COTHER		Other Items Are Included In Condominium Fee	45	35
			For All Variables, Standard Values Are:		
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1205	OTHPMT	85N-93N	1st Mortgage Payment Includes Payment For Other Charges	<u>84S</u> 20	<u>85N</u> 20
1206	OTPMT2	84S-93S	2nd Mortgage Payment Includes Payment For Other Charges	20	20
			Standard Codes For All Variables Are:		
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1207	AMTM	85N-93N	Amount of Other Charges Incl In 1st Mortgage Last Yr	<u>84S</u> 20	<u>85N</u> 20
1208	AMTM2	84S-93S	Amount of Other Charges Incl In 2nd Mortgage Last Yr	20	20
			Standard Codes For All Variables Are:		
			1-9997 \$1-\$9997		
			9998 Not Answered		
			9999 Not Applicable		
1209	IFOTHF	85N-93N 85S-93S	Other Required Fees For Mobile Home Owners	<u>85S</u> 14	<u>85N</u> 14
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1210	FMHOTF	85N-93N 85S-93S	Frequency Of Other Mobile Home Fee Payments	<u>85S</u> 14	<u>85N</u> 14
			01-11 1 To 11 Times Per Year		
			12 Monthly		
			98 Not Answered		
			99 Not Applicable		
1211	MHOTFE	85N-93N 85S-93S	Average Cost Per Billing Period Of Other MH Fees	<u>85S</u> 14	<u>85N</u> 14
			001-997 \$0 to \$997		
			998 Not Answered		
			999 Not Applicable		

This section includes information for recent movers in all surveys and questions on lifetime and planned mobility for selected years. The definition of recent movers changed after 1983 (see definition below) but the types of data available are generally the same: data on previous residence and reasons for move. It should be noted that this information is available only for households who moved into a sample unit from another place of residence. It does not include information for households who left a sample unit, since the AHS samples units, not households. Until 1984, the data indicated whether a change in household composition had occurred as a result of the move to the new unit, by stating whether the reference person was also the reference person in the previous unit and by providing information to compare the number of individuals who lived in the previous unit and the number of individuals living in the sample unit. Starting in 1984, the AHS asks a series of detailed questions for each household member which determine whether all household members were already living together before the move. If not, subgroups of the household who came from different previous residences are identified. Information on the location and selected characteristics of each group's previous residence is available. These data can be used to study household formation. Data on reasons for moving are available in 1984 and later only if the respondent moved into the unit after 1979 (or moved in past year for 1973-1983 surveys). The questions on reason for moving in the 1984 and subsequent surveys are similar to the questions asked prior to 1984. The reasons for selecting a particular house/apartment are more specific and provide information on the characteristics of the unit which influenced the household choice. Data on mobility (residence at age 16 and planned residence for the future) are only available in selected years. Starting in 1984, the mobility questions are asked only if the respondent moved after 1979.

Recent Mover--Until 1984, a household was considered a recent mover if the reference person moved into the sample unit within the last 12 months. Starting in 1984, data on recent movers are available if at least one household member moved into the unit after 1979. Census publications continue to define a household as recent movers if the reference person moved to the unit in the last 12 months. The availability of data for each person who moved allows the user of AHS data files to use a definition appropriate for a specific analysis.

Date reference person/other household members moved into unit--The data are based on the information reported by the reference person and refer to the date of the most recent move. Thus, if the reference person moved back into a housing unit previously occupied, the date of the most recent move is to be reported; if the reference person moved from one apartment to another in the same building, the date the reference person moved into the present housing unit is to be reported. The intent is to establish the date the present occupancy by the reference person began. The date the reference person moves is not necessarily the same date other members of the household move, although in the great majority of cases, the entire household moves at the same time. Starting in 1984, a move date is available for each household member.

The variable IMONTH in the Sample Status Section shows when each interview was conducted for the SMSA survey. However the date when the reference person moved into the unit cannot be compared to date of interview to determine clearly whether the household is the same as the one interviewed the year before, because people do not always remember accurately when they moved, and the head may have moved before or after the rest of the household. The variable HHLID (see Sample Status Section) should be used to determine if the household is the same as the one interviewed the year before, although this variable has not yet been released for all survey years and some problems have been identified with the coding of the variable.

The AHS cannot be used to measure directly the number of moves that happen in any particular time period, because not all of these moves show up in the file. For example a unit with more than one family moving in and out during a year will show up with only one mover in the survey. Similarly, a move into a unit which is abandoned later in the year will not be counted in the survey. For these reasons, the AHS cannot be used to measure accurately the average time between moves for American families, since it omits multiple moves during a year, and it omits moves out of the housing stock, such as into nursing homes or other institutions.

The variable RMYEAR (until 1983) or other variable created by a user after 1983 accurately counts the number of current heads of household who have moved at least once during a year. However it does not attempt to measure all moves by those heads of household during the year. Starting in 1984, the availability of a move date for all household members enables users to identify moves by other household members. It still, however, does not provide information to identify multiple moves within a year by a specific person.

The longitudinal file merges data from at least two interviews, so it has at least two chances to record a move. This gives it better coverage of multiple moves by the same person, and of movers who die or otherwise cease being heads of household. Naturally, however, even the longitudinal file is incomplete by an unknown amount if one is trying to count all moves throughout the year. To get that statistic one would have to conduct the survey numerous times throughout the year or use statistical techniques such as the ones used to estimate life expectancy.

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1212	NLINE	80N	Line No. of Prev. Res. and Mobility Respondent 01-96 01 To 96 98 Not Answered 99 Not Applicable	<u>80N</u> 31			
1213	ALMV79	85N-93N 84S-93S	All Members of Hhld Moved From Same Prev Res After 1979 1 Yes 2 No 8 Not Answered 9 Non-Interview, Only One Hhld Member Moved In After 1979, Or No Hhld Member Moved In After 1979	<u>84S</u> 11	<u>85N</u> 11		
1214	MVG1	85N-93N	Previous Residence Group To Which Person 1 Belonged	<u>84S</u> G	<u>85N</u> G		
1215	MVG2	84S-93S	Previous Residence Group To Which Person 2 Belonged	G	G		
1216	MVG3		Previous Residence Group To Which Person 3 Belonged	G	G		
1217	MVG4		Previous Residence Group To Which Person 4 Belonged	G	G		
1218	MVG5		Previous Residence Group To Which Person 5 Belonged	G	G		
1219	MVG6		Previous Residence Group To Which Person 6 Belonged	G	G		
1220	MVG7		Previous Residence Group To Which Person 7 Belonged	G	G		
1221	MVG8		Previous Residence Group To Which Person 8 Belonged	G	G		
1222	MVG9		Previous Residence Group To Which Person 9 Belonged	G	G		
1223	MVG10		Previous Residence Group To Which Person 10 Belonged	G	G		
1224	MVG11		Previous Residence Group To Which Person 11 Belonged	G	G		
1225	MVG12		Previous Residence Group To Which Person 12 Belonged	G	G		
1226	MVG13		Previous Residence Group To Which Person 13 Belonged	G	G		
1227	MVG14		Previous Residence Group To Which Person 14 Belonged	G	G		
1228	MVG15		Previous Residence Group To Which Person 15 Belonged	G	G		
Standard Codes For All Variables Are:							
1 Person Belongs to 1st Prev Res Group							
2 Person Belongs to 2nd Prev Res Group							
3 Person Belongs to 3rd Prev Res Group							
4 Person Belongs to 4th Prev Res Group							
9 Not Applicable							
1229	MOVED	73N-93N 74S-93S	Date Head/Reference Person Moved In 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>83N</u> 9	<u>83S</u> 9	<u>84S</u>	<u>85N</u>
100 Born in Unit							
1 1965 to 4/1/70							
2 1960 to 1964							
3 1950 to 1959							
4 1949 or earlier							
YY Year Moved In							
MMYY Month and Year Since 3/70							
9999 999 Not Applicable							
Note: Until 1979, question was asked of the head. In 80N-81N, 83N, and 80S-83S, the question was asked of the reference person.							
1230	MOVE2	85N-93N	Year Hhld Member 2 Moved In	C2	C2		
1231	MOVE3	84S-93S	Year Hhld Member 3 Moved In	C2	C2		
1232	MOVE4		Year Hhld Member 4 Moved In	C2	C2		
1233	MOVE5		Year Hhld Member 5 Moved In	C2	C2		
1234	MOVE6		Year Hhld Member 6 Moved In	C2	C2		
1235	MOVE7		Year Hhld Member 7 Moved In	C2	C2		
1236	MOVE8		Year Hhld Member 8 Moved In	C2	C2		
1237	MOVE9		Year Hhld Member 9 Moved In	C2	C2		
1238	MOVE10		Year Hhld Member 10 Moved In	C2	C2		
1239	MOVE11		Year Hhld Member 11 Moved In	C2	C2		
1240	MOVE12		Year Hhld Member 12 Moved In	C2	C2		
1241	MOVE13		Year Hhld Member 13 Moved In	C2	C2		
1242	MOVE14		Year Hhld Member 14 Moved In	C2	C2		
1243	MOVE15		Year Hhld Member 15 Moved In	C2	C2		
For All Variables, Standard Codes Are:							
100 Born In Unit							
YY Year							
999 Vacant, URE, or Non-Interview							

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1244	MOV1	85N-93N	Month Hhld Member 1 Moved In	84S	85N	C2	C2
1245	MOV2	84S-93S	Month Hhld Member 2 Moved In	C2	C2	C2	C2
1246	MOV3		Month Hhld Member 3 Moved In	C2	C2	C2	C2
1247	MOV4		Month Hhld Member 4 Moved In	C2	C2	C2	C2
1248	MOV5		Month Hhld Member 5 Moved In	C2	C2	C2	C2
1249	MOV6		Month Hhld Member 6 Moved In	C2	C2	C2	C2
1250	MOV7		Month Hhld Member 7 Moved In	C2	C2	C2	C2
1251	MOV8		Month Hhld Member 8 Moved In	C2	C2	C2	C2
1252	MOV9		Month Hhld Member 9 Moved In	C2	C2	C2	C2
1253	MOV10		Month Hhld Member 10 Moved In	C2	C2	C2	C2
1254	MOV11		Month Hhld Member 11 Moved In	C2	C2	C2	C2
1255	MOV12		Month Hhld Member 12 Moved In	C2	C2	C2	C2
1256	MOV13		Month Hhld Member 13 Moved In	C2	C2	C2	C2
1257	MOV14		Month Hhld Member 14 Moved In	C2	C2	C2	C2
1258	MOV15		Month Hhld Member 15 Moved In	C2	C2	C2	C2
For All Variables, Standard Codes Are:							
			01 January				
			02 February				
			03 March				
			04 April				
			05 May				
			06 June				
			07 July				
			08 August				
			09 September				
			10 October				
			11 November				
			12 December				
			99 Person Not Present, or Person Moved In Prior to 1979				
1259	MOVEMO	79N	Month Reference Person Moved In Since 4/1/70	<u>79N</u>			
			00 Not Applicable	25			
			01 January				
			02 February				
			03 March				
			04 April				
			05 May				
			06 June				
			07 July				
			08 August				
			09 September				
			10 October				
			11 November				
			12 December				
			99 Not Applicable (Including Cases In Which Ref Person is Head)				
1260	MOVEYR	79N	Year Reference Person Moved In	<u>79N</u>			
			1 1965 to 4/1/70	25			
			2 1960 to 1964				
			3 1950 to 1959				
			4 1949 or Earlier				
			YY Year Moved In Since 4/1/70				
			99 Not Applicable (Including Cases In Which Ref Person Is Head)				
1261	RMYEAR	73N-93N 74S-93S	Reference Person Moved Here In Last 12 Months	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
			73N-83N 85N-93N	22	20		
			74S-83S 84S-93S				
			1 1 Yes				
			2 No				
			9 No or Not Applicable				
			9 Not Applicable				
1262	RMR	85N-93N 84S-93S	Respondent Moved Here In Last 12 Months	<u>84S</u>	<u>85N</u>	G	G
			1 Yes				
			9 No or Not Applicable				

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1263	RM90	73N-83N	Reference Person Lived Here Last 90 Days	<u>83N</u>	<u>83S</u>
1264	RMWINT	74S-83S	Reference Person Lived Here Last Winter	22	20
			1 Yes	22	20
			2 No		
			9 Not Applicable		
			Note: In 83N and 82S-83S the wording of RMWINT changed from "last winter" to "before Feb. 19--".		
1265	NUMOVE	80N-81N	Number of Other Moves Made in Last 12 Months	<u>83N</u>	<u>83S</u>
		83N	1 None	29	27
		82S-83S	2 One		
			3 Two		
			4 Three Or More		
			8 Not Answered		
			9 Not Applicable		
1266	XAHEAD	85N-93N	First Group's Prev Res Owned/Rented By Hhld Member	<u>84S</u>	<u>85N</u>
1267	XBHEAD	84S-93S	Second Group's Prev Res Owned/Rented By Hhld Member	12	12
1268	XCHEAD		Third Group's Prev Res Owned/Rented By Hhld Member	13	13
1269	XDHEAD		Fourth Group's Prev Res Owned/Rented By Hhld Member	13	13
			Standard Codes For All Variables Are:		
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1270	XHEAD	73N-83N	Reference Person Was Head of Household in Prev. Res.	<u>83N</u>	<u>83S</u>
		74S-83S	73N-76N 77N-81N 83N	26	24
			<u>74S-77S 78S-82S 83S</u>		
			1 1 Yes, and Person Responding Is Presently Head		
			2 2 Yes, and Person Responding Is Not Presently Head		
			1 Yes		
			2 3 No		
			3 3 No, and Person is the Reference Person		
			4 4 No, and Person is Not the Reference Person		
			9 9 9 Not Applicable		
1271	XAREL	85N-93N	1st Group's Prev Res Owned/Rented by Relative	<u>84S</u>	<u>85N</u>
1272	XBREL	84S-93S	2nd Group's Prev Res Owned/Rented By Relative	12	12
1273	XCREL		3rd Group's Prev Res Owned/Rented By Relative	13	13
1274	XDREL		4th Group's Prev Res Owned/Rented By Relative	13	13
			Standard Codes For All Variables Are:		
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1275	XMEMB	73N-83N	Respondent Was Member Of Household In Previous Residence	<u>83N</u>	<u>83S</u>
		74S-83S	1 Yes	26	24
			2 No		
			8 Not Answered		
			9 Not Applicable		
			Note: In 83N and 83S, question is asked only if XHEAD is coded 2 or 4.		

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

1276 XLOC 73N-93N Location Of Previous Unit 83N 83S 84S 85N  
 74S-93S 74S-83S 73N-77N 78N-81N 85N-93N  
 23 21 12 12

		83N	84S-93S	
				1 Same PMSA, Central City
				2 Same PMSA, Suburb
				3 Same State, Diff PMSA, Central City
				4 Diff State, Central City & Suburb
1		1		Same SMSA, Central City
				Same SMSA
2	1	2		Same SMSA, Not Central City
				Different SMSA
3	2	3		Different SMSA, Central City
4		4		Different SMSA, Not Central City
5	3			Same State, Non-SMSA
			5	Same State, Suburban
			6	Different State, Suburban
				Non-SMSA, Same County
				Non-SMSA, Diff County, Same State
6	4	7		Non-SMSA, Different State
			7	Same State, Non-Metro
			8	Different State, Non-Metro
			9	Outside U.S.
9	9	9	99	Not Applicable

Note: In Early Releases Of The 1978S Tape, XLOC Has Missing Values For All Cases. Starting in 1984, the Variable Refers to the Reference Person Only.

1277 XAINUS 85N-93N 1st Hhld Group's Previous Residence Outside U.S. 84S 85N  
 1278 XBINUS 84S-93S 2nd Hhld Group's Previous Residence Outside U.S. 12 12  
 1279 XCINUS 3rd Hhld Group's Previous Residence Outside U.S. 13 13  
 1280 XDINUS 4th Hhld Group's Previous Residence Outside U.S. 13 13

Standard Codes For All Variables Are:  
 1 Outside U.S.  
 9 Not Applicable

1281 XINUS 73N Previous Residence Outside The U.S. 83N 83S  
 78N-83N 1 Yes 23 21  
 74S 9 Not Applicable  
 79S-83S

1282 XAZON 84S-93S Zone For 1st Hhld Group's Previous Residence 84S 12  
 1283 XBZON Zone For 2nd Hhld Group's Previous Residence 13  
 1284 XCZON Zone For 3rd Hhld Group's Previous Residence 13  
 1285 XDZON Zone For 4th Hhld Group's Previous Residence 13

Standard Codes For All Variables Are:  
 001-200 Zone Numbers 001 to 200  
 998 Not Reported  
 999 Not Applicable

1286 CHHEAD 73N-77N Reference Person's Residence on 4/1/70 80N 81S  
 80N 73N-77N 80N 32 9  
 74S-81S 74S-77S 78S-81S

0 1 Outside U.S.  
 9 9 Inside U.S., URE, Vacant, or Non-Interview  
 99 99 Non-Interview or Not In Sample  
 Note: Change of date in 77N-80N to 4/1/75 and in 81S to 4/1/80.  
 Note also that although the questionnaires show 0 for outside U.S. in 80N, these cases are coded 1 in the data files.

1287 CINLIM 73N-77N Reference Person Lived In City/Town Limits 4/1/70 83N 83S  
 80N-83N 1 Yes 23 21  
 74S-83S 2 No  
 8 Not Answered  
 9 Not Applicable

Note: Change of date in 77N-83N to 4/1/75 and in 81S-83S to 4/1/80. Note also that the concept changed in 1981N, 1983N, 1982S-1983S--the question then refers to the previous residence and is asked of recent movers only.

Notes: G = Variable is computer generated, and is not present on the questionnaire.  
 ++ = Variable is present on a supplemental page to the questionnaire.  
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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1288	XLOT	73N-83N 74S-83S	Previous House On Lot Of 10 Acres Or More (Owner) 1 Yes 2 No 9 Not Applicable Note: Applies to both owner and renter on 73N,74S.	<u>83N</u> 28	<u>83S</u> 26
1289	XLOTR	74N-83N 75S-83S	Previous House On Place Of 10 Acres Or More (Renter) 1 Yes 2 No 9 Not Applicable	<u>83N</u> 28	<u>83S</u> 26
1290	CHUSAF	73N-77N 74S-81S	Reference Person in U.S. Armed Forces 4/1/70 1 Yes 2 No 9 Not Applicable Note: Change of date in 77N to 4/1/75 and in 81S to 4/1/80	<u>77N</u> 13	<u>81S</u> 9
1291	XATEN	85N-93N	1st Hhld Group's Tenure While At Prev Res		<u>84S</u> 12
1292	XBTEN	84S-93S	2nd Hhld Group's Tenure While At Prev Res		<u>85N</u> 12
1293	XCTEN		3rd Hhld Group's Tenure While At Prev Res		13 13
1294	XDTEN		4th Hhld Group's Tenure While At Prev Res Standard Codes For All Variables Are: 1 Owned Or Being Bought By Hhlder 2 Rented For Cash 3 Occupied Without Payment of Cash Rent 9 Not Applicable		13 13
1295	XACOND	85N-93N	1st Hhld Group's Prev Res Was Part of Condo/Coop		<u>84S</u> 12
1296	XBCOND	84S-93S	2nd Hhld Group's Prev Res Was Part of Condo/Coop		<u>85N</u> 12
1297	XCCOND		3rd Hhld Group's Prev Res Was Part of Condo/Coop		13 13
1298	XDCOND		4th Hhld Group's Prev Res Was Part of Condo/Coop Standard Codes For All Variables Are: 1 Yes, Cooperative 2 Yes, Condominium 3 No, Not Part of Condo/Coop 8 Not Answered 9 Not Applicable		13 13
1299	XTENURE	73N-83N 74S-83S	Tenure While At Previous Residence 73N 74N-81N 83N <u>74S</u> <u>75S-83S</u> 1 1 Owned Or Being Bought 2 2 Own Cooperative Or Condominium 3 3 Own Cooperative 4 4 Own Condominium 5 5 Rented For Cash 6 6 No Cash Rent 7 7 Not Applicable	<u>83N</u> 27	<u>83S</u> 25
1300	ZXTEN	73N-83N 74S-83S	Recoded Specified Owner Of Previous Residence 73N 74N-81N 83N <u>74S</u> <u>75S-83S</u> 1 1 Specified Owner 2 2 Specified Renter 3 3 Other Owner Occupied 4 4 Other Occupied 5 5 Not Applicable	<u>83N</u> G	<u>83S</u> G
1301	XAUNIT	85N-93N	1st Hhld Group's Previous Residence Type		<u>84S</u> 12
1302	XBUNIT	84S-93S	2nd Hhld Group's Previous Residence Type		<u>85N</u> 12
1303	XCUNIT		3rd Hhld Group's Previous Residence Type		13 13
1304	XDUNIT		4th Hhld Group's Previous Residence Type Standard Codes For All Variables Are: 1 House 2 Apartment 3 Mobile Home 4 Other Type Of Residence 9 Not Applicable		13 13

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE																																																	
1305	XNUNITS	73N-83N 74S-83S	Number Of Living Quarters In Previous Residence 1 Mobile Home Or Trailer 2 One Unit, Detached 3 One Unit, Attached 4 2 5 3 Or 4 6 5 To 9 7 10 To 19 8 20 To 49 9 50 Or More 98 Not Answered 99 Not Applicable	83N 27	83S 25																																																
<p>Note: In 1983N and 1983S, The Question Is Asked Of All Recent Movers. In All Other Years, The Question Is Applicable Only If The Respondent Is The Reference Person (XHEAD = 1).</p>																																																					
1306	XAPER	85N-93N	How Many People Lived In 1st Hhld Group Before Move	84S 12	85N 12																																																
1307	XBPER	84S-93S	How Many People Lived In 2nd Hhld Group Before Move	13	13																																																
1308	XCPER		How Many People Lived In 3rd Hhld Group Before Move	13	13																																																
1309	XDPER		How Many People Lived In 4th Hhld Group Before Move	13	13																																																
<p>Standard Codes For All Variables Are: 1-96 1 to 96 Persons 98 Not Answered 99 Not Applicable</p>																																																					
1310	XPER	73N-83N 74S-83S	No. Of Persons In Reference Person's Prev. Residence 74N-77N 73N 80N 81N 74S-83S 78N-79N 83N	83N 27	83S 25																																																
<table border="0"> <tr> <td>1-11</td> <td></td> <td></td> <td></td> <td></td> <td>1-11 Persons</td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td>12 or More Persons</td> </tr> <tr> <td></td> <td>1-38</td> <td>1-38</td> <td>1-38</td> <td></td> <td>1-38 Persons</td> </tr> <tr> <td></td> <td>39</td> <td></td> <td></td> <td></td> <td>39 or More Persons</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>1-72</td> <td>1-72 Persons</td> </tr> <tr> <td></td> <td></td> <td>39</td> <td>39</td> <td></td> <td>Not Answered</td> </tr> <tr> <td>98</td> <td>98</td> <td>98</td> <td></td> <td>98</td> <td>Not Answered</td> </tr> <tr> <td>99</td> <td>99</td> <td>99</td> <td>99</td> <td>99</td> <td>Not Applicable</td> </tr> </table> <p>Note: In 1983N and 1983S, The Question Is Asked Of All Recent Movers. In All Other Years, The Question Is Applicable Only If The Respondent Is The Reference Person (XHEAD = 1).</p>						1-11					1-11 Persons	12					12 or More Persons		1-38	1-38	1-38		1-38 Persons		39				39 or More Persons					1-72	1-72 Persons			39	39		Not Answered	98	98	98		98	Not Answered	99	99	99	99	99	Not Applicable
1-11					1-11 Persons																																																
12					12 or More Persons																																																
	1-38	1-38	1-38		1-38 Persons																																																
	39				39 or More Persons																																																
				1-72	1-72 Persons																																																
		39	39		Not Answered																																																
98	98	98		98	Not Answered																																																
99	99	99	99	99	Not Applicable																																																
1311	XCOMDOC	73N-83N 74S-83S	Commercial, Doctor, Or Dentist Establishment At Previous Residence 1 Yes 2 No 9 Not Applicable	83N 28	83S 26																																																
1312	XPLUMB	73N-83N 74S-83S	Complete Plumbing In Previous Residence 1 Yes, Sole Use 2 Yes, Shared 3 No 8 Not Answered 9 Not Applicable	83N 27	83S 25																																																
<p>Note: In 1983N and 1983S, The Question Is Asked Of All Recent Movers. In All Other Years, The Question Is Applicable Only If The Respondent Is The Reference Person (XHEAD = 1).</p>																																																					

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1313	XROOMS	73N-83N 74S-83S	Number Of Rooms In Reference Person's Prev. Residence 74N-77N 73N 78N-81N 83N <u>74S-83S</u> 1-11 1 to 11 Rooms 1-85 1 to 85 Rooms 12 12 or More Rooms 98 98 Not Answered 99 99 Not Applicable Note: In 1983N and 1983S, The Question Is Asked Of All Recent Movers. In All Other Years, The Question Is Applicable Only If The Respondent Is The Reference Person (XHEAD = 1).	<u>83N</u> 27	<u>83S</u> 25
1314	XBDRMS	73N-83N 74S-83S	No. Of Bedrooms In Reference Person's Prev. Residence 0-80 0-80 Bedrooms 98 Not Answered 99 Not Applicable Note: In 1983N and 1983S, The Question Is Asked Of All Recent Movers. In All Other Years, The Question Is Applicable Only If The Respondent Is The Reference Person (XHEAD = 1).	<u>83N</u> 27	<u>83S</u> 25
1315	ZXCROWD	73N-83N 74S-83S	Recoded Persons Per Room-Previous Residence 001-996 1 To 9.96 Persons 997 9.97 Or More 998 Not Reported--Unclear 999 Not Applicable Note: In 1983N and 1983S, The Question Is Asked Of All Recent Movers. In All Other Years, The Question Is Applicable Only If The Respondent Is The Reference Person (XHEAD = 1).	<u>83N</u> G	<u>83S</u> G
1316	XACOST	85N-93N	1st Hhld Group's Housing Costs Changed By Move		<u>84S</u> 12
1317	XBCOST	84S-93S	2nd Hhld Group's Housing Costs Changed By Move		<u>85N</u> 12
1318	XCCOST		3rd Hhld Group's Housing Costs Changed By Move		13 13
1319	XDCOST		4th Hhld Group's Housing Costs Changed By Move Standard Codes For All Variables Are: 1 Increased 2 Stayed About Same 3 Decreased 4 Don't Know 8 Not Answered 9 Not Answered		13 13

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1320	XVALUE	73N-83N 74S-83S	Previous Property Sale Value 73N-74N 75N-76N 77N 78N 79N-81N 83N 74S-75S 76S-77S 78S 79S 80S-83S	<u>83N</u> 28	<u>83S</u> 26
			1 Under \$2,500		
			2 \$2,500-\$4,999		
			3 Under \$5,000		
			4 \$5,000-\$7,499		
			5 \$7,500-\$9,999		
			6 \$10,000-\$12,499		
			7 \$12,500-\$14,999		
			8 \$15,000-\$17,499		
			9 \$17,500-\$19,999		
			10 \$20,000-\$22,499		
			11 \$22,500-\$24,999		
			12 \$20,000-\$24,999		
			13 \$25,000-\$27,499		
			14 \$27,500-\$29,999		
			15 \$25,000-\$29,999		
			16 \$30,000-\$34,999		
			17 \$35,000-\$39,999		
			18 \$40,000-\$44,999		
			19 \$45,000-\$49,999		
			20 \$40,000-\$49,999		
			21 \$50,000-\$54,999		
			22 \$55,000-\$59,999		
			23 \$50,000-\$59,999		
			24 \$60,000 Or More		
			25 \$60,000-\$64,999		
			26 \$65,000-\$69,999		
			27 \$70,000-\$74,999		
			28 \$60,000-\$74,999		
			29 \$75,000 Or More		
			30 \$75,000-\$79,999		
			31 \$80,000-\$89,999		
			32 \$90,000-\$99,999		
			33 \$75,000-\$99,999		
			34 \$100,000-\$124,999		
			35 \$125,000-\$149,999		
			36 \$150,000 Or More		
			37 \$150,000-\$199,999		
			38 \$200,000-\$249,999		
			39 \$250,000-\$299,999		
			40 \$300,000 Or More		
			98 Not Answered		
			99 Not Applicable		
1321	XRENT	73N-83N 74S-83S	Monthly Rent For Previous Residence 73N-74N 75N-81N 83N 74S 75S-83S	<u>83N</u> 28	<u>83S</u> 26
			0 No Cash Or Rent		
			1-1998 \$1-\$1998		
			1999 \$1999 Or More		
			1-9997 \$1-\$9997		
			9998 9998 Not Answered		
			9999 9999 Not Applicable		
1322	ZXRENT	73N-83N 74S-83S	Recoded Gross Rent For Previous Residence 0 No Cash Rent 1-2729 \$1-\$2729 2730 \$2730 Or More 9998 Not Answered 9999 Not Applicable	<u>83N</u> G	<u>83S</u> G

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>83N</u>	<u>83S</u>
1323	XPAYE	73N-83N	At Previous Residence Household Paid Electricity	29	27
1324	XPAYG	74S-83S	At Previous Residence Household Paid Gas	29	27
1325	XPAYD		At Previous Residence Household Paid Oil, Coal, Etc.	29	27
			1 Yes		
			2 No, Included In Rent		
			3 No, Not Used Or Free		
			8 Not Answered		
			9 Not Applicable		
				<u>83N</u>	<u>83S</u>
1326	XPROJ	73N-83N	Previous Residence In Publicly Owned Housing	29	27
1327	XSUB	74S-83S	Government Subsidy At Previous Residence	29	27
1328	XPAYW		At Previous Residence Household Paid Water	29	27
1329	XPAYT		At Previous Residence Household Paid Garbage Collection	29	27
1330	XIFF		Previous Residence Rented Furnished	29	27
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
				<u>77N</u>	<u>81S</u>
1331	XPAYF	73N-77N	Previous Residence Furniture Included In Rent	29	29
1332	XIFP	74S-81S	Previous Residence Parking Available With Building	30	29
1333	XINCP		Previous Residence Parking Space Included In Rent	30	29
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
				<u>77N</u>	<u>78S</u>
1334	XOTHF	73N-77N	Previous Residence Furniture Rented From Non-Landlord	29	29
1335	XFARP	74S-78S	At Prev. Res. Parking in Neighbrhd Not Connected W/Bldg.	30	30
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
				<u>77N</u>	<u>81S</u>
1336	XPAYP	73N-77N	At Previous Residence Household Rented A Parking Space	30	29
		74S-81S	73N-77N 79S-81S		
			<u>74S-78S</u>		
			1 Yes		
			2 No, Or Available With Charge		
			8 Not Answered		
			9 Not Applicable		
				<u>77N</u>	<u>81S</u>
1337	ZXPARK	73N-77N	Recorded Parking Facilities Previous Unit (Rec Mov Only)	G	G
		74S-81S	74S 73N-77N		
			<u>75S-81S</u>		
			1 Parking Cost in Rent		
			2 Parking Paid Separately		
			3 Parking Payment Method Not Reported		
			4 Space Not Rented		
			5 Rent Not Reported		
			6 Space Rented Elsewhere		
			7 Space Not Rented Elsewhere		
			8 Whether Space Rented Elsewhere Not Reported		
			9 Parking Availability Not Reported		
			10 Rent No Cash Rent		
			11 Diff. Head in Previous and Present Unit		
			27 Undocumented Code		
			99 Not Applicable		
				<u>83N</u>	<u>83S</u>
1338	XCOSTE	73N-83N	At Previous Residence Monthly Cost Of Electricity	29	27
1339	XCOSTG	74S-83S	At Previous Residence Monthly Cost Of Gas	29	27
1340	XCOSTT		At Previous Residence Annual Cost Of Garbage Collection	29	27
			1-997 \$1-\$997		
			998 Not Answered		
			999 Not Applicable		
				<u>77N</u>	<u>78S</u>
1341	XCOSTF	73N-77N	Previous Residence Monthly Rent on Furniture	29	29
1342	XCOSTP	74S-78S	Previous Residence Monthly Cost of Parking Space	30	30
			1-997 \$1-\$997		
			998 Not Answered		
			999 Not Applicable		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1343	XCOSTO	73N-83N	At Previous Residence Annual Cost Of Oil, Coal, Etc.	<u>83N</u> 29	<u>83S</u> 27
1344	XCOSTW	74S-83S	At Previous Residence Annual Cost Of Water	29	27
			73N-74N 75N-81N		
			83N		
			74S 75S-83S		
			1-1998 \$1-\$1998		
			1-9996 \$1-\$9996		
			1999 \$1999 Or More		
			9997 \$9997 Or More		
			9998 Not Answered		
			9999 Not Applicable		
1345	XIFU	80N-81N	Did Reference Person Have A Job, Previous Residence	<u>81N</u> 46	<u>82S</u> 46
		82S	1 Yes		
			2 No		
			9 Not Applicable		
1346	XWORK	80N-81N	Prev Resid Workplace Of Ref Person Same As Now	<u>81N</u> 46	<u>82S</u> 46
		82S	1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1347	XTRANU	80N-81N	Ref Person's Principal Means of Transp To Wrk, Prev Res	<u>81N</u> 46	<u>82S</u> 46
		82S	1 Drives Alone		
			2 Carpool		
			3 Bus Or Streetcar		
			4 Subway or Elevated		
			5 Railroad		
			6 Taxicab		
			7 Motorcycle or Moped		
			8 Bicycle		
			9 Other Type of Vehicle		
			10 Walked Only		
			11 Worked At Home		
			98 Not Answered		
			99 Not Applicable		
			Note: Variable May Be In Error In Early Versions Of 1981N Files.		
1348	XVEHCL	80N-81N	Was Car Or Truck Driven To Work From Prev Res	<u>81N</u> 46	<u>82S</u> 46
		82S	1 Car		
			2 Truck		
			3 Van		
			8 Not Answered		
			9 Not Applicable		
1349	XHJOB	80N-81N	Usually Reported To Same Loc. Each Day From Prev Res	<u>81N</u> 46	<u>82S</u> 46
		82S	1 Yes		
			2 No		
			9 Not Applicable		
1350	XTIMEU	80N-81N	Time Usually Took Ref Person From Prev Res to Work	<u>81N</u> 46	<u>82S</u> 46
		82S	1-997 1-997 Minutes		
			998 Not Answered		
			999 Not Applicable		
1351	XDISTU	80N-81N	Distance From Prev Res To Work	<u>81N</u> 46	<u>82S</u> 46
		82S	0 Less Than A Mile		
			1-997 1-997 Miles		
			998 Not Answered		
			999 Not Applicable		

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REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S	84S	85N
				24	22	10	10
1352	WHYMOVE	73N-93N 74S-93S	Primary Reason Ref. Person Moved From Prev. Res. 73N 74N-78N 79N-83N 85N-93N <u>74S 75S-79S 80S-83S 84S-93S</u>				
			00 All Reasons Important				
			23 25 32 01 Displaced By Private Action				
			22 24 31 02 Displaced By Government				
			27 29 34 03 Disaster Loss (i.e. Fire)				
			04 New Job or Job Transfer				
		01 01 01	Job Transfer				
			02 Look For Work				
		04 74 03	New Job				
		02 02 04	Entered/Left Armed Forces				
		03 03 05	Retirement				
		05 05 06	05 Commuting Reasons				
		06 06 07	Attend School				
		07 07 08	06 Other Fin/Emp1 Reasons				
		16 16 16	07 Establish Own Household				
		08 08 09	08 Needed Larger Unit				
			09 Change In Marital Status				
		10 10	Separated				
		11 11	Divorced				
			10 Divorced or Separated				
		09 09 11	Widowed				
		12 12 12	Closer to Relatives				
		13 13 13	Newly Married				
		14 14 14	Family Size Increased				
		15 15 15	Family Size Decreased				
		17 17 17	10 Other Family/Personal Reasons				
		18 18 18	Neighborhood Overcrowded				
			19 Racial/Ethnic Composition				
			20 Crime				
			21 Wanted Nbrhd With Children				
			22 Wanted Nbrhd Without Children				
		20 23	Wanted Better Neighborhood				
			11 Wanted Better Quality DU				
			24 Wanted More Expensive Place or Better Investment				
		26 28 28	Wanted More Conveniences				
			12 Change to Owner/Non-owner				
		19 21 25	Wanted To Own				
		25 27 27	Wanted To Rent				
		20 22 29	13 Wanted Lower Rent or Less Expensive House				
			14 Other Housing Related Reasons				
		28 30 30	Wanted Change In Climate				
		24 26 33	Schools				
		29 31 35	15 Other Reasons				
		98 98 98	98 Not Answered				
		99 99 99	99 Not Applicable				

REF#	NAME	SURVEYS	DESCRIPTION	84S	85N
1353	WMPRIV	85N-93N	Move Due To Private Co/Person's Actions	10	10
1354	WMGOVT	84S-93S	Move Due To Govt Forcing To Leave	10	10
1355	WMDISL		Move Due To Disaster Loss (i.e. Fire, Flood)	10	10
1356	WMJOBS		Move Due To New Job or Job Transfer	10	10
1357	WMCLOS		Move Due To Wish To Be Closer To Work/School/Other	10	10
1358	WMFEMP		Move Due To Other Financial/Employment Reasons	10	10
1359	WMONHH		Move Due To Establishment of Own Hhld	10	10
1360	WMLARG		Move Due To Need For Larger House/Apartment	10	10
1361	WMMARR		Move Due To Change In Marital Status	10	10
1362	WMFAML		Move Due To Other Personal/Family Reasons	10	10
1363	WMQUAL		Move Due To Desire For Better Quality DU	10	10
1364	WMCHTN		Move Due To Change In Tenure	10	10
1365	WMCHEP		Move Due To Desire For Less Expensive Rent/Home	10	10
1366	WMHOUS		Move Due To Other Housing Related Reasons	10	10
1367	WMOTHR		Move Due To Other Reasons	10	10

Standard Codes For All Variables Are:  
 0 Reason Was Not Factor In Move  
 1 Reason Was Factor In Move  
 8 Not Answered  
 9 Not Applicable

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

Reasons For Moving From Previous Residence

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S
1368	WMO1JT	79N-83N	1 Reason Moved-Job Transfer	24	22
1369	WMO2LW	80S-83S	2 Reason Moved-Look For Work	24	22
1370	WMO3NU		3 Reason Moved-Take A New Job	24	22
1371	WMO4AF		4 Reason Moved-Enter/Leave U.S. Armed Forces	24	22
1372	WMO5RT		5 Reason Moved-Retirement	24	22
1373	WMO6CT		6 Reason Moved-Commuting	24	22
1374	WMO7AS		7 Reason Moved-To Attend School	24	22
1375	WMO8OE		8 Reason Moved-Other Employment-Related	24	22

The Codes Unique To Each Variable Are Shown Above;  
Standard Codes For All Variables Are:

- 0 Respondent Did Not Cite This Reason For Moving
- 9 Not Answered Or Not Applicable

Note: To Distinguish Between Not Answered And Not Applicable Use Variable WM350T.

1376	WMO9LH	79N-83N 80S-83S	Reason Moved-Larger House/Apartment 79N-81N 80S-83S 83N	24	22
------	--------	--------------------	---	----	----

- 0 Respondent Did Not Cite This Reason for Moving
- 9 Respondent Cited This Reason, Not Answered or Not Applicable
- 9 Respondent Cited This Reason
- 99 Not Answered Or Not Applicable

Note: In 1979N-1981N and 1983N, To Distinguish Between Cited This Answer, Not Answered and Not Applicable, Use WM350T. If WM350T = 00 or 35, Then 9 in WMO9LH Means "Cited This Reason".

Reasons for Moving From Previous Residence, Cont.

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S
1377	WM10DS	79N-83N	10 Reason Moved-Divorced/Separated	24	22
1378	WM11WD	80S-83S	11 Reason Moved-Widowed	24	22
1379	WM12CR		12 Reason Moved-Closer To Relatives	24	22
1380	WM13NM		13 Reason Moved-Newly Married	24	22
1381	WM14FI		14 Reason Moved-Family Increased	24	22
1382	WM15FD		15 Reason Moved-Family Decreased	24	22
1383	WM16EH		16 Reason Moved-To Establish Own Household	24	22
1384	WM17FR		17 Reason Moved-Other Family Related	24	22
1385	WM18OC		18 Reason Moved-Neighborhood Overcrowded	24	22
1386	WM19RC		19 Reason Moved-Racial/Ethnic Shift	24	22
1387	WM20CM		20 Reason Moved-Crime	24	22
1388	WM21WC		21 Reason Moved-Neighborhood With Children	24	22
1389	WM22NC		22 Reason Moved-Neighborhood Without Children	24	22
1390	WM23BN		23 Reason Moved-Better Neighborhood	24	22
1391	WM24BI		24 Reason Moved-More Expensive Place/Better Investment	24	22
1392	WM25OR		25 Reason Moved-To Own Unit	24	22
1393	WM26BH		26 Reason Moved-Better Home	24	22
1394	WM27RR		27 Reason Moved-To Rent Unit	24	22
1395	WM28MC		28 Reason Moved-Unit With More Conveniences	24	22
1396	WM29LE		29 Reason Moved-Lower Rent/Less Expensive House	24	22
1397	WM30CC		30 Reason Moved-Change Of Climate	24	22
1398	WM31DP		31 Reason Moved-Displaced: UR, Hwy Const, Oth Pub	24	22
1399	WM32PA		32 Reason Moved-Displaced: Private Action	24	22
1400	WM33SC		33 Reason Moved-Schools	24	22
1401	WM34ND		34 Reason Moved-Natural Disaster	24	22

The Codes Unique To Each Variable Are Shown Above;  
Standard Codes For All Variables Are:

- 00 Respondent Did Not Cite This Reason For Moving
- 99 Not Answered Or Not Applicable

Note: To Distinguish Between Not Answered And Not Applicable Use Variable WM350T.

1402	WM350T	79N-83N 80S-83S	Reason Moved-Other Reasons 00 Respondent Did Not Cite Another Reason For Moving 35 Respondent Cited Another Reason For Moving 98 Not Answered 99 Not Applicable	24	22
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Notes: G = Variable is computer generated, and is not present on the questionnaire.  
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CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1403	WMOVNR	85N-93N	Moved Because Displaced By Owner's Family	84S	85N
1404	WMCNDO	84S-93S	Moved Because Unit Was Becoming Condo/Coop	10	10
1405	WMREPR		Moved Because Unit Was Closed For Repairs	10	10
Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Non-Interview, Not A Recent Mover, Or Not Displaced Due To Private Action					
Reasons for Being Displaced by Private Action					
1406	WMO1CN	79N-83N	1 Displaced-Owner Converting To Condominium	83N	83S
1407	WMO2RH	82S-83S	2 Displaced-Owner Closed Building For Rehabilitation	25	23
1408	WMO3NR		3 Displaced-Owner Gave No Reason	25	23
1409	WMO4SL		4 Displaced-Owner Sold Building	25	23
1410	WMO5CI		5 Displaced-Rents Were Raised	25	23
1411	WMO6NH		6 Displaced-Converted To Non-Residential Use	25	23
99 Not Applicable The Codes Unique To Each Variable Are Shown Above; Standard Codes For All Variables Are: 0 Respondent Did Not Cite This Reason For Moving 9 Not Answered Or Not Applicable Note: In 1979N-1981N, To Distinguish Between Not Answered And Not Applicable Use WMO7PA. In 1983N and 1982S-1983S Use the Variable WHYMOVE.					
1412	WMO7LL	83N	Displaced-Owner Needed Unit For Own Family	83N	83S
		82S-83S	83N 82S-83S	25	23
0 Respondent Did Not Cite This Response 8 7 Respondent Cited This Answer 9 9 Not Answered or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use Variable WHYMOVE; if WHYMOVE = 32, Then WMO7LL = 9 Means "Not Answered".					
1413	WMO7PA	79N-83N	Displaced-Other Reason	83N	83S
		82S-83S	79N-81N 83N 82S-83S	25	23
0 0 0 Respondent Did Not Cite Other Reason For Moving 7 7 8 Respondent Cited Other Reason For Moving 8 Not Answered 9 Not Applicable 9 9 Not Answered or Not Applicable Note: In 83N and 82S-83S, To Distinguish Between Not Answered and Not Applicable, Use the Variable WHYMOVE; If WHYMOVE = 32, Then WMO7PA = 9 Means "Not Answered".					
1414	WMOGOVP	85N-93N	Moved Because Govt Wanted Land/Bldg For Other Purpose	84S	85N
1415	WMNFIT	84S-93S	Moved Because DU Condemned By Govt As Unfit	10	10
Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Non-Interview, Not A Recent Mover, Or Not Forced To Leave By Government					
Reason For Moving To Less Expensive House/Lower Rent					
1416	WMO1IR	79N-83N	1 Income Reduced	83N	83S
1417	WMO2CI	82S-83S	2 Housing Costs Greatly Increased	25	23
The Codes Unique To Each Variable Are Shown Above; Standard Codes For Both Variables Are: 0 Respondent Did Not Cite This Reason For Moving 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable Use WMO3LE.					

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1418	WMO3LE	79N-83N 82S-83S	Other Reason(s) For Moving To Less Expensive House 0 Respondent Did Not Cite Another Reason For Moving 3 Respondent Cited Another Reason For Moving 8 Not Answered 9 Not Applicable	<u>83N</u> 25	<u>83S</u> 23
1419	LOOKNS	85N-93N 84S-93S	Hhld Considered Other Neighborhoods Prior To Move 1 Yes 2 No 8 Not Answered 9 Non-Interview or Not A Recent Mover	<u>84S</u> 11	<u>85N</u> 11
1420	WNJOB	85N-93N	Neighborhood Chosen Because Convenient To Job	<u>84S</u> 11	<u>85N</u> 11
1421	WNPEPL	84S-93S	Neighborhood Chosen Because Near Friends/Relatives	11	11
1422	WNFJN		Neighborhood Chosen Because Near Leisure Activities	11	11
1423	WNTRAN		Neighborhood Chosen Because Near Public Trans	11	11
1424	WNSCH		Neighborhood Chosen Because Has Good Schools	11	11
1425	WNSRV		Neighborhood Chosen Because Of Good Public Services	11	11
1426	WNLOOK		Neighborhood Chosen Because Of Looks/Design	11	11
1427	WNHOME		House Was Most Important Consideration	11	11
1428	WNOTHR		Neighborhood Chosen For Other Reason(s) Standard Codes For All Variables Are: 1 Yes 0 No 8 Not Answered 9 Non-Interview or Not A Recent Mover	11	11
1429	WHYTON	85N-93N 84S-93S	Main Reason For Choosing This Neighborhood 0 All Reasons Of Equal Importance 1 Convenient To Job 2 Convenient To Friends/Relatives 3 Convenient To Leisure Activities 4 Convenient To Public Transport 5 Good Schools 6 Other Public Services 7 Looks/Design of Neighborhood 8 House Was Most Important 9 Other 98 Not Answered 99 Not Applicable	<u>84S</u> 11	<u>85N</u> 11
1430	XNRATE	85N-93N 84S-93S	Comparison of New and Old Neighborhood 1 Better 2 Worse 3 About the Same 4 Same Neighborhood 8 Not Answered 9 Not Applicable	<u>84S</u> 11	<u>85N</u> 11
1431	LOOKHS	85N-93N 84S-93S	Before Move, Looked At Houses And Apartments 1 Yes 2 No 3 Only Looked At This Unit 8 Not Answered 9 Non-Interview or Not A Recent Mover	<u>84S</u> 11	<u>85N</u> 11

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1432	WHFIN	85N-93N	House Chosen For Financial Reasons	<u>84S</u>	<u>85N</u>
1433	WHDSN	84S-93S	House Chosen For Room Layout/Design	11	11
1434	WHKIT		House Chosen For Kitchen	11	11
1435	WHSIZ		House Chosen For Size	11	11
1436	WHEXT		House Chosen For Exterior Appearance	11	11
1437	WHYRD		House Chosen For Yard	11	11
1438	WHQUL		House Chosen For Quality of Construction	11	11
1439	WHOTH		House Chosen For Other Reasons	11	11
Standard Codes For All Variables Are:					
1 Yes					
0 No					
8 Not Answered					
9 Non-Interview or Not A Recent Mover					
1440	WHAVL	85N-93N 85S-93S	House Chosen Because Only One Available	<u>85S</u>	<u>85N</u>
1 Yes					
0 No					
8 Not Answered					
9 Non-Interview or Not A Recent Mover					
1441	WHYTOH	85N-93N 84S-93S	Main Reason For Choice of House/Apartment	<u>84S</u>	<u>85N</u>
0 All Reasons Of Equal Importance					
1 Financial Reasons					
2 Room Layout/Design					
3 Kitchen					
4 Size					
5 Exterior Appearance					
6 Yards/Trees/View					
7 Quality Of Construction					
8 Only One Available					
9 Other					
98 Not Answered					
99 Non-Interview or Not A Recent Mover					
1442	XHRATE	85N-93N 84S-93S	Comparison of New and Old House/Apartment	<u>84S</u>	<u>85N</u>
1 Better					
2 Worse					
3 About the Same					
8 Not Answered					
9 Not Applicable					
1443	WHYTO	79N-83N 82S-83S	Main Reason for Moving To This Res. or Neighborhood	<u>83N</u>	<u>83S</u>
01 Job Transfer					
02 To Look For Work					
03 To Take A New Job					
04 Enter U.S. Armed Forces					
05 Retirement					
06 Commuting Reasons					
07 To Attend School					
08 Other Employment Reasons					
09 Needed Larger House Or Apartment					
10 To Be Closer To Relatives					
11 Other Family Reasons					
12 Neighborhood Less Crowded					
13 Racial Or Ethnic Composition Of Neighborhood					
14 Low Crime Rate					
15 Wanted Neighborhood With Children					
16 Wanted Neighborhood Without Children					
17 Wanted Better Neighborhood					
18 Wanted More Expensive Place Or Better Investment					
19 Residence With More Conveniences					
20 Lower Rent Or Less Expensive House					
21 Change of Climate					
22 Schools					
23 Other					
98 Not Answered					
99 Not Applicable					

Reasons For Moving to Current Residence or Neighborhood

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S
1444	WTO1JT	79N-83N	1 Reason Moved Here-Job Transfer	26	24
1445	WTO2LW	82S-83S	2 Reason Moved Here-Look For Work	26	24
1446	WTO3NJ		3 Reason Moved Here-Take A New Job	26	24
1447	WTO4AF		4 Reason Moved Here-Enter/Leave U.S. Armed Forces	26	24
1448	WTO5RT		5 Reason Moved Here-Retirement	26	24
1449	WTO6CT		6 Reason Moved Here-Commuting	26	24
1450	WTO7AS		7 Reason Moved Here-To Attend School	26	24
1451	WTO8OE		8 Reason Moved Here-Other Employment Related	26	24

The Codes Unique To Each Variable Are Shown Above;  
Standard Codes For All Variables Are:

- 0 Respondent Did Not Cite This Reason For Moving
- 9 Not Answered Or Not Applicable

Note: To Distinguish Between Not Answered And Not Applicable Use Variable WT230T.

1452	WTO9LH	79N-83N 82S-83S	Reason Moved Here-Larger Unit	26	24
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- 0 Respondent Did Not Cite This Reason For Moving
- 9 Respondent Cited This Reason For Moving, Not Answered Or Not Applicable

Note: To Distinguish Between Cited This Reason, Not Answered And Not Applicable, Use Variable WT230T; If WT230T = 00 or 23 Then 9 In WTO9LH Means "Cited This Reason."

Reasons for Moving (continued)

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S
1453	WT1OCR	79N-83N	10 Reason Moved Here-Closer To Relatives	26	24
1454	WT11FR	82S-83S	11 Reason Moved Here-Other Family Reasons	26	24
1455	WT12LC		12 Reason Moved Here-Less Crowded Neighbhd	26	24
1456	WT13RC		13 Reason Moved Here-Racial/Ethnic Comp of Neighbhd	26	24
1457	WT14CM		14 Reason Moved Here-Low Crime Rate	26	24
1458	WT15WC		15 Reason Moved Here-Neighbhd With Children	26	24
1459	WT16NC		16 Reason Moved Here-Neighbhd Without Children	26	24
1460	WT17BN		17 Reason Moved Here-Better Neighborhood	26	24
1461	WT18BI		18 Reason Moved Here-Better Investment	26	24
1462	WT19MC		19 Reason Moved Here-Unit With More Conveniences	26	24
1463	WT20LE		20 Reason Moved Here-Low Rent/Less Expensive House	26	24
1464	WT21CC		21 Reason Moved Here-Change Of Climate	26	24
1465	WT22SC		22 Reason Moved Here-Schools	26	24

The Codes Unique To Each Variable Are Shown Above;  
Standard Codes For All Variables Are:

- 00 Respondent Did Not Cite This Reason For Moving
- 99 Not Answered Or Not Applicable

Note: To Distinguish Between Not Answered And Not Applicable Use Variable WT230T.

1466	WT230T	79N-83N 82S-83S	Reason Moved Here-Other Reasons	26	24
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- 00 Respondent Did Not Cite Another Reason For Moving
- 23 Respondent Cited Another Reason For Moving
- 98 Not Answered
- 99 Not Applicable

1467	XLINE1	85N	Line No. of First Mobility Respondent	44	44
1468	XLINE2	85S	Line No. of Second Mobility Respondent	45	45
1469	XLINE3		Line No. of Third Mobility Respondent	45	45
1470	XLINE4		Line No. of Fourth Mobility Respondent	45	45

Standard Codes For All Variables Are:

- 01-96 01 To 96
- 98 Not Answered
- 99 Not Applicable

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>85S</u>	<u>85N</u>
1471	STBRN1	85N	State In Which First Mobility Respondent Born	44	44
1472	STBRN2	85S	State In Which Second Mobility Respondent Born	45	45
1473	STBRN3		State In Which Third Mobility Respondent Born	45	45
1474	STBRN4		State In Which Fourth Mobility Respondent Born	45	45
			Standard Codes For All Variables Are:		
			0 Outside U.S.		
			1 Alabama		
			2 Alaska		
			3 American Samoa		
			4 Arizona		
			5 Arkansas		
			6 California		
			7 Canal Zone		
			8 Colorado		
			9 Connecticut		
			10 Delaware		
			11 District of Columbia		
			12 Florida		
			13 Georgia		
			14 Guam		
			15 Hawaii		
			16 Idaho		
			17 Illinois		
			18 Indiana		
			19 Iowa		
			20 Kansas		
			21 Kentucky		
			22 Louisiana		
			23 Maine		
			24 Maryland		
			25 Massachusetts		
			26 Michigan		
			27 Minnesota		
			28 Mississippi		
			29 Missouri		
			30 Montana		
			31 Nebraska		
			32 Nevada		
			33 New Hampshire		
			34 New Jersey		
			35 New Mexico		
			36 New York		
			37 North Carolina		
			38 North Dakota		
			39 Ohio		
			40 Oklahoma		
			41 Oregon		
			42 Pennsylvania		
			43 Puerto Rico		
			44 Rhode Island		
			45 South Carolina		
			46 South Dakota		
			47 Tennessee		
			48 Texas		
			49 Utah		
			50 Vermont		
			51 Virginia		
			52 Virgin Islands		
			53 Washington		
			54 West Virginia		
			55 Wisconsin		
			56 Wyoming		
			98 Not Answered Or Not Applicable		
			99 Suppressed		
				<u>80N</u>	
1475	STBORN	79N-80N	State In Which Reference Person Was Born	31	
1476	STPLACE		State In Which Reference Person Lived At Age 16	31	
1477	STIN5		Preferred State In 5 Years (Ref. Person)	31	
			(See Codes for STBRN1-4 Above)		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1478	HER161	85N	At Age 16, Did 1st Mob Resp Live In Same Area	85S	85N
1479	HER162	85S	At Age 16, Did 2nd Mob Resp Live In Same Area	44	44
1480	HER163		At Age 16, Did 3rd Mob Resp Live In Same Area	45	45
1481	HER164		At Age 16, Did 4th Mob Resp Live In Same Area	45	45
Standard Codes For All Variables Are:					
1 This Area					
2 Different Place					
8 Not Answered					
9 Not Applicable					
1482	HERE16	79N-80N	At Age 16, Did Ref Person Live In Same Or Diff Place (City/Suburb/Town/Rural Area)	80N	31
1 Same Place					
2 Different Place					
8 Not Answered					
9 Not Applicable					
Note: Question changed on 80N to: "At age 16, did reference person live in this area?"					
1483	ST161	85N	State In Which 1st Mobility Respondent Lived At 16	85S	85N
1484	ST162	85S	State In Which 2nd Mobility Respondent Lived At 16	44	44
1485	ST163		State In Which 3rd Mobility Respondent Lived At 16	45	45
1486	ST164		State In Which 4th Mobility Respondent Lived At 16	45	45
Standard Codes For All Variables Are:					
(See Codes for STBRN1-4 Above)					
1487	PLC161	85N	At Age 16, 1st Mobility Respondent Lived In	85S	85N
1488	PLC162	85S	At Age 16, 2nd Mobility Respondent Lived In	44	44
1489	PLC163		At Age 16, 3rd Mobility Respondent Lived In	45	45
1490	PLC164		At Age 16, 4th Mobility Respondent Lived In	45	45
Standard Codes For All Variables Are:					
1 A Large City					
2 A Suburb Near A Large City					
3 A Medium Sized City/Suburb					
4 A Small City					
5 A Town Or Village					
6 Open Country But Not A Farm					
7 A Farm					
8 Other					
98 Not Answered					
99 Not Applicable					
1491	PLAC16	79N-80N	At Age 16 Reference Person Lived In	80N	31
1 Suburb Near Large City					
2 Large City					
3 Medium City or Its Suburbs					
4 Small City					
5 Town Or Village					
6 Open Country, Not A Farm					
7 Farm					
8 Other					
98 Not Answered					
99 Not Applicable					
1492	HIN51	85N	1st Mobility Resp Wld Prefer This DU In 5 Yrs	85S	85N
1493	HIN52	85S	2nd Mobility Resp Wld Prefer This DU In 5 Yrs	44	44
1494	HIN53		3rd Mobility Resp Wld Prefer This DU In 5 Yrs	45	45
1495	HIN54		4th Mobility Resp Wld Prefer This DU In 5 Yrs	45	45
Standard Codes For All Variables Are:					
1 Same House/Apartment					
2 Somewhere Else					
9 Not Applicable					

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 ++ = 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	
1496	STAY51	85N	In 5 Yrs, 1st Mobility Respondent Will Stay In Unit	85S 44	85N 44
1497	STAY52	85S	In 5 Yrs, 2nd Mobility Respondent Will Stay In Unit	45	45
1498	STAY53		In 5 Yrs, 3rd Mobility Respondent Will Stay In Unit	45	45
1499	STAY54		In 5 Yrs, 4th Mobility Respondent Will Stay In Unit	45	45
Standard Codes For All Variables Are:					
1 Very Likely					
2 Likely					
3 Not Very Likely					
4 No Chance At All					
5 Don't Know					
8 Not Answered					
9 Not Applicable					
1500	WHRN51	85N	1st Mobility Resp Wld Prefer This Area In 5 Yrs	85S 44	85N 44
1501	WHRN52	85S	2nd Mobility Resp Wld Prefer This Area In 5 Yrs	45	45
1502	WHRN53		3rd Mobility Resp Wld Prefer This Area In 5 Yrs	45	45
1503	WHRN54		4th Mobility Resp Wld Prefer This Area In 5 Yrs	45	45
Standard Codes For All Variables Are:					
1 Another Home In This Area					
2 Outside The Area					
9 Not Applicable					
1504	WHRIN5	79N-80N	Prefer to Change Area in 5 Years (Ref. Person)	80N 31	
1 Same Area					
2 Some Place Else					
8 Not Answered					
9 Not Applicable					
1505	PLCN51	85N	In 5 Yrs, 1st Mobility Respondent Wld Prefer To Live In	85S 44	85N 44
1506	PLCN52	85S	In 5 Yrs, 2nd Mobility Respondent Wld Prefer To Live In	45	45
1507	PLCN53		In 5 Yrs, 3rd Mobility Respondent Wld Prefer To Live In	45	45
1508	PLCN54		In 5 Yrs, 4th Mobility Respondent Wld Prefer To Live In	45	45
Standard Codes For All Variables Are:					
1 A Large City					
2 A Suburb Near A Large City					
3 A Medium Sized City/Suburbs					
4 A Small City					
5 A Town Or Village					
6 Open Country But Not Farm					
7 A Farm					
8 Other					
98 Not Answered					
99 Not Applicable					
1509	PLCIN5	79N-80N	In 5 Years, Reference Person Would Prefer To Live In	80N 31	
1 Suburb Near Large City					
2 Large City					
3 Medium City Or Its Suburbs					
4 Small City					
5 Town Or Village					
6 Open Country, But Not A Farm					
7 Farm					
8 Other					
98 Not Answered					
99 Not Applicable					
1510	LKLN51	85N	Likelihood of Move To Place Above In 5 Yrs (1st Mob Resp)	85S 44	85N 44
1511	LKLN52	85S	Likelihood of Move To Place Above In 5 Yrs (2nd Mob Resp)	45	45
1512	LKLN53		Likelihood of Move To Place Above In 5 Yrs (3rd Mob Resp)	45	45
1513	LKLN54		Likelihood of Move To Place Above In 5 Yrs (4th Mob Resp)	45	45
Standard Codes For All Variables Are:					
1 Very Likely					
2 Likely					
3 Not Very Likely					
4 No Chance At All					
5 Don't Know					
8 Not Answered					
9 Not Applicable					
1514	LKLYN5	79N-80N	How Likely Is Move To Place Above Within 5 Yrs	80N 31	
1 Very Likely					
2 Likely					
3 Not Very Likely					
4 No Chance At All					
5 Don't Know					
8 Not Answered					
9 Not Applicable					

This section documents key variables used in sampling and interviewing in the survey. CONTROL contains the basic case identification number. WEIGHT is the adjusted weight assigned to each case in the sample and described in detail in Section 1.0 of Chapter 3. Other specialized weights and variables needed for calculation of the variance are presented following the variable WEIGHT and are discussed in Chapters 1 and 2. The remaining variables provide information on the status of the unit, on various aspects of the interview, on vacant units and non-interviews. These variables include the reasons for vacancy and non-interviews and some descriptions for units which have been temporarily or definitely removed from the housing stock. Some units in special places are not considered part of the housing stock, as described in the General--Tenure section. A few concepts related to weights, vacancy, merger and conversions are discussed below. Finally, this section deals with the treatment of non-interviews, missing data in the AHS, and the use of allocation variables.

Zero Weighted Units--Users should note that, in addition to non-interview units (see below for definition) which have a weight of zero, there are other cases which have data present on the tapes and have been assigned a weight of zero (see the variable WEIGHT in this section). These zero weighted units are:

Units in the neighborhood sample. Each cluster of neighborhoods should be weighted equally with other clusters, to calculate the percent of clusters having a particular trait.

Units accidentally interviewed which should not be in the sample. Use of data from these units would cause misrepresentation in the estimates.

Vacant and URE units which are tents, boats, or are located in transient hotels, which are not considered housing units.

(1983 and before) Vacant and URE mobile homes, which were not considered housing units then, but are now.

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.

For "year-round" units, vacancy status is categorized in groups such as:

Vacant for sale--Vacant year-round units "for sale" also include vacant units in a cooperative or condominium project if the individual units are offered for sale.

Vacant for rent--Vacant year-round units "for rent" in 1983 and before also included 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 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.

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.

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.

Conversion to More Units

Conversions to more units take place when one or more apartments or houses are subdivided to build more or smaller apartments. All units resulting from the conversion become part of the sample if they meet the housing unit definition and are not sample units in another Census Survey. (See Chapter 2 for a discussion of the changes in the 1985 sample design to insure that most units resulting from a conversion can be retained in the AHS sample.)

Types and Treatment of Missing Data

There are three sources of missing data in the Annual Housing Survey Data base: non-interviewed units, unanswered questions that did not apply to the unit, and unanswered questions that did apply to the unit.

Non-interviewed Units

Units which have missing data because no interview was conducted are identified by the variable ISTATUS. Interviews do not take place for a variety of reasons, e.g., the unit could not be located by the interviewer, the household could not be reached or refused the interview, or the unit did not qualify as an eligible housing unit. In addition, units which were not part of the original cohort are assigned missing data in the longitudinal file for years prior to their first interview.

There are three types of interviews:

Type A: The unit is occupied by persons eligible for the interview. An interview was attempted but could not be obtained (e.g., no one home, respondent refusal, sample unit cannot be reached because of impassable roads).

Type B: The unit is not eligible for an interview at present but could become eligible for an interview in the future (e.g., unit currently is for nonresidential use; unoccupied site for mobile home, unit under construction, unit severely damaged by fire). Note that vacant units and units occupied entirely by persons with URE are not considered non-interviews. Type B non-interviews will be revisited each survey year, and if they become housing units again, they will be interviewed.

Type C: The unit is not eligible for the sample, because it no longer exists or because of sampling reasons (e.g., unit demolished, disaster loss, house or mobile home moved, unused permit--abandoned). Type C non-interviews are not revisited in future years, and are dropped from the Census tape. They are however retained on Abt tapes as cases with ISTATUS=6 so that cumulative losses over time can be counted.

Non-interviewed units are assigned a weight of zero. Eligible units which were not interviewed are compensated for by an increase in the weights of other nearby units. Thus, the totals are accurate, but there is an implicit assumption that the non-responding units and responding units would have answered similarly. The non-responding units are few, about 5 percent, so the correction is small. The specific units involved change slightly each year, causing the weights of almost all other units to change slightly as well.

The shifts in weights especially affect longitudinal estimates. If a user is estimating 1974 housing units and what happened to them by 1979, he or she should use 1974 weights (and the categories of "what happened to them" must include "nonresponse in 1979" and "unit demolished or otherwise destroyed by 1979"). If a user is using 1979 units and where they came from, 1979 weights should be used (the categories of "where they came from" must include "non-

response in 1974" and "unit built or otherwise added since 1974"). If a user is trying to count particular types of change, such as condominium conversion (rental in 1974 to condominium ownership in 1979), he or she will always have an underestimate since some units are not identifiable as conversions at the end of each time period. Estimates may be adjusted based on the combined non-response rate in the 2 years.

Data items for non-interviewed units and units not yet in the sample are considered "not applicable", and in the data files all fields have been filled with 9s. Users should note that in Abt files, the assignment of 9s to all fields causes some variation in the value codes for "not applicable". This results when a variable's field length changed over the years. In this case, field length has been standardized to the largest field length, and then non-interviewed cases were filled with 9s. This results in the presence of not applicable codes which have different values in the same year--for example, "9" and "999".

To illustrate this fact, we shall discuss the treatment of the variable DISTJ, the one way distance from home to work of reference person, on the National file. This variable changed from a one column variable to a three column variable in 1978. On the AHS Data Project files the standardized format for DISTJ is therefore a 3 column field. From 1974 through 1976, the original Census tapes contained only interview records, and the code "9" was used for interviewed units to which the question was not applicable such as vacant units or units where the head did not work. When the non-interview records for 74-76 were added by the AHS Data Project staff and the missing fields filled with 9's, this resulted in a code "999" for non-interview records. Starting with 1977, the non-interview records were contained in the original Census Tapes. A code "9" in 1977 was therefore present both for interviewed units to which the question was not applicable and for non-interview records. Starting in 1978, DISTJ was a 3-column field on the Census tapes and the code "999" was present both for interview records to which the question was not applicable and for non-interview records. In addition, in the National Master File (longitudinal file), Abt inserted dummy variables for units not yet in the sample or dropped from the sample, and used code "999" for these records in all years.

Questions Which Are Not Applicable

Some questions are not applicable to every respondent or housing unit. For instance, owner-occupants are not asked questions about rent, and questions concerning condominium fees are asked only if the unit is a condominium. Therefore, most variables have a code (usually "9") defined as "not applicable" ("out of universe" in Census documentation) to indicate that the question was intentionally not asked because it did not apply to the unit.

Unanswered Questions

The third source of missing data is non-response or inconsistent response to particular questions asked during the interview. If two answers conflict (for example date moved in is before date built), then one of the questions is changed. It may be assigned a specific consistent value, or treated as if it were not answered. For some variables, the data base includes a code for "not answered" (usually "8", "98"). For other variables, however, the Census Bureau uses a "hot deck imputation" to assign, or allocate, responses to unanswered questions.

Data for unanswered survey questions are allocated by copying data from the last case processed with similar characteristics. This procedure explicitly assumes that non-responding and responding units would have answered similarly. The allocation preserves the distribution of responses within any variable, and preserves the mean. However, it seriously distorts any analysis of the relation between two variables. Therefore, the use of allocated data should be avoided for most statistical analyses of the relation between two variables. Allocated data should also not be used for any longitudinal analyses, because stability or change measured with allocated data is spurious.

The Census Bureau documents the allocation of data for a particular unit by entering a code in a Census-generated "allocation variable." Allocation variables can be used to identify variables and units which contain allocated data, allowing users to assign missing values or drop particular variables if appropriate.\* These allocation variables are part of the data base, but are not included in the regular codebook pages. They are documented only in the Questionnaire Directory.

Starting with the 1984 survey, these allocation variables also show whenever Census made a correction to a variable, based on inconsistent answers.

#### Allocation Procedures

The Census Bureau uses a technique known as "hot decking" to allocate missing answers: it assigns a value to unanswered questions by copying the response of the last similar unit processed. The criteria used to define "similar" units are shown in the matrices on the next pages. In general, they include tenure, age, sex, race and general unit descriptors. Users may decide that the allocation criteria used by the Census Bureau do not meet their own analysis requirements and may wish to reallocate missing values according to different criteria. As described above, allocated answers can be identified in the AHS files by examining the corresponding allocation variables.

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\*Note however that there are a few variables which are subject to allocation, but for which an allocation variable is not present for all years. It is not always clear whether the variable was not subject to allocation in these years or whether the Census Bureau did not release these allocation variables for these years. If it was not subject to allocation, codes "8" (not answered) will be present in the data files.

Prior to the processing of an AHS file, a series of matrices are created. These matrices are used to allocate missing answers in the order that they appear in the file. Units are processed in geographic order, so the last similar unit is normally located in approximately the same neighborhood. The Census Bureau has occasionally changed its allocation criteria. For simplicity, we present here the general matrices that were used until 1983 and the revised matrices which are used starting in 1984. In practice, there are many more matrices, one for each variable subject to allocation and, in some cases, different matrices are used for different types of household members for a given variable.

Until 1983, there were three basic matrices. Matrix 1 was used to allocate missing values for NUNITS (number of units in the Building) and FLOORS (number of stories in the building). Matrix 2 was used to allocate all other variables subject to allocation with the exception of the Income Variables which were allocated according to the criteria shown in Matrix 3. A different Matrix 3 is used for income from different sources and for different types of household members. (See footnotes to Matrix 1.)

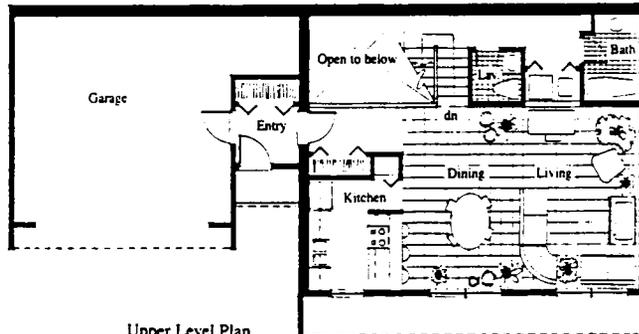
Starting in 1984, the criteria for allocations were refined, but the basic allocation procedures remain unchanged. The revised allocation criteria are shown in matrices 7 through 10. For example, the number of rooms in the unit (bedrooms, kitchens, bathrooms, etc.) and utility costs are now allocated on the basis of household size (see Matrix 5) and heating fuel (see Matrix 7) rather than race, sex and number of units in the building. The criteria for allocating income variables have also changed, as a result of changes in the information being collected starting in 1984 (see Matrices 9 and 10).

As AHS records are processed, the value of each variable encountered on the record being read is entered in the appropriate cell of the appropriate matrix, as long as the answer is not missing. For example, if the record being read in 1983 pertains to a owner-occupied unit, with a non-black reference person, located in a 2 unit building (NUNITS=4), the value "4" is entered in the top cell of Matrix 1. (Owner, Non-Black Reference Person). The matrix is updated each time that a record contains a reported value (i.e., non-missing). When a missing value is encountered, the last value found in the appropriate cell of the appropriate matrix is used to allocate the missing answer. The process continues until all records in the file are processed.

**Floor Plans**

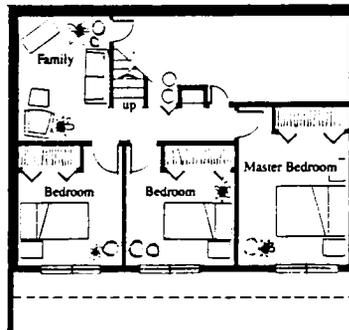
Design concepts include the use of the garage as a weather buffer, the orientation of all living spaces solely to the south for solar gain potential and minimum west, north and east exposure.

Floor Plans



Upper Level Plan

Lower Level Plan



1974-1983 Allocation Matrices

MATRIX 1: NUNITS and FLOORS:

		All
Occupied or URE:		
Owner:	Non-Black Reference Person	X
	Black Reference Person	X
Renter:	Non-Black Reference Person	X
	Black Reference Person	X
Vacant		X

MATRIX 2: All Other Variables Except Income

		Mobile Homes		One Unit		Two + Units	
		Male	Female	Male	Female	Male	Female
Occupied or URE:							
Owner:	Non-Black Reference Person	X	X	X	X	X	X
	Black Reference Person	X	X	X	X	X	X
Renter:	Non-Black Reference Person	X	X	X	X	X	X
	Black Reference Person	X	X	X	X	X	X
Vacant:	For Sale				X		X
	For Rent				X		X
	Other				X		X

MATRIX 3: Income Variables

		Non-Black Reference Person								Black Reference Person							
		Age								Age							
		< 25		25-34		35-64		65+		< 25		25-34		35-64		65+	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Owner:	Value < \$10,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	\$10-24,999	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	\$25-49,999	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	\$50,000 or more	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Renter:	Contract Rent < \$100	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	\$100-149	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	\$150-199	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	\$200 or more	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Notes: For non-relatives, their own race, age, and sex are used instead of the Reference Person's.

- For wage & salary, there are separate matrices for: reference person, spouse, child of reference person, head of any subfamily, spouse of any subfamily, child of any subfamily, other relatives, non-relatives.
- For farm and business income, there are four matrices: for farms and for businesses, respectively and for relatives and non-relatives.
- For all other income sources, there are three matrices for each variable: for 1 person families, 2-3 people, 4+ people, there is one matrix for each variable relating to non-relatives.

1984-1993 Allocation Matrices

MATRIX 4: Number of Units in the Building (NUNITS)

	Number of Stories in the Building (FLOORS)					
	1-4	5-7	8-14	15-20	21+	Missing or NA
Occupied or URE						
Owner	X	X	X	X	X	X
Renter	X	X	X	X	X	X
Vacant	X	X	X	X	X	X

MATRIX 5: Number Bedrooms, Full Bathrooms, Kitchen, Living Rooms, Dining Rooms, Family Rooms, Business Rooms, and Other Rooms

	HOUSEHOLD SIZE (PER)						
	1	2	3	4	5	6	7+
Occupied: Owner	X	X	X	X	X	X	X
Renter	X	X	X	X	X	X	X
Vacant for Rent	X	X	X	X	X	X	X
Vacant for Sale	X	X	X	X	X	X	X
URE and Other Vacant	X	X	X	X	X	X	X

MATRIX 6: Number of Stories (FLOORS)

	Number of Units in the Building (NUNIT)					
	1	2-4	5-9	10-19	20-49	50+
Occupied or URE:						
Owner	X	X	X	X	X	X
Renter	X	X	X	X	X	X
Vacant	X	X	X	X	X	X

MATRIX 7: Utility Costs (Electricity, Gas, Fuel Oil, Other, Garbage/Trash, Water and Sewage)

	Heating Fuel (HFUEL)					
	Electricity		Gas		Other	
	Male	Female	Male	Female	Male	Female
Occupied:						
Owner: Non-Black Reference Person			X	X	X	X
Black Reference Person			X	X	X	X
Renter: Non-Black Reference Person			X	X	X	X
Black Reference Person			X	X	X	X
URE: Owner			X	X	X	X
Renter			X	X	X	X
Vacant: For Rent			X	X	X	X
For Sale			X	X	X	X

MATRIX 8: All Other variables except Income

	Mobile Home		One Unit		2+ Units	
	Male	Female	Male	Female	Male	Female
Occupied:						
Owner: Non-Black Reference Person	X	X	X	X	X	X
Black Reference Person	X	X	X	X	X	X
Renter: Non-Black Reference Person	X	X	X	X	X	X
Black Reference Person	X	X	X	X	X	X
URE & Vacant: Renter or For Rent	X	X	X	X	X	X
Owner or For Sale	X	X	X	X	X	X
Other Vacant	X	X	X	X	X	X

MATRIX 9: Wage and Salary Income of Family Members and Total Income of Non-Relatives

	Non-Black Family Members						Black Family Members					
	Age		25-64		65+		Age		25-64		65+	
	M	F	M	F	M	F	M	F	M	F	M	F
Owners: Value < \$60,000	X	X	X	X	X	X	X	X	X	X	X	X
\$60,000 or more	X	X	X	X	X	X	X	X	X	X	X	X
Renters: Contract Rent < \$300	X	X	X	X	X	X	X	X	X	X	X	X
\$300 +	X	X	X	X	X	X	X	X	X	X	X	X

Note: Separate matrices are constructed for the reference person, spouse of reference person, child of reference person, head of any subfamily, spouse of any subfamily, child of any subfamily, other relatives, and non-relatives. Each person age, race and sex is used.

MATRIX 10: Other Sources of Income for Family Members

	Non-Black Family Members						Black Family Members					
	Age		25-64		65+		Age		25-64		65+	
	M	F	M	F	M	F	M	F	M	F	M	F
One Person Family												
Owners: Value < \$60,000	X	X	X	X	X	X	X	X	X	X	X	X
\$60,000 or more	X	X	X	X	X	X	X	X	X	X	X	X
Renters: Contract Rent < \$300	X	X	X	X	X	X	X	X	X	X	X	X
\$300 +	X	X	X	X	X	X	X	X	X	X	X	X
Two or More Persons												
Owners: Value < \$60,000	X	X	X	X	X	X	X	X	X	X	X	X
\$60,000 or more	X	X	X	X	X	X	X	X	X	X	X	X
Renters: Contract Rent < \$300	X	X	X	X	X	X	X	X	X	X	X	X
\$300 +	X	X	X	X	X	X	X	X	X	X	X	X

Note: All together there are 18 matrices to allocate family income from other sources (other than wage and salary): nine matrices to allocate whether any family member receives income from nine different sources: Business, Farm, Social Security, etc. and nine matrices to allocate the combined family income amount from these other sources depending on the type(s) of income sources reported.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1515	CONTROL	73N-93N 74S-93S	<b>Control Number For Unit Tracking</b> Note: The 1973 National control number is not the same as for succeeding National Surveys. Longitudinal links of 1973 data with later years cannot be done. Note also that for the National Sample Survey, a new sample was drawn in 1985. Cases in the 1985 National and later files cannot be linked to earlier cases (see discussion in Chapter 3). To assist longitudinal studies, data from the 1980 Census Questionnaire are provided on the 1985 National file (see 1980 Census Variables Section). In 1987, a completely new sample was drawn for the Houston SMSA. The 1987 and subsequent surveys cannot be linked to the earlier Houston surveys.	<u>83N</u> 1	<u>83S</u> 1	<u>84S</u>	<u>85N</u>
1516	CONTRLX	78S-83S	<b>Control Number Suffix</b> This is a one digit suffix used to distinguish control numbers in certain areas where the basic sequence of control numbers became too crowded for new numbers to be inserted. CONTRLX is zero in almost all cases, but where it is non-zero, it must be used to distinguish units with identical values in CONTROL.		<u>83S</u> 1		
1517	SAMEHH	87N-93N 86S-93S	<b>Some Hhld Members Lived In Unit For Prev Enumeration</b> 1 Yes 2 No 3 Don't Know 9 Not Applicable			<u>84S</u> 1	<u>87N</u> 1
1518	HHLN	79N-83N 79S-83S	<b>Household Occupancy Number</b> <u>79N-83N</u> <u>79S-83S</u> 1-8 1-8 Households 01-97 1-97 Households 8 Not Answered 99 9 Not Applicable Note: This code counts changes found by the survey since 1973. The counter is increased when a household is replaced by a new household, i.e. no household members are the same. It also increases when a unit becomes vacant and increases when the unit becomes occupied again.	<u>83N</u> 1	<u>83S</u> 1		
1519	DATE	81N-93N 81S-93S	<b>Date of Interview</b> 81N-83N 85N-93N <u>81S-83S</u> <u>84S-93N</u> MMYY Month and year when interview completed MMDDYY Month, day and year when interview completed 999999 9999 Non-Interview	<u>83N</u> 1	<u>83S</u> 1	<u>84S</u> 1	<u>85N</u> 1
1520	YEAR	85N-93N 84S-93S	<b>Survey Year</b> 84-93 1984-1993			<u>84S</u> G	<u>85N</u> G

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

REF#	NAME	SURVEYS	DESCRIPTION	83S	84S
1521	IMONTH	74S-93S	<b>Interview Panel</b> 74S-75S 76S 77S 81S- 78S-80S 93S	1	1
			1 1 1 January Of Following Year 2 2 2 February Of Following Year 3 3 March Of Following Year 4 4 4 4 April 5 5 5 5 May 6 6 6 6 June 7 7 7 7 July 8 8 8 8 August 9 9 9 9 September 10 10 10 10 October 11 11 11 11 November 12 12 12 12 December 99 Non-Interview		

Note: SMSA Survey interviews are conducted from April of each year through March of the following year. Most units are interviewed during the month shown, but hard-to-find households and new construction may be interviewed in later months. They will still, however, be identified on the tape with the panel to which they were originally assigned. In 1984S and later surveys, cases kept from panels 1-3 were reassigned panel numbers 4-12.

In 1977, 81 to 83, 85 and later various panels were omitted to save money. Often more panels were omitted in areas with large samples.

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S	84S	85N
1522	WEIGHT	73N-93N 74S-93S	<b>Weight Of Each Case In The Sample</b> (Two Implied Decimal Places)	G	G	G	G

Note: To prepare accurate tables or percentages from this data base, you must use WEIGHT, OLDWT, PWT, SWT, or WWT1-8. The most commonly used is WEIGHT.

Note: Weight is zero on non-interviews, on the neighbor sample, on units accidentally interviewed which are not supposed to be in the sample, and on certain types of vacant and URE units which are not considered part of the housing stock (e.g., vacant and URE units in transient hotels, boats, caves). Before 1984, vacant and URE mobile homes also had zero weights. WEIGHT changes each year to impute Type A non-interviews onto interviews and to match to match AHS estimates with data from other Census Bureau surveys. Beginning in 1981N, WEIGHT is adjusted based on the 1980 Census. Prior to that, it was adjusted based on the 1970 Census. See Chapter 2 for detailed information.

1523	OLDWT	81N 79S-83S	<b>Weight of Each Case in the Sample, Based on 1970 Census.</b> Two Implied Decimal Places. (See Chapter 2). In 1979S-82S, 999999 (six 9's) is always used in place of zero. In 1981N, 999999 is used on Abt tapes for cases dropped from the sample or not yet in the sample.	81N G	83S G
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1524	PWT	85N-93N 83S-93S	<b>Pure Weight: Inverse Of The Probability Of Selection</b> Two Implied Decimal Places.	83S G	84S G	85N G
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1525	SWT	74S-83S	<b>Inverse Of The Probability of Selection Adjusted By The Stratification Adjustment.</b> Two Implied Decimal Places. See Chapter 3 for detailed information.	83S G
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1526	AWT	74N-83N	<b>Special Code Used In Variance Calculation.</b> Four Implied Decimal Places. See Chapter 1 for detailed information.	83N G
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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1527	WWT1	75N	Weight for Individual Worker 1	<u>81N</u>	<u>82S</u>		
1528	WWT2	80N-81N	Weight for Individual Worker 2	G	G		
1529	WWT3	74S-77S	Weight for Individual Worker 3	G	G		
1530	WWT4	82S	Weight for Individual Worker 4	G	G		
1531	WWT5		Weight for Individual Worker 5	G	G		
1532	WWT6		Weight for Individual Worker 6	G	G		
1533	WWT7		Weight for Individual Worker 7	G	G		
1534	WWT8		Weight for Individual Worker 8	G	G		
			Note: Two Implied Decimal Places See Chapter 3 for detailed Information. In 1982S, 9999999 (seven nines) is sometimes used in place of zero.				
1535	RCLUS	74N-83N	Used In Variance Calculations. See Chapter 1 for detailed information.	<u>83N</u>			
				G			
1536	NCLUS	74N-83N	Used In Variance Calculations. See Chapter 1 for detailed information.	<u>83N</u>			
				G			
1537	CMS	74N-75N	Conversion-Merger Status Since Last Survey	<u>75N</u>			
			1 Merged	48			
			2 Converted to More Units				
			3 No Change				
			9 Not Applicable				
1538	STRUCT	77N-83N 79S-83S	Status of Structure	<u>83N</u>	<u>83S</u>		
			1 Structure Has No Habitable Units	1	1		
			2 One Or More Habitable Units				
			8 Not Reported				
			9 Not Applicable				
1539	SAMEDU	85N-93N 84S-93S	Same Unit as Last Enumeration Period		<u>84S</u>	<u>85N</u>	
			1 Yes, Same Unit		1	1	
			2 No (e.g., replacement mobile home, wrong unit interviewed last time)				
			9 New Construction or Formerly a Type-C Non-Interview				
			Note: In 1985N, all cases are coded 9 since a completely new sample was interviewed.				
1540	HISTRY	77N-93N 77S-93S	Status of Unit	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
			<u>77N-83N</u> <u>77S-83S</u> <u>85N-93N</u> <u>84S-93S</u>	1	1	C1	C1
			0 In Sample Last Enumeration Period, No Record Available Control Number Preassigned				
			1 In Sample Last Enumeration Period, Record Available				
			2 New Construction				
			3 Mobile Home Moved In				
			4 House Moved In				
			5 Unit Resulted From Conversion				
			6 Conversion of Nonresidential Unit				
			7 Sample Redesign				
			8 Other				
			8 Assigned A New Control Number After Sample Selection				
			8 Not Answered				
1541	NDUMRG	85N-93N 84S-93S	Number of Units Involved in Merger		<u>84S</u>	<u>85N</u>	
			2-8 2 to 8 Units Involved in Merger		G	G	
			9 Not a Type C-33 Non-Interview				
1542	PERSINT	81N-93N 84S-93S	Personal Or Telephone Interview	<u>83N</u>	<u>84S</u>	<u>85N</u>	
			1 Personal Visit	55	1	1	
			2 Telephone				
			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											
1543	WHYPER	81N 83N	Reason For Personal Interview <ol style="list-style-type: none"> <li>1 Unit Is In Panel 2, 3, 4, 5, 6, i.e., Selected For Personal Interview</li> <li>1 Unit Is In Panel 2, 4, and 6</li> <li>2 Some Reason Given</li> <li>98 98 Interviewer Did Not Fill In Reason Or Unit At A Special Place</li> <li>99 99 Telephone Interview</li> </ol> Note: Detailed codes in questionnaires were all consolidated to code 2.	<u>83N</u> 55											
1544	INTLNG	87N	Language Interview Was Conducted In <ol style="list-style-type: none"> <li>1 English</li> <li>2 Spanish</li> <li>3 Other</li> <li>8 Not Answered</li> <li>9 Not Applicable</li> </ol>				<u>87N</u>								
1545	STATUA	85N-93N 84S-93S	Occupancy Status For Type A Noninterviews <ol style="list-style-type: none"> <li>1 Occupied as a Usual Residence by at Least One Person</li> <li>2 All Occupants Have a Usual Residence Elsewhere</li> <li>3 Don't Know</li> <li>9 Not Applicable</li> </ol>			<u>84S</u> 1	<u>85N</u> 1								
1546	VACANCY	73N-93N 74S-93S	Reason Why Unit Is Vacant Or URE <table border="0"> <tr> <td>73N-74N</td> <td>75N-83N</td> <td>85N-93N</td> <td></td> </tr> <tr> <td><u>74S</u></td> <td><u>75S-83S</u></td> <td><u>84S-93S</u></td> <td></td> </tr> </table> <ol style="list-style-type: none"> <li>1 Vacant--For Rent</li> <li>2 Vacant--For Rent Or Sale</li> <li>3 Vacant--For Sale, Regular</li> <li>3 Vacant--For Sale As Condominium</li> <li>4 Vacant--For Sale As Cooperative</li> <li>3 Rented, Not Yet Occupied</li> <li>4 Sold, Not Yet Occupied</li> <li>5 Held For Occasional Use-- No Specific Season</li> <li>6 8 7 Other Vacant or Usual Residence Elsewhere, e.g., pending estate settlement, or held off market for owner's personal reasons.</li> <li>8 10 8 Seasonal Summer Occupancy</li> <li>9 11 9 Seasonal Winter Occupancy</li> <li>10 12 10 Other Seasonal Occupancy</li> <li>7 9 11 Migratory</li> <li>99 99 99 Occupied, Non-Interview, or Vacant or URE Units in Transient Hotels, Mobile Homes, or "Other Housing" (see TYPE).</li> </ol>	73N-74N	75N-83N	85N-93N		<u>74S</u>	<u>75S-83S</u>	<u>84S-93S</u>		<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 37	<u>85N</u> 37
73N-74N	75N-83N	85N-93N													
<u>74S</u>	<u>75S-83S</u>	<u>84S-93S</u>													
1547	MOVAC	73N-93N 74S-93S	Months This House Or Apartment Has Been Vacant <table border="0"> <tr> <td>73N-83N</td> <td>85N-93N</td> <td></td> </tr> <tr> <td><u>74S-83S</u></td> <td><u>84S-93S</u></td> <td></td> </tr> </table> <ol style="list-style-type: none"> <li>1 0 Months Up to 1 Month</li> <li>1-24 1 Month to 24 Months</li> <li>2 1 Month up to 2 Months</li> <li>3 2 Months up to 6 Months</li> <li>4 6 Months up to 12 Months</li> <li>5 1 Year to 2 Years</li> <li>6 25 2 Or More Years</li> <li>26 Never Occupied As Permanent Home</li> <li>27 Don't Know</li> <li>9 99 Not Vacant</li> </ol> Note: "Month" refers to any 4 week span of time: e.g. from the 16th of one month to the 16th of the next month, not the 1st to the 31st of a month.	73N-83N	85N-93N		<u>74S-83S</u>	<u>84S-93S</u>		<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 13	<u>85N</u> 13		
73N-83N	85N-93N														
<u>74S-83S</u>	<u>84S-93S</u>														
1548	MHSTAY	85N-93N 85S-93S	Mobile Home Will Remain Where It Is (Vacant MH Only) <ol style="list-style-type: none"> <li>1 Yes</li> <li>2 No</li> <li>8 Not Answered</li> <li>9 Not a vacant mobile home or Not Applicable</li> </ol>			<u>85S</u> 16	<u>85N</u> 16								

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

1549 NOINT 74N-93N 74S-93S Type Of Non-Interview 83N 83S 84S 85N  
 1 1 1 1

74N-76N	74S-77S	77N-83N	78S-83S	85N-84S-93S	
1	1	1	1	1	No One Home
2	2	2	2	2	Temporarily Absent
3	3	3	3	3	Refused
4	4	4	4	4	Unable To Locate
5	5	5	5	5	Other Occupied, No Interview
13	13	19	19	10	Construction Not Started Yet
10	10	13	13	11	Under Construction
6	6	10	10	12	Business or Storage (Non-Residential Uses)
7	7	11	11		Group Quarters
8	8	12	12	13	Unoccupied Tent Or Mobile Home Site
				14	"Other" Unit or Converted to Non-staff
9	9	14	14		Unfit Or To Be Demolished
				15	Occupancy Prohibited
11	11	15	15		Condemned
			16	16	Interior Exposed To Elements
			17	17	Unit Severely Damaged By Fire
22	22				Unfit, Vandalized
23	23				Unfit, Burned Out
24	24				Unfit, Other
12	12	18	18	17	Other Type B
				19	Split or Merged Since Sample Selection (Unit is included on tape under a new control number)
14	14				Unused Line of Listing Sheet
				30	Demolished Or Disaster Loss
16	16	34	34	31	House Or Mobile Home Moved
			30	32	Unit Eliminated In Conversion
17	17	35	35	33	Merged, Not In Current Sample
			32	32	Disaster Loss (Flood, Tornado)
			33	33	Disaster Loss (Fire)
21	21				Disaster Loss (i.e., Flood)
15	15	31	31		Demolished
18	18	36	36		Built After 1/4/70, Not In Sample (See Appendix B)
20	20	38	38	36	Unused Permit, Abandoned
19	19	37	37	37	Other Type C
55		55			Not Yet In The Sample
		77			Sample Reduction in 1977
		81			Sample Reduction in 1981
98		98			Non-Interview Reason Not Reported
99	99	99	99	99	Interviewed Unit

Note: Code 16/34/31, House Or Mobile Home Moved: for mobile homes this means no specific site at the address had been set aside for the mobile home (if there had been a site, then Code 8/12/13 would apply). Vacant and URE mobile homes are coded as interviewed units (99) even though they are not part of the housing stock until 1984, and have a weight of zero. See definition of housing units in the introduction to the Tenure, Building and Parking section to identify changes made after 1983.

1550 BOARDU 74N-93N 79S-93S Unit Boarded Up (Type B Non-Interviews, Int. Obs.) 83N 83S 84S 85N  
 1 1 1 1

- 1 Yes
- 2 No
- 8 Not Answered
- 9 Occupied, URE, Vacant, or Other Non-Interview

Note: 74N-76N Applicable If NOINT=9,11,12,22-24  
 In 77N-81N,83N Applicable If NOINT=14,15,18  
 In 79S-83S Applicable If NOINT=14,15-18  
 In 85N-93N,84S-93S Applicable If NOINT=10-17

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.

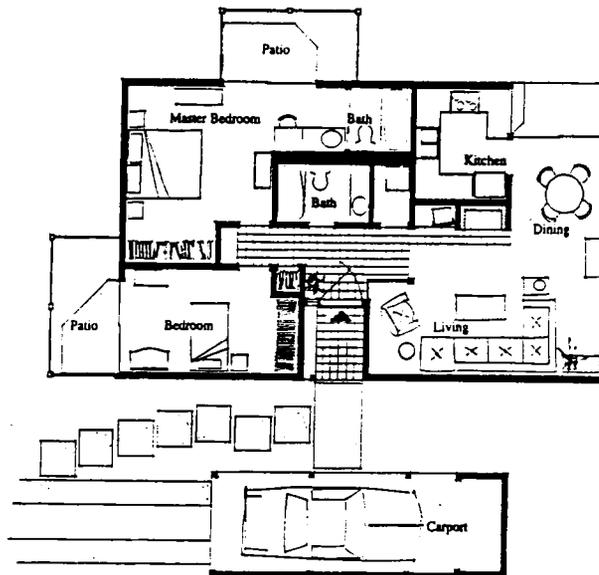
REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1551	EXPOSE	85N-93N 84S-93S	Interior of Unit Exposed To Elements 1 Interior Exposed to Elements 2 Interior Not Exposed to Elements 9 Not a Type B Non-Interview	<u>84S</u> 1	<u>85N</u> 1
1552	BBLDG	85N-93N 84S-93S	In Addition to Type B Unit, Other Units in Building 1 Building Contains at Least 1 Unit, Occupied or Vacant 2 Type B Unit is Only Unit in Building 3 All Units Would Qualify as Type B or C Non-Interviews 9 Not a Type B Non-Interview	<u>84S</u> 1	<u>85N</u> 1
1553	PERMDT	85N-93N 84S-93S	Date Construction Permit Issued (Type B Non-Interview) MMDDYY Month, Day and Year When Permit Issued 999999 Not a Type B-10 Non-Interview	<u>84S</u> 3	<u>85N</u> 3
1554	CSTRG	85N-93N 84S-93S	Type of Permanent Or Temporary Storage 1 Commercial 2 School 3 Storage 9 Not a Type B-12 Non-Interview	<u>84S</u> 3	<u>85N</u> 3
1555	ARTSTR	85N-93N 84S-93S	Type of Articles Being Stored 1 Personal Household Furniture Only 2 Commercial Storage 3 Farm Equipment or Crops 4 Other Articles Not Specified Above 9 Not a Type B-12 Non-Interview	<u>84S</u> 3	<u>85N</u> 3
1556	PKSITE	85N-93N 84S-93S	Unoccupied Mobile Home Site In Rec/Ed/Religious Park 1 Yes 2 No 9 Not a Type B-13 Non-Interview	<u>84S</u> 3	<u>85N</u> 3
1557	WHYNO	85N-93N 84S-93S	Reason Occupancy Is Prohibited In Unit 1 Scheduled to be Demolished 2 Severely Damaged By Fire 3 Condemned Or Occupancy Prohibited by Law 9 Not A Type B-15 Non-Interview	<u>84S</u> 4	<u>85N</u> 4
1558	DFIRE	85N-93N 84S-93S	Unit Demolished, Moved, or Disaster Loss Because Damaged by 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>84S</u> 1	<u>85N</u> 1
1559	DISAS	85N-93N 84S-93S	Unit Demolished, Moved, or Loss Because of Other Natural Dis 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>84S</u> 1	<u>85N</u> 1
1560	HOWEGR	85N-93N 84S-93S	Condition of Unit's Doors and Windows 1 All In Good Condition 2 Some Missing or Broken 3 Most Missing or Broken 4 Unobservable 9 Not A Type B-16 Non-Interview	<u>84S</u> 5	<u>85N</u> 5
1561	HOWROF	85N-93N 84S-93S	Condition of Unit's Roofs 1 In Good Condition 2 Leaky, Has Missing Shingles or Small Holes 3 Entirely or Partially Missing 4 Unobservable 9 Not A Type B-16 Non-Interview	<u>84S</u> 5	<u>85N</u> 5
1562	HOWWAL	85N-93N 84S-93S	Condition of Unit's Exterior Walls 1 In Good Condition 2 Cracked or Broken (excludes minor damage which does not expose interior) 3 Entirely or Partially Missing 4 Unobservable 9 Not A Type B-16 Non-Interview	<u>84S</u> 5	<u>85N</u> 5

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1563	HOWLST	85N-93N 84S-93S	How Unit Was Lost From Housing Stock		<u>84S</u> 5
				1 Demolished	<u>85N</u> 5
				2 Disaster Loss	
			9 Not a Type C-30 Non-Interview		
1564	HOWBAD	85N-93N 84S-93S	Extent of Demolition		<u>84S</u> 5
				1 All of Unit	<u>85N</u> 5
				2 Part of Unit--Demolition Proceeding	
				3 Part of Unit--Demolition Discontinued	
				4 None of Unit Demolished	
			9 Not a Type C-30 Non-Interview or Not Demolished		

**Floor Plan**

The plan demonstrates efficient space planning oriented to the Southwest's patio lifestyle. Patio extensions of each room increase the apparent square footage of the house.

Floor Plan



Notes: G = Variable is computer generated, and is not present on the questionnaire.  
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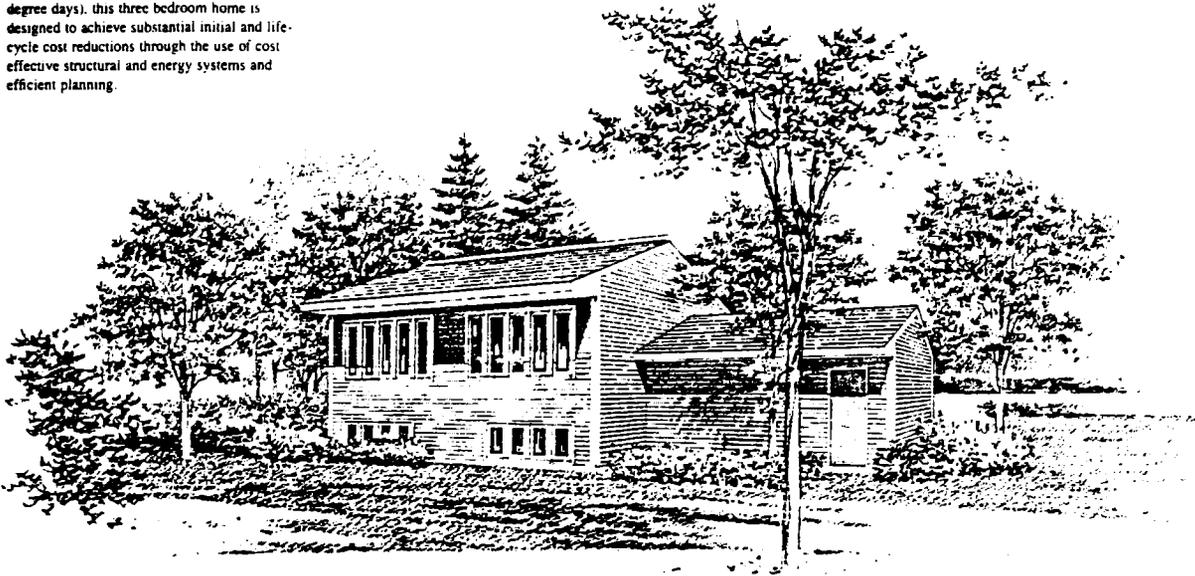
## Double-Walled Bi-Level

*Project Sponsor/Designer: North Design  
Madison-  
Middleton,  
Wisconsin*

*Floor Area: 1,312 sq. ft.*

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Intended for colder latitudes (6,000-10,000 degree days), this three bedroom home is designed to achieve substantial initial and life-cycle cost reductions through the use of cost effective structural and energy systems and efficient planning.



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Steven Winter Associates, Inc., Building Value into Housing 1980 Awards, A compendium of Winning Submissions Under HUD's 1980 "Building Value into Housing Program", November, 1980.

This section describes the 1980 Census variables provided on the 1985 National File to assist longitudinal studies. These variables are provided for most units in the 1985 AHS National file. The 1980 Census variables are not available for units which were added to the housing stock since 1980 (New Construction, Conversions) or were not classified as housing units in 1980. Some cases may also be missing because the 1980 Questionnaire was not returned or a corresponding record could not be found.

For most 1985N homes except neighbor units, all the variables documented in this section will be available. For most neighbor units only variables identified with a note are available.

The order of the variables parallels the overall order of the Codebook: Geography variables, general characteristics of the unit, rooms, kitchen, plumbing, household composition, income, housing costs, mobility and commuting. The 1980 Census Questionnaire included questions which are not asked in the AHS survey: Employment information, more detailed questions on household characteristics, origins, veteran status. These variables have nevertheless been included, as they provide useful baseline information for households that have not moved between 1980 and 1985. Most of these specialized questions are provided for the head, and for a second adult, which is the spouse if present.

Census variables have been assigned variable names which are identical or similar to the variable name of the corresponding AHS variable. Each variable name ends with the suffix "80" to assist users in identifying the source of the various variables. IT SHOULD BE NOTED THAT THE CODES USED FOR AHS AND CENSUS VARIABLES ARE RARELY IDENTICAL. For some variables, the phrasing of the question and the resulting coding conventions differ significantly. The location of the item on the Census Questionnaire is provided in the documentation. Users may want to compare the questions from both sources.

Differences in concepts or definitions between AHS and Census are highlighted in the Introductions to the other sections of this Codebook.

The codes used by Census for Occupation, Industry, and Ancestry are numerous. These codes are presented at the end of this section for easy reference.

In order to meet the various analytical needs of Users, the 1980 Census distinguishes three subsamples for the purposes of coding geography variables. These subsamples are referred to under the appropriate variables and are briefly described below:

A Sample: State is always identified. Metropolitan areas do not always follow the state boundaries, so some codes for metropolitan areas crossing state boundaries are suppressed.

B Sample: Metropolitan areas are always identified. State is suppressed for some cases in metropolitan areas crossing state lines.

C Sample: Urbanized areas are always identified. Metropolitan areas and state codes are sometimes suppressed when an urbanized area crosses the state or metropolitan boundaries.

Exhibit 1: Ancestry Codes

001-999 Western Europe (except Spain)

Code	Ancestry
001	Austrian
002	Tirolean
003	Andorran
004	Basque
005	Belgian
006	Flemish (Fland, Vlamand)
007	Valloon
008	Cypriot
009	Greek-Cypriote
010	Turk-Cypriote
011	Icelandic
012	Danish
013	Faeroe Islander
014	Dutch (Hollande, Netherlander)
015	Frisian
016	English (Anglican)
017	Channel Islander, Guernsey Islander, Jersey Islander
018	Cornish
019	Welsh
020	Scottish (Orkney Islander, Pict, Shetland)
021	Mans
022	Northern Ireland (Ulsterite, Orange- man, Antrim, Armagh, Down, Fermanagh, Derry, Londonderry, Tyrone)
024	Finnish
025	Lithonian
026	Karelian
027	Mold Islander
028	French (French Creole, Gascon, Provencal, Norman)
029	Breton
030	Corsican
031	French Basque
032	German (East German, West German, Pennsylvania Dutch, Pennsylvania German)
033	Bavarian
034	Berlin
035	Black Sea German, (Volga)
036	Hamburg
037	Hannover
038	Hessian
039	Lubecker
040	Lusatian Sorb. (Wendish)
041	Prussian
042	Saxon
043	Westphalian
044	Sudetenlander
045	Gibraltan
046	Greek
047	Cretan
048	Cycladic Islander, (Dodecanese Islander, Peloponnesian)
050	Irish (Celtic, Dubliner, Eire, Clare, Cork, Donegal, Galway, Kerry, Kildare, Kilkenny, Laoighis, Leitrim, Limerick, Longford, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow)
052	Italian (San Marino, Trieste)
053	Abruzzi
054	Apulian
055	Basilicata (Lucania)
056	Calabrian
057	Campanian (Amalfian)
058	Emilia-Romagna
059	Friulian
060	Rome (Vatican City, Lazio)
061	Ligurian
062	Lombardian
063	Marches
064	Molise
065	Piedmontese
066	Puglia
067	Sardinian
068	Sicilian
069	Tuscan

Code	Ancestry
070	Trentino
071	Umbrian
072	Valle D'Aosta
073	Venetian
074	Liechtensteiner
075	Luxemburger
076	Maltese (Gozo)
077	Monagasque (Monacan)
078	Norwegian (Jan Mayen Islander, Spitsbergen Suaband Islander)
079	Portuguese (Lusitanian)
080	Azorean
081	Maderran
082	Swedish
083	Swiss
084	Schweiz, Suisse, Switzer
085	Ladin, Rumansch
086	Ticino
087	Suisse-Romane
088	Laop (Samelat)
089	Scandinavian (Nordic)
090	Alsatian
091	Lorrainian
092	European
093	Western European
094	Northern European
095	Southern European
096	British Isles
097	British (United Kingdom)
098	Acadian (Cajun)

(100-199) Eastern Europe and Russia

Code	Ancestry
100	Albanian (Gleg, Tosc)
102	Bulgarian (Eastern Rmelian)
103	Macedonian
104	Czechoslovakian (Czech)
105	Bohemian (Moravian)
106	Slovak
111	Estonian
113	Hungarian
114	Magyar
117	Latvian (Lettish)
120	Lithuanian (Imoud)
122	Polish (Masurian)
123	Pomeranian (Silesian)
124	Kashubian
125	Rumanian
126	Bessarabian (Bucovina, Dobruja)
127	Moldavian
128	Transylvanian
129	Vlach (Wallachian)
131	Yugoslavian (not elsewhere classified)
133	Croatian (Dalmatian, Zadar)
136	Serbian (Bosnian, Herzegovinian, Montenegrin)
137	Slovene
140	Rustian
141	Muscovite
142	Crimean (Kunil Is- lander, Siml- Islander, Siberian, Buriat, Dagestan, Balkar, Komi, Mari, Tuva)
143	Abjerbajian
144	Bashkir
145	Chevash
146	Yakut
147	Cossack (Kazak)
148	Kirghiz
149	Mordovian
150	Ossetian
151	Tadzhik (Tajik)
152	Tartar
153	Turcomen (Turkman)
154	Udmurt
155	Uzbeg (Uzbek)

Code Ancestry

156	Votvak
159	Armenian
161	Georgian
163	Ruthenian (Little Russian, Malo- Russian)
164	Carpathian (Carattm)
166	Ukrainian
168	Belorussian (White Russian)
170	Slav (Slavic)
172	Gypsy (Rom, Boyash, Cali, Dom, Kai- derash, Luri, Nat Serk)
173	Eastern European
174	Central European

200-299 Spanish Categories

Code	Ancestry
200	Spaniard (Español, Castilian, Iberian, Valencian)
201	Baleaic Islander (Canarian, Majorcan, Mallorcan)
202	Spanish Basque (Vasco, Euskaiduna)
203	Catalonian
204	Galician (Gallego)
205	Spanish
206	Spanish American
207	Hispanic (Hispano)
208	Californio
209	Mexican (Mexicano)
210	Mexican-American
211	Nuevo Mexicano (Tejano, Aguascalientes, Baja California, Campeche, Chiapas, Colima, Durango, Hidalgo, Jalisco, La Raza, Michoacan, Morelos, Nahuatl, Oaxaca, Puebla, Quere- taro, San Luis Potosi, Sinaloa, Sonora, Tabasco, Tamaulipas, Tlaxcala, Veracruz, Yucatan, Zacatecas)
212	Chicano
213	Puerto Rican (Boricua)
214	Cuban (Guajiro)
215	Dominican
216	Argentinean
217	Bolivian
218	Chilean
219	Colombian
221	Costa Rican
223	Ecuadorian (Galapagos Islander)
225	Guatemalan
227	Honduran
229	Nicaraguan
231	Panamanian (Canal Zone)
233	Paraguayan
235	Peruvian
237	Salvadoran
239	Uruguayan
241	Venezuelan
242	Central American (Latin American, Latino)
243	South American (Criollo)

Exhibit 1: Ancestry Codes (continued)

(300-399) Caribbean, Central and South America (except Spanish Categories)

Code	Ancestry
300	Bahamian
304	Cayman Islander
306	Jamaican
308	Jamaican
310	Dutch West Indies (Black Dutch, Netherlands Antilles)
311	Aruba Islander (Bonaire Islander, Curacao Islander)
312	Saba Islander (St. Eustatius Islander, St. Maarten Islander (Dutch))
314	Trinidadian/Tobagonian
315	Trinidadian
316	Tobagonian
320	U.S. Virgin Islander (Islanders: St. Croix, St. John, St. Thomas; Cruzan)
321	British Virgin Islander (Barbudan, Tortolan)
322	Caribbean
323	British West Indian
324	Turks & Caicos Islander
325	Anguilla Islander (Islanders: Montserrat, Nevis, Redonda, St. Kitts, Sombbrero)
326	St. Christopher Islander (St. Vincent Islander)
327	Dominica Islander
328	Grenada Islander
329	St. Lucia Islander
330	French West Indies
331	Guadeloupe Islander (Martinique Islander, St. Martin Islander (French))
332	Cayenne (French Guianese)
333	West Indian
334	Arawak (Black Carib, Carib, Garifuna)
335	Belizean (British, Honduran)
336	Brazilian
337	San Andres
338	Guyanese (British Guiana)
339	Providencia
340	Surinam (Dutch Guiana)
341	Barbadian

(400-499) North Africa and Southwest Asia

Code	Ancestry
400	Algerian
402	Egyptian (Coptic, Fellah, United Arab Republic)
404	Libyan (Tripolitanian)
406	Moroccan (Tangier)
407	Ihm
408	Tunisian
409	Moor
410	Berber
411	North African
412	Athacemas (Ceuta, Melilla, Chafarinas)
413	Rio de Oro (Segua el Hamra)
414	Bahraini
415	Iranian (Tehran, Persian)
417	Israeli
419	Israeli
421	Jordanian (Hashemite)
423	Kuwaiti
425	Lebanese (Beirut)
427	Saudi Arabian
429	Syrian (Druse)
430	Aramean
431	Jebel Druse
432	Latakian
434	Turkish (Gordian, Metay, Asia Minor)
435	Yemeni (Yemen Arab Republic)

Code	Ancestry
436	Muscat
437	Omani
438	Trucial Oman
439	Qatar
440	Aden
441	Kuria Muria Islander
442	Bedouin
443	Kurd
444	Palestinian
445	Trans-Jordan
446	Cazan
447	West Bank
448	People's Democratic Republic of Yemen (South Yemen)
449	Arabian
450	Middle Eastern
451	United Arab Emirates (Trucial States, Abud Dhabi, Ajman, Dubai, Fujairah, Ras al-Kaimah, Umm al-Qarwan)
452	Assyrian (Chaldean, Jacobite, Nestorian)

(500-599) Sub-Saharan Africa

Code	Ancestry
500	Angolan (Cabinda)
502	Benin (Dahoman, Fon)
504	Botswana (Bechuanaland)
506	Burundian (Urundi)
508	Cameroonian (Fako)
510	Cape Verdean (Brava)
512	Central African Republic (Ubangi-Shari)
513	Chadian
515	Congolese
516	Congo-Brazzaville
519	Djibouti (Jibuti, Afars, Issas)
520	Equatorial Guinea (Rio Muni)
521	Annobon Islander (Islanders: Bioko, Conico, Elobis, Fernando Po)
522	Ethiopian (Abyssinian)
523	Eritrean
525	Gabonese
527	Cambian
529	Chamian (Ashanti, Gold Coast, Twi)
530	Guinean
531	Guinea-Bissau
532	Ivory Coast
534	Kenyan
538	Lesotho (Basuto)
541	Liberian
543	Madagascan
546	Malian
547	Mauritanian
549	Mozambican
550	Nambian
551	Niger
553	Nigerian
554	Fulani (Fulah)
555	Hausa
556	Ibo
557	Tiv (Yoruba)
559	Rhodesian (Zimbabwe, Zimbabwe-Rhodesian)
561	Rwandian
564	Senegalese (Dakar)
566	Sierra Leonean
568	Somalian
569	Swaziland
570	South African (Republic of South Africa)
571	Orange Free State (Pretoria, Transkei, Union of South Africa)
572	Afrikaner (Boer)
573	Natalian
574	Zulu
576	Sudanese
577	Dinka
578	Nuer
579	Darfur (Fur)

Code	Ancestry
580	Baggara
584	Tanzanian
585	Tanganvikan
586	Zanzibari
588	Togo
590	Ugandan (Lugbara)
591	Upper Volta
592	Volta
593	Zairian (Belgian Congo, Kinshasa)
594	Zambian
595	African (Afro)
596	Central African (Middle Congo)
597	Eastern African (Galla, Kikuyu, Masai)
598	Western African
599	Comoros Islander (Islanders: Mauritius, Principe, Reunion, Sao Tome, Sevchelles, St. Helena, St. Pierre, Tristan da Cunha)

(600-699) South Asia

Code	Ancestry
600	Afghan
601	Baluchi
602	Pathan
605	Bengali (E. Pakistan)
607	Bhutanese
609	Nepali
613	Asian Indian (India, E. Indian, Bharati, Behar, Delhi, Oravindian, Indo-Aryan, Madhya Pradesh, Orissa, Rajasthani, Sikkim, Uttar Pradesh)
614	Punjabi
615	Andhra Pradesh
616	Assamese
617	Gujarati
618	Karnatakian
619	Keralian
620	Maharashtran
621	Naga
622	Tamilian
623	Madras
624	Goanese
625	Mizoram (Mysore)
627	Pondicherry
628	Andaman Islander (Nicobar Islander)
630	Pakistani (Sind, Jammu, Kashmirian, W. Pakistani)
633	Ceylonese (Sr. Lankan)
634	Singhalese
635	Veddah
637	Maldivian

(700-799) Other Asia

Code	Ancestry
700	Burmese (Chin, Cachin, Karen, Mon, Palaung)
701	Burman
702	Shan
703	Cambodian (Kampuchea)
704	Khmer
706	Chinese (Jehol, Uigur, Yao)
707	Cantonese (Formosan)
708	Manchurian
709	Mongolian (Kalmuck)
710	Tibetan
711	Hong Kong
712	Macau (Portuguese Macao)
714	Filipino (Philipino, Cebuano, Ilocano, Tagalog)



Exhibit 2: Occupation Codes

(The numbers in parentheses refer to the 1980 Standard Occupational Classification code equivalents. R means part. N.e.c. means not elsewhere classified.)

1980 CODE	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS
	Executive, Administrative, and Managerial Occupations	
003	Legislators (111)	113 Teachers, Postsecondary
004	Chief executives and general administrators, public administration (112)	114 Earth, environmental, and marine science teachers (2212)
005	Administrators and officials, public administration (1132-1139)	115 Biological science teachers (2213)
006	Administrators, protective services (1131)	116 Chemistry teachers (2214)
007	Financial managers (122)	117 Physics teachers (2215)
008	Personnel and labor relations managers (123)	118 Natural science teachers, n.e.c. (2216)
009	Purchasing managers (124)	119 Psychology teachers (2217)
013	Managers, marketing, advertising, and public relations (125)	120 Economics teachers (2218)
014	Administrators, education and related fields (128)	123 History teachers (2222)
015	Managers, medicine and health (131)	124 Political science teachers (2223)
016	Managers, properties and real estate (1353)	125 Sociology teachers (2224)
017	Postmasters and mail superintendents (1344)	126 Social science teachers, n.e.c. (2225)
018	Funeral directors (pt 1359)	127 Engineering teachers (2226)
019	Managers and administrators, n.e.c., (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359)	128 Mathematical science teachers (2227)
	Management Related Occupations	129 Computer science teachers (2228)
023	Accountants and auditors (1412)	133 Medical science teachers (2231)
024	Underwriters (1414)	134 Health specialties teachers (2232)
025	Other financial officers (1415, 1419)	135 Business, commerce, and marketing teachers (2233)
026	Management analysts (142)	136 Agriculture and forestry teachers (2234)
027	Personnel, training, and labor relations specialists (143)	137 Art, drama, and music teachers (2235)
028	Purchasing agents and buyers, farm products (1443)	138 Physical education teachers (2236)
029	Buyers, wholesale and retail trade except farm products (1442)	139 Education teachers (2237)
033	Purchasing agents and buyers, n.e.c. (1449)	143 English teachers (2238)
034	Business and promotion agents (145)	144 Foreign language teachers (2242)
035	Construction inspectors (1472)	145 Law teachers (2243)
036	Inspectors and compliance officers, except construction (1473)	146 Social work teachers (2244)
037	Management related occupations, n.e.c. (149)	147 Theology teachers (2245)
	Professional Specialty Occupations	148 Trade and industrial teachers (2246)
	Engineers, Architects, and Surveyors	149 Home economics teachers (2247)
043	Architects (161)	153 Teachers, postsecondary, n.e.c. (2249)
	Engineers	154 Postsecondary teachers, subject not specified
044	Aerospace (1622)	
045	Metallurgical and materials (1623)	155 Teachers, Except Postsecondary
046	Mining (1624)	156 Teachers, prekindergarten and kindergarten (231)
047	Petroleum (1625)	157 Teachers, elementary school (232)
048	Chemical (1626)	158 Teachers, secondary school (233)
049	Nuclear (1627)	159 Teachers, special education (235)
053	Civil (1628)	163 Counselors, educational and vocational (24)
054	Agricultural (1632)	
055	Electrical and electronic (1633)	164 Librarians, Archivists, and Curators
056	Industrial (1634)	165 Librarians (251)
057	Mechanical (1635)	165 Archivists and curators (252)
	Professional Specialty Occupations (continued)	
058	Marine and naval architects (1637)	166 Social Scientists and Urban Planners
059	Engineers, n.e.c. (1639)	167 Economists (1912)
063	Surveyors and mapping scientists (164)	167 Psychologists (1915)
	Mathematical and Computer Scientists	168 Sociologists (1916)
064	Computer systems analysts and scientists (171)	169 Social scientists, n.e.c. (1913, 1914, 1919)
065	Operations and systems researchers and analysts (172)	173 Urban planners (192)
066	Actuaries (1732)	
067	Statisticians (1733)	174 Social, Recreation, and Religious Workers
068	Mathematical scientists, n.e.c. (1739)	175 Social workers (2032)
	Natural Scientists	176 Recreation workers (2033)
069	Physicists and astronomers (1842, 1843)	177 Clergy (2042)
073	Chemists, except biochemists (1845)	177 Religious workers, n.e.c. (2049)
074	Atmospheric and space scientists (1846)	
075	Geologists and geodesists (1847)	178 Lawyers and Judges
076	Physical scientists, n.e.c. (1849)	179 Lawyers
077	Agricultural and food scientists (1853)	179 Judges
078	Biological and life scientists (1854)	
079	Forestry and conservation scientists (1852)	183 Writers, artists, entertainers, and athletes
083	Medical scientists (1855)	184 Authors
	Health Diagnosing Occupations	184 Technical writers
084	Physicians (261)	185 Designers
085	Dentists (262)	186 Musicians and composers
086	Veterinarians (27)	187 Actors and directors
087	Optometrists (281)	188 Painters, sculptors, craft-artists, and artist printmakers
088	Podiatrists (283)	189 Photographers
089	Health diagnosing practitioners, n.e.c. (289)	193 Dancers
	Health Assessment and Treating Occupations	194 Artists, performers, and related workers, n.e.c.
095	Registered nurses (29)	195 Editors and reporters
096	Pharmacists (301)	
097	Dietitians (302)	197 Public relations specialists
	Therapists	198 Announcers
098	Inhalation therapists (3031)	199 Athletes
099	Occupational therapists (3032)	
103	Physical therapists (3033)	203 Clinical laboratory technologists and technicians (362)
104	Speech therapists (3034)	204 Dental hygienists (363)
105	Therapists, n.e.c. (3039)	205 Health record technologists and technicians (364)
106	Physicians' assistants (304)	206 Radiologic technicians (365)
		207 Licensed practical nurses (366)
		208 Health technologists and technicians, n.e.c. (369)

## Exhibit 2: Occupation Codes (continued)

Technologists and Technicians, Except Health			
<b>Engineering and Related Technologists and Technicians</b>			
213	Electrical and electronic technicians (3711)	337	Financial Records Processing Occupations
214	Industrial engineering technicians (3712)	338	Bookkeepers, accounting, and auditing clerks (4712)
215	Mechanical engineering technicians (3713)	339	Payroll and timekeeping clerks (4713)
216	Engineering technicians, n.e.c. (3719)	343	Billing clerks (4715)
217	Drafting occupations (372)	344	Cost and rate clerks (4716)
218	Surveying and mapping technicians (373)		Billing, posting, and calculating machine operators (4718)
<b>Science Technicians</b>			
223	Biological technicians (382)	345	Duplicating, Mail and Other Office Machine Operators
224	Chemical technicians (3831)	346	Duplicating machine operators (4722)
225	Science technicians, n.e.c. (3832, 3833, 384, 389)	347	Mail preparing and paper handling machine operators (4723)
			Office machine operators, n.e.c. (4729)
<b>Technicians; Except Health, Engineering, and Science</b>			
226	Airplane pilots and navigators (825)	348	Communications Equipment Operators
227	Air traffic controllers (392)	349	Telephone operators (4732)
228	Broadcast equipment operators (393)	353	Telegraphers (4733)
229	Computer programmers (3971, 3972)		Communications equipment operators, n.e.c. (4739)
233	Tool programmers, numerical control (3974)		
234	Legal assistants (396)	354	Mail and Message Distributing Occupations
235	Technicians, n.e.c. (399)	355	Postal clerks, exc. mail carriers (4742)
		356	Mail carriers, postal service (4743)
		357	Mail clerks, exc. postal service (4744)
			Messengers (4745)
<b>Sales Occupations</b>			
243	Supervisors and proprietors, sales occupations, (40)	359	Material Recording, Scheduling, and Distributing Clerks, n.e.c.
		363	Dispatchers (4751)
<b>Sales Representatives, Finance and Business Services</b>			
253	Insurance sales occupations (4122)	364	Production coordinators (4752)
254	Real estate sales occupations (4123)	365	Traffic, shipping, and receiving clerks (4753)
255	Securities and financial services sales occupations (4124)	366	Stock and inventory clerks (4754)
256	Advertising and related sales occupations (4153)	368	Meter readers (4755)
257	Sales occupations, other business services (4152)	369	Weighers, measurers, and checkers (4756)
		373	Samplers (4757)
		374	Expeditors (4758)
			Material recording, scheduling, and distributing clerks, n.e.c. (4759)
<b>Sales Representatives, Commodities Except Retail</b>			
258	Sales engineers (421)		
259	Sales representatives, mining, manufacturing, and wholesale (423, 424)	375	Adjusters and Investigators
		376	Insurance adjusters, examiners, and investigators (4782)
<b>Sales Workers, Retail and Personal Services</b>			
263	Sales workers, motor vehicles and boats (4342, 4344)	377	Investigators and adjusters, except insurance (4783)
264	Sales workers, apparel (4346)	378	Eligibility clerks, social welfare (4784)
265	Sales workers, shoes (4351)		Bill and account collectors (4786)
266	Sales workers, furniture and home furnishings (4348)		
267	Sales workers, radio, TV, hi-fi, and appliances (4343, 4352)	379	Miscellaneous Administrative Support Occupations
268	Sales workers, hardware and building supplies (4353)	383	General office clerks (463)
269	Sales workers, parts (4367)	384	Bank tellers (4791)
274	Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)	385	Proofreaders (4792)
		386	Data-entry keyers (4793)
275	Sales counter clerks (4363)	387	Statistical clerks (4794)
276	Cashiers (4364)	389	Teachers' aides (4795)
277	Street and door-to-door sales workers (4366)		Administrative support occupations, n.e.c. (4787, 4799)
278	News vendors (4365)		
<b>Sales Related Occupations</b>			
283	Demonstrators, promoters and models, sales (445)	403	Private Households Occupations
284	Auctioneers (447)	404	Laundrers and ironers (503)
285	Sales support occupations, n.e.c. (444, 446, 449)	405	Cooks, private household (504)
		406	Housekeepers and butlers (505)
		407	Child care workers, private household (506)
			Private household cleaners and servants (502, 507, 509)
<b>Administrative Support Occupations, Including Clerical</b>			
<b>Supervisors, Administrative Support Occupations</b>			
303	Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)	413	Protective Service Occupations
304	Supervisors, computer equipment operators (4512)	414	Supervisors, Protective Service Occupations
305	Supervisors, financial records processing (4521)	415	Supervisors, firefighting and fire prevention occupations (5111)
306	Chief communications operators (4523)		Supervisors, police and detectives (5112)
307	Supervisors, distribution, scheduling, and adjusting clerks (4522, 4524-4528)	416	Supervisors, guards (5113)
		417	
<b>Computer equipment operators</b>			
308	Computer operators (4612)		
309	Peripheral equipment operators (4613)	418	Firefighting and Fire Prevention Occupations
		423	Fire inspection and fire prevention occupations (5122)
		424	Firefighting occupations (5123)
<b>Secretaries, Stenographers and Typists</b>			
313	Secretaries (4622)	425	Police and Detectives
314	Stenographers (4623)	426	Police and detectives, public service (5132)
315	Typists (4624)	427	Sheriffs, bailiffs, and other law enforcement officers (5134)
			Correctional institution officers (5133)
<b>Information Clerks</b>			
316	Interviewers (4642)	425	Guards
317	Hotel clerks (4643)	426	Crossing guards (5142)
318	Transportation ticket and reservation agents (4644)	427	Guards and police, exc. public service (5144)
319	Receptionists (4645)		Protective service occupations, n.e.c. (5149)
323	Information clerks, n.e.c. (4649)	433	Service Occupations, Except Protective and Household
		434	Food Preparation and Service Occupations
<b>Records Processing Occupations, Except Financial</b>			
325	Classified-ad clerks (4662)	435	Supervisors, food preparation and service occupations (5211)
326	Correspondence clerks (4663)	436	Bartenders (5212)
327	Order clerks (4664)	437	Waiters and waitresses (5213)
328	Personnel clerks, except payroll and timekeeping (4692)	438	Cooks, except short order (5214)
329	Library clerks (4694)	439	Short-order cooks (5215)
335	File clerks (4696)	443	Food counter, fountain and related occupations (5216)
336	Records clerks (4699)	443	Kitchen workers, food preparation (5217)
		444	Waiters/waitresses' assistants (5218)
			Miscellaneous food preparation occupations (5219)

## SERVICE OCCUPATIONS



## Exhibit 2: Occupation Codes (continued)

## OPERATORS, FABRICATORS, AND LABORERS

	Machine Operators, Assemblers, and Inspectors		
	Machine Operators and Tenders, except Precision		
	Metalworking and Plastic Working Machine Operators		
703	Lathe and turning machine set-up operators (7312)	823	
704	Lathe and turning machine operators (7512)	824	
705	Milling and planing machine operators (7313, 7513)	825	
706	Punching and stamping press machine operators (7314, 7317, 7514, 7517)	826	
707	Rolling machine operators (7316, 7516)		
708	Drilling and boring machine operators (7318, 7518)	828	
709	Grinding, abrading, buffing, and polishing machine operators (7322, 7522, 7524, 7522)	829	
		833	
713	Forging machine operators (7319, 7519)	834	
714	Numerical control machine operators (7326)		
715	Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)		
717	Fabricating machine operators, n.e.c. (7339, 7539)	843	
	Metal and Plastic Processing Machine Operators	844	
719	Molding and casting machine operators (7315, 7342, 7515, 7542)	845	
723	Metal plating machine operators (7343, 7543)	848	
724	Heat treating equipment operators (7344, 7544)	849	
725	Miscellaneous metal and plastic processing machine operators (7349, 7549)	853	
		855	
		856	
		859	
	Woodworking Machine Operators		
726	Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)	863	
727	Sewing machine operators (7433, 7633)	864	
728	Shaping and joining machine operators (7435, 7635)		
729	Nailing and tacking machine operators (7636)	865	
733	Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)	866	
	Printing Machine Operators	867	
734	Printing machine operators (7443, 7643)	869	
735	Photoengravers and lithographers (6842, 7444, 7644)	873	
736	Typesetters and compositors (6841, 7642)		
737	Miscellaneous printing machine operators (6849, 7449, 7649)	875	
		876	
		877	
		878	
738	Textile, Apparel, and Furnishings Machine Operators	883	
739	Winding and twisting machine operators (7451, 7651)	885	
		887	
743	Knitting, looping, taping, and weaving machine operators (7452, 7652)	888	
744	Textile cutting machine operators (7654)	889	
745	Textile sewing machine operators (7653)		
747	Shoe machine operators (7656)	919	
748	Pressing machine operators (7657)		
749	Laundering and dry cleaning machine operators (6855, 7658)		
	Miscellaneous textile machine operators (7459, 7659)		
	Machine Operators, Assorted Materials		
753	Cementing and gluing machine operators (7661)		
754	Packaging and filling machine operators (7462, 7662)		
755	Extruding and forming machine operators (7463, 7663)		
756	Mixing and blending machine operators (7664)		
757	Separating, filtering, and clarifying machine operators (7476, 7666, 7676)		
758	Compressing and compacting machine operators (7467, 7667)		
759	Painting and paint spraying machine operators (7669)		
763	Roasting and baking machine operators, food (7472, 7672)		
764	Washing, cleaning, and pickling machine operators (7673)		
765	Folding machine operators (7474, 7674)		
766	Furnace, kiln, and oven operators, exc. food (7673)		
768	Crushing and grinding machine operators (pt 7477, pt 7677)		
769	Slicing and cutting machine operators (7478, 7678)		
773	Motion picture projectionists (pt 7479)		
774	Photographic process machine operators (6863, 6868, 7671)		
	Miscellaneous and not specified machine operators:		
777	Miscellaneous and not specified machine operators		
779	Machine operators, not specified		
	Fabricators, Assemblers, and Hand Working Occupations		
783	Welders and cutters (7332, 7532, 7714)		
784	Solderers and brazers (7333, 7533, 7717)		
785	Assemblers (772, 774)		
786	Hand cutting and trimming occupations (7753)		
787	Hand molding, casting, and forming occupations (7754, 7755)		
789	Hand painting, coating, and decorating occupations (7756)		
793	Hand engraving and printing occupations (7757)		
794	Hand grinding and polishing occupations (7758)		
795	Miscellaneous hand working occupations (7759)		
	Production Inspectors, Testers, Samplers, and Weighers		
796	Production inspectors, checkers, and examiners (782, 787)		
797	Production testers (783)		
798	Production samplers and weighers (784)		
799	Graders and sorters, exc. agricultural (785)		
	Transportation and Material Moving Occupations		
	Motor Vehicle Operators		
803	Supervisors, motor vehicle operators (8111)		
804	Truck drivers, heavy (8212, 8213)		
805	Truck drivers, light (8214)		
806	Driver-sales workers (8218)		
808	Bus drivers (8215)		
809	Taxicab drivers and chauffeurs (8216)		
813	Parking lot attendants (874)		
814	Motor transportation occupations, n.e.c. (8219)		
	Transportation Occupations, Except Motor Vehicles		
	Rail Transportation Occupations		
	Railroad conductors and yardmasters (8113)		
	Locomotive operating occupations (8232)		
	Railroad brake, signal, and switch operators (8233)		
	Rail vehicle operators, n.e.c. (8239)		
	Water Transportation Occupations		
	Ship captains and mates, except fishing boats (pt 8241, 8242)		
	Sailors and deckhands (8243)		
	Marine engineers (8244)		
	Bridge, lock, and lighthouse tenders (8245)		
	Material Moving Equipment Operators		
	Supervisors, material moving equipment operators (812)		
	Operating engineers (8312)		
	Longshore equipment operators (8313)		
	Hoist and winch operators (8314)		
	Crane and tower operators (8315)		
	Excavating and loading machine operators (8316)		
	Grader, dozer, and scraper operators (8317)		
	Industrial truck and tractor equipment operators (8318)		
	Miscellaneous material moving equipment operators (8319)		
	Handlers, Equipment Cleaners, Helpers, and Laborers		
	Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)		
	Helpers, mechanics and repairers (863)		
	Helpers, Construction and Extractive Occupations		
	Helpers, construction trades (8641-8645, 8648)		
	Helpers, surveyor (8646)		
	Helpers, extractive occupations (865)		
	Construction laborers (871)		
	Production helpers (861, 862)		
	Freight, Stock, and Material Handlers		
	Garbage collectors (8722)		
	Stevedores (8723)		
	Stock handlers and baggers (8724)		
	Machine feeders and orbearers (8725)		
	Freight, stock, and material handlers, n.e.c. (8726)		
	Garage and service station related occupations (873)		
	Vehicle washers and equipment cleaners (875)		
	Hand packers and packagers (8761)		
	Laborers, except construction (8769)		
	Unemployed, no civilian work experience since 1975		

## Exhibit 3: Industry Codes

(Numbers in parentheses are the 1972 SIC code equivalents; see Executive Office of the President, Office of Management and Budget, Standard Industrial Classification Manual, 1972 and the 1977 Supplement. "N.E.C." means not elsewhere classified.)

Code	Industry	Code	Industry
AGRICULTURE, FORESTRY, AND FISHERIES		MANUFACTURING--Continued	
010	Agricultural production, crops (01)	<u>Durable goods--Continued</u>	
011	Agricultural production, livestock (02)	280	Other primary metal industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, 3391)
020	Agricultural services, except horticultural (07, except 078)	281	Cutlery, handtools, and other hardware (342)
021	Horticultural services (078)	282	Fabricated structural metal products (344)
030	Forestry (08)	290	Screw machine products (345)
031	Fishing, hunting, and trapping (09)	291	Metal forgings and stampings (346)
MINING		292	Ordnance (348)
040	Metal mining (10)	300	Miscellaneous fabricated metal products (341, 343, 347, 349)
041	Coal mining (11, 12)	301	Not specified metal industries
042	Crude petroleum and natural gas extraction (13)	Machinery, except electrical	
050	Nonmetallic mining and quarrying, except fuel (14)	310	Engines and turbines (351)
CONSTRUCTION (15, 16, 17)		311	Farm machinery and equipment (352)
MANUFACTURING		312	Construction and material handling machines (353)
<u>Non-durable goods</u>		320	Metalworking machinery (354)
Food and kindred products		321	Office and accounting machines (357, except 3573)
100	Meat products (201)	322	Electronic computing equipment (3573)
101	Dairy products (202)	331	Machinery, except electrical, n.e.c. (355, 356, 358, 359)
102	Canned and preserved fruits and vegetables (203)	332	Not specified machinery
110	Grain mill products (204)	Electrical machinery, equipment, and supplies	
111	Bakery products (205)	340	Household appliances (363)
112	Sugar and confectionery products (206)	341	Radio, T.V., and communication equipment (365, 366)
120	Beverage industries (208)	342	Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
121	Miscellaneous food preparations and kindred products (207, 209)	350	Not specified electrical machinery, equipment, and supplies
122	Not specified food industries	Transportation equipment	
130	Tobacco manufactures (21)	351	Motor vehicles and motor vehicle equipment (371)
Textile mill products		352	Aircraft and parts (372)
132	Knitting mills (225)	360	Ship and boat building and repairing (373)
140	Dyeing and finishing textiles, except wool and knit goods (226)	361	Railroad locomotives and equipment (374)
141	Floor coverings, except hard surface (227)	362	Guided missiles, space vehicles, and parts (376)
142	Yarn, thread, and fabric mills (228, 221-224)	370	Cycles and miscellaneous transportation equipment (375, 379)
150	Miscellaneous textile mill products (229)	Professional and photographic equipment, and watches	
Apparel and other finished textile products		371	Scientific and controlling instruments (381, 382)
151	Apparel and accessories, except knit (231-238)	372	Optical and health services supplies (383, 384, 385)
152	Miscellaneous fabricated textile products (239)	380	Photographic equipment and supplies (386)
Paper and allied products		381	Watches, clocks, and clockwork operated devices (387)
160	Pulp, paper, and paperboard mills (261-263, 266)	382	Not specified professional equipment
161	Miscellaneous paper and pulp products (264)	390	Toys, amusement, and sporting goods (394)
162	Paperboard containers and boxes (265)	391	Miscellaneous manufacturing industries (39, except 394)
Printing, publishing, and allied industries		392	Not specified manufacturing industries
171	Newspaper publishing and printing (271)	TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	
172	Printing, publishing, and allied industries, except newspapers (272-279)	Transportation	
Chemicals and allied products		400	Railroads (40)
180	Plastics, synthetics, and resins (282)	401	Bus service and urban transit (41, except 412)
181	Drugs (283)	402	Taxicab service (412)
182	Soaps and cosmetics (284)	410	Trucking service (421, 423)
190	Paints, varnishes, and related products (285)	411	Warehousing and storage (422)
191	Agricultural chemicals (287)	412	U.S. Postal Service (43)
192	Industrial and miscellaneous chemicals (281, 286, 289)	420	Water transportation (44)
Petroleum and coal products		421	Air transportation (45)
200	Petroleum refining (291)	422	Pipelines, except natural gas (46)
201	Miscellaneous petroleum and coal products (295, 299)	432	Services incidental to transportation (47)
Rubber and miscellaneous plastics products		Communications	
210	Tires and inner tubes (301)	440	Radio and television broadcasting (483)
211	Other rubber products, and plastics footwear and belting (302-304, 306)	441	Telephone (wire and radio) (481)
212	Miscellaneous plastics products (307)	442	Telegraph and miscellaneous communication services (482, 489)
Leather and leather products		Utilities and sanitary services	
220	Leather tanning and finishing (311)	460	Electric light and power (491)
221	Footwear, except rubber and plastic (313, 314)	461	Gas and steam supply systems (492, 496)
222	Leather products, except footwear (315-317, 319)	462	Electric and gas, and other combinations (493)
<u>Durable goods</u>		470	Water supply and irrigation (494, 497)
Lumber and wood products, except furniture		471	Sanitary services (495)
230	Logging (241)	472	Not specified utilities
231	Sawmills, planing mills, and millwork (242, 243)	WHOLESALE TRADE	
232	Wood buildings and mobile homes (245)	<u>Durable goods</u>	
241	Miscellaneous wood products (244, 249)	500	Motor vehicles and equipment (501)
242	Furniture and fixtures (25)	501	Furniture and home furnishings (502)
Stone, clay, glass, and concrete products		502	Lumber and construction materials (503)
250	Glass and glass products (321-323)	510	Sporting goods, toys, and hobby goods (504)
251	Cement, concrete, gypsum, and plaster products (324, 327)	511	Metals and minerals, except petroleum (505)
252	Structural clay products (325)	512	Electrical goods (506)
261	Pottery and related products (326)	521	Hardware, plumbing and heating supplies (507)
262	Miscellaneous nonmetallic mineral and stone products (328, 329)	522	Not specified electrical and hardware products
Metal industries		530	Machinery, equipment, and supplies (508)
270	Blast furnaces, steelworks, rolling and finishing mills (331)	531	Scrap and waste materials (5093)
271	Iron and steel foundries (332)	532	Miscellaneous wholesale, durable goods (5094, 5099)
272	Primary aluminum industries (3334, part 334, 3353-3355, 3361)		

## Exhibit 3: Industry Codes (continued)

Code	Industry	Code	Industry
<u>Nondurable goods</u>		<u>ENTERTAINMENT AND RECREATION SERVICES</u>	
540	Paper and paper products (511)	800	Theaters and motion pictures (78, 792)
541	Drugs, chemicals, and allied products (512, 516)	801	Bowling alleys, billiard and pool parlors (793)
542	Apparel, fabrics, and notions (513)	802	Miscellaneous entertainment and recreation services (791, 794, 799)
550	Groceries and related products (514)	<u>PROFESSIONAL AND RELATED SERVICES</u>	
551	Farm products - raw materials (515)	812	Offices of physicians (801, 803)
552	Petroleum products (517)	820	Offices of dentists (802)
560	Alcoholic beverages (518)	821	Offices of chiropractors (8041)
561	Farm supplies (5191)	822	Offices of optometrists (8042)
562	Miscellaneous wholesale, nondurable goods (5194, 5198, 5199)	830	Offices of health practitioners, n.e.c. (8049)
571	Not specified wholesale trade	831	Hospitals (806)
<u>RETAIL TRADE</u>		832	Nursing and personal care facilities (805)
580	Lumber and building material retailing (521, 523)	840	Health services, n.e.c. (807, 808, 809)
581	Hardware stores (525)	841	Legal services (81)
582	Retail nurseries and garden stores (526)	842	Elementary and secondary schools (821)
590	Mobile home dealers (527)	850	Colleges and universities (822)
591	Department stores (531)	851	Business, trade, and vocational schools (824)
592	Variety stores (533)	852	Libraries (823)
600	Miscellaneous general merchandise stores (539)	860	Educational services, n.e.c. (829)
601	Grocery stores (541)	861	Job training and vocational rehabilitation services (833)
602	Dairy products stores (545)	862	Child day care services (835)
610	Retail bakeries (546)	870	Residential care facilities, without nursing (836)
611	Food stores, n.e.c. (542, 543, 544, 549)	871	Social services, n.e.c. (832, 839)
612	Motor vehicle dealers (551, 552)	872	Museums, art galleries, and zoos (84)
620	Auto and home supply stores (553)	880	Religious organizations (866)
621	Gasoline service stations (554)	881	Membership organizations (861-865, 869)
622	Miscellaneous vehicle dealers (555, 556, 557, 559)	882	Engineering, architectural, and surveying services (891)
630	Apparel and accessory stores, except shoe (56, except 566)	890	Accounting, auditing, and bookkeeping services (893)
631	Shoe stores (566)	891	Noncommercial educational and scientific research (892)
632	Furniture and home furnishings stores (571)	892	Miscellaneous professional and related services (899)
640	Household appliances, T.V., and radio stores (572, 573)	<u>PUBLIC ADMINISTRATION</u>	
641	Eating and drinking places (58)	900	Executive and legislative offices (911-913)
642	Drug stores (591)	901	General government, n.e.c. (919)
650	Liquor stores (592)	910	Justice, public order, and safety (92)
651	Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)	921	Public finance, taxation, and monetary policy (93)
652	Book and stationery stores (5942, 5943)	922	Administration of human resources programs (94)
660	Jewelry stores (5944)	930	Administration of environmental quality and housing programs (95)
661	Sewing, needlework, and piece goods stores (5949)	931	Administration of economic programs (96)
662	Mail order houses (5961)	932	National security and international affairs (97)
670	Vending machine operators (5962)	<u>EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY</u>	
671	Direct selling establishments (5963)	991	Last job Armed Forces <sup>1</sup>
672	Fuel and ice dealers (598)	992	Last worked 1974 or earlier <sup>2</sup>
681	Retail florists (5992)	<sup>1</sup> Code 991 represents people who were unemployed and whose last job was as a member of the Armed Forces.	
682	Miscellaneous retail stores (593, 5947, 5948, 5993, 5994, 5999)	<sup>2</sup> Code 992 represents people who were unemployed with previous work experience, but who have not worked in the five years preceding the census. The census questionnaires asked for information on the last industry for people who worked since 1975.	
691	Not specified retail trade		
<u>FINANCE, INSURANCE, AND REAL ESTATE</u>			
700	Banking (60)		
701	Savings and loan associations (612)		
702	Credit agencies, n.e.c. (61, except 612)		
710	Security, commodity brokerage, and investment companies (62, 67)		
711	Insurance (63, 64)		
712	Real estate, including real estate-insurance law offices (65,66)		
<u>BUSINESS AND REPAIR SERVICES</u>			
721	Advertising (731)		
722	Services to dwellings and other buildings (734)		
730	Commercial research, development, and testing labs (7391, 7397)		
731	Personnel supply services (736)		
732	Business management and consulting services (7392)		
740	Computer and data processing services (737)		
741	Detective and protective services (7393)		
742	Business services, n.e.c. (732, 733, 735, 7394, 7395, 7396, 7399)		
750	Automotive services, except repair (751, 752, 754)		
751	Automotive repair shops (753)		
752	Electrical repair shops (762, 7694)		
760	Miscellaneous repair services (763, 764, 7692, 7699)		
<u>PERSONAL SERVICES</u>			
761	Private households (88)		
762	Hotels and motels (701)		
770	Lodging places, except hotels and motels (702, 703, 704)		
771	Laundry, cleaning, and garment services (721)		
772	Beauty shops (723)		
780	Barber shops (724)		
781	Funeral service and crematories (726)		
782	Shoe repair shops (725)		
790	Dressmaking shops (part 729)		
791	Miscellaneous personal services (722, part 729)		

## Exhibit 4: Numerical List of Outlying Areas and Foreign Country Codes

<u>Code</u>	<u>Outlying Area/Foreign Country</u>	<u>Code</u>	<u>Foreign Country</u>
060	American Samoa	147	Madagascar
061	Canton & Enderbury Island	148	Malawi
062	Guam	149	Mauritius
063	Johnston Atoll	150	Mozambique
064	Midway Islands	151	Reunion
065	Northern Marianas Islands	152	Rwanda
066	Trust Territory of the Pacific Islands (n.e.c.)	153	Seychelles
067	Kosrae	154	Somalia
068	Marshall Islands	155	Zimbabwe
069	Palau	156	Uganda
070	Ponape	157	Tanzania
071	Truk	158	Zambia
072	Yap	160	North Africa (n.e.c.)
073	Miscellaneous Caribbean Islands	161	Algeria
074	Miscellaneous Pacific Islands	162	Egypt
075	Virgin Islands	163	Libya
076	St. Croix	164	Morocco
077	St. John	165	Sudan
078	St. Thomas	166	Tunisia
079	Wake Island	167	Western Sahara
080	United States Outlying Areas (n.e.c.)	170	Central Africa (n.e.c.)
081	Puerto Rico	171	Angola
110	Africa (n.e.c.)	172	Cameroon
120	Western Africa (n.e.c.)	173	Central African Republic
121	Benin	174	Chad
122	Cape Verde	175	Congo
123	Gambia	176	Equatorial Guinea
124	Ghana	177	Gabon
125	Guinea	178	Sao Tome & Principe
126	Guinea-Bissau	179	Zaire
127	Ivory Coast	180	Southern Africa (n.e.c.)
128	Liberia	181	Botswana
129	Mali	182	Lesotho
130	Mauritania	183	Namibia
131	Niger	184	South Africa
132	Nigeria	185	Swaziland
133	St. Helena	200	Antarctica (n.e.c.)
134	Senegal	201	Bouvet Islands
135	Sierra Leone	202	British Antarctic Territory
136	Togo	203	Dronning Maud Land
137	Upper Volta	204	French Southern Territory
140	Eastern Africa (n.e.c.)	205	Heard & McDonald Islands
141	British Indian Ocean Territory	300	North America (n.e.c.)
142	Burundi	301	Bermuda
143	Comoros	302	Canada
144	Djibouti	303	Greenland
145	Ethiopia	304	St. Pierre & Miquelon
146	Kenya	400 <sup>1</sup>	Latin America (n.e.c.)
		410	South America (n.e.c.)
		411	Argentina
		412	Bolivia

<sup>1</sup>If "South America" and "Central America" are only shown separately, then this code is tabulated with "South America".

## Exhibit 4: Numerical List of Outlying Areas and Foreign Country Codes (continued)

<u>Code</u>	<u>Foreign Country</u>	<u>Code</u>	<u>Foreign Country</u>
413	Brazil	470	French Caribbean (n.e.c.)
414	Chile	471	French St. Maarten
415	Colombia	472	Guadeloupe
416	Ecuador	473	Haiti
417	Falkland Islands	474	Martinique
418	French Guiana	475	St. Barthelemy
419	Guyana	476	Cuba
420	Paraguay	477	Dominican Republic
421	Peru	500	East Asia (n.e.c.)
422	Surinam	501	China
423	Uruguay	502	Hong Kong
424	Venequela	503	Japan
425	Central America (n.e.c.)	504	Korea (n.e.c.)
431	Belize	505	North Korea
432	Costa Rica	506	South Korea
433	El Salvador	507	Macau
434	Guatemala	508	Mongolia
435	Honduras	509	Taiwan
436	Mexico	600	South Asia (n.e.c.)
437	Nicaragua	610	Southwest Asia (n.e.c.)
438	Panama	611	Afghanistan
440	Caribbean (n.e.c.)	612	Bangladesh
441	British West Indies (n.e.c.)	613	Bhutan
442	Anguilla	614	India
443	Antigua-Barbuda	615	Iran
444	Bahamas	616	Maldives
445	Barbados	617	Nepal
446	British Virgin Islands (n.e.c.)	618	Pakistan
447	Anegada	619	Sri Lanka
448	Cooper	620	Southeast Asia (n.e.c.)
449	Jost Van Dyke	621	Brunei
450	Peter	622	Burma
451	Tortola	623	East Timor
452	Virgin Corda	624	Indonesia
453	Cayman Islands	625	Kampuchea
454	Dominica	626	Laos
455	Grenada	627	Malaysia
456	Jamaica	628	Philippines
457	Montserrat	629	Singapore
458	St. Kitts-Nevis	630	Thailand
459	St. Lucia	631	Vietnam
460	St. Vincent	640	Middle East (n.e.c.)
461	Trinidad & Tobago	641	Bahrain
462	Turks & Caicos Islands	642	Cyprus
463	Dutch Caribbean (n.e.c.)	643	Gaza Strip
464	Aruba	644	Iraq
465	Bonaire	645	Israel
466	Curacao	646	Jordan
467	Dutch St. Maarten	647	Kuwait
468	Saba	648	Lebanon
469	St. Eustatius	649	Neutral Zone

## Exhibit 4: Numerical List of Outlying Areas and Foreign Country Codes (continued)

<u>Code</u>	<u>Foreign Country</u>	<u>Code</u>	<u>Foreign Country</u>
650	Oman	766	Norway
651	Qatar	767	Sweden
652	Saudi Arabia	768	Svalbard & Jan Meyan Islands
653	Syria	769	United Kingdom (n.e.c.)
654	Turkey	770	Channel Islands
655	United Arab Emirates	771	England
656	Yemen	772	Isle of Man
657	Yemen, Democratic	773	Northern Ireland
690	Asia (n.e.c.)	774	Scotland
700	Europe (n.e.c.)	775	Wales
710	Western Europe (n.e.c.)	800	Oceania (n.e.c.)
711	Austria	810	Australia
712	Belgium	820	New Zealand
713	France	830	Melanesia (n.e.c.)
714	Liechtenstein	831	New Caledonia
715	Luxembourg	832	New Hebrides
716	Monaco	833	Norfolk Islands
717	Netherlands	834	Papua New Guinea
718	Switzerland	835	Solomon Islands
719 <sup>2</sup>	West Germany	840	Polynesia (n.e.c.)
720	Southern Europe (n.e.c.)	841	Cook Islands
721	Albania	842	Fiji
722	Andorra	843	French Polynesia
723	Gibraltar	844	Tonga
724	Greece	845	Wallis & Futuna Islands
725	Italy	846	Western Samoa
726	Malta	850	Micronesia (n.e.c.)
727	Portugal	851	Christmas Island
728	Azores Islands	852	Cocos Islands
729	Madeira Islands	853	Kiribati
730	San Marino	854	Nauru
731	Spain	855	Niue
732	Vatican City	856	Pitcairn Island
733	Yugoslavia	857	Tokelau
740	Eastern Europe (n.e.c.)	858	Tuvalu
741	Baltic States (n.e.c.)	900	Union of Soviet Socialist Republics (n.e.c.)
742	Estonia	901	Armenia
743	Latvia	902	Azerbaijan
744	Lithuania	903	Byelorussia
745	Bulgaria	904	Georgia (USSR)
746	Czechoslovakia	905	Kazakhstan
747 <sup>2</sup>	East Germany	906	Kirghizia
748	Hungary	907	Moldavia
749	Poland	908	Russian SFSR
750	Romania	909	Tadzhik
760	Northern Europe (n.e.c.)	910	Turkmenistan
761	Denmark	911	Ukraine
762	Faeroe Islands	912	Uzbekistan
763	Finland	996 <sup>3</sup>	Born Abroad, Country Not Specified
764	Iceland	997 <sup>3</sup>	Born At Sea
765	Ireland		

<sup>2</sup>Codes 719 and 747 are tabulated together as Germany.<sup>3</sup>Codes 996 and 997 are tabulated together as 'Country not reported'.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1565	LOT80	85N	Is This House/Apt On A Lot Of 10 Acres Or More In 1980 0 Group Quarters Or 2 Or More Units At Address 1 Yes 2 No 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 3
1566	ACRE80	85N	Size Of Lot Which House/Apartment Was On In 1980 0 Group Quarters 1 City Or Suburban Lot Or Less Than 1 Acre 2 1 To 9 Acres 3 10 Acres Or More 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1567	CROP80	85N	Farm Products Sales In 1979 0 Urban, City Or Suburban Lot, Less Than 1 Acre, Vacant Unit Or Group Quarters 1 \$0-\$49 2 \$50-\$249 3 \$250-\$599 4 \$600-\$999 5 \$1000-\$2499 6 \$2500 Or More 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1568	TEN80	85N	Tenure Status In 1980 0 Vacant Unit Or Group Quarters 1 Own Or Buying 2 Rent For Cash 3 No Cash Rent 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 3
1569	COND80	85N	House/Apartment Was Part Of A Condominium In 1980 0 Group Quarters 1 No 2 Yes 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 3
1570	BUIL80	85N	Year Structure Was Built (Refers To Unit At Address In 1980) 0 Group Quarters 1 1979 To March 1980 2 1975 To 1978 3 1970 To 1974 4 1960 To 1969 5 1950 To 1959 6 1940 To 1949 7 1939 Or Earlier 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1571	VAC80	85N	Vacancy Status In 1980 0 Occupied Or Group Quarters 1 Year Round 2 Seasonal Or Migratory 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 3
1572	VACR80	85N	Reason Why Unit Was Vacant In 1980 0 N/A (Occupied, Or Vacant Seasonal Or Migratory) 1 For Rent Or For Sale 2 For Sale Only 3 Rented Or Sold, Not Yet Occupied 4 Held For Occasional Use 5 Other Reason 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 3

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1573	MVAC80	85N	<p>Months This House Or Apartment Has Been Vacant In 1980</p> <p>0 Occupied, Group Quarters Or Vacant</p> <p>1 Less Than 1 Month</p> <p>2 1 Month Up To 2 Months</p> <p>3 2 Months Up To 6 Months</p> <p>4 6 Months Up To 12 Months</p> <p>5 1 Year To 2 Years</p> <p>6 2 Or More Years</p> <p>9 New Unit Or Not Found In 1980 Census</p> <p>Note: "Month" refers to any 4 week span of time: e.g. from the 16th of one month to the 16th of the next month, not the 1st to the 31st of a month.</p>	<u>85N</u> 3
1574	BOAR80	85N	<p>Unit Boarded Up In 1980</p> <p>0 Occupied, Group Quarters Or Vacant</p> <p>1 Yes</p> <p>2 No</p> <p>9 New Unit Or Not Found In 1980 Census</p>	<u>85N</u> 3
1575	URE80	85N	<p>Usual Residence Elsewhere (URE) In 1980</p> <p>0 No Or Group Quarters</p> <p>1 Yes</p> <p>9 New Unit Or Not Found In 1980 Census</p> <p>Note: URE units are treated in the same manner as Vacant Units in skip patterns.</p>	<u>85N</u> 3
1576	NUN280	85N	<p>Structural Type Classification In 1980</p> <p>00 Group Quarters</p> <p>1-9 1-9 Units In Building</p> <p>10 10 Or More Units In Building</p> <p>11 Mobile Home</p>	<u>85N</u> 3
1577	NUN80	85N	<p>No. Of Living Qrtrs In Structure Incl. Vacant Qrtrs In 1980</p> <p>0 Group Quarters</p> <p>1 Mobile Home--No Permanent Room</p> <p>2 1, Detached or Mobile Home With Room Added</p> <p>3 1, Attached</p> <p>4 2</p> <p>5 3 Or 4</p> <p>6 5 To 9</p> <p>7 10 To 19</p> <p>8 20 To 49</p> <p>9 50 Or More</p> <p>10 Boat, Tent, Van, Etc.</p> <p>99 New Unit Or Not Found In 1980 Census</p>	<u>85N</u> 4
1578	ACC80	85N	<p>Access To Unit In 1980</p> <p>0 Group Quarters</p> <p>1 Direct</p> <p>2 Through Another Unit</p> <p>9 New Unit Or Not Found In 1980 Census</p>	<u>85N</u> 3
1579	TYPE80	85N	<p>Type Of Group Quarters In 1980</p> <p>0 Housing Unit</p> <p>1 Home For The Aged</p> <p>2 Rooming House</p> <p>3 Other Group Quarters Or Non-Inmate Institutions</p> <p>9 New Unit Or Not Found In 1980 Census</p> <p>Note: The AHS does not collect information on housing characteristics of group quarters. The 1980 census does. (See discussion in Introduction to The Tenure, Building and Parking Section). Data items for group quarters are available on the 1985 National File for units which were in Group Quarters in 1980 and became housing units in 1985.</p>	<u>85N</u> G
1580	ELEV80	85N	<p>Passenger Elevator In Building In 1980</p> <p>0 Group Quarters Or 1 To 3 Stories</p> <p>1 Yes</p> <p>2 No</p> <p>9 New Unit Or Not Found In 1980 Census</p>	<u>85N</u> 4

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1581	FLOR80	85N	<b>Stories In Building In 1980</b> 0 Group Quarters 1 One To Three 2 Four To Six 3 Seven To Twelve 4 Thirteen Or More 9 New Unit Or Not Found In 1980 census Note: An attic or basement is counted as a story if it has any finished rooms for living purposes.	<u>85N</u> 4
1582	SHOP80	85N	<b>Commercial Or Medical Establishment On Property In 1980</b> 0 Group Quarters, 2 Or More Units, or Mobile Home 1 Yes 2 No 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 3
1583	CARS80	85N	<b>No. Of Hhld Cars Incl. Co. Owned Vehicles In 1980</b>	<u>85N</u> 4
1584	TRUC80	85N	<b>No. Of Hhld Trucks &amp; Vans Incl. Co. Owned Vehicles In 1980</b> 0 Vacant Unit Or Group Quarters 1 None 2 One 3 Two 4 Three Or More 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1585	ROOM80	85N	<b>Number Of Rooms In House Or Apartment In 1980</b> 0 Group Quarters 1-8 0 To 8 Rooms 9 9 Or More Rooms 99 New Unit Or Not Found In 1980 Census	<u>85N</u> 3
1586	BEDR80	85N	<b>Number Of Rooms Used Mainly For Sleeping In 1980</b> 0 Group Quarters 1-5 0 To 4 Bedrooms 6 5 Or More Bedrooms 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1587	BATH80	85N	<b>Number Of Bathrooms In 1980</b> 0 Group Quarters 1 None 2 One Full Bath 3 One Full Bath, Plus 1 Or More Half Baths 4 Two Or More Full Baths 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1588	KITC80	85N	<b>Complete Kitchen Facilities In 1980</b>	<u>85N</u> 4
1589	PHON80		<b>Telephone In House Or Apartment In 1980</b> 0 Group Quarters Or Vacant Unit 1 Yes 2 No 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1590	PLUM80	85N	<b>Complete Plumbing Facilities In 1980</b> 0 Group Quarters 1 Complete, Exclusive Use 2 Complete, Shared 3 Some Plumbing Facilities Only 4 No Plumbing Facilities 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 3
1591	WAT80	85N	<b>Water Source In 1980</b> 0 Group Quarters 1 Public Or Private System 2 Individual Drilled Well 3 Individual Dug Well 4 Other Source 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1592	SEW80	85N	Means Of Sewage Disposal In 1980 0 Group Quarters 1 Public Sewer 2 Septic Tank/Cesspool 3 Other 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1593	AIR80	85N	Air Conditioning Present In 1980 0 Group Quarters 1 Yes, Central AC 2 Yes, One Room Unit 3 Yes, Two Or More Room Units 4 No 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1594	HEQ80	85N	Main Type Of Heating Equipment Used In 1980 0 Group Quarters 1 Steam Or Hot Water/Hot Air 2 Central Warm-Air Furnace 3 Electric Heat Pump 4 Other Built-In Electric Units 5 Floor, Wall, Or Pipeless Furnace 6 Room Heaters With Vent Or Flu Burning Gas, Oil Or Kerosene 7 Room Heaters Without Vent Or Flu Burning Gas, Oil Or Kerosene 8 Fireplaces, Stoves, Or Portable Room Heaters 9 No Heating Equipment 99 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1595	REL80	85N	Relationship To Ref Person In 1980 0 Reference Person 99 Vacant Unit, New Unit Or Not Found In 1980 Census	<u>85N</u> 2
1596	RL280	85N	Relationship To Ref Person Of Person 2 In 1980	<u>85N</u> 2
1597	RL380		Relationship To Ref Person Of Person 3 In 1980	2
1598	RL480		Relationship To Ref Person Of Person 4 In 1980	2
1599	RL580		Relationship To Ref Person Of Person 5 In 1980	2
1600	RL680		Relationship To Ref Person Of Person 6 In 1980	2
1601	RL780		Relationship To Ref Person Of Person 7 In 1980	3
1602	RL880		Relationship To Ref Person Of Person 8 In 1980	++
1603	RL980		Relationship To Ref Person Of Person 9 In 1980	++
1604	RL1080		Relationship To Ref Person Of Person 10 In 1980	++
1605	RL1180		Relationship To Ref Person Of Person 11 In 1980	++
1606	RL1280		Relationship To Ref Person Of Person 12 In 1980	++
1607	RL1380		Relationship To Ref Person Of Person 13 In 1980	++
1608	RL1480		Relationship To Ref Person Of Person 14 In 1980	++
1609	RL1580		Relationship To Ref Person Of Person 15 In 1980 1 Spouse 2 Child 3 Brother Or Sister 4 Parent 5 Son-In-Law Or Daughter 6 Grandchild 7 Father-In-Law Or Mother-In-Law 8 Brother-In-Law Or Sister-In-Law 9 Nephew Or Niece 10 Grandparent 11 Uncle Or Aunt 12 Cousin 13 Other Relative 14 Roomer Or Boarder 15 Partner Or Roommate 16 Paid Employee 17 Other Non-Relative 18 Inmate In Institution 19 Non-Inmate In Institution 20 Relatives Other Than Codes 1-4 (from short form, which does not distinguish codes 5-12) 99 Not Present, Vacant, New Unit Or Not Found In 1980 Census	++

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1610	NSUB80	85N	Number Of Subfamilies In Household In 1980 0 None, Vacant Unit Or Group Quarters 1-4 1-4 Subfamilies 9 New Unit Or Not Found In 1980 Census	85N G
1611	S280	85N	Subfamily Number To Which Person 2 Belongs In 1980	85N G
1612	S380		Subfamily Number To Which Person 3 Belongs In 1980	G
1613	S480		Subfamily Number To Which Person 4 Belongs In 1980	G
1614	S580		Subfamily Number To Which Person 5 Belongs In 1980	G
1615	S680		Subfamily Number To Which Person 6 Belongs In 1980	G
1616	S780		Subfamily Number To Which Person 7 Belongs In 1980	G
1617	S880		Subfamily Number To Which Person 8 Belongs In 1980	G
1618	S980		Subfamily Number To Which Person 9 Belongs In 1980	G
1619	S1080		Subfamily Number To Which Person 10 Belongs In 1980	G
1620	S1180		Subfamily Number To Which Person 11 Belongs In 1980	G
1621	S1280		Subfamily Number To Which Person 12 Belongs In 1980	G
1622	S1380		Subfamily Number To Which Person 13 Belongs In 1980	G
1623	S1480		Subfamily Number To Which Person 14 Belongs In 1980	G
1624	S1580		Subfamily Number To Which Person 15 Belongs In 1980 0 Group Quarters Or Not In Subfamily 1-4 Subfamily Number 9 Vacant Unit, New Unit Or Not Found In 1980 Census	G
1625	SR280	85N	Relationship Of Person 2 To Subfamily Head In 1980	85N G
1626	SR380		Relationship Of Person 3 To Subfamily Head In 1980	G
1627	SR480		Relationship Of Person 4 To Subfamily Head In 1980	G
1628	SR580		Relationship Of Person 5 To Subfamily Head In 1980	G
1629	SR680		Relationship Of Person 6 To Subfamily Head In 1980	G
1630	SR780		Relationship Of Person 7 To Subfamily Head In 1980	G
1631	SR880		Relationship Of Person 8 To Subfamily Head In 1980	G
1632	SR980		Relationship Of Person 9 To Subfamily Head In 1980	G
1633	SR1080		Relationship Of Person 10 To Subfamily Head In 1980	G
1634	SR1180		Relationship Of Person 11 To Subfamily Head In 1980	G
1635	SR1280		Relationship Of Person 12 To Subfamily Head In 1980	G
1636	SR1380		Relationship Of Person 13 To Subfamily Head In 1980	G
1637	SR1480		Relationship Of Person 14 To Subfamily Head In 1980	G
1638	SR1580		Relationship Of Person 15 To Subfamily Head In 1980 0 Group Quarters Or Not In Subfamily 1 Spouse, If Head And Spouse Are Present 2 Parent, If One Parent Only Is Present 3 Child 9 Vacant Unit, New Unit Or Not Found In 1980 Census	G
1639	AGE80	85N	Age Of Ref Person In 1980	85N 2
1640	AG280		Age Of Person 2 In 1980	2
1641	AG380		Age Of Person 3 In 1980	2
1642	AG480		Age Of Person 4 In 1980	2
1643	AG580		Age Of Person 5 In 1980	2
1644	AG680		Age Of Person 6 In 1980	2
1645	AG780		Age Of Person 7 In 1980	3
1646	AG880		Age Of Person 8 In 1980	++
1647	AG980		Age Of Person 9 In 1980	++
1648	AG1080		Age Of Person 10 In 1980	++
1649	AG1180		Age Of Person 11 In 1980	++
1650	AG1280		Age Of Person 12 In 1980	++
1651	AG1380		Age Of Person 13 In 1980	++
1652	AG1480		Age Of Person 14 In 1980	++
1653	AG1580		Age Of Person 15 In 1980 0 Less Than 1 Year 1-89 1-89 Years 90 90 Years Or More 99 Not Present, Vacant Unit, New Unit Or Not Found In 1980 Census	++

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>85N</u>
1654	SEX80	85N	Sex Of Ref Person In 1980	2
1655	SX280		Sex Of Person 2 In 1980	2
1656	SX380		Sex Of Person 3 In 1980	2
1657	SX480		Sex Of Person 4 In 1980	2
1658	SX580		Sex Of Person 5 In 1980	2
1659	SX680		Sex Of Person 6 In 1980	2
1660	SX780		Sex Of Person 7 In 1980	3
1661	SX880		Sex Of Person 8 In 1980	++
1662	SX980		Sex Of Person 9 In 1980	++
1663	SX1080		Sex Of Person 10 In 1980	++
1664	SX1180		Sex Of Person 11 In 1980	++
1665	SX1280		Sex Of Person 12 In 1980	++
1666	SX1380		Sex Of Person 13 In 1980	++
1667	SX1480		Sex Of Person 14 In 1980	++
1668	SX1580		Sex Of Person 15 In 1980	++
			0 Male	
			1 Female	
			9 Not Present, Vacant Unit, New Unit Or Not Found In 1980 Census	
				<u>85N</u>
1669	MAR80	85N	Marital Status Of Ref Person In 1980	2
1670	MR280		Marital Status Of Person 2 In 1980	2
1671	MR380		Marital Status Of Person 3 In 1980	2
1672	MR480		Marital Status Of Person 4 In 1980	2
1673	MR580		Marital Status Of Person 5 In 1980	2
1674	MR680		Marital Status Of Person 6 In 1980	2
1675	MR780		Marital Status Of Person 7 In 1980	3
1676	MR880		Marital Status Of Person 8 In 1980	++
1677	MR980		Marital Status Of Person 9 In 1980	++
1678	MR1080		Marital Status Of Person 10 In 1980	++
1679	MR1180		Marital Status Of Person 11 In 1980	++
1680	MR1280		Marital Status Of Person 12 In 1980	++
1681	MR1380		Marital Status Of Person 13 In 1980	++
1682	MR1480		Marital Status Of Person 14 In 1980	++
1683	MR1580		Marital Status Of Person 15 In 1980	++
			0 Married	
			1 Widowed	
			2 Divorced	
			3 Separated	
			4 Never Married Or Age 0-15	
			9 Not Present, Vacant Unit, New Unit Or Not Found In 1980 Census	
				<u>85N</u>
1684	RACE80	85N	Race Of Ref Person In 1980	2
			1 White	
			2 Black	
			3 American Indian, Eskimo, Aleut Asian Or Pacific Islander	
			4 Japanese	
			5 Chinese	
			6 Filipino	
			7 Korean	
			8 Asian Indian	
			9 Vietnamese	
			10 Hawaiian	
			11 Other Asian And Pacific Islander Including Guamanian And Samoan	
			12 Spanish	
			13 Other	
			99 Vacant Unit, New Unit Or Not Found In 1980 Census	
			Note: The variable RACE80 is coded 12 (Spanish) if the respondent indicated "Spanish" in the space provided to record race. In a separate question, the respondent is asked to indicate Spanish origin (See SPAN80 below). This variable is more reliable to identify reference persons of spanish origin. On the few short forms, household code 11 only covers Guam and Samoa, code 12 is not present, and the respective households are coded 13.	
				<u>85N</u>
1685	SPAN80	85N	Spanish Origin Of Ref Person In 1980	2
			0 Not Hispanic Or Spanish American	
			1 Mexican	
			2 Puerto Rican	
			3 Cuban	
			4 Other Spanish	
			9 Vacant Unit, New Unit Or Not Found In 1980 Census	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1686	NAME80	85N	Ref Person Has Spanish Surname In 1980 0 Not In Arizona, California, Colorado, New Mexico Or Texas 1 Yes 2 No 3 Not Reported 9 Vacant Unit, New Unit Or Not Found In 1980 Census	<u>85N</u> 6
1687	FANC80	85N	First Ancestry Of Ref Person In 1980	<u>85N</u> 6
1688	FAN280	85N	First Ancestry Of Spouse Or 2nd Adult In 1980	8
1689	SANC80		2nd Ancestry Of Ref Person In 1980	6
1690	SAN280		2nd Ancestry Of Spouse Or Second Adult In 1980 1-998 See Codes In Exhibit 1 at the end of section 999 Vacant Unit, New Unit Or Not Found In 1980 Census, No 2nd Adult Present Or No 2nd Ancestry Reported Note: The classification of First Ancestry and 2nd Ancestry is determined by the order in which the respondent wrote the answer to the question.	8
1691	ENG80	85N	Ref Person Speaks English In 1980	<u>85N</u> 6
1692	ENG280		Spouse Or 2nd Adult Speaks English In 1980 0 Speaks Only English 1 Very Well 2 Well 3 Not Well 4 Not At All 9 Vacant Unit, New Unit Or Not Found In 1980 Census Or 2nd Adult Not Present	8
1693	GRAD80	85N	Highest School Grade Attended By Ref Person In 1980	<u>85N</u> 2
1694	GRA280		Highest School Grade Attended By Spouse Or 2nd Adult In 1980 0 Never Attended School 1 Nursery School 2 Kindergarten 3-14 Grade 1- Grade 14 15-18 1-4 Years Of College 19-21 1-3 Years Of Graduate School 22 4 Or More Years Of Graduate School 99 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	2
1695	FGR80	85N	Ref Person Finished Highest Grade Attended In 1980	<u>85N</u> 2
1696	FGR280		Spouse Or 2nd Adult Finished Highest Grade Attended In 1980 0 Never Attended School 1 Currently Attending 2 Yes 3 No 9 Vacant Unit, New Unit Or Not Found In 1980 Census Or 2nd Adult Not Present	2

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1697	SCH80	85N	Hhld Members Under 18 Enrolled In Schools In 1980 0 No children 5-16 enrolled in school 1 All Children in Public Schools except 5-6 Year Olds Not Yet Enrolled 2 All Children in Parochial Schools except 5-6 Year Olds Not Yet Enrolled 3 All Children in Other Private Schools except 5-6 Year Olds Not Yet Enrolled 4 All Children in Parochial or Other Private Schools except 5-6 Year Olds Not Yet Enrolled 5 All Children in Public or Parochial Schools except 5-6 Year Olds Not Yet Enrolled 6 All Children in Public or Other Private Schools except 5-6 Year Olds Not Yet Enrolled 7 All Children in All Three Types of Schools except 5-6 Year Olds Not Yet Enrolled 8 Some Children 7-16 Not Enrolled in School 9 No Hhld Members 5-16, Vacant Unit, New Unit Or Not Found In 1980 Census	<u>85N</u> 2
1698	PER80	85N	Number Of Persons In Household In 1980 0 Vacant Unit 1-31 1-31 Persons In Household 99 New Unit Or Not Found In 1980 Census	<u>85N</u> G
1699	ZCOM80	85N	Recoded Household Type In 1980 0 Vacant Unit Or Group Quarters 1 Reference Person And Spouse Present 2 Male Reference Person, No Spouse Present, Other Relative Present 3 Female Reference Person, No Spouse Present, Other Relative Present 4 No One Related To Reference Person 5 New Unit Or Not Found In 1980 Census	<u>85N</u> G
1700	ZKID80	85N	Children Of Ref Person In Household In 1980 0 Vacant Unit, Group Quarters Or No One Related To Reference Person 1 Children Under 6 Years Only 2 Children 6 To 17 Years Only 3 Both 4 No Children 9 New Unit Or Not Found In 1980 Census	<u>85N</u> G
1701	KIDS80	85N	No. Of Children Conceived By Ref Person Or Spouse In 1980 0 Male Reference Person And No Wife Present, Or Reference Person/Wife Under 15 Years 1 None 2-12 1-11 Children 13 12 Or More Children 99 Vacant Unit, New Unit Or Not Found In 1980 Census	<u>85N</u> 6
1702	ZINC80	85N	Income Of Ref Person And Related Hhld Mbrs (1979)	<u>85N</u> G
1703	ZIN280		Income Of All Hhld Members Incl. Non-Relatives (1979) 0 Vacant Unit, Group Quarters, Or Zero Income -9995 Loss Of \$9990 Or More -9985-74995 Income Or Loss In Dollars 75000 \$75,000 Or More 99999 New Unit Or Not Found In 1980 Census Note: Income amounts are recoded using midpoint of \$10 interval.	G
1704	SAL80	85N	Annual Salary, Wages, Tips, Commissions (1979)-Ref Person	<u>85N</u> 7
1705	SAL280		Annual Salary, Wages, Tips, Commissions (1979)-Spouse/2nd Adult	9
1706	VSS80		Social Security Or Railroad Retirement (1979)-Ref Person	7
1707	VSS280		Social Security Or Railroad Retirement (1979)-Spouse/2nd Adult	9
1708	VWEL80		Welfare Or Public Assistance (Incl. SSI)-Ref Person	7
1709	VWE280		Welfare Or Public Assistance (Incl. SSI)-Spouse Or 2nd Adult 0 None Or Under 16 Years Old 5-49995 Income In Dollars 50000 \$50,000 Or More	9

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>85N</u>
1710	PBUS80	85N	Earnings From Business Or Prof Prac(1979)-Ref. Person	7
1711	PBU280		Earnings From Business Or Prof Prac(1979)-Spouse/2nd Adult	9
1712	PFAR80		Earnings From Farm(1979)--Ref. Person	7
1713	PFA280		Earnings From Farm(1979)--Spouse Or 2nd Adult	9
1714	VDIV80		Int, Div, Royalties Or Net Rental Income(1979)--Ref. Pers	7
1715	VDI280		Int, Div, Royalties,Net Rental Income(1979)--Spouse/2nd Adult	9
1716	VOTH80		Income From All Other Sources--Ref. Person	7
1717	VOT280		Income From All Other Sources--Spouse Or 2nd Adult	9
			0 None Or Under 16 Years Old	
			-9995 Loss Of \$9990 Or More	
			-9985-74995 Income In Dollars	
			75000 \$75,000 Or More	
			Note: Income From All Other Sources includes Unemployment Compensation, Veterans' payments, pensions or other than Social Security and Railroad Retirement, alimony or child support or any other income received regularly. It does not include Lump Sum Payments. (See Introduction to the Income Section for a discussion of Income Sources.)	
				<u>85N</u>
1718	HFUE80	85N	Fuel Used Most For Heating In 1980	4
1719	WFUE80		Fuel Used Most For Water Heating In 1980	4
1720	CFUE80		Fuel Used Most For Cooking In 1980	4
			0 Vacant Unit Or Group Quarters	
			1 Gas From Underground Pipes	
			2 Gas LP, Bottled Or Tank	
			3 Electricity	
			4 Fuel Oil, Kerosene Or Other Liquid Fuel	
			5 Coal Or Coke	
			6 Wood	
			7 Other Fuel	
			8 No Fuel Used	
			9 New Unit, Or Not Found In 1980 Census	
				<u>85N</u>
1721	AMTE80	85N	Average Monthly Cost Of Electricity In 1980	4
			0 Vacant Unit, Group Quarters Or No Payment	
			1-199 \$1-\$199	
			200 \$200 Or More	
			201 Included in Rent	
			202 Not Used or No Charge	
			999 New Unit Or Not Found In 1980 Census	
				<u>85N</u>
1722	AMTG80	85N	Average Monthly Cost Of Gas In 1980	4
			0 Vacant Unit, Group Quarters Or No Payment	
			1-149 \$1-\$149	
			150 \$150 Or More	
			156 Included in Rent	
			157 Not Used or No Charge	
			999 New Unit Or Not Found In 1980 Census	
				<u>85N</u>
1723	AMT080	85N	Yearly Cost Of Oil, Coal, Kerosene, Wood, Etc. In 1980	4
			0 Vacant Unit, Group Quarters Or No Payment	
			1-1999 \$1-\$1999	
			2000 \$2000 Or More	
			2001 Included in Rent	
			2002 Not Used or No Charge	
			9999 New Unit Or Not Found In 1980 Census	
				<u>85N</u>
1724	AMTW80	85N	Yearly Cost Of Water And Sewage In 1980	4
			0 Vacant Unit	
			1-499 \$1-\$499	
			500 \$500 Or More	
			600 Not Included or No Charge	
			999 New Unit Or Not Found In 1980 Census	
				<u>85N</u>
1725	ZSHM80	85N	Monthly Ownership Costs In 1980	G
			0 Vacant Unit, Group Quarters Or Not Applicable (See Table In Introduction To This Section)	
			1-1999 \$1-\$1999	
			2000 \$2000 Or More	
			9999 New Unit Or Not Found In 1980 Census	

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1726	VALU80	85N	Property Value In 1980	<u>85N</u> 3
			00 Group Quarters, Vacant Unit (except vacant for sale), Renter-Occupied Or Selected Owner-Occupied Units (See Table In Introduction To This Section).	
			01 Less Than \$10,000	
			02 \$10,000 To \$14,999	
			03 \$15,000 To \$17,499	
			04 \$17,500 To \$19,999	
			05 \$20,000 To \$22,499	
			06 \$22,500 To \$24,999	
			07 \$25,000 To \$27,499	
			08 \$27,500 To \$29,999	
			09 \$30,000 To \$34,999	
			10 \$35,000 To \$39,999	
			11 \$40,000 To \$44,999	
			12 \$45,000 To \$49,999	
			13 \$50,000 To \$54,999	
			14 \$55,000 To \$59,999	
			15 \$60,000 To \$64,999	
			16 \$65,000 To \$69,999	
			17 \$70,000 To \$74,999	
			18 \$75,000 To \$79,999	
			19 \$80,000 To \$89,999	
			20 \$90,000 To \$99,999	
			21 \$100,000 To \$124,999	
			22 \$125,000 To \$149,999	
			23 \$150,000 To \$199,999	
			24 \$200,000 Or More	
			99 New Unit Or Not Found In 1980 Census	
1727	MORT80	85N	Mortgage Or Other Secured Loan On Property In 1980	<u>85N</u> 5
			0 Vacant Unit, Group Quarters Or Selected Owner-Occupied Units (See Table)	
			1 Mortgage	
			2 Contract To Purchase	
			3 Own Free And Clear	
			9 New Unit Or Not Found In 1980 Census	
1728	SMOR80	85N	2nd Or Junior Mortgage On Property In 1980	<u>85N</u> 5
1729	TXIN80		Real Estate Taxes Incl. In Mortgage/Contract Payment In 1980	5
1730	INS80		Fire/hazard Ins. Incl. In Mortgage/Contract Payment In 1980	5
			0 Vacant Unit, Group Quarters, No Mortgage Or Selected Owner-Occupied Units (See Table)	
			1 Yes	
			2 No	
			9 New Unit Or Not Found In 1980 Census	
1731	AMTT80	85N	Yearly Cost Of Real Estate Taxes And Fire/Hazard Ins In 1980	<u>85N</u> 5
			0 Vacant Unit, Group Quarters, No Payment Or Selected Owner-Occupied Units (See Table)	
			1-2999 \$1-\$2999	
			3000 \$3000 Or More	
			9999 New Unit Or Not Found In 1980 Census	
1732	ZREN80	85N	Recoded Gross Rent (Contract Rent Plus Utilities) In 1980	<u>85N</u> G
			0 No Cash Rent, Vacant Unit, Group Quarters, Owner-Occupied Or 1-Unit Structure On More Than 10 Acres	
			1-998 \$1-\$998	
			999 \$999 Or More	
			9999 New Unit Or Not Found In 1980 Census	
			Note: Gross Rent is obtained by taking the midpoint of the Contract Rent Category reported by the respondent (See RENT80 below) and adding all utilities paid separately.	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1733	RENT80	85N	<b>Monthly Contract Rent In 1980</b> 0 Vacant Unit (Except Vacant For Rent), Group Quarters, Owner-Occupied Or 1-Unit Structure On More Than 10 Acres 1 Less Than \$50 2 \$50 To \$59 3 \$60 To \$69 4 \$70 To \$79 5 \$80 To \$89 6 \$90 To \$99 7 \$100 To \$109 8 \$110 To \$119 9 \$120 To \$129 10 \$130 To \$139 11 \$140 To \$149 12 \$150 To \$159 13 \$160 To \$169 14 \$170 To \$179 15 \$180 To \$189 16 \$190 To \$199 17 \$200 To \$224 18 \$225 To \$249 19 \$250 To \$274 20 \$275 To \$299 21 \$300 To \$349 22 \$350 To \$399 23 \$400 To \$499 24 \$500 Or More 25 No Cash Rent 99 New Unit Or Not Found In 1980 Census	<u>85N</u> 3
1734	MOVE80	85N	<b>Year Ref Person Moved In (1980 Census Questionnaire)</b> 0 Group Quarters Or Vacant Unit 1 1979 To March 1980 2 1975 To 1978 3 1970 To 1974 4 1960 To 1969 5 1950 To 1959 6 1949 Or Earlier 9 New Unit Or Not Found In 1980 Census	<u>85N</u> 4
1735	STBR80	85N	<b>Place Of Birth Of Ref Person In 1980</b>	<u>85N</u> 6
1736	STB280		<b>Place Of Birth Of Spouse Or 2nd Adult In 1980</b> 1-56 State Code (See Variable STBRN1 In The Past And Future Home Section) 60-997 Foreign Country Code (See Exhibit 4 at the end of section) 999 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Person Not Present	8
1737	CITZ80	85N	<b>Citizenship Of Ref Person In 1980</b>	<u>85N</u> 6
1738	CIT280		<b>Citizenship Of Spouse Or 2nd Adult In 1980</b> 0 Born In United States Or Outlying Areas 1 Naturalized Citizen 2 Not A Citizen 3 Born Abroad Of American Parents 9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Person Not Present	8
1739	IMMI80	85N	<b>Year Of Immigration (Ref Person) In 1980</b> 0 Born In US Or Abroad From American Parents 1 1975 To 1980 2 1970 To 1974 3 1965 To 1969 4 1960 To 1964 5 1950 To 1959 6 Before 1950 9 Vacant Unit Or New Unit Or Not Found In 1980 Census	<u>85N</u> 6

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1740	LOC80	85N	In 1975, Ref Person Lived	<u>85N</u> 6
1741	LOC280		If 1975, Spouse Or 2nd Adult Lived In	8
			0 C Sample (See Introduction), Not Part Of Migration Sample Or Born April 1975 Or Later	
			1 In Same House/Apartment	
			2 In Same SMSA, Central City	
			3 In Same SMSA, Outside Central City	
			4 In Different SMSA, Central City	
			5 In Different SMSA, Outside Central City	
			6 Outside SMSA, Or Abroad (In SMSA In 1980)	
			7 In SMSA, Central City (Outside SMSA In 1980)	
			8 In SMSA, Outside Central City (Outside SMSA In 1980)	
			9 Outside SMSA Or Abroad (Outside SMSA In 1980)	
			10 Lives In A Mixed Metro/Non-Metro Area In 1980	
			99 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Person Not Present	
			Note: In the A Sample, some Small Metropolitan Areas were combined with nearby non-metropolitan Areas. These cases are coded 10.	
1742	ZLAB80	85N	Recoded Labor Force Status-Ref Person In 1980	<u>85N</u> G
1743	ZLA280		Recoded Labor Force Status-Spouse Or 2nd Adult In 1980	G
			0 Under 16 Years Old	
			1 Civilian, At Work	
			2 Civilian, Not At Work (Layoff, Vacation, Temporary Illness, Job Not Yet Started)	
			3 Unemployed	
			4 In Armed Forces, At Work	
			5 In Armed Forces, Not At Work (Layoff, Vacation, Temporary Illness, Job Not Started)	
			6 Not In Labor Force (Student, Volunteer, Housework, Unpaid Worker In Family Business)	
			9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Person Not Present	
1744	LYRW80	85N	Year Ref Person Last Worked	<u>85N</u> 7
1745	LYR280		Year Spouse Or 2nd Adult Last Worked	9
			0 Under 16 Years Old	
			1 1980	
			2 1979	
			3 1978	
			4 1975-77	
			5 1970-1974	
			6 1969 Or Earlier	
			7 Never Worked	
			9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1746	OCC80	85N	Occupation Of Ref Person In 1980	<u>85N</u> 7
1747	OCC280		Occupation Of Spouse Or 2nd Adult In 1980	9
			0 Under 16 Years Old, In Armed Forces, Not In Labor Force, Did Not Work After 1974 Or Never Worked	
			3-909 Occupation Code (See Exhibit 2 at end of section)	
			999 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Person Not Present	
1748	IND80	85N	Type Of Business Or Industry (Ref. Person) In 1980	<u>85N</u> 7
1749	IND280		Type Of Business Or Industry (Spouse Or 2nd Adult)	9
			0 Under 16 Years Old, In Armed Forces, Not In Labor Force, Did Not Work After 1974 Or Never Worked	
			10-992 Industry Code (See Exhibit 3 at end of section)	
			999 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Person Not Present	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
1750	EMPL80	85N	Type Of Employment (Ref. Person) In 1980	85N 7
1751	EMP280		Type Of Employment (Spouse Or 2nd Adult)	9
			0 Under 16 Years Old, Did Not Work After 1974 Or Never Worked	
			1 Private Company	
			2 Federal Government	
			3 State Government	
			4 Local Government	
			5 Self-Employed (Not Incorporated)	
			6 Employed In Own Corporation	
			7 Unpaid Family Worker	
			9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1752	HRLW80	85N	Hours Worked By Ref. Person Last Week In 1980	85N 6
1753	HRL280		Hours Worked By Spouse Or 2nd Adult Last Week In 1980	8
			0 Under 16 Years Old, Not At Work Or Not In Labor Force	
			1-89 1-89 Hours Worked	
			90 90 Or More Hours Worked	
			91 Layoff	
			92 Vacation, Temporary Illness, Strike, Etc.	
			93 Not Answered	
			99 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1754	WORK80	85N	Ref Person Worked In 1979	85N 7
1755	WRK180		Spouse Or 2nd Adult Worked In 1979	G
			0 Under 16 Years Old	
			1 Yes (Even If Worked A Few Days Only)	
			2 No	
			9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1756	WKW80	85N	Weeks Worked By Ref. Person In 1979	85N 7
1757	WKW280		Weeks Worked By Spouse Or 2nd Adult in 1979	9
			0 Under 16 Years Old Or Did Not Work In 1979	
			1-52 1-52 Weeks	
			99 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Person Not Present	
			Note: Includes Paid Vacation, Paid Sick Leave And Military Service.	
1758	HRW80	85N	In 1979, Ref Person Usually Worked	85N 7
1759	HRW280		In 1979, Spouse Or 2nd Adult Usually Worked	9
			0 Under 16 Years Old Or Did Not Work In 1979	
			1-98 1-98 Hours Per Week	
			99 99 Or More Hours, Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1760	WKUN80	85N	Weeks Ref Person Was Unemployed And Looking For Work In 1979	85N 7
1761	WKU280		Wks Spouse Or 2nd Adult Was Unemp/Looking For Work In 1979	9
			0 Under 16 Years Old Or Was Not Unemployed In 1979	
			1-52 1-52 Weeks	
			99 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1762	LOOK80	85N	Ref Person Looking For Work In Last 4 Weeks In 1980	85N 7
1763	LOO280		Spouse Or 2nd Adult Looking For Work In Last 4 Weeks In 1980	9
			0 Under 16 Years Old Or At Work	
			1 Yes	
			2 No	
			3 Not Answered	
			4 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	

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
1764	ABLE80	85N	Could Ref Person Have Taken A Job Last Week In 1980	85N 7
1765	ABL280		Could 2nd Adult Have Taken A Job Last Week In 1980	7
			0 Under 16 Years Old, Not Looking For A Job Or At Work	
			1 No, Already Has A Job	
			2 No, Temporarily Ill	
			3 No, Other Reasons (e.g. School)	
			4 Yes	
			5 Not Answered	
1766	TRAN80	85N	Principal Means Of Transportation To Work-Ref Person In 1980	85N 6
1767	TRA280		Principal Means Of Transportation To Work-2nd Adult In 1980	8
			0 Under 16 Years Of Age, Not At Work Or Not In Labor Force	
			1 Car	
			2 Truck	
			3 Van	
			4 Bus Or Streetcar	
			5 Railroad	
			6 Subway Or Elevated	
			7 Taxicab	
			8 Motorcycle	
			9 Bicycle	
			10 Walk To Work	
			11 Work At Home	
			12 Other Means	
			99 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1768	VEHC80	85N	Ref Person Belongs To Carpool In 1980	85N 7
1769	VEH280		Spouse Or 2nd Adult Belongs To Carpool In 1980	9
			0 Under 16 Years Old, Not At Work, Not In Labor Force, Does Not Use Car, Truck, Or Van	
			1 Drives Alone	
			2 Shares Driving In Carpool	
			3 Always Drives Others	
			4 Always Rides With Someone Else	
			9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1770	PASS80	85N	No. Of People Usually Riding In Ref Per's Carpool In 1980	85N 7
1771	PAS280		No. Of People Usually Riding In 2nd Adult's Carpool In 1980	9
			0 Under 16 Years Old, Not At Work, Not In Labor Force, Drives Alone, Or Does Not Use Car, Truck Or Van	
			1-5 2 To 6 Persons	
			6 7 Or More Persons	
			9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1772	TIME80	85N	Time Required For Journey To Work-Ref Person In 1980	85N 6
1773	TIM280		Time Required For Journey To Work-2nd Adult In 1980	6
			0 Under 16 Years Old, Not At Work, Not In Labor Force, Work At Home, Or Does Not Use Car, Truck Or Van	
			1-98 1-98 Minutes	
			99 99 Minutes Or More	
			999 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	
1774	WMET80	85N	Recorded Place Of Work, SMSA-Ref Person In 1980	85N 6
1775	WME280		Recorded Place Of Work, SMSA-Spouse Or 2nd Person In 1980	6
			0 Not Part Of JTW Sample, Under 16 Years Old, Not At Work, Not In Labor Force, Place Of Work Outside US, Work At Home, No Fixed Work Place, Or Not Reported	
			1 Work In CBD Of Any UA	
			2 Work Outside CBD, In Central City Of UA Of Residence	
			3 Elsewhere	
			9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present	

Note: Cases in mixed metro/non-metro area in Sample A are never coded 1-2, they are considered as living outside SMSA and assigned code 3 as appropriate.

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

1776 WDIS80 85N

Work And Public Transportation Disability In 1980

- 0 Not Applicable  
 1 Someone in Hhld has Transportation and Work Disabilities, and is prevented from working  
 2 Someone in Hhld has Transportation and Work Disabilities, but is not prevented from working  
 3 Someone in Hhld has Transportation Disability, but no Work Disability  
 4 No One in Hhld has Transportation Disability, but someone has a Work Disability and is prevented from working  
 5 No One in Hhld has Transportation Disability, but someone has a Work Disability though they are prevented from working  
 6 No One in Hhld has a Transportation or Work Disability

85N  
61777 VET80 85N  
1778 VET280

Most Recent Veteran Status Of Ref Person In 1980

Most Recent Veteran Status Of Spouse Or 2nd Adult In 1980

- 0 Not A Veteran Or Under 16 Years Old  
 1 Served In May 1975 Or Later  
 2 Vietnam War (8/64-4/75)  
 3 Served Between 2/55 And 7/64  
 4 Korean Conflict (6/50-1/55)  
 5 World War II (9/40-7/47)  
 6 World War I (4/17-11/18)  
 7 Served At Any Other Time  
 9 Vacant Unit, New Unit Or Not Found In 1980 Census, Or 2nd Adult Not Present

85N  
6  
8

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1779	WORKRS	75N 80N-81N 85N 75S-77S 82S	Number of Workers in Household 00 Zero Workers 1-15 1 To 15 Workers 99 Dropped From Sample Or Not Yet In Sample	<u>81N</u> G	<u>82S</u> G	<u>85N</u> G	
1780	IFU	74N-79N 75S-81S	Reference Person/Head Employed Last Week 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>79N</u> 38	<u>81S</u> 37		
1781	ALIN1	82S	Line Number Of First Adult 16+		<u>82S</u> 39		
1782	ALIN2		Line Number Of Adult 2 16+		39		
1783	ALIN3		Line Number Of Adult 3 16+		39		
1784	ALIN4		Line Number Of Adult 4 16+		39		
1785	ALIN5		Line Number Of Adult 5 16+		39		
1786	ALIN6		Line Number Of Adult 6 16+		39		
1787	ALIN7		Line Number Of Adult 7 16+		39		
1788	ALIN8		Line Number Of Adult 8 16+		39		
1789	ALIN9		Line Number Of Adult 9 16+		39		
1790	ALIN10		Line Number Of Adult 10 16+		39		
1791	ALIN11		Line Number Of Adult 11 16+		39		
1792	ALIN12		Line Number Of Adult 12 16+		39		
For All Variables, Standard Codes Are:							
1-97 Household Member's Line Number							
99 Not Present, Vacant, URE, Or Non-Interview							
1793	IFJ1	82S	Adult 1 Employed Last Week		<u>82S</u> 39		
1794	IFJ2		Adult 2 Employed Last Week		39		
1795	IFJ3		Adult 3 Employed Last Week		39		
1796	IFJ4		Adult 4 Employed Last Week		39		
1797	IFJ5		Adult 5 Employed Last Week		39		
1798	IFJ6		Adult 6 Employed Last Week		39		
1799	IFJ7		Adult 7 Employed Last Week		39		
1800	IFJ8		Adult 8 Employed Last Week		39		
1801	IFJ9		Adult 9 Employed Last Week		39		
1802	IFJ10		Adult 10 Employed Last Week		39		
1803	IFJ11		Adult 11 Employed Last Week		39		
1804	IFJ12		Adult 12 Employed Last Week		39		
For All Variables, Standard Codes Are:							
1 Yes							
2 No							
8 Not Answered							
9 Not Present, URE, Vacant, or Non-Interview							
1805	WLINE1	75N	Line Number Of Journey To Work-Worker 1	<u>81N</u> 40	<u>82S</u> 40	<u>84S</u> 28	<u>85N</u> 28
1806	WLINE2	80N-81N	Line Number Of Journey To Work-Worker 2	42	42	29	29
1807	WLINE3	85N	Line Number Of Journey To Work-Worker 3	44	44	29	29
1808	WLINE4	75S-77S	Line Number Of Journey To Work-Worker 4	++	++	29	29
1809	WLINE5	82S	Line Number Of Journey To Work-Worker 5	++	++	++	++
1810	WLINE6	84S-85S	Line Number Of Journey To Work-Worker 6	++	++	++	++
1811	WLINE7		Line Number Of Journey To Work-Worker 7	++	++	++	++
1812	WLINE8		Line Number Of Journey To Work-Worker 8	++	++	++	++
For All Variables, Standard Codes Are:							
00 Zero Workers							
1-97 Household Member's Line Number							
99 Not Applicable							
1813	RLINE1	75N	Line Number of Respondent for Worker 1 (JTW Questions)	<u>81N</u> 40	<u>82S</u> 40		
1814	RLINE2	80N-81N	Line Number of Respondent for Worker 2 (JTW Questions)	42	42		
1815	RLINE3	75S-77S	Line Number of Respondent for Worker 3 (JTW Questions)	44	44		
1816	RLINE4	82S	Line Number of Respondent for Worker 4 (JTW Questions)	++	++		
1817	RLINE5		Line Number of Respondent for Worker 5 (JTW Questions)	++	++		
1818	RLINE6		Line Number of Respondent for Worker 6 (JTW Questions)	++	++		
1819	RLINE7		Line Number of Respondent for Worker 7 (JTW Questions)	++	++		
1820	RLINE8		Line Number of Respondent for Worker 8 (JTW Questions)	++	++		
For All Variables, Standard Codes Are:							
1-97 Respondent's Line Number							
99 Not Applicable							



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				81N	82S	84S	85N
1831	VEHCL1	75N	Car Or Truck Driven To Work-Worker 1	40	40	28	28
1832	VEHCL2	80N-81N	Car Or Truck Driven To Work-Worker 2	42	42	29	29
1833	VEHCL3	85N	Car Or Truck Driven To Work-Worker 3	44	44	29	29
1834	VEHCL4	75S-77S	Car Or Truck Driven To Work-Worker 4	++	++	29	29
1835	VEHCL5	82S	Car Or Truck Driven To Work-Worker 5	++	++	++	++
1836	VEHCL6	84S-85S	Car Or Truck Driven To Work-Worker 6	++	++	++	++
1837	VEHCL7		Car Or Truck Driven To Work-Worker 7	++	++	++	++
1838	VEHCL8		Car Or Truck Driven To Work-Worker 8	++	++	++	++

For All Variables, Standard Codes Are:

75N 80N-81N 85N  
75S 76S-77S 84S-85S  
82S

- 0 Uses Other Means Of Trans
- 2 Drives Alone
- 3 Shares Driving With Others
- 1 Car
- 2 Truck
- 3 Van
- 2 Car or Carpool
- 9 Uses Other Means Of Transportation Or Not Applicable
- 9 Not Applicable

Note: In 75N and 75S-77S, missing data were imputed, but the allocation variables were not released.

1839	CARTOJ	74N-75N 75S-77S	Car Used In Mainly Non-car Trip To Work, Ref Person	75N 13	77S 39		
			1 Yes				
			2 No				
			8 Not Answered				
			9 Not Applicable				

				81N	82S
1840	CARTO1	75N	Car Used During Journey To Work-Worker 1	41	41
1841	CARTO2	80N-81N	Car Used During Journey To Work-Worker 2	43	43
1842	CARTO3	75S-77S	Car Used During Journey To Work-Worker 3	45	45
1843	CARTO4	82S	Car Used During Journey To Work-Worker 4	45	++
1844	CARTO5		Car Used During Journey To Work-Worker 5	++	++
1845	CARTO6		Car Used During Journey To Work-Worker 6	++	++
1846	CARTO7		Car Used During Journey To Work-Worker 7	++	++
1847	CARTO8		Car Used During Journey To Work-Worker 8	++	++

For All Variables, Standard Codes Are:

- 1 Yes
- 2 No
- 9 Not Applicable

Note: Excludes taxicabs in all years. In 80N-81N, the question asks specifically "Car Used In Addition To Public Transportation".

Note also that in 75N and 75S-77S, missing data may have been imputed but, if so, the allocation variable was not released.

				81N	82S
1848	ALONE1	80N-81N	Main Reason For Driving Alone-Worker 1	40	40
1849	ALONE2	82S	Main Reason For Driving Alone-Worker 2	42	42
1850	ALONE3		Main Reason For Driving Alone-Worker 3	44	44
1851	ALONE4		Main Reason For Driving Alone-Worker 4	++	++
1852	ALONE5		Main Reason For Driving Alone-Worker 5	++	++
1853	ALONE6		Main Reason For Driving Alone-Worker 6	++	++
1854	ALONE7		Main Reason For Driving Alone-Worker 7	++	++
1855	ALONE8		Main Reason For Driving Alone-Worker 8	++	++

For All Variables, Standard Codes Are:

- 1 Irregular Or Unusual Work Hours
- 2 Irregular Work Location
- 3 Need Car For Work Or Errands
- 4 Don't Know Anyone To Ride With
- 5 Like Privacy
- 6 Out Of The Way To Pick Up Others
- 7 Riders Require Extra Waiting Or Are Not Dependable
- 8 Want Car For Emergencies Or Occasional Overtime
- 9 Don't Trust Others' Driving
- 10 Other Reason
- 98 Not Answered
- 99 Not Applicable

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				81N	82S	84S	85N
1856	PASS1	75N	No. Of People Usually Riding In Carpool-Worker 1	40	40	28	28
1857	PASS2	80N-81N	No. Of People Usually Riding In Carpool-Worker 2	42	42	29	29
1858	PASS3	85N	No. Of People Usually Riding In Carpool-Worker 3	44	44	29	29
1859	PASS4	75S-77S	No. Of People Usually Riding In Carpool-Worker 4	++	++	29	29
1860	PASS5	82S	No. Of People Usually Riding In Carpool-Worker 5	++	++	++	++
1861	PASS6	84S-85S	No. Of People Usually Riding In Carpool-Worker 6	++	++	++	++
1862	PASS7		No. Of People Usually Riding In Carpool-Worker 7	++	++	++	++
1863	PASS8		No. Of People Usually Riding In Carpool-Worker 8	++	++	++	++

For All Variables, Standard Codes Are:

75N 80N-81N 85N  
 75S-77S 82S 84S-85S

02-09 02-97 02-14 Number of Persons in Carpool  
 10 10 or More Persons in Carpool  
 15 15 or More Persons in Carpool  
 99 99 99 Not Applicable

Note: Includes Worker. Also, in 75N and 75S-77S, missing data may have been imputed, but, if so, the allocation variable was not released.

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.

				81N	82S
1864	PASSH1	80N-81N	Number of Household Members In Carpool-Worker 1	40	40
1865	PASSH2	82S	Number of Household Members In Carpool-Worker 2	42	42
1866	PASSH3		Number of Household Members In Carpool-Worker 3	44	44
1867	PASSH4		Number of Household Members In Carpool-Worker 4	++	++
1868	PASSH5		Number of Household Members In Carpool-Worker 5	++	++
1869	PASSH6		Number of Household Members In Carpool-Worker 6	++	++
1870	PASSH7		Number of Household Members In Carpool-Worker 7	++	++
1871	PASSH8		Number of Household Members In Carpool-Worker 8	++	++

For All Variables, Standard Codes Are:

02-97 Number of Hhold Members in Carpool  
 98 Not Answered  
 99 Not Applicable

Note: Includes Worker Question Is Asked Of.

				81N	82S
1872	PUBTR1	80N-81N	Public Trans Used In Addition To Car-Worker 1	40	40
1873	PUBTR2	82S	Public Trans Used In Addition To Car-Worker 2	42	42
1874	PUBTR3		Public Trans Used In Addition To Car-Worker 3	44	44
1875	PUBTR4		Public Trans Used In Addition To Car-Worker 4	++	++
1876	PUBTR5		Public Trans Used In Addition To Car-Worker 5	++	++
1877	PUBTR6		Public Trans Used In Addition To Car-Worker 6	++	++
1878	PUBTR7		Public Trans Used In Addition To Car-Worker 7	++	++
1879	PUBTR8		Public Trans Used In Addition To Car-Worker 8	++	++

For All Variables, Standard Codes Are:

1 Yes  
 2 No  
 8 Not Answered  
 9 Not Applicable

				81N	82S
1880	PLPUB1	80N-81N	Type Pub Trans as Secndry Trans to Work-Worker 1	40	40
1881	PLPUB2	82S	Type Pub Trans as Secndry Trans to Work-Worker 2	42	42
1882	PLPUB3		Type Pub Trans as Secndry Trans to Work-Worker 3	44	44
1883	PLPUB4		Type Pub Trans as Secndry Trans to Work-Worker 4	++	++
1884	PLPUB5		Type Pub Trans as Secndry Trans to Work-Worker 5	++	++
1885	PLPUB6		Type Pub Trans as Secndry Trans to Work-Worker 6	++	++
1886	PLPUB7		Type Pub Trans as Secndry Trans to Work-Worker 7	++	++
1887	PLPUB8		Type Pub Trans as Secndry Trans to Work-Worker 8	++	++

For All Variables, Standard Codes Are:

1 Bus Or Streetcar  
 2 Subway Or Elevated  
 3 Railroad  
 4 Taxi  
 5 Other  
 8 Not Answered  
 9 Not Applicable

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>81N</u>	<u>82S</u>
1888	NOPUB1	80N-81N	Main Reason For Not Taking Pub Trans To Work-Worker 1	40	40
1889	NOPUB2	82S	Main Reason For Not Taking Pub Trans To Work-Worker 2	42	42
1890	NOPUB3		Main Reason For Not Taking Pub Trans To Work-Worker 3	44	44
1891	NOPUB4		Main Reason For Not Taking Pub Trans To Work-Worker 4	++	++
1892	NOPUB5		Main Reason For Not Taking Pub Trans To Work-Worker 5	++	++
1893	NOPUB6		Main Reason For Not Taking Pub Trans To Work-Worker 6	++	++
1894	NOPUB7		Main Reason For Not Taking Pub Trans To Work-Worker 7	++	++
1895	NOPUB8		Main Reason For Not Taking Pub Trans To Work-Worker 8	++	++
			For All Variables, Standard Codes Are:		
			1 Rather Use Car, Truck Or Van		
			2 Available Transit Does Not Go To Work		
			3 Takes Too Long		
			4 Schedule Not Convenient		
			5 Public Transportation Not Available		
			6 Stop Too Far From Residence		
			7 Too Expensive		
			8 Need Car, Truck Or Van For Work		
			9 Physical And/Or Mental Impairment		
			10 Other Reason		
			98 Not Answered		
			99 Not Applicable		
				<u>81N</u>	<u>82S</u>
1896	WMEAN1	80N-81N	Main Reason For Taking Public Trans To Work-Worker 1	41	41
1897	WMEAN2	82S	Main Reason For Taking Public Trans To Work-Worker 2	43	43
1898	WMEAN3		Main Reason For Taking Public Trans To Work-Worker 3	45	45
1899	WMEAN4		Main Reason For Taking Public Trans To Work-Worker 4	++	++
1900	WMEAN5		Main Reason For Taking Public Trans To Work-Worker 5	++	++
1901	WMEAN6		Main Reason For Taking Public Trans To Work-Worker 6	++	++
1902	WMEAN7		Main Reason For Taking Public Trans To Work-Worker 7	++	++
1903	WMEAN8		Main Reason For Taking Public Trans To Work-Worker 8	++	++
			For All Variables, Standard Codes Are:		
			1 No Driver's License		
			2 No Car, Truck Or Van Available		
			3 Cheaper Than Car, Truck Or Van		
			4 No Parking Costs Or Problems		
			5 No Driving Strain		
			6 Faster Than Car, Truck Or Van		
			7 Other Reason		
			8 Not Answered		
			9 Not Applicable		
				<u>75N</u>	<u>77S</u>
1904	SMEWK1	75N	Usually Work At Same Location Each Day-Worker 1	38	39
1905	SMEWK2	75S-77S	Usually Work At Same Location Each Day-Worker 2	40	42
1906	SMEWK3		Usually Work At Same Location Each Day-Worker 3	41	43
1907	SMEWK4		Usually Work At Same Location Each Day-Worker 4	42	44
1908	SMEWK5		Usually Work At Same Location Each Day-Worker 5	43	++
1909	SMEWK6		Usually Work At Same Location Each Day-Worker 6	44	++
1910	SMEWK7		Usually Work At Same Location Each Day-Worker 7	++	++
1911	SMEWK8		Usually Work At Same Location Each Day-Worker 8	++	++
			For All Variables, Standard Codes Are:		
			1 Yes		
			2 No		
			9 Not Applicable		
			Note: Missing data may have been imputed, but, if so, the allocation variable was not released.		
				<u>79N</u>	<u>81S</u>
1912	HEDJOB	77N-79N 78S-81S	Reports Same Place Each Day To Start Work, Ref Per	38	37
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				81N	82S	84S	85N
1913	HJOB1	75N	Report Same Place Each Day To Start Work-Worker 1	41	41	28	28
1914	HJOB2	80N-81N	Report Same Place Each Day To Start Work-Worker 2	43	43	29	29
1915	HJOB3	85N	Report Same Place Each Day To Start Work-Worker 3	45	45	29	29
1916	HJOB4	75S-77S	Report Same Place Each Day To Start Work-Worker 4	++	++	29	29
1917	HJOB5	82S	Report Same Place Each Day To Start Work-Worker 5	++	++	++	++
1918	HJOB6	84S-85S	Report Same Place Each Day To Start Work-Worker 6	++	++	++	++
1919	HJOB7		Report Same Place Each Day To Start Work-Worker 7	++	++	++	++
1920	HJOB8		Report Same Place Each Day To Start Work-Worker 8	++	++	++	++

For All Variables, Standard Codes Are:

75N 80N-81N  
85N  
75S-77S  
82S  
84S-85S

3 1 Yes  
4 2 No  
8 Not Answered  
9 9 Not Applicable

Note: Not applicable if SMEWK1-SMEWK8 coded 1. Also, In 75S-77S, the questionnaires show codes as 3 and 4, while the Census documentation shows codes as 1 and 2 for these years. The actual data have not yet been checked. In addition, missing data may have been imputed, but, if so, the allocation variable has not released.

REF#	NAME	SURVEYS	DESCRIPTION	84S	85N
1921	WINUS1	85N	Place of Work In U.S.-Worker 1	28	28
1922	WINUS2	84S-85S	Place of Work In U.S.-Worker 2	29	29
1923	WINUS3		Place of Work In U.S.-Worker 3	29	29
1924	WINUS4		Place of Work In U.S.-Worker 4	29	29
1925	WINUS5		Place of Work In U.S.-Worker 5	++	++
1926	WINUS6		Place of Work In U.S.-Worker 6	++	++
1927	WINUS7		Place of Work In U.S.-Worker 7	++	++
1928	WINUS8		Place of Work In U.S.-Worker 8	++	++

For All Variables, Standard Codes Are:

1 Place of Work Outside U.S.  
9 Work Inside U.S. or Not Applicable

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REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

				<u>81N</u>	<u>82S</u>
1929	WMETR1	75N	Recoded Place Of Work, City/Suburban Status-Worker 1	41	41
1930	WMETR2	80N-81N	Recoded Place Of Work, City/Suburban Status-Worker 2	43	43
1931	WMETR3	75S-77S	Recoded Place Of Work, City/Suburban Status-Worker 3	45	45
1932	WMETR4	82S	Recoded Place Of Work, City/Suburban Status-Worker 4	++	++
1933	WMETR5		Recoded Place Of Work, City/Suburban Status-Worker 5	++	++
1934	WMETR6		Recoded Place Of Work, City/Suburban Status-Worker 6	++	++
1935	WMETR7		Recoded Place Of Work, City/Suburban Status-Worker 7	++	++
1936	WMETR8		Recoded Place Of Work, City/Suburban Status-Worker 8	++	++

For All Variables, Standard Codes Are:

75N 75S-77S 80N-81N

<u>82S</u>		
1		Work in CBD of SMSA of residence
	1	Central City of Same SMSA As Residence
2		Work Outside CBD, in Central City
		of SMSA of Residence
	2	Second Central City, e.g. Oakland, CA
	3	Balance of Same SMSA as Residence
3		CBD Not Reported. Work In Central
		City of SMSA of Residence
	3	Center City of Another SMSA
4		Work Outside Central City of SMSA
		of Residence
	4	Balance of Another SMSA
5		Work in CBD of Another SMSA (including
		residents of non-metropolitan areas)
6		Work Outside CBD, In Central City
		of Another SMSA (incl. non-metro res.)
7		CBD Not Reported. Work In Central City
		of Another SMSA (incl. non-metro res)
8		Work Outside Central City of Another
		SMSA (incl. non-metro residents)
9		Work Outside of Any SMSA
10	6	No Fixed Place of Work
	7	Work Outside SMSA of Residence
11	8	Place of Work Not Reported
99	9	Not Applicable

Note: Persons working outside of any SMSA are coded 3-6, as applicable.

				<u>81N</u>	<u>82S</u>
1937	WCNTY1	75N	Recoded Place Of Work, County-Worker 1	41	41
1938	WCNTY2	80N-81N	Recoded Place Of Work, County-Worker 2	43	43
1939	WCNTY3	75S-77S	Recoded Place Of Work, County-Worker 3	45	45
1940	WCNTY4	82S	Recoded Place Of Work, County-Worker 4	++	++
1941	WCNTY5		Recoded Place Of Work, County-Worker 5	++	++
1942	WCNTY6		Recoded Place Of Work, County-Worker 6	++	++
1943	WCNTY7		Recoded Place Of Work, County-Worker 7	++	++
1944	WCNTY8		Recoded Place Of Work, County-Worker 8	++	++

For All Variables, Standard Codes Are:

75N 75S-77S 80N-81N

<u>82S</u>		
001-995 County Codes (See Table 2 in Geography)		
1		Work In County of Residence
2		Live in NYC, Work In Another Borough
3		Work Outside County of Residence, in
		Other County of Same State
4		Work in Other County or Abroad
		Work in Other State or Abroad
5	996	No Fixed Place of Work
		County Suppressed to Protect
		Confidentiality
6	998	Place of Work Not Reported
9	999	Not Applicable

Note: "County" includes county-equivalents such as independent cities.

				<u>79N</u>	<u>78S</u>
1945	WKTOWN	76N-79N	Work in Incorporated City Or Town, Reference Person	38	38
		78S	1 Yes		
			2 No		
			3 Don't Know		
			8 Not Answered		
			9 Not Applicable		

				<u>79N</u>	<u>78S</u>
1946	SAMTWN	76N-79N	Live In Same Town As Work	38	38
		77S-78S	1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

REF#	NAME	SURVEYS	DESCRIPTION	77S
1947	WKST1	75S-77S	State Of Place Of Work-Worker 1	41
1948	WKST2		State Of Place Of Work-Worker 2	43
1949	WKST3		State Of Place Of Work-Worker 3	45
1950	WKST4		State Of Place Of Work-Worker 4	++
1951	WKST5		State Of Place Of Work-Worker 5	++
1952	WKST6		State Of Place Of Work-Worker 6	++
1953	WKST7		State Of Place Of Work-Worker 7	++
1954	WKST8		State Of Place Of Work-Worker 8	++

For All Variables, Standard Codes Are:  
 1-56 See STIN5 In the Previous Residence and Mobility Section  
 96 No Fixed Place of Work  
 98 Place of Work Not Reported  
 99 Not Applicable

REF#	NAME	SURVEYS	DESCRIPTION	77S
1955	WKCBD1	75S-77S	Place Of Work in Central Business District (CBD)-Wrkr 1	39
1956	WKCBD2		Place Of Work in CBD-Worker 2	42
1957	WKCBD3		Place Of Work in CBD-Worker 3	43
1958	WKCBD4		Place of Work in CBD-Worker 4	44
1959	WKCBD5		Place of Work in CBD-Worker 5	++
1960	WKCBD6		Place Of Work in CBD-Worker 6	++
1961	WKCBD7		Place Of Work in CBD-Worker 7	++
1962	WKCBD8		Place Of Work in CBD-Worker 8	++

0 Works At Home  
 1 Workplace Tract in CBD  
 2 Workplace Tract not in CBD  
 6 No Fixed Place of Work  
 7 Outside SMSA of Residence  
 8 Place of Work Not Reported  
 9 Not Applicable

Note: For Definition of Central Business District, Please contact the Journey To Work Statistics Staff, Bureau of the Census, Washington, DC, or the AHSDP staff.

REF#	NAME	SURVEYS	DESCRIPTION	77S	84S
1963	WKSTZ1	75S-77S	Place of Work in Special Tab Zone-Worker 1	39	28
1964	WKSTZ2	84S-85S	Place of Work in Special Tab Zone-Worker 2	42	29
1965	WKSTZ3		Place of Work in Special Tab Zone-Worker 3	43	29
1966	WKSTZ4		Place of Work in Special Tab Zone-Worker 4	44	29
1967	WKSTZ5		Place of Work in Special Tab Zone-Worker 5	++	++
1968	WKSTZ6		Place of Work in Special Tab Zone-Worker 6	++	++
1969	WKSTZ7		Place of Work in Special Tab Zone-Worker 7	++	++
1970	WKSTZ8		Place of Work in Special Tab Zone-Worker 8	++	++

For All Variables, Standard Codes Are:  
75S-77S 84S-85S  
 000 Off Map  
 001-200 Zone Number (See Maps)  
 00 Works At Home  
 01 Special Tab Zone A  
 02 Special Tab Zone B  
 03 Special Tab Zone C  
 04 Special Tab Zone D  
 05 Special Tab Zone R  
 06 Inside SMSA, Zone Not Identified  
 96 No Fixed Place Of Work  
 97 Outside SMSA of Residence  
 98 998 Place of Work Not Reported  
 99 999 Not Applicable

Note: The Bureau of the Census has defined special tabulation zones for the purpose of reporting the results of the Department of Transportation Travel-To-Work Supplement. Questions may be referred to the Journey to Work Statistics Staff, Population Division, Bureau of the Census, Washington, DC, or to the AHSDP staff.

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			
1971	WKPLC1	75S-77S	Workplace Place Code (25,000 or more)-Worker 1		77S		
1972	WKPLC2		Workplace Place Code (25,000 or more)-Worker 2		39		
1973	WKPLC3		Workplace Place Code (25,000 or more)-Worker 3		42		
1974	WKPLC4		Workplace Place Code (25,000 or more)-Worker 4		43		
1975	WKPLC5		Workplace Place Code (25,000 or more)-Worker 5		44		
1976	WKPLC6		Workplace Place Code (25,000 or more)-Worker 6		++		
1977	WKPLC7		Workplace Place Code (25,000 or more)-Worker 7		++		
1978	WKPLC8		Workplace Place Code (25,000 or more)-Worker 8		++		
For All Variables, Standard Codes Are:							
0000 Works At Home							
0001-9995 Place Code (see Variable PLACE)							
9996 No Fixed Place of Work							
9997 Outside SMSA of Residence							
9998 Place of Work Not Reported							
9999 Not Applicable							
1979	WPLSZ1	75N	Workplace Place Size-Worker 1	75N	77S		
1980	WPLSZ2	75S-77S	Workplace Place Size-Worker 2	38	39		
1981	WPLSZ3		Workplace Place Size-Worker 3	40	42		
1982	WPLSZ4		Workplace Place Size-Worker 4	41	43		
1983	WPLSZ5		Workplace Place Size-Worker 5	42	44		
1984	WPLSZ6		Workplace Place Size-Worker 6	43	++		
1985	WPLSZ7		Workplace Place Size-Worker 7	44	++		
1986	WPLSZ8		Workplace Place Size-Worker 8	++	++		
For All Variables, Standard Codes Are:							
<u>75N</u> <u>75S-77S</u>							
0 Works At Home							
1 Less Than 2,500 or Not A Place							
2 2,500 to 4,999							
3 5,000 to 9,999							
4 10,000 to 24,999							
5 1 25,000-49,999							
2 50,000-99,999							
6 50,000 or Over							
3 100,000-249,000							
4 250,000-499,999							
5 500,000 And Over							
6 No Fixed Place of Work							
7 Outside SMSA of Residence							
8 Place of Work Not Reported							
9 Not Applicable							
1987	WTIME1	75N	Time Usually Leave For Work-Worker 1	81N	82S	84S	85N
1988	WTIME2	81N	Time Usually Leave For Work-Worker 2	41	41	28	28
1989	WTIME3	85N	Time Usually Leave For Work-Worker 3	43	43	29	29
1990	WTIME4	75S-77S	Time Usually Leave For Work-Worker 4	45	45	29	29
1991	WTIME5	82S	Time Usually Leave For Work-Worker 5	++	++	29	29
1992	WTIME6	84S-85S	Time Usually Leave For Work-Worker 6	++	++	++	++
1993	WTIME7		Time Usually Leave For Work-Worker 7	++	++	++	++
1994	WTIME8		Time Usually Leave For Work-Worker 8	++	++	++	++
For All Variables, Standard Codes Are:							
0100-1259 1:00 through 12:59							
9998 Not Answered							
9999 Not Applicable							
Note: In 75N and 75S-77S, missing data may have been imputed but, if so, the allocation variable was not released.							
1995	AMPM1	75N	Leave For Work AM Or PM-Worker 1	81N	82S	84S	85N
1996	AMPM2	81N	Leave For Work AM Or PM-Worker 2	41	41	28	28
1997	AMPM3	85N	Leave For Work AM Or PM-Worker 3	43	43	29	29
1998	AMPM4	75S-77S	Leave For Work AM Or PM-Worker 4	45	45	29	29
1999	AMPM5	82S	Leave For Work AM Or PM-Worker 5	++	++	29	29
2000	AMPM6	84S-85S	Leave For Work AM Or PM-Worker 6	++	++	++	++
2001	AMPM7		Leave For Work AM Or PM-Worker 7	++	++	++	++
2002	AMPM8		Leave For Work AM Or PM-Worker 8	++	++	++	++
For All Variables, Standard Codes Are:							
1 AM							
2 PM							
8 Not Answered							
9 Not Applicable							
Note: In 75N and 75S-77S, missing data may have been imputed but, if so, the allocation variable was not released.							

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

2003	TIMEJ	74N-79N 75S-81S	Time Required For Journey To Work, Ref Per (One Way) 74N 75N-77N 78N-79N 78S-81S <u>75S-77S</u>		<u>79N</u> 38	<u>81S</u> 37
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	0		000	Works At Home
		001-995	001-995	1-995 Minutes
1	1			Under 15 Minutes
2	2			15-29 Minutes
3	3			30-44 Minutes
4	4			45-59 Minutes
5	5			1 Hour-1 Hour, 29 Minutes
6	6			1-1/2 Hours Or More
			996	Does Not Work
			996	Works at Home
7	7		997	997 No Fixed Place of Work
8	8		998	998 Place of Work Not Reported
9	9		999	999 Not Applicable
999	999		999	999 Not Applicable

Note: In 76N, 77N, and 77S, exact time was asked of respondents. The information has been recoded by the Bureau of the Census.

2004	TIMEJ1	75N	Time Required For Journey To Work-Worker 1	<u>81N</u>	<u>82S</u>	<u>84S</u>	<u>85N</u>
2005	TIMEJ2	80N-81N	Time Required For Journey To Work-Worker 2	41	41	28	28
2006	TIMEJ3	85N	Time Required For Journey To Work-Worker 3	43	43	29	29
2007	TIMEJ4	75S-77S	Time Required For Journey To Work-Worker 4	45	45	29	29
2008	TIMEJ5	82S	Time Required For Journey To Work-Worker 5	++	++	++	++
2009	TIMEJ6	84S-85S	Time Required For Journey To Work-Worker 6	++	++	++	++
2010	TIMEJ7		Time Required For Journey To Work-Worker 7	++	++	++	++
2011	TIMEJ8		Time Required For Journey To Work-Worker 8	++	++	++	++

For All Variables, Standard Codes Are:

75N	75S-77S	80N-81N	85N
		<u>82S</u>	<u>84S-85S</u>

	0			Work Place Varies
001-198	001-198			0-198 Minutes
		001-995	001-995	1-995 Minutes
199	199			199 Minutes or More
996		996	996	Works At Home
997		997		No Fixed Place of Work
999	999	999	999	Not Applicable

Note: In 75N and in 75S-77S, missing data were imputed, but the allocation variable was not released. In 1981N, one 998 was found in TIMEJ2.

2012	ZDIST1	75N	Recoded Speed of Journey To Work-Worker 1	<u>75N</u>	<u>77S</u>
2013	ZDIST2	75S-77S	Recoded Speed of Journey To Work-Worker 2	G	G
2014	ZDIST3		Recoded Speed of Journey To Work-Worker 3	G	G
2015	ZDIST4		Recoded Speed of Journey To Work-Worker 4	G	G
2016	ZDIST5		Recoded Speed of Journey To Work-Worker 5	G	G
2017	ZDIST6		Recoded Speed of Journey To Work-Worker 6	G	G
2018	ZDIST7		Recoded Speed of Journey To Work-Worker 7	G	G
2019	ZDIST8		Recoded Speed of Journey To Work-Worker 8	G	G

For All Variables, Standard Codes Are:

75N	75S-77S	
000	00	0 MPH (Distance LT 1 Mile)
001-996	01-96	1 - 96 MPH
997	97	97 MPH Or More
999	99	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

REF#	NAME	SURVEYS	DESCRIPTION	79N	81S
				38	37
2020	DISTJ	74N-79N 75S-81S	One-Way Distance From Home To Work-Reference Person 74N 75N-77N 78N-79N <u>75S-77S 78S-81S</u>		
			0 Works At Home		
		1 1	0 Under 1 Mile		
			001-995 1-995 Miles		
		2 2	1-4 Miles		
		3 3	5-9 Miles		
		4 4	10-19 Miles		
		5 5	20-29 Miles		
		6 6	30-39 Miles		
		7 7	40-49 Miles		
		8 8	Over 50 Miles		
			996 Works At Home		
		9 9	997 No Fixed Place Of Work		
		98 98	998 Not Answered		
		99 99	Not Applicable		
		999 999	999 Not Applicable		
Note: In 76N, 77N, and 77S exact distance was asked of respondents. The information was then recoded by the Bureau of the Census.					

REF#	NAME	SURVEYS	DESCRIPTION	81N	82S	84S	85N
				41	41	28	28
2021	DISTJ1	75N	One-Way Distance From Home To Work-Worker 1				
2022	DISTJ2	80N-81N	One-Way Distance From Home To Work-Worker 2	43	43	29	29
2023	DISTJ3	85N	One-Way Distance From Home To Work-Worker 3	45	45	29	29
2024	DISTJ4	75S-77S	One-Way Distance From Home To Work-Worker 4	++	++	29	29
2025	DISTJ5	82S	One-Way Distance From Home To Work-Worker 5	++	++	++	++
2026	DISTJ6	84S-85S	One-Way Distance From Home To Work-Worker 6	++	++	++	++
2027	DISTJ7		One-Way Distance From Home To Work-Worker 7	++	++	++	++
2028	DISTJ8		One-Way Distance From Home To Work-Worker 8	++	++	++	++

For All Variables, Standard Codes Are:

75N	75S-77S	80N-81N	
		85N	
		82S	
		<u>84S-85S</u>	
000	000	000	Under 1 mile
001-200	001-200		1-200 Miles
		1-995	1-995 Miles
201	201		201 Miles or More
996		996	Works At Home
997	997	997	No Fixed Place of Work
999	999	999	Not Applicable

Note: In 75N and 75S-77S, missing data were imputed, but the allocation variable was not released.

REF#	NAME	SURVEYS	DESCRIPTION	75N	77S
				38	39
2029	TRNCH1	75N	Changed Principal Means of Trans In Last Year-Worker 1		
2030	TRNCH2	75S-77S	Changed Principal Means of Trans In Last Year-Worker 2	40	42
2031	TRNCH3		Changed Principal Means of Trans In Last Year-Worker 3	41	43
2032	TRNCH4		Changed Principal Means of Trans In Last Year-Worker 4	42	44
2033	TRNCH5		Changed Principal Means of Trans In Last Year-Worker 5	43	++
2034	TRNCH6		Changed Principal Means of Trans In Last Year-Worker 6	44	++
2035	TRNCH7		Changed Principal Means of Trans In Last Year-Worker 7	++	++
2036	TRNCH8		Changed Principal Means of Trans In Last Year-Worker 8	++	++

For All Variables, Standard Codes Are:

- 1 Yes
- 2 No
- 9 Not Applicable

Note: In 75N and 75S-77S, data may have been imputed but, if so, the allocation variable has not been released.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>75N</u>	<u>77S</u>
2037	YTRNJ1	75N	Principal Means of Trans Prior to Change-Worker 1	38	39
2038	YTRNJ2	75S-77S	Principal Means of Trans Prior to Change-Worker 2	40	42
2039	YTRNJ3		Principal Means of Trans Prior to Change-Worker 3	41	43
2040	YTRNJ4		Principal Means of Trans Prior to Change-Worker 4	42	44
2041	YTRNJ5		Principal Means of Trans Prior to Change-Worker 5	43	++
2042	YTRNJ6		Principal Means of Trans Prior to Change-Worker 6	44	++
2043	YTRNJ7		Principal Means of Trans Prior to Change-Worker 7	++	++
2044	YTRNJ8		Principal Means of Trans Prior to Change-Worker 8	++	++

For All Variables, Standard Codes Are:

- 1 Drove Alone
- 2 Shared Driving
- 3 Drove Others
- 4 Rode With Someone Else
- 5 Walked Only
- 6 Worked At Home
- 7 Railroad
- 8 Subway Or Elevated
- 9 Bus Or Streetcar
- 10 Taxicab
- 11 Motorcycle
- 12 Other Means
- 13 Bicycle
- 98 Not Answered
- 99 Not Applicable

Note: Applicable Only If Code = "1-3" In YVHCL1-YVHCL8

				<u>75N</u>	<u>77S</u>
2045	YVHCL1	75N	Prin Means Of Trans, Before Change, Veh Class-Worker 1	38	39
2046	YVHCL2	75S-77S	Prin Means Of Trans, Before Change, Veh Class-Worker 2	40	42
2047	YVHCL3		Prin Means Of Trans, Before Change, Veh Class-Worker 3	41	43
2048	YVHCL4		Prin Means Of Trans, Before Change, Veh Class-Worker 4	42	44
2049	YVHCL5		Prin Means Of Trans, Before Change, Veh Class-Worker 5	43	++
2050	YVHCL6		Prin Means Of Trans, Before Change, Veh Class-Worker 6	44	++
2051	YVHCL7		Prin Means Of Trans, Before Change, Veh Class-Worker 7	++	++
2052	YVHCL8		Prin Means Of Trans, Before Change, Veh Class-Worker 8	++	++

For All Variables, Standard Codes Are:

75N 76S-77S

75S

- 0 Did Not Drive
- 1 1 Truck
- 2 2 Car or Carpool
- 8 8 Not Answered
- 9 Not Applicable or Not Answered
- 9 9 Not Applicable

Note: In 75N and 75S, use the variables YTRNJ1-YTRNJ8 to distinguish between Not Answered and Not Applicable.

				<u>75N</u>	<u>77S</u>
2053	HTRAN1	75N	Satisfaction With Present Prin Means Of Trans-Worker 1	38	39
2054	HTRAN2	75S-77S	Satisfaction With Present Prin Means Of Trans-Worker 2	40	42
2055	HTRAN3		Satisfaction With Present Prin Means Of Trans-Worker 3	41	43
2056	HTRAN4		Satisfaction With Present Prin Means Of Trans-Worker 4	42	44
2057	HTRAN5		Satisfaction With Present Prin Means Of Trans-Worker 5	43	++
2058	HTRAN6		Satisfaction With Present Prin Means Of Trans-Worker 6	44	++
2059	HTRAN7		Satisfaction With Present Prin Means Of Trans-Worker 7	++	++
2060	HTRAN8		Satisfaction With Present Prin Means Of Trans-Worker 8	++	++

For All Variables, Standard Codes Are:

- 1 Much More Satisfied
- 2 More Satisfied
- 3 About The Same Satisfaction
- 4 Less Satisfied
- 5 Much Less Satisfied
- 6 Don't Know
- 7 Did Not Work Last Year
- 8 Not Answered
- 9 Not Applicable

Note: If code = 1 in TRNCH1-TRNCH8, the question is asked in reference to previous principal means of transportation. Otherwise the question is asked in reference to last year satisfaction with present principal means of transportation.

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	
2061	WDIST	75N-77N 76S-78S	Object To Work Distance 1 Yes 2 No 8 Not Answered 9 Not Applicable - i.e., Not 5 Or More Miles From Work Or Object To Distance	<u>77N</u> 38	<u>78S</u> 39
2062	WNEIGH	75N-77N	Work-Home More Than 5 Miles-Like Present Neighbors	<u>77N</u> 38	<u>78S</u> 39
2063	WHOUSE	76S-78S	Work-Home More Than 5 Miles-Like Present House	38	39
2064	WSCH		Work-Home More Than 5 Miles-Close To Schools	38	39
2065	WSHP		Work-Home More Than 5 Miles-Convenient to Shopping	38	39
2066	WFAMJB		Work-Home More Than 5 Miles-Close To Oth HH Members Jobs	38	39
2067	WAFORD		Work-Home More Than 5 Miles-Can Afford Present Home	38	39
2068	WCOMF		Work-Home More Than 5 Miles-Used to Present Home	38	39
2069	WOTHER		Work-Home More Than 5 Miles-Other Positive Reason For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable - i.e., Not 5 Or More Miles From Work Or Object To Distance	38	39
Note: Asked of people who don't mind living 5+ miles from work.					
2070	DCLHSE	75N-77N	Work-Home More Than 5 Miles-Dislike Closer Homes	<u>77N</u> 38	<u>78S</u> 39
2071	DCLPEO	76S-78S	Work-Home More Than 5 Miles-Dislike Closer People	38	39
2072	DCLSCH		Work-Home More Than 5 Miles-Poor Schools Closer	38	39
2073	DCLSHP		Work-Home More Than 5 Miles-Inconvenient Shopng Closer	38	39
2074	DCLFMJ		Work-Home More Than 5 Miles-Other HH Members' Jobs	38	39
2075	DCLAFF		Work-Home More Than 5 Miles-Can't Afford Closer Home	38	39
2076	DCLAVL		Work-Home More Than 5 Miles-No Closer Homes Available	38	39
2077	DCLCHG		Work-Home More Than 5 Miles-Don't Like Change	38	39
2078	DCLTMP		Work-Home More Than 5 Miles-Head's Job Temporary	38	39
2079	DCLOTH		Work-Home More Than 5 Miles-Other Negative Reason For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable - i.e., Not 5 Or More Miles From Work Or Object To Distance	38	39
Note: Asked of people who do mind living 5+ miles from work.					
2080	REASON	75N-77N 76S-78S	Main Reason Live More Than 5 Miles From Ref Persn's Wrk <u>75N-76N</u> <u>77N</u> <u>76S</u> <u>77S-78S</u> 1 1 1 1 Like Neighbors 2 2 2 2 Like Present House 3 3 3 3 Close To Schools 4 4 4 4 Close To Shopping 5 5 5 5 Close To Others' Job 6 6 6 6 Can Afford House 7 7 7 7 Used To Present Home 8 8 8 8 Other Positive Reason 9 9 9 9 Don't Like Closer Homes 10 10 10 10 Don't Like Closer Neighbors 11 11 11 11 Closer Schools Poor 12 12 12 12 Closer Homes Not Close To Shopping 13 13 13 13 Too Far From Others' Jobs 14 14 14 14 Can't Afford Closer Homes 15 15 15 15 No Closer House Available 16 16 16 16 Too Much Trouble To Move 17 17 17 17 Job Temporary 18 18 18 18 Other Negative Reason 20 20 96 96 Object To Distance (Reason Not Reported) 97 97 Does Not Object to Distance (Code "2" In WDIST) 98 98 Not Answered 99 99 99 99 Not Applicable	<u>77N</u> 38	<u>78S</u> 39
Note: In 1977N one case with code 90 was found.					

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2081	REASN1	75N	Main Reason Live More Than 5 Miles From Ref Persn's Wrk	<u>75N</u> 13
			1 Like Neighbors	
			2 Like Present House	
			3 Close To Schools	
			4 Close To Shopping	
			5 Close To Others' Jobs	
			6 Can Afford House	
			7 Used To Present Home	
			8 Other Positive Reason	
			9 Don't Like Closer Homes	
			10 Don't Like Closer Neighbors	
			11 Closer Schools Poor	
			12 Closer Homes Not Close To Shopping	
			13 Too Far From Others' Jobs	
			14 Can't Afford Closer Homes	
			15 No Closer House Available	
			16 Too Much Trouble To Move	
			17 Job Temporary	
			18 Other Negative Reason	
			98 Not Answered	
			99 Not Applicable	
2082	MOVEHW	76N-77N 77S-78S	Would Move To Head's Worksite If Housing Affordable	<u>77N</u> <u>78S</u> 38 39
			1 Yes	
			2 No	
			3 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.

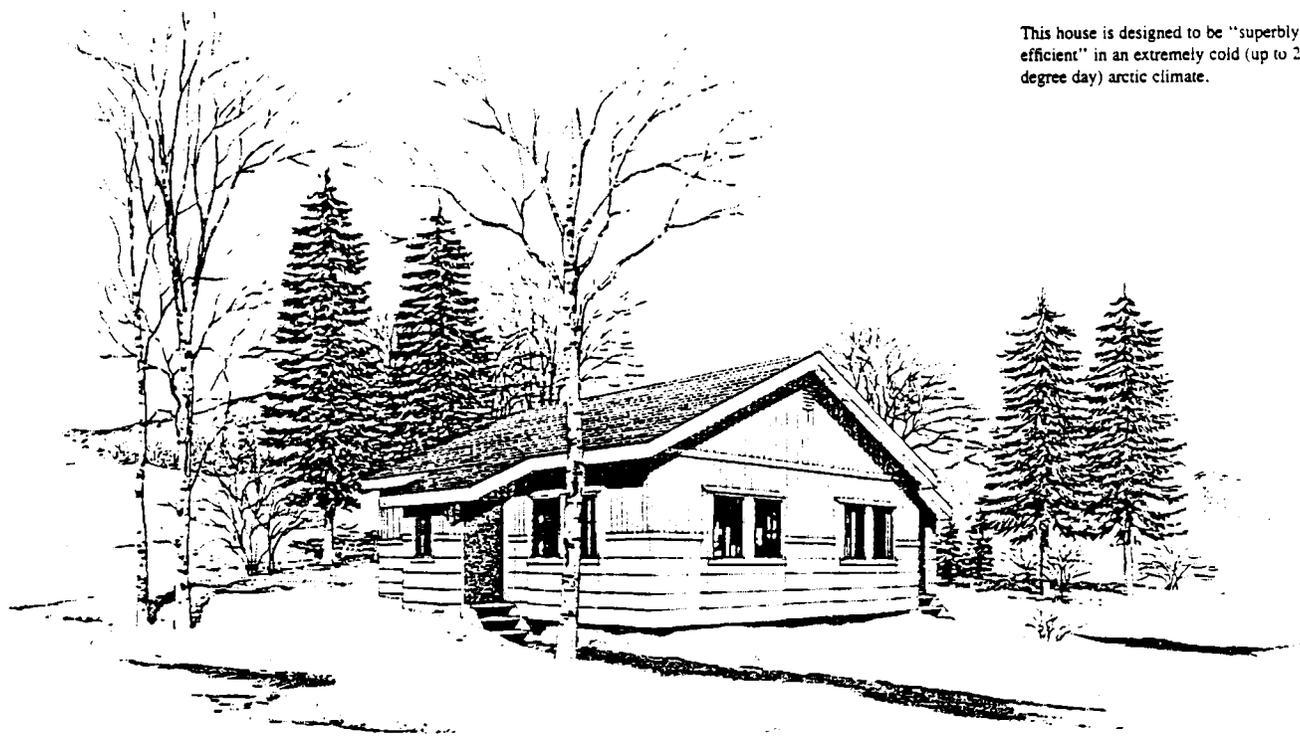
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## Superinsulated Arctic Bungalow

*Project Sponsor: Superinsulated Homes, Inc.  
Fairbanks, Alaska*  
*Project Designer: Jane Galblum*  
*Special Consultant: Ed McGrath*  
*Floor area: Outside—1,000 sq. ft.  
Inside — 825 sq. ft.*

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This house is designed to be "superbly energy efficient" in an extremely cold (up to 20,000 degree day) arctic climate.



The detailed data documented in this section were collected for the first time in the 1985 National Survey. A simple question on second homes was asked before, and is documented in the Tenure Chapter. Questions were asked from respondents who reported to own or co-own a residential property besides the sample unit (see the variable SECOND in the Tenure Section). A second home is reported in the AHS if it is owned (co-owned) or being bought by a household member who owns or rents the sample unit. A second home, for example, is not reported if it is owned by a lodger in the sample unit. A unit is considered as a second home if it meets the definition of a housing unit (see Introduction to the Tenure, Building and Parking section).

Data on second homes include location, structure type, ownership arrangements, value and purpose (recreational or investment). Some questions are asked for as many as six second homes, others are asked for three homes only. If the household reports more than three homes, the interviewer is instructed to select three units according to the following criteria: any home which had previously been the usual residence of the owner or co-owner, one home for each household member who owns a property, then any other. In cases with data for more than three second homes, the variables SNUMX through SNUMZ are used to link the variables available for six homes with the variables available for three homes only. For example, if the value of SNUMX is 2, the variable SBSTAT should be used to identify the location of the home. If the value of SNUMY is 4, then the appropriate location variable is SDSTAT.

In 1987, the Second Home supplement was administered again. New respondents, i.e. households that moved into the sample units after the 1985 interview, were asked all questions in the supplement. All other respondents were asked questions about second homes acquired after 1985. For these households, the purpose of the supplement is to update the data collected in 1985. Because the data collected in 1985 are not repeated on the 1987 tape, users interested in second homes must use data from the 1985 and 1987 tapes to obtain a complete picture of all second homes owned by sample households. By combining the data from both years, users can determine whether second homes (and how many) have been sold since 1985. It is not possible, however, to identify which ones have been sold.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2083	SECADD	87N	Second Home Acquired Since 1985 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>87N</u>
2084	NADDUS	85N 87N	No of 2nd Res Units Owned By Co-Owners/Renters Of This Unit 1-96 1-96 98 Not Answered 99 No Additional Units Owned, or Non-Interview	<u>85N</u> 50
2085	SASTAT	85N	State In Which First Second Home Is Located	<u>85N</u> 50
2086	SBSTAT	87N	State In Which Second Second Home Is Located	50
2087	SCSTAT		State In Which Third Second Home Is Located	50
2088	SDSTAT		State In Which Fourth Second Home Is Located	50
2089	SESTAT		State In Which Fifth Second Home Is Located	50
2090	SFSTAT		State In Which Sixth Second Home Is Located Standard Codes For All Variables Are: 00 Outside the United States 01-56 (See STBRN1 in Mobility Section) 98 Not Answered 99 Not Applicable	50
2091	SALIN1	85N	Line No Of First Owner of First Addl Unit	<u>85N</u> 50
2092	SALIN2	87N	Line No Of Second Owner of First Addl Unit	50
2093	SBLIN1		Line No Of First Owner of Second Addl Unit	50
2094	SBLIN2		Line No Of Second Owner Of Second Addl Unit	50
2095	SCLIN1		Line No Of First Owner Of Third Addl Unit	50
2096	SCLIN2		Line No Of Second Owner Of Third Addl Unit	50
2097	SDLIN1		Line No Of First Owner Of Fourth Addl Unit	50
2098	SDLIN2		Line No Of Second Owner Of Fourth Addl Unit	50
2099	SELIN1		Line No Of First Owner Of Fifth Addl Unit	50
2100	SELIN2		Line No Of Second Owner Of Fifth Addl Unit	50
2101	SFLIN1		Line No Of First Owner Of Sixth Addl Unit	50
2102	SFLIN2		Line No Of Second Owner Of Sixth Addl Unit Standard Codes For All Variables Are: 01-96 1 to 96 98 Not Answered 99 Not Applicable	50
2103	SAURE	85N	First Addl Unit Was Once Usual Residence	<u>85N</u> 50
2104	SBURE	87N	Second Addl Unit Was Once Usual Residence	50
2105	SCURE		Third Addl Unit Was Once Usual Residence	50
2106	SDURE		Fourth Addl Unit Was Once Usual Residence	50
2107	SEURE		Fifth Addl Unit Was Once Usual Residence	50
2108	SFURE		Sixth Addl Unit Was Once Usual Residence Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	50
2109	SAUNIT	85N	No. of Units Owned/Co-owned in Same Bldg As 1st Addl Unit	<u>85N</u> 50
2110	SBUNIT	87N	No. of Units Owned/Co-owned in Same Bldg As 2nd Addl Unit	50
2111	SCUNIT		No. of Units Owned/Co-owned in Same Bldg As 3rd Addl Unit	50
2112	SDUNIT		No. of Units Owned/Co-owned in Same Bldg As 4th Addl Unit	50
2113	SEUNIT		No. of Units Owned/Co-owned in Same Bldg As 5th Addl Unit	50
2114	SFUNIT		No. of Units Owned/Co-owned in Same Bldg as 6th Addl Unit Standard Codes For All Variables Are: 0-997 0 to 997 Addl Units 998 Not Answered 999 Not Applicable	50

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2115	SNUMX	85N	Line No Of First Additional Property	85N 51
2116	SNUMY	87N	Line No Of Second Additional Property	51
2117	SNUMZ		Line No Of Third Additional Property	51
			Standard Codes For All Variables Are: 1-6 Number of Property 8 Not Answered 9 Not Applicable	
			Note: The variables documented below are available for three second homes only. See the introduction to this section to determine how the three units are selected for further questions if the respondent reported owning more than three additional properties. The introduction also explains how to use the variables SNUMX-SNUMZ to link the data asked for 6 units (if applicable) to the data available for 3 units only.	
2118	SXURB	85N	First Second Home In Rural Or Urban Area	85N 51
2119	SYURB	87N	Second Second Home In Rural Or Urban Area	51
2120	SZURB		Third Second Home In Rural Or Urban Area	51
			Standard Codes For All Variables Are: 1 Rural 2 Urban 8 Not Answered 9 Not Applicable	
2121	SXRSRT	85N	First Addl Unit Is In A Recreational/Resort Area	85N 51
2122	SYRSRT	87N	Second Addl Unit Is In A Recreational/Resort Area	51
2123	SZRSRT		Third Addl Unit Is In A Recreational/Resort Area	51
			Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	
2124	SXTYPE	85N	Type Of Residence--First Addl Unit	85N 51
2125	SYTYPE	87N	Type Of Residence--Second Addl Unit	51
2126	SZTYPE		Type Of Residence--Third Addl Unit	51
			Standard Codes For All Variables Are: 1 A Single Family House 2 A Multi-Unit Building 3 An Apartment In A Multi-Unit Bldg 4 A Mobile Home 5 Some Other Type Of Residence	
2127	SXYRND	85N	First Addl Unit Is Suitable For Year Round Use	85N 51
2128	SYRND	87N	Second Addl Unit Is Suitable For Year Round Use	51
2129	SZYRND		Third Addl Unit Is Suitable For Year Round Use	51
			Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	
2130	SX150M	85N	First Addl Unit Within 150 Miles	85N 51
2131	SY150M	87N	Second Addl Unit Within 150 Miles	51
2132	SZ150M		Third Addl Unit Within 150 Miles	51
			Standard Codes For All Variables Are: 1 Yes 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	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2133	SXSHRD	85N	Ownership Of First Addl Unit Is Shared Out Of Hhld	85N
2134	SYSHRD	87N	Ownership Of Second Addl Unit Is Shared Out Of Hhld	51
2135	SZSHRD		Ownership Of Third Addl Unit Is Shared Out Of Hhld	51
			Standard Codes For All Variables Are:	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Appeared	
2136	SXPCT	85N	Share Of Ownership Of First Addl Unit in Percent	85N
2137	SYPCT	87N	Share Of Ownership Of Second Addl Unit in Percent	51
2138	SZPCT		Share Of Ownership Of Third Addl Unit in Percent	51
			Standard Codes For All Variables Are:	
			1-96 1 to 96 Percent	
			99 Ownership Not Shared, No Addl Properties, or Non-Interview	
2139	SXWKS	85N	Share Of Ownership Of First Addl Unit in Weeks If Pct Not Gi	85N
2140	SYWKS	87N	Share Of Ownership Of Second Addl Unit in Weeks If Pct Not G	51
2141	SZWKS		Share Of Ownership Of Third Addl Unit in Weeks If Pct Not Gi	51
			Standard Codes For All Variables Are:	
			1-52 1 to 52 Weeks	
			98 Not Answered	
			99 Not Applicable	
2142	SXVAL	85N	Value Of Share Of First Addl Unit on Market	85N
2143	SYVAL	87N	Value Of Share Of Second Addl Unit on Market	51
2144	SZVAL		Value Of Share Of Third Addl Unit on Market	51
			Standard Codes For All Variables Are:	
			1-999996 \$1-999,996	
			999998 Not Answered	
			999999 Not Applicable	
2145	SXMORT	85N	Mortgage Or Other Loan On First Addl Unit	85N
2146	SYMORT	87N	Mortgage Or Other Loan On Second Addl Unit	51
2147	SZMORT		Mortgage Or Other Loan On Third Addl Unit	51
			Standard Codes For All Variables Are:	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
2148	SXNITE	85N	Number Of Nights Spent At First Addl Unit Last Yr	85N
2149	SYNITE	87N	Number Of Nights Spent At Second Addl Unit Last Yr	51
2150	SZNITE		Number Of Nights Spent At Third Addl Unit Last Yr	51
			Standard Codes For All Variables Are:	
			0 None	
			1-365 1 to 365	
			998 Not Answered	
			999 Not Applicable	
2151	SXXURE	85N	Addl Res Unit Owned Because Was Prev Usual Res	85N
2152	SYXURE	87N	Second Res Unit Owned Because Was Prev Usual Res	G
2153	SZXURE		Third Addl Unit Owned Because Was Prev Usual Res	G
2154	SXREC		First Addl Unit Owned Because Used For Recreation	51
2155	SYREC		Second Addl Unit Owned Because Used For Recreation	51
2156	SZREC		Third Addl Unit Owned Because Used For Recreation	51
2157	SXINV		First Addl Unit Owned For Investment Purposes	51
2158	SYINV		Second Addl Unit Owned For Investment Purposes	51
2159	SZINV		Third Addl Unit Owned For Investment Purposes	51
2160	SXSEL		First Addl Unit Owned Because Not Able To Sell	51
2161	SYSEL		Second Addl Unit Owned Because Not Able To Sell	51
2162	SZSEL		Third Addl Unit Owned Because Not Able To Sell	51
2163	SXINH		First Addl Unit Owned Because It Was Inherited	51
2164	SYINH		Second Addl Unit Owned Because It Was Inherited	51
2165	SZINH		Third Addl Unit Owned Because It Was Inherited	51
2166	SXOTH		First Addl Unit Owned For Some Other Reason	51
2167	SYOTH		Second Addl Unit Owned For Some Other Reason	51
2168	SZOTH		Third Addl Unit Owned For Some Other Reason	52
			Standard Codes For All Variables Are:	
			0 No	
			1 Yes	
			8 Not Answered	
			9 Not Applicable	

Mobile homes or trailers are living quarters originally constructed to be towed on their own chassis. These include double wides, expandables, and single wides. Mobile homes placed on permanent foundations or with one or more permanent rooms attached are not counted as mobile homes.

All data for mobile homes and occupants of mobile homes which are (were) collected on a regular basis are included in the previous sections as appropriate, e.g., ownership costs or rental costs are included in the Housing Costs Section, while mobile home descriptors are included in the Tenure, Building, and Parking Section. This section documents supplemental variables which were collected in the 1980 and 1983 National Surveys and documents respondent's perception of mobile homes as a place to live and problems incurred during the transport and installation for mobile homes recently acquired. The section also includes a few descriptors for mobile homes which are not collected on an on-going basis.

The majority of the questions in this section are asked for all mobile homes in the sample, on less or more than 10 acres and apply to owners or renters as appropriate (see mobile homes on Table below).

## Mobile Homes

Variable Name	Owners		Renters
	On > 10 Acres	On > 10 Acres	
RECHM-WIDTH	Yes	Yes	Yes
WHOSET-LIMWRN	Acquired New Only	No	No
MHINYR	Yes	Yes	No
MHDAMG-NOOTH	If Put On Site In Last 12 Months	If Put On Site In Last 12 Months	No
MPO1-NP25	Yes	Yes	Yes
RDMGDL-ROTHDL	If Put On Site In Last 12 Months	If Put On Site In Last 12 Months	No
RPO1DL-RP25DL	Yes	Yes	Yes
RDMGM-ROTHM	If Put On Site In Last 12 Months	If Put On Site In Last 12 Months	No
RPO1M-RP25M	Yes	Yes	Yes
RDMGHM-ROTHHM	If Put On Site In Last 12 Months	If Put On Site In Last 12 Months	No
RPO1HM-RO25HM	Yes	Yes	Yes
RDMGHP-ROTHHP	If Put On Site In Last 12 Months	If Put On Site In Last 12 Months	No
RPO1SE-RO25SE	Yes	Yes	Yes
RDMGNR-ROTHNR	If Put On Site In Last 12 Months	If Put On Site In Last 12 Months	No
RPO1NR-RO25NR	Yes	Yes	Yes
MODOR2	Yes	Yes	Yes
MHRED	Yes	Yes	Yes

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2169	NUMSIT	80N 83N	Number Of Sites Mobile Home Placed On Since Owned 1 1 2 2-3 3 4 Or More 8 Not Answered 9 Not Applicable	<u>83N</u> 36
2170	RECMH	80N 83N	Mobile Home Living Recommended 1 Yes 2 Sometimes 3 No 8 Not Answered 9 Not Applicable	<u>83N</u> 38
2171	HOWMH	80N 83N	Rating Of This Mobile Home As Place To Live 1 Excellent 2 Good 3 Fair 4 Poor 8 Not Answered 9 Not Applicable	<u>83N</u> 38
Reason For Dissatisfaction with Mobile Home				
2172	WBLOC	80N	1 Mob Hm Unsatisf-Bad Loc/Neighbhd Probs/Commuting	<u>83N</u> 38
2173	WBQUAL	83N	2 Mob Hm Unsatisf-Quality of Constr/Workmshp	38
2174	WBSIZE		3 Mob Hm Unsatisf-Size (Too Large/Too Small)	38
2175	WBSAFE		4 Mob Hm Unsatisf-Safety	38
2176	WBXPEN		5 Mob Hm Unsatisf-Too Exp. Util/Maint Charges/Fees	38
2177	WBNVST		6 Mob Hm Unsatisf-Bad Investment	38
The Codes Unique To Each Variable Are Shown Above: Standard Codes for All Variables Are: 0 This Answer Not Given 9 Not Answered Or Not Applicable				
Note: To distinguish between Not Answered and Not Applicable, use WBOTHR.				
2178	WBOTHR	80N 83N	Mob Hm Unsatisf-Other Reason 0 This Answer Not Given 7 Mob Hm Unsatisfactory-Other Reason 8 Not Answered 9 Not Applicable	<u>83N</u> 38
2179	PARKSZ	75N-77N 76S-81S	Number of Mobile Homes in Large Group <u>75N-77N</u> <u>76S-81S</u> 1 1 6-99 2 2 100 Or More 8 8 Not Answered 9 9 Not Applicable	<u>77N</u> <u>81S</u> 33 33
2180	NUMMOB	80N 83N	No. of Mobile Homes Owned/Rented As Primary Residence <u>80N</u> <u>83N</u> 0 None 1 1 One 2 2 Two 3 3 Three Or More 8 8 Not Answered 9 9 Not Applicable	<u>83N</u> 31
2181	SETUP	80N 83N	Mobile Home Set Up 1 Permanent Masonry Foundation 2 Concrete Pad 3 On Blocks, No Concrete Pad 4 Other 8 Not Answered 9 Not Applicable	<u>83N</u> 31
2182	WIDE	80N 83N	Mobile Home Single-Wide Or Double Wide 1 Single-Wide 2 Double-Wide 8 Not Answered 9 Not Applicable	<u>83N</u> 31

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2183	WIDTH	80N 83N	Width of Mobile Home 1 Less Than 8 Feet 2 8 Feet 3 10 Feet 4 12 Feet 5 14 Feet 6 16 Feet 7 20 Feet 8 24 Feet Or More 98 Not Answered 99 Not Applicable	<u>83N</u> 31
2184	WHOSET	80N 83N	Who Set Up Mobile Home On This Site 1 Dealer 2 Professional Employed By Dealer Or Park 3 Professional Mover Or Transport Company Which Specializes In Mobile Home Installation 4 Manufacturer 5 Household Member 6 Other 8 Not Answered 9 Not Applicable	<u>83N</u> 31
2185	OWNMAN	80N	Received Owner's Manual When Mobile Home Acquired	<u>83N</u> 32
2186	OWNCARD	83N	Received Owner Info Card When Mobile Home Acquired	32
2187	INSTRC		Received Set-Up Or Installation Instructions	32
2188	WRNTE		Mobile Home Fully Warranted	40
2189	LIMWRN		Received Limited Warranty on Mobile Home For All Variables, Standard Codes Are: 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	32
2190	MHINYR	80N 83N	Mobile Home Placed On Site In Past 12 Months 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 32
2191	MHDAMG	80N	Mobile Home Damaged During Transport	<u>83N</u> 32
2192	MHUTIL	83N	Problems With Utility Connection At Installation	32
2193	LEVL		Mobile Home Correctly Leveled At Installation	33
2194	NOLEVL		Problems With Incorrect Leveling At Installation	33
2195	INSTAL		Any Other Installation Problems For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	33
2196	DAMAG1	83N	Damages Occurred During Transport, 1st Prob Reported 1 Door Damage 2 Roof Damage 3 Window Damage 4 Axle Or Wheels Damage 5 Other Exterior Damage 6 Interior Damage 7 Other Damage 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use The Variable DAMAG3.	<u>83N</u> G

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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2197	DAMAG2	83N	Damages Occurred During Transport, 2nd Prob Reported 0 No Second Problem 1 Door Damage 2 Roof Damage 3 Window Damage 4 Axle Or Wheels Damage 5 Other Exterior Damage 6 Interior Damage 7 Other Damage 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use The Variable DAMAG3.	<u>83N</u> G
2198	DAMAG3	83N	Damages Occurred During Transport, 3rd Prob Reported 0 No Third Problem 1 Door Damage 2 Roof Damage 3 Window Damage 4 Axle Or Wheels Damage 5 Other Exterior Damage 6 Interior Damage 7 Other Damage 8 Not Answered 9 Not Applicable	<u>83N</u> G
2199	LEVEL1	83N	Leveling Problems At Installation, 1st Prob Reported 1 Door 2 Window 3 Walls 4 Other Leveling Problems 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use The Variable LEVEL3.	<u>83N</u> G
2200	LEVEL2	83N	Leveling Problems At Installation, 2nd Prob Reported 0 No Second Problem 1 Door 2 Window 3 Walls 4 Other Leveling Problems 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use The Variable LEVEL3.	<u>83N</u> G
2201	LEVEL3	83N	Leveling Problems At Installation, 3rd Prob Reported 0 No Third Problem 1 Door 2 Window 3 Walls 4 Other Leveling Problems 8 Not Answered 9 Not Applicable	<u>83N</u> G
2202	OTPRB1	83N	Other Problems At Installation, 1st Problem Reported 1 Plumbing Excl Hookups (Water/Sewage) 2 Utility Hook-up 3 Other Utility Problem 4 Joining Double-Wide Sections 5 Other Problem 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use The Variable OTPRB3.	<u>83N</u> G
2203	OTPRB2	83N	Other Problems At Installation, 2nd Problem Reported 0 No Second Problem 1 Plumbing Excl Hookups (Water/Sewage) 2 Utility Hookup 3 Other Utility Problem 4 Joining Double-Wide Sections 5 Other Problem 9 Not Answered Or Not Applicable Note: To Distinguish Between Not Answered And Not Applicable, Use The Variable OTPRB3.	<u>83N</u> G

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2204	OTPRB3	83N	Other Problems At Installation, 3rd Problem Reported 0 No Third Problem 1 Plumbing Excl Hookups (Water/Sewage) 2 Utility Hookup 3 Other Utility Problem 4 Joining Double-Wide Sections 5 Other Problem 8 Not Answered 9 Not Applicable	<u>83N</u> G
2205	NOELEC	80N	1 Electricity Didn't Work At Installation	<u>83N</u> 32
2206	NONGAS	83N	2 Natural Gas Didn't Work At Installation	32
2207	NOBGAS		3 Bottled Gas Didn't Work At Installation	32
2208	NOWTR		4 Water Supply Didn't Work At Installation	32
2209	NOSEW		5 Sewage Disposal Didn't Work At Installation	32
The Codes Unique To Each Variable Are Shown Above: Standard Codes For All Variables are: 0 This Utility Connection Worked 9 Not Applicable or Not Answered				
Note: To distinguish between Not Answered and Not Applicable, use the variable NOOTH.				
2210	NOOTH	80N 83N	Other Utilities Didn't Work At Installation 0 Other Utility Connection, If Any, Worked 6 Other Utility Connections Did Not Work 8 Not Answered 9 Not Applicable	<u>83N</u> 32
2211	MPO1	80N 83N	Uneven Settling: Blocks/Foundation/Supports-Past 12 Mo. 1 Yes, Problem Present In Past 12 Mos. 2 No, Problem Not Present In Past 12 Mos. 8 Not Answered 9 Not Applicable	<u>83N</u> 34
2212	MPO2	80N 83N	Problems W/Joining of Double-Wide Sections-Past 12 Mo. <u>80N 83N</u> 1 1 Yes, Problem Was Present In Past 12 Mos. 2 2 No, Problem Was Not Present In Past 12 Mos. 3 Single-Wide 8 8 Not Answered 9 Single-Wide or Not Applicable 9 Not Applicable	<u>83N</u> 34
2213	MPO3	80N	Leaks In Roof-Past 12 Mo.	<u>83N</u> 34
2214	MPO4	83N	Other Roof Problems-Past 12 Mo.	34
2215	MPO5		Warped Siding Or Other Siding Problems-Past 12 Mo.	34
2216	MPO6		Air Leaks In Walls-Past 12 Mo.	34
2217	MPO7		Inoperative Doors Or Windows-Past 12 Mo.	34
2218	MPO8		Other Outside Wall Problems-Past 12 Mo.	34
2219	MPO9		Buckling Of Inside Walls-Past 12 Mo.	34
2220	MP10		Other Inside Wall Problems-Past 12 Mo.	34
2221	MP11		Buckling Floors-Past 12 Mo.	34
2222	MP12		Holes In Floors-Past 12 Mo.	34
2223	MP13		Other Floor Problems-Past 12 Mo.	34
2224	MP14		Problems With Electrical Wiring-Past 12 Mo.	34
2225	MP15		Prob W/Electrical Fixtures, Outlets, Etc.-Past 12 Mo.	34
2226	MP16		Prob W/Large Appliance Brkdwns-Orig Equip-Past 12 Mo.	34
2227	MP17		Other Electrical Problems-Past 12 Mo.	34
2228	MP18		Leaking Pipes Or Plumbing Fixtures-Past 12 Mo.	34
2229	MP19		Water Heater Problems-Past 12 Mo.	34
2230	MP20		Sewer Or Septic Tank Problems-Past 12 Mo.	34
2231	MP21		Other Plumbing Problems-Past 12 Mo. For all variables, standard codes are: 1 Yes, Problem Was Present In Past 12 Months 2 No, Problem Was Not Present In Past 12 Months 8 Not Answered 9 Not Applicable	34

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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2232	MP22	80N	Htng Equip Brkdwn, Unusable 6+ Consec Hrs-Past 12 Mo.	<u>83N</u> 34
2233	MP23	83N	Other Heating Problems-Past 12 Mo.	34
2234	MP24		Air Conditioning Problem-past 12 Mo. For All Variables, Standard Codes Are: <u>80N</u> <u>83N</u>	34
			1 1 Yes, Problem Was Present In Past 12 Months	
			2 2 No, Problem Was Not Present In Past 12 Months	
			3 No Heating Or Cooling Equipment	
			8 8 Not Answered	
			9 No Heating/Cooling Equip Or Not Applicable	
			9 Not Applicable	
2235	MP25	80N	Problems With Interior Odors or Fumes-Past 12 Mo.	<u>83N</u> 34
		83N	1 Yes, Problem Was Present in Past 12 Months	
			2 No, Problem Was Not Present In Past 12 Months	
			8 Not Answered	
			9 Not Applicable	
2236	NPO1	80N	# of Uneven Settlements--Blocks/Found/Support-Past 12 Mo	<u>83N</u> 35
2237	NPO2	83N	# of Probs W/Joining of Double-Wide Sections-Past 12 Mo	35
2238	NPO3		# of Leaks in Roof-Past 12 Mo	35
2239	NPO4		# Other Roof Problems-Past 12 Mo	35
2240	NPO5		# Warped/Other Siding Problems-Past 12 Mo	35
2241	NPO6		# Air Leaks in Walls-Past 12 Mo	35
2242	NPO7		# Inoperative Doors/Windows-Past 12 Mo	35
2243	NPO8		# Other Outside Wall Problems-Past 12 Mo	35
2244	NPO9		# Problems W/Buckling Inside Walls-Past 12 Mo	35
2245	NP10		# Other Inside Wall Problems-Past 12 Mo	35
2246	NP11		# Buckling Floor Problems-Past 12 Mo	35
2247	NP12		# Floor Problems-Past 12 Mo	35
2248	NP13		# Other Floor Problems-Past 12 Mo	35
2249	NP14		# Probs W/Electrical Wiring-Past 12 Mo	35
2250	NP15		# Probs W/Elec Fixtures, Outlets, etc.-Past 12 Mo	35
2251	NP16		# Large Appl Breakdowns-Orig Equip-Past 12 Mo	35
2252	NP17		# Other Electrical Problems-Past 12 Mo	35
2253	NP18		# Leaky Pipe/Plumb Fixture Probs-Past 12 Mo	35
2254	NP19		# Water Heater Problems-Past 12 Mo	35
2255	NP20		# Sewer/Septic Tank Problems-Past 12 Mo	35
2256	NP21		# Other Plumbing Problems-Past 12 Mo	35
2257	NP22		# Heating Eq Breakdowns, 6+ Hrs-Past 12 Mo	35
2258	NP23		# Other Heating Problems-Past 12 Mo	35
2259	NP24		# Air Conditioning Problems-Past 12 Mo	35
2260	NP25		# Probs W/Interior Odors or Fumes-Past 12 Mo For all variables, standard codes are: 0-97 Problem Occured 0-97 Times 98 Not Answered 99 Not Applicable or Not Answered	35

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>83N</u>
2261	RDMGDL	80N	Dealer Fixed Damage Caused By Transport Or Inst	32
2262	RUTLDL	83N	Dealer Fixed Prob W/Utility Connections At Installation	32
2263	RLVLDL		Dealer Fixed Problem With Leveling At Installation	33
2264	ROTHDL		Dealer Fixed Other Installation Problems	33
2265	RPO1DL		Dealer Fixed Uneven Settling: Blocks/Fndtns/Supprts	35
2266	RPO2DL		Dealer Fixed Probs With Joining of Double-Wide Sections	35
2267	RPO3DL		Dealer Fixed Leaks In Roof	35
2268	RPO4DL		Dealer Fixed Other Roof Probs	35
2269	RPO5DL		Dealer Fixed Warped Siding Or Other Siding Probs	35
2270	RPO6DL		Dealer Fixed Air Leaks In Walls	35
2271	RPO7DL		Dealer Fixed Inoperative Doors Or Windows	35
2272	RPO8DL		Dealer Fixed Other Outside Wall Probs	35
2273	RPO9DL		Dealer Fixed Buckling Of Inside Walls	35
2274	RP10DL		Dealer Fixed Other Inside Wall Probs	35
2275	RP11DL		Dealer Fixed Buckling Floors	35
2276	RP12DL		Dealer Fixed Holes In Floors	35
2277	RP13DL		Dealer Fixed Other Floor Problems	35
2278	RP14DL		Dealer Fixed Probs W/Electrical Wiring	35
2279	RP15DL		Dealer Fixed Probs W/Electrical Fixtures, Outlets, Etc.	35
2280	RP16DL		Dealer Fixed Lg Appliance Brkdwns (Orig Equip Only)	35
2281	RP17DL		Dealer Fixed Other Electrical Problems	35
2282	RP18DL		Dealer Fixed Leaking Pipes Or Plumbing Fixtures	35
2283	RP19DL		Dealer Fixed Water Heater Problems	35
2284	RP20DL		Dealer Fixed Sewer Or Septic Tank Problems	35
2285	RP21DL		Dealer Fixed Other Plumbing Problems	35
2286	RP22DL		Dealer Fixed Htg Equip Brkdwns, 6+ Consec. Hrs.	35
2287	RP23DL		Dealer Fixed Other Heating Problems	35
2288	RP24DL		Dealer Fixed Air Conditioning Problems	35
2289	RP25DL		Dealer Fixed Probs With Interior Odors Or Fumes	35

For all variables, standard codes are:

0 This Answer Not Given

1 Repaired By Dealer Or Someone Hired by Dealer

9 Not Answered or Not Applicable

Note: See RDMGNR-RP25NR if you need to distinguish between Not Answered and Not Applicable.

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

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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2290	RDMGM	80N	Manufacturer Fixed Damage Caused By Transport Or Inst	83N 32
2291	RUTLM	83N	Manufacturer Fixed Problem With Utility Connections	32
2292	RLVLM		Manufacturer Fixed Problem With Leveling At Instal	33
2293	ROTHM		Manufacturer Fixed Other Installation Problems	33
2294	RPO1M		Manufacturer Fixed Other Electrical Problems	35
2295	RPO2M		Manufacturer Fixed Leaking Pipes Or Plumbing Fixtures	35
2296	RPO3M		Manufacturer Fixed Water Heater Problems	35
2297	RPO4M		Manufacturer Fixed Sewer Or Septic Tank Problems	35
2298	RPO5M		Manufacturer Fixed Other Electrical Problems	35
2299	RPO6M		Manufacturer Fixed Leaking Pipes Or Plumbing Fixtures	35
2300	RPO7M		Manufacturer Fixed Water Heater Problems	35
2301	RPO8M		Manufacturer Fixed Sewer Or Septic Tank Problems	35
2302	RPO9M		Manufacturer Fixed Other Electrical Problems	35
2303	RP10M		Manufacturer Fixed Leaking Pipes Or Plumbing Fixtures	35
2304	RP11M		Manufacturer Fixed Water Heater Problems	35
2305	RP12M		Manufacturer Fixed Sewer Or Septic Tank Problems	35
2306	RP13M		Manufacturer Fixed Other Electrical Problems	35
2307	RP14M		Manufacturer Fixed Leaking Pipes Or Plumbing Fixtures	35
2308	RP15M		Manufacturer Fixed Water Heater Problems	35
2309	RP16M		Manufacturer Fixed Sewer Or Septic Tank Problems	35
2310	RP17M		Manufacturer Fixed Other Electrical Problems	35
2311	RP18M		Manufacturer Fixed Leaking Pipes Or Plumbing Fixtures	35
2312	RP19M		Manufacturer Fixed Water Heater Problems	35
2313	RP20M		Manufacturer Fixed Sewer Or Septic Tank Problems	35
2314	RP21M		Manufacturer Fixed Other Plumbing Problems	35
2315	RP22M		Manufacturer Fixed Htng Equip Brkdwns, 6 + Consec Hrs.	35
2316	RP23M		Manufacturer Fixed Other Heating Problems	35
2317	RP24M		Manufacturer Fixed Air Conditioning Problems	35
2318	RP25M		Manufacturer Fixed Probs With Interior Odors Or Fumes	35

For all variables, standard codes are:

0 This Answer Not Given

2 Repaired By Manufacturer Or Someone  
Hired by Manufacturer

9 Not Answered or Not Applicable

Note: See RDMGMR-RP25NR if you need to distinguish  
between Not Answered and Not Applicable.

2319	RDMGHM	80N	HH Member Fixed Damage Caused By Transport Or Inst	83N 32
2320	RUTLHM	83N	HH Member Fixed Problem With Utility Connections	32
2321	RLVLHM		HH Member Fixed Problem With Leveling At Installation	33
2322	ROTHHM		HH Member Fixed Other Installation Problems	33
2323	RPO1HM		HH Member Fixed Uneven Settling	35
2324	RPO2HM		HH Member Fixed Probs W/Joining of Double-Wide Sections	35
2325	RPO3HM		HH Member Fixed Leaks In Roof	35
2326	RPO4HM		HH Member Fixed Other Roof Problems	35
2327	RPO5HM		HH Member Fixed Warped Siding Or Other Siding Probs	35
2328	RPO6HM		HH Member Fixed Air Leaks In Walls	35
2329	RPO7HM		HH Member Fixed Inoperative Doors Or Windows	35
2330	RPO8HM		HH Member Fixed Other Outside Wall Problems	35
2331	RPO9HM		HH Member Fixed Buckling Of Inside Walls	35
2332	RP10HM		HH Member Fixed Other Inside Wall Problems	35
2333	RP11HM		HH Member Fixed Buckling Floors	35
2334	RP12HM		HH Member Fixed Holes In Floors	35
2335	RP13HM		HH Member Fixed Other Floor Problems	35
2336	RP14HM		HH Member Fixed Probs W/Elect Wiring	35
2337	RP15HM		HH Member Fixed Probs W/Elect Fixtures, Outlets, Etc.	35
2338	RP16HM		HH Member Fixed Lg Appliance Brkdwns (Orig Equip Only)	35
2339	RP17HM		HH Member Fixed Other Electrical Problems	35
2340	RP18HM		HH Member Fixed Leaking Pipes Or Plumbing Fixtures	35
2341	RP19HM		HH Member Fixed Water Heater Problems	35
2342	RP20HM		HH Member Fixed Sewer Or Septic Tank Problems	35
2343	RP21HM		HH Member Fixed Other Plumbing Problems	35
2344	RP22HM		HH Member Fixed Htng Equip Brkdwn, 6 Consec Hrs.	35
2345	RP23HM		HH Member Fixed Other Heating Problems	35
2346	RP24HM		HH Member Fixed Air Conditioning Problem	35
2347	RP25HM		HH Member Fixed Probs With Interior Odors Or Fumes	35

For all variables, standard codes are:

0 This Answer Not Given

3 Repaired By A Household Member

9 Not Answered or Not Applicable

Note: See RDMGMR-RP25NR if you need to distinguish  
between Not Answered and Not Applicable.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>83N</u>
2348	RDMGHP	80N	Person Hired Fixed Damage Caused By Transport Or Inst	32
2349	RUTLHP	83N	Person Hired Fixed Problem With Utility Connections	32
2350	RLVLHP		Person Hired Fixed Problem With Leveling	33
2351	ROTHHP		Person Hired Fixed Other Installation Problems	33
2352	RPO1HP		Person Hired Fixed Uneven Settling	35
2353	RPO2HP		Person Hired Fixed Probs W/Joining of Dble-Wide Sectns	35
2354	RPO3HP		Person Hired Fixed Leaks In Roof	35
2355	RPO4HP		Person Hired Fixed Other Roof Problems	35
2356	RPO5HP		Person Hired Fixed Warped Siding/Other Siding Probs	35
2357	RPO6HP		Person Hired Fixed Air Leaks In Walls	35
2358	RPO7HP		Person Hired Fixed Inoperative Doors Or Windows	35
2359	RPO8HP		Person Hired Fixed Other Outside Wall Problems	35
2360	RPO9HP		Person Hired Fixed Buckling Of Inside Walls	35
2361	RP10HP		Person Hired Fixed Other Inside Wall Problems	35
2362	RP11HP		Person Hired Fixed Buckling Floors	35
2363	RP12HP		Person Hired Fixed Holes In Floors	35
2364	RP13HP		Person Hired Fixed Other Floor Problems	35
2365	RP14HP		Person Hired Fixed Probs W/Elect Wiring	35
2366	RP15HP		Person Hired Fixed Probs W/Elect Fxtrs, Outlets, Etc.	35
2367	RP16HP		Person Hired Fixed Lg Appl Brkdwns (Orig Equip Only)	35
2368	RP17HP		Person Hired Fixed Other Electrical Problems	35
2369	RP18HP		Person Hired Fixed Leaking Pipes Or Plumbing Fixtures	35
2370	RP19HP		Person Hired Fixed Water Heater Problems	35
2371	RP20HP		Person Hired Fixed Sewer Or Septic Tank Problems	35
2372	RP21HP		Person Hired Fixed Other Plumbing Problems	35
2373	RP22HP		Person Hired Fixed Htng Equip Brkdwn, 6 Consec Hrs.	35
2374	RP23HP		Person Hired Fixed Other Heating Problems	35
2375	RP24HP		Person Hired Fixed Air Conditioning Problem	35
2376	RP25HP		Person Hired Fixed Probs With Interior Odors Or Fumes	35

For all variables, standard codes are:

0 This Answer Not Given

4 Repaired By Someone Hired By Household Member

9 Not Answered or Not Applicable

Note: See RDMGNR-RP25NR if you need to distinguish between Not Answered and Not Applicable.

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

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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>83N</u>
2377	RDMGSE	80N	Someone Else Fixed Damage Caused By Transport Or Inst	32
2378	RUTLSE	83N	Someone Else Fixed Problem With Utility Connections	32
2379	RLVLSE		Someone Else Fixed Problem With Leveling	33
2380	ROTHSE		Someone Else Fixed Other Installation Problems	33
2381	RPO1SE		Someone Else Fixed Uneven Settling	35
2382	RP02SE		Someone Else Fixed Probs W/Joining of Dbl-Wide Sectns	35
2383	RP03SE		Someone Else Fixed Leaks In Roof	35
2384	RP04SE		Someone Else Fixed Other Roof Problems	35
2385	RP05SE		Someone Else Fixed Warped Siding/Other Siding Probs	35
2386	RP06SE		Someone Else Fixed Air Leaks In Walls	35
2387	RP07SE		Someone Else Fixed Inoperative Doors Or Windows	35
2388	RP08SE		Someone Else Fixed Other Outside Wall Problems	35
2389	RP09SE		Someone Else Fixed Buckling Of Inside Walls	35
2390	RP10SE		Someone Else Fixed Other Inside Wall Problems	35
2391	RP11SE		Someone Else Fixed Buckling Floors	35
2392	RP12SE		Someone Else Fixed Holes In Floors	35
2393	RP13SE		Someone Else Fixed Other Floor Problems	35
2394	RP14SE		Someone Else Fixed Probs W/Elect Wiring	35
2395	RP15SE		Someone Else Fixed Probs W/Elect Fixtures, Outlets, Etc.	35
2396	RP16SE		Someone Else Fixed Lg Appliance Brkdwns (Orig Equip)	35
2397	RP17SE		Someone Else Fixed Other Electrical Problems	35
2398	RP18SE		Someone Else Fixed Leaking Pipes Or Plumbing Fixtures	35
2399	RP19SE		Someone Else Fixed Water Heater Problems	35
2400	RP20SE		Someone Else Fixed Sewer Or Septic Tank Problems	35
2401	RP21SE		Someone Else Fixed Other Plumbing Problems	35
2402	RP22SE		Someone Else Fixed Htg Equip Brkdwn, 6 Consec Hrs.	35
2403	RP23SE		Someone Else Fixed Other Heating Problems	35
2404	RP24SE		Someone Else Fixed Air Conditioning Problem	35
2405	RP25SE		Someone Else Fixed Probs With Interior Odors Or Fumes	35

For all variables, standard codes are:

- 0 This Answer Not Given
- 5 Repaired By Someone Else
- 9 Not Answered or Not Applicable

Note: See RDMGNN-RP25NR if you need to distinguish between Not Answered and Not Applicable.

				<u>83N</u>
2406	RDMGNN	80N	Damage Caused By Transport Or Inst Not Repaired	32
2407	RUTLNN	83N	Problem With Utility Connections Not Repaired	32
2408	RLVLNN		Problem With Leveling Not Repaired	33
2409	ROTHNN		Other Installation Problems Not Repaired	33
2410	RPO1NN		Uneven Settling Not Fixed	35
2411	RP02NN		Probs W/Joining of Double-Wide Sections Not Fixed	35
2412	RP03NN		Leaks In Roof Not Fixed	35
2413	RP04NN		Other Roof Problems Not Fixed	35
2414	RP05NN		Warped Siding Or Other Siding Problems Not Fixed	35
2415	RP06NN		Air Leaks In Walls Not Fixed	35
2416	RP07NN		Inoperative Doors Or Windows Not Fixed	35
2417	RP08NN		Other Outside Wall Problems Not Fixed	35
2418	RP09NN		Buckling Of Inside Walls Not Fixed	35
2419	RP10NN		Other Inside Wall Problems Not Fixed	35
2420	RP11NN		Buckling Floors Not Fixed	35
2421	RP12NN		Holes In Floors Not Fixed	35
2422	RP13NN		Other Floor Problems Not Fixed	35
2423	RP14NN		Problems With Electrical Wiring Not Fixed	35
2424	RP15NN		Probs W/Elect Fixtures, Outlets, Etc. Not Fixed	35
2425	RP16NN		Large Appliance Brkdwns (Orig Equip Only) Not Fixed	35
2426	RP17NN		Other Electrical Problems Not Fixed	35
2427	RP18NN		Leaking Pipes Or Plumbing Fixtures Not Fixed	35
2428	RP19NN		Water Heater Problems Not Fixed	35
2429	RP20NN		Sewer Or Septic Tank Problems Not Fixed	35
2430	RP21NN		Other Plumbing Problems Not Fixed	35
2431	RP22NN		Htg Equip Brkdwns, 6 Or More Consec Hrs. Not Fixed	35
2432	RP23NN		Other Heating Problems Not Fixed	35
2433	RP24NN		Air Conditioning Problem Not Fixed	35
2434	RP25NN		Problems With Interior Odors Or Fumes Not Fixed	35

For all variables, standard codes are:

- 0 This Answer Not Given
- 6 Problem Not Repaired
- 8 Not Answered
- 9 Not Applicable

				<u>83N</u>
2435	MODOR2	80N	Cause Of Odors Or Fumes	36
		83N	1 Formaldehyde	
			2 Other	
			3 Don't Know	
			8 Not Answered	
			9 Not Applicable	

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

2436	MHRED	80N 83N	Mobile Home Has Red Metal Manufacturer's Label	
			1 Yes	
			2 No	
			3 Don't Know	
			8 Not Answered	
			9 Not Applicable	

83N  
36

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

The neatly detailed combination of horizontal and vertical siding on the building's facade reflects common regional material usages. Other treatments required to satisfy differing market conditions are possible.

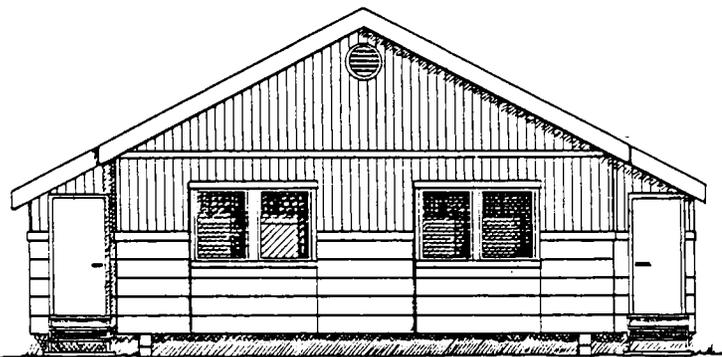
### Cost Considerations

While the superinsulated construction techniques require more labor and material than conventional construction, the projected 60% fuel savings and reduced heating equipment costs, through the use of an oil-fired hot water heater with a minimal heating loop, combine

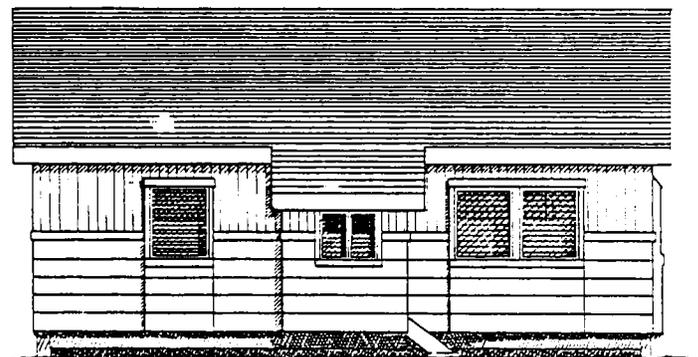
to make the house competitive in price and highly cost effective in terms of operations and maintenance. Superinsulated concepts are also applicable to other far-north regions in addition to Alaska.

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#### Elevations



South Elevation



West Elevation

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This section contains items related to disabilities and handicaps. Detailed information is available on conditions affecting members of the household, availability of special features in the unit such as ramps, handrails, grab bars, etc., and respondent's perception of which special features would facilitate disabled and/or handicapped persons to get around in the unit.

Disability data are available for the 1978 National Survey and the 1979, 1980, 1981 and 1982 SMSA Surveys.

DISABILITIES

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
2437	DISABL	82S	Number of Disabled Persons In Household 1-7 1-7 Disabled Persons 8 Not Answered 9 Not Applicable		<u>82S</u> G
2438	INOUT	78N 79S-82S	Any HH Member Have Dffclty Getting In/Out House/Apt Bldg <u>78N</u> <u>79S-82S</u> 1 1 Yes 5 2 No 8 8 Not Answered 9 9 Not Applicable	<u>78N</u> 38	<u>82S</u> 34
2439	AROUND	78N 79S-82S	Any HH Mem Have Dffclty Getting Around Inside Hse/Apt. <u>78N</u> <u>79S-82S</u> 2 1 Yes 5 2 No 8 8 Not Answered 9 9 Not Applicable	<u>78N</u> 38	<u>82S</u> 34
2440	UPDOWN	78N 79S-82S	Any HH Member Have Dffclty Going Up/Down Stairs <u>78N</u> <u>79S-82S</u> 3 1 Yes 5 2 No 8 8 Not Answered 9 9 Not Applicable	<u>78N</u> 38	<u>82S</u> 34
2441	USEQUI	78N 79S-82S	Any Household Member Have Difficulty Using Equipment - The Bathroom Facilities, Kitchen Equipment Or Other Equipment In This House/Apartment <u>78N</u> <u>79S-82S</u> 4 1 Yes 5 2 No 8 8 Not Answered 9 9 Not Applicable	<u>78N</u> 38	<u>82S</u> 34
2442	DIFFNO	78N	Any HH Member Have Difficulty Getting Around 00 Some Difficulty 05 No Difficulties 08 Not Answered 09 Not Applicable	<u>78N</u> 38	
2443	RIDDEN	78N	Any HH Member Completely Bedridden 00 No One In Household Is Bedridden 06 Person Completely Bedridden 98 Not Answered 99 Not Applicable	<u>78N</u> 38	

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

Disability Conditions Present In Household Member(s)

REF#	NAME	SURVEYS	DESCRIPTION	78N
2444	ASTHMA	78N	11 Asthma	38
2445	TUBERC		12 Tuberculosis	38
2446	BRONCH		13 Bronchitis	38
2447	EMPHY		14 Emphysema	38
2448	LUNGO		15 Other Lung Problem (Includes Bronchitis and Emphysema In SMSA Surveys)	38
2449	ATTACK		16 Effects of Heart Attack	38
2450	HEARTO		17 Any Other Heart Trouble	38
2451	STROKE		18 Effects of Stroke	38
2452	ARTH		19 Arthritis Or Rheumatism	38
2453	EPILEP		20 Convulsions Or Epileptic Seizures	38
2454	PALSY		21 Cerebral Palsy	38
2455	DEAF		22 Deafness Or Serious Trouble Hearing	38
2456	BLIND		23 Blindness Or Serious Trouble Seeing	38
2457	LEGSM		24 Missing Legs, Feet Or Toes	38
2458	ARMSM		25 Missing Arms, Hands Or Fingers	38
2459	LIMBST		26 Chronic Stiffness Or Deformity Of Foot, Leg, Arm Or Hand	38
2460	BACKST		27 Chronic Stiffness/Deformity Of Back/Spine	38
2461	BACKO		28 Other Back Or Spine Trouble	38
2462	PARAL		29 Paralysis	38
2463	THUD		40 HBP Or Hypertension	38
2464	DIABET		41 Diabetes	38
2465	PARKIN		42 Parkinson's Disease	38
2466	CANCER		43 Cancer Or Other Tumor, Growth Or Cyst	38
2467	ARTERY		44 Hardening Of The Arteries	38
2468	SENILE		45 Senility	38
2469	PARIS		60 Infective and Parasitic Diseases	38
2470	TUMOR		61 Neoplasms	38
2471	DIET		62 Endocrine, Nutritional, and Metabolic Diseases	38
2472	BLOOD		63 Diseases Of The Blood / Blood Forming Organs	38
2473	MENTAL		64 Mental Disorders	38
2474	NERVES		65 Diseases Of The Nervous System & Sense Organs	38
2475	CIRCLE		66 Diseases Of The Circulatory System	38
2476	COUGH		67 Diseases Of The Respiratory System	38
2477	DIGEST		68 Diseases Of The Digestive System	38
2478	UROL		69 Diseases Of The Genitourinary System	38
2479	MUSCLE		70 Diseases Of The Musculoskeletal System and Connective Tissue	38
2480	ANOMLY		71 Congenital Anomalies	38
2481	TEMPO		72 Temporary Conditions	38
2482	CONDOR		30 Other Conditions	38

For All Variables, Standard Codes Are:

- 00 No One In Household Has the Specific Condition
- 98 Not Answered
- 99 Not Applicable

REF#	NAME	SURVEYS	DESCRIPTION	78N	82S
2483	CONDNO	78N 79S-82S	Any Disabling Conditions Present In Household	38	34
			78N 79S-82S		
			0 1 Someone in Household has Disabling Cond.		
			31 2 No One in Household has Disabling Cond.		
			98 8 Not Answered		
			99 9 Not Applicable		

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
House/Apartment Features To Aid Disabled Present					
		78N	<u>78N 79S-82S</u>	<u>78N</u>	<u>82S</u>
2484	HRAIL	79S-82S	11 1 Extra Handrails Or Grabbers Present	39	35
2485	HRAMP		12 2 Ramps Present	39	35
2486	HELEV		13 3 Elevator Present	39	36
2487	HWIDE		14 4 Extra Wide Doors Or Hallways Present	39	35
2488	HHNDL		15 5 Door Handles Instead of Knobs Present	39	35
2489	HRAIS		16 6 Raised Lettering Or Braille Present	39	35
2490	HPUSH		17 7 Push Bars Present	39	35
2491	HSINK		18 8 Special Sink, Faucets Or Cabinets Present	39	35
The Codes Unique to Each Variable are Shown Above; Standard Codes Are:					
			<u>78N 79S-82S</u>		
			00 0 Feature Not Present		
			98 Not Answered		
			99 Not Applicable		
			9 Not Answered or Not Applicable		
Note: In 79S-82S, use HNO to distinguish between Not Answered and Not Applicable.					
2492	HCKT	78N	Special Wall Sockets Or Light Switches Present	<u>78N</u>	<u>82S</u>
		79S-82S	<u>78N 79S-82S</u>	39	35
			00 0 Feature Not Present		
			19 Feature Present		
			9 Feature Present, Not Answered or Not Applicable		
			98 Not Answered		
			99 Not Applicable		
			99 Not Answered Or Not Applicable		
Note: In 79S-82S, use HNO to distinguish between Not Answered and Not Applicable.					
House/Apartment Features To Aid Disabled Present (cont.)					
		78N	<u>78N 79S-82S</u>	<u>78N</u>	<u>82S</u>
2493	HBATH	79S-82S	20 10 Bathroom Designed For Wheel Chair Present	39	35
2494	HPHON		21 11 Specially Equipped Telephone Present	39	35
2495	HFLAS		22 12 Flashing Lights Present	39	35
The Codes Unique to Each Variable are Shown Above; Standard Codes Are:					
			<u>78N 79S-82S</u>		
			00 00 Feature Not Present		
			98 Not Answered		
			99 Not Applicable		
			99 Not Answered or Not Applicable		
Note: In 79S-82S, use HNO to distinguish between Not Answered and Not Applicable.					
2496	HOTHR	78N	Other Special Feature Present	<u>78N</u>	
			23 No Special Feature Present	39	
			98 Not Answered		
			99 Not Applicable		
2497	HNO	78N	No Special Features Present	<u>78N</u>	<u>82S</u>
		79S-82S	<u>78N 79S-82S</u>	39	35
			00 00 No Other Special Feature Present		
			13 Other Special Feature Present		
			24 14 No Special Features Present		
			98 98 Not Answered		
			99 99 Not Applicable		
2498	FLINE1	78N	Line Number of Person 1 With Difficulties	<u>78N</u>	
2499	FLINE2		Line Number of Person 2 With Difficulties	38	
2500	FLINE3		Line Number of Person 3 With Difficulties	38	
2501	FLINE4		Line Number of Person 4 With Difficulties	38	
2502	FLINE5		Line Number of Person 5 With Difficulties	38	
2503	FLINE6		Line Number of Person 6 With Difficulties	38	
For All Variables, Standard Codes Are:					
			1-90 Line Number		
			99 Not Applicable		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
2504	CLINE1	78N	Line Number of Person 1 With Physical Conditions	78N	38
2505	CLINE2		Line Number of Person 2 With Physical Conditions		38
2506	CLINE3		Line Number of Person 3 With Physical Conditions		38
2507	CLINE4		Line Number of Person 4 With Physical Conditions		38
2508	CLINE5		Line Number of Person 5 With Physical Conditions		38
2509	CLINE6		Line Number of Person 6 With Physical Conditions		38
For All Variables, Standard Codes Are:					
1-90 Line Number					
99 Not Applicable					
2510	ELINE1	78N	Line Number Of Person 1 With Difficulties Or Conditions	78N	38
2511	ELINE2	79S-82S	Line Number Of Person 2 With Difficulties Or Conditions	82S	36
2512	ELINE3		Line Number Of Person 3 With Difficulties Or Conditions		38
2513	ELINE4		Line Number Of Person 4 With Difficulties Or Conditions		38
2514	ELINE5		Line Number Of Person 5 With Difficulties Or Conditions		38
2515	ELINE6		Line Number Of Person 6 With Difficulties Or Conditions		38
For All Variables, Standard Codes Are:					
0 Not Applicable					
1-90 Line Numbers					
98 Not Answered					
99 Not Applicable					
2516	DIFA1	78N	1 Difficulty Going In/Out Of House/Bldg (Person 1)	78N	38
2517	DIFA2	79S-82S	1 Difficulty Going In/Out Of House/Bldg (Person 2)	82S	36
2518	DIFA3		1 Difficulty Going In/Out Of House/Bldg (Person 3)		38
2519	DIFA4		1 Difficulty Going In/Out Of House/Bldg (Person 4)		38
2520	DIFA5		1 Difficulty Going In/Out Of House/Bldg (Person 5)		38
2521	DIFA6		1 Difficulty Going In/Out Of House/Bldg (Person 6)		38
2522	DIFB1		2 Difficulty Getting Around Inside (Person 1)		38
2523	DIFB2		2 Difficulty Getting Around Inside (Person 2)		38
2524	DIFB3		2 Difficulty Getting Around Inside (Person 3)		38
2525	DIFB4		2 Difficulty Getting Around Inside (Person 4)		38
2526	DIFB5		2 Difficulty Getting Around Inside (Person 5)		38
2527	DIFB6		2 Difficulty Getting Around Inside (Person 6)		38
2528	DIFC1		3 Difficulty With Stairs (Person 1)		38
2529	DIFC2		3 Difficulty With Stairs (Person 2)		38
2530	DIFC3		4 Difficulty With Stairs (Person 3)		38
2531	DIFC4		4 Difficulty With Stairs (Person 4)		38
2532	DIFC5		5 Difficulty With Stairs (Person 5)		38
2533	DIFC6		6 Difficulty With Stairs (Person 6)		38
The Codes Unique To Each Variable Are Shown Above:					
Standard Codes For All Variables Are:					
<u>78N 79S-82S</u>					
0 0 Respondent Did Not Report This Difficulty					
8 Not Answered					
9 Not Applicable					
9 Not Answered Or Not Applicable					
Note: In 1979S-1982S, To Distinguish Between Not Answered And Not Applicable, Use DIFD1-DIFD6.					
2534	DIFD1	78N	4 Difficulty Using Facilities/Equipment (Person 1)	78N	38
2535	DIFD2	79S-82S	4 Difficulty Using Facilities/Equipment (Person 2)	82S	36
2536	DIFD3		4 Difficulty Using Facilities/Equipment (Person 3)		38
2537	DIFD4		4 Difficulty Using Facilities/Equipment (Person 4)		38
2538	DIFD5		4 Difficulty Using Facilities/Equipment (Person 5)		38
2539	DIFD6		4 Difficulty Using Facilities/Equipment (Person 6)		38
The Codes Unique To Each Variable Are Shown Above:					
For All Variables, Standard Codes Are:					
0 Respondent Did Not Report This Difficulty					
8 Not Answered					
9 Not Applicable					
Note: In 1978N, the variables DIFE1-DIFE6 and DIFF1-DIFF6 are present in the Census Bureau Tape. They do not contain any useful information, and therefore are not documented in this Codebook.					

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	
				78N	82S
2540	CONA1	78N	First Disabling Condition Reported For Person 1	38	36
2541	CONA2	79S-82S	First Disabling Condition Reported For Person 2	38	36
2542	CONA3		First Disabling Condition Reported For Person 3	38	37
2543	CONA4		First Disabling Condition Reported For Person 4	38	37
2544	CONA5		First Disabling Condition Reported For Person 5	38	37
2545	CONA6		First Disabling Condition Reported For Person 6	38	37
2546	CONB1		Second Disabling Condition Reported For Person 1	38	36
2547	CONB2		Second Disabling Condition Reported For Person 2	38	36
2548	CONB3		Second Disabling Condition Reported For Person 3	38	37
2549	CONB4		Second Disabling Condition Reported For Person 4	38	37
2550	CONB5		Second Disabling Condition Reported For Person 5	38	37
2551	CONB6		Second Disabling Condition Reported For Person 6	38	37
2552	CONC1		Third Disabling Condition Reported For Person 1	38	36
2553	CONC2		Third Disabling Condition Reported For Person 2	38	36
2554	CONC3		Third Disabling Condition Reported For Person 3	38	37
2555	CONC4		Third Disabling Condition Reported For Person 4	38	37
2556	CONC5		Third Disabling Condition Reported For Person 5	38	37
2557	CONC6		Third Disabling Condition Reported For Person 6	38	37
2558	COND1		Fourth Disabling Condition Reported For Person 1	38	36
2559	COND2		Fourth Disabling Condition Reported For Person 2	38	36
2560	COND3		Fourth Disabling Condition Reported For Person 3	38	37
2561	COND4		Fourth Disabling Condition Reported For Person 4	38	37
2562	COND5		Fourth Disabling Condition Reported For Person 5	38	37
2563	COND6		Fourth Disabling Condition Reported For Person 6	38	37
2564	CONE1		Fifth Disabling Condition Reported For Person 1	38	36
2565	CONE2		Fifth Disabling Condition Reported For Person 2	38	36
2566	CONE3		Fifth Disabling Condition Reported For Person 3	38	37
2567	CONE4		Fifth Disabling Condition Reported For Person 4	38	37
2568	CONE5		Fifth Disabling Condition Reported For Person 5	38	37
2569	CONE6		Fifth Disabling Condition Reported For Person 6	38	37
2570	CONF1		Sixth Disabling Condition Reported For Person 1	38	36
2571	CONF2		Sixth Disabling Condition Reported For Person 2	38	36
2572	CONF3		Sixth Disabling Condition Reported For Person 3	38	37
2573	CONF4		Sixth Disabling Condition Reported For Person 4	38	37
2574	CONF5		Sixth Disabling Condition Reported For Person 5	38	37
2575	CONF6		Sixth Disabling Condition Reported For Person 6	38	37

For All Variables, Standard Codes Are:

78N 79S-82S

- 0 Not Applicable
- 29 01 Paralysis
- 27 02 Chronic Stiffness/Deformity Of Back/Spine
- 28 03 Other Back Or Spine Trouble
- 19 04 Arthritis Or Rheumatism
- 26 05 Chronic Stiffness Or Deformity Of Foot, Leg, Arm Or Hand
- 24 06 Missing Legs, Feet Or Toes
- 25 07 Missing Arms, Hands Or Fingers
- 21 08 Cerebral Palsy
- 18 09 Effects of Stroke
- 23 10 Blindness Or Serious Trouble Seeing
- 22 11 Deafness Or Serious Trouble Hearing
- 16 12 Effects of Heart Attack
- 17 13 Any Other Heart Trouble
- 40 14 HBP Or Hypertension
- 41 15 Diabetes
- 43 16 Cancer Or Other Tumor, Growth Or Cyst
- 11 17 Asthma
- 13 Bronchitis
- 12 Tuberculosis
- 18 Other Lung Problem (Includes Bronchitis and Emphysema In SMSA Surveys)
- 14 Emphysema
- 15 Other Lung Problems
- 20 19 Convulsions Or Epileptic Seizures
- 42 21 Parkinson's Disease
- 44 22 Hardening Of The Arteries
- 45 23 Senility
- 60 24 Infective and Parasitic Diseases
- 61 25 Neoplasms - New Growth of Tissue Serving No Function, e.g. Tumor. Does Not Include Cancer
- 62 26 Endocrine, Nutritional, and Metabolic Dis
- 63 27 Diseases Of The Blood And Blood Forming Organs
- 64 28 Mental Disorders
- 65 29 Diseases Of The Nervous System & Sense Organs
- 66 30 Diseases Of The Circulatory System

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

- 67 31 Diseases Of The Respiratory System  
(Includes Bronchitis and Tuberculosis  
in SMSA Surveys Only)
- 68 32 Diseases Of The Digestive System
- 69 33 Diseases Of The Genitourinary System
- 70 34 Diseases Of The Musculoskeletal System and  
Connective Tissue
- 71 35 Congenital Anomalies
- 72 36 Temporary Conditions
- 30 20 Other Conditions
- 98 98 Not Answered
- 99 99 Not Applicable

Note: In 1979S-1982S, 98 is only coded in CONF1-CONF6.  
Not Answered in coded 99 in the other variables.

				<u>78N</u>
2576	HELP1	78N	Help Needed From Person Or Equipment By Person 1	39
2577	HELP2		Help Needed From Person Or Equipment By Person 2	39
2578	HELP3		Help Needed From Person Or Equipment By Person 3	39
2579	HELP4		Help Needed From Person Or Equipment By Person 4	39
2580	HELP5		Help Needed From Person Or Equipment By Person 5	39
2581	HELP6		Help Needed From Person Or Equipment By Person 6	39
			For All Variables, Standard Codes Are:	
			1 Yes, Another Person	
			2 Yes, Special Equipment	
			3 Yes, Both	
			4 No	
			8 Not Answered	
			9 Not Applicable	

				<u>82S</u>
2582	HELPP1	79S-82S	Help Needed From Another Person By Person 1	36
2583	HELPP2		Help Needed From Another Person By Person 2	36
2584	HELPP3		Help Needed From Another Person By Person 3	37
2585	HELPP4		Help Needed From Another Person By Person 4	37
2586	HELPP5		Help Needed From Another Person By Person 5	37
2587	HELPP6		Help Needed From Another Person By Person 6	37
2588	HELPE1		Help Needed From Equipment By Person 1	36
2589	HELPE2		Help Needed From Equipment By Person 2	36
2590	HELPE3		Help Needed From Equipment By Person 3	37
2591	HELPE4		Help Needed From Equipment By Person 4	37
2592	HELPE5		Help Needed From Equipment By Person 5	37
2593	HELPE6		Help Needed From Equipment By Person 6	37
			For All Variables, Standard Codes Are:	
			0 Not Applicable	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	

				<u>78N</u>	<u>82S</u>
2594	ORAIL1	78N	Handrails Would Help Person 1 Go Out More Easily	39	36
2595	ORAIL2	79S-82S	Handrails Would Help Person 2 Go Out More Easily	39	36
2596	ORAIL3		Handrails Would Help Person 3 Go Out More Easily	39	37
2597	ORAIL4		Handrails Would Help Person 4 Go Out More Easily	39	37
2598	ORAIL5		Handrails Would Help Person 5 Go Out More Easily	39	37
2599	ORAIL6		Handrails Would Help Person 6 Go Out More Easily	39	37
2600	IRAIL1		Extra Handrails Help Person 1 Get Around Inside House	39	36
2601	IRAIL2		Extra Handrails Help Person 2 Get Around Inside House	39	36
2602	IRAIL3		Extra Handrails Help Person 3 Get Around Inside House	39	37
2603	IRAIL4		Extra Handrails Help Person 4 Get Around Inside House	39	37
2604	IRAIL5		Extra Handrails Help Person 5 Get Around Inside House	39	37
2605	IRAIL6		Extra Handrails Help Person 6 Get Around Inside House	39	37

For All Variables, Standard Codes Are:

78N 79S-82S

- 00 0 Handrails Would Not Help
- 11 1 Handrails Would Help
- 98 Not Answered
- 99 Not Applicable
- 9 Not Answered or Not Applicable

Note: See OND1-IN06 to distinguish between Not Answered  
and Not Applicable in 79S-82S.

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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
2606	URAIL1	78N	Handrails Help Person 1 Go Up/Down Stairs More Easily	78N	82S
2607	URAIL2	79S-82S	Handrails Help Person 2 Go Up/Down Stairs More Easily	40	36
2608	URAIL3		Handrails Help Person 3 Go Up/Down Stairs More Easily	40	36
2609	URAIL4		Handrails Help Person 4 Go Up/Down Stairs More Easily	40	37
2610	URAIL5		Handrails Help Person 5 Go Up/Down Stairs More Easily	40	37
2611	URAIL6		Handrails Help Person 6 Go Up/Down Stairs More Easily	40	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
0 0 Extra Handrails Would Not Help					
1 1 Extra Handrails Would Help					
8 Not Answered					
9 Not Answered or Not Applicable					
9 Not Applicable					
Note: See UN01-UN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					
2612	ERAIL1	78N	Extra Handrails Wld Aid In Use Of Fac by Person 1	78N	82S
2613	ERAIL2	79S-82S	Extra Handrails Wld Aid In Use Of Fac by Person 2	40	36
2614	ERAIL3		Extra Handrails Wld Aid In Use Of Fac by Person 3	40	36
2615	ERAIL4		Extra Handrails Wld Aid In Use Of Fac by Person 4	40	37
2616	ERAIL5		Extra Handrails Wld Aid In Use Of Fac by Person 5	40	37
2617	ERAIL6		Extra Handrails Wld Aid In Use Of Fac by Person 6	40	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
00 00 Extra Handrails Would Not Help					
19 09 Extra Handrails Would Help					
98 Not Answered					
99 Not Answered or Not Applicable					
99 Not Applicable					
Note: See EN01-EN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					
2618	ORAMP1	78N	Ramp Would Help Person 1 Go Out More Easily	78N	82S
2619	ORAMP2	79S-82S	Ramp Would Help Person 2 Go Out More Easily	39	36
2620	ORAMP3		Ramp Would Help Person 3 Go Out More Easily	39	36
2621	ORAMP4		Ramp Would Help Person 4 Go Out More Easily	39	37
2622	ORAMP5		Ramp Would Help Person 5 Go Out More Easily	39	37
2623	ORAMP6		Ramp Would Help Person 6 Go Out More Easily	39	37
2624	IRAMP1		Ramp Help Person 1 Get Around Inside House	39	37
2625	IRAMP2		Ramp Help Person 2 Get Around Inside House	39	36
2626	IRAMP3		Ramp Help Person 3 Get Around Inside House	39	36
2627	IRAMP4		Ramp Help Person 4 Get Around Inside House	39	37
2628	IRAMP5		Ramp Help Person 5 Get Around Inside House	39	37
2629	IRAMP6		Ramp Help Person 6 Get Around Inside House	39	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
00 0 Ramps Would Not Help					
12 2 Ramps Would Help					
98 Not Answered					
99 Not Applicable					
9 Not Answered or Not Applicable					
Note: See ON01-IN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					
2630	URAMP1	78N	Ramp Help Person 1 Go Up Or Down Stairs More Easily	78N	82S
2631	URAMP2	79S-82S	Ramp Help Person 2 Go Up Or Down Stairs More Easily	40	36
2632	URAMP3		Ramp Help Person 3 Go Up Or Down Stairs More Easily	40	36
2633	URAMP4		Ramp Help Person 4 Go Up Or Down Stairs More Easily	40	37
2634	URAMP5		Ramp Help Person 5 Go Up Or Down Stairs More Easily	40	37
2635	URAMP6		Ramp Help Person 6 Go Up Or Down Stairs More Easily	40	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
0 0 Ramps Would Not Help					
2 2 Ramps Would Help					
8 Not Answered					
9 Not Answered or Not Applicable					
9 Not Applicable					
Note: See UN01-UN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				78N	82S
2636	OELEV1	78N	Elevator Would Help Person 1 Go Out More Easily	39	36
2637	OELEV2	79S-82S	Elevator Would Help Person 2 Go Out More Easily	39	36
2638	OELEV3		Elevator Would Help Person 3 Go Out More Easily	39	37
2639	OELEV4		Elevator Would Help Person 4 Go Out More Easily	39	37
2640	OELEV5		Elevator Would Help Person 5 Go Out More Easily	39	37
2641	OELEV6		Elevator Would Help Person 6 Go Out More Easily	39	37
2642	IELEV1		Elevator Help Person 1 Get Around Inside House	39	36
2643	IELEV2		Elevator Help Person 2 Get Around Inside House	39	36
2644	IELEV3		Elevator Help Person 3 Get Around Inside House	39	37
2645	IELEV4		Elevator Help Person 4 Get Around Inside House	39	37
2646	IELEV5		Elevator Help Person 5 Get Around Inside House	39	37
2647	IELEV6		Elevator Help Person 6 Get Around Inside House	39	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
		00	0	Elevator Would Not Help	
		13	3	Elevator Would Help	
		98		Not Answered	
		99		Not Applicable	
			9	Not Answered or Not Applicable	
Note: See ON01-IN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					
2648	UELEV1	78N	Elevator Help Person 1 Go Up Or Down Stairs More Easily	40	36
2649	UELEV2	79S-82S	Elevator Help Person 2 Go Up Or Down Stairs More Easily	40	36
2650	UELEV3		Elevator Help Person 3 Go Up Or Down Stairs More Easily	40	37
2651	UELEV4		Elevator Help Person 4 Go Up Or Down Stairs More Easily	40	37
2652	UELEV5		Elevator Help Person 5 Go Up Or Down Stairs More Easily	40	37
2653	UELEV6		Elevator Help Person 6 Go Up Or Down Stairs More Easily	40	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
		0	0	Elevator Would Not Help	
		3	3	Elevator Would Help	
		8		Not Answered	
			9	Not Answered or Not Applicable	
			9	Not Applicable	
Note: See UN01-UN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					
2654	OWIDE1	78N	Extra Wide Doors Would Help Person 1 Go Out More Easily	39	36
2655	OWIDE2	79S-82S	Extra Wide Doors Would Help Person 2 Go Out More Easily	39	36
2656	OWIDE3		Extra Wide Doors Would Help Person 3 Go Out More Easily	39	37
2657	OWIDE4		Extra Wide Doors Would Help Person 4 Go Out More Easily	39	37
2658	OWIDE5		Extra Wide Doors Would Help Person 5 Go Out More Easily	39	37
2659	OWIDE6		Extra Wide Doors Would Help Person 6 Go Out More Easily	39	37
2660	IWIDE1		Wide Doors Help Person 1 Get Around Inside House	39	36
2661	IWIDE2		Wide Doors Help Person 2 Get Around Inside House	39	36
2662	IWIDE3		Wide Doors Help Person 3 Get Around Inside House	39	37
2663	IWIDE4		Wide Doors Help Person 4 Get Around Inside House	39	37
2664	IWIDE5		Wide Doors Help Person 5 Get Around Inside House	39	37
2665	IWIDE6		Wide Doors Help Person 6 Get Around Inside House	39	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
		00	0	Extra Wide Doors Would Not Help	
		14	4	Extra Wide Doors Would Help	
		98		Not Answered	
		99		Not Applicable	
			9	Not Answered or Not Applicable	
Note: See ON01-IN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					

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>78N</u>	<u>82S</u>
2666	OHNDL1	78N	Door Handles Would Help Person 1 Go Out More Easily	39	36
2667	OHNDL2	79S-82S	Door Handles Would Help Person 2 Go Out More Easily	39	36
2668	OHNDL3		Door Handles Would Help Person 3 Go Out More Easily	39	37
2669	OHNDL4		Door Handles Would Help Person 4 Go Out More Easily	39	37
2670	OHNDL5		Door Handles Would Help Person 5 Go Out More Easily	39	37
2671	OHNDL6		Door Handles Would Help Person 6 Go Out More Easily	39	37
2672	IHNDL1		Door Handles Help Person 1 Get Around Inside House	39	36
2673	IHNDL2		Door Handles Help Person 2 Get Around Inside House	39	36
2674	IHNDL3		Door Handles Help Person 3 Get Around Inside House	39	37
2675	IHNDL4		Door Handles Help Person 4 Get Around Inside House	39	37
2676	IHNDL5		Door Handles Help Person 5 Get Around Inside House	39	37
2677	IHNDL6		Door Handles Help Person 6 Get Around Inside House	39	37

For All Variables, Standard Codes Are:

78N 79S-82S

- 00 0 Door Handles Would Not Help
- 15 5 Door Handles Would Help
- 98 Not Answered
- 99 Not Applicable
- 9 Not Answered or Not Applicable

Note: See ONO1-IN06 to distinguish between Not Answered and Not Applicable in 79S-82S.

				<u>78N</u>	<u>82S</u>
2678	EHNDL1	78N	Door Handles Wld Aid In Use Of Facilities by Person 1	40	36
2679	EHNDL2	79S-82S	Door Handles Wld Aid In Use Of Facilities by Person 2	40	36
2680	EHNDL3		Door Handles Wld Aid In Use Of Facilities by Person 3	40	37
2681	EHNDL4		Door Handles Wld Aid In Use Of Facilities by Person 4	40	37
2682	EHNDL5		Door Handles Wld Aid In Use Of Facilities by Person 5	40	37
2683	EHNDL6		Door Handles Wld Aid In Use Of Facilities by Person 6	40	37

For All Variables, Standard Codes Are:

78N 79S-82S

- 00 0 Door Handles Would Not Help
- 14 4 Door Handles Would Help
- 98 Not Answered
- 9 Not Answered or Not Applicable
- 99 Not Applicable

Note: See ENO1-EN06 to distinguish between Not Answered and Not Applicable in 79S-82S.

				<u>78N</u>	<u>82S</u>
2684	ORAIS1	78N	Raised Lettering Would Help Person 1 Go Out More Easily	39	36
2685	ORAIS2	79S-82S	Raised Lettering Would Help Person 2 Go Out More Easily	39	36
2686	ORAIS3		Raised Lettering Would Help Person 3 Go Out More Easily	39	37
2687	ORAIS4		Raised Lettering Would Help Person 4 Go Out More Easily	39	37
2688	ORAIS5		Raised Lettering Would Help Person 5 Go Out More Easily	39	37
2689	ORAIS6		Raised Lettering Would Help Person 6 Go Out More Easily	39	37
2690	IRAIS1		Raised Lettering Help Person 1 Get Around Inside House	39	36
2691	IRAIS2		Raised Lettering Help Person 2 Get Around Inside House	39	36
2692	IRAIS3		Raised Lettering Help Person 3 Get Around Inside House	39	37
2693	IRAIS4		Raised Lettering Help Person 4 Get Around Inside House	39	37
2694	IRAIS5		Raised Lettering Help Person 5 Get Around Inside House	39	37
2695	IRAIS6		Raised Lettering Help Person 6 Get Around Inside House	39	37

For All Variables, Standard Codes Are:

78N 79S-82S

- 00 0 Raised Lettering Would Not Help
- 16 6 Raised Lettering Would Help
- 98 Not Answered
- 99 Not Applicable
- 9 Not Answered or Not Applicable

Note: See ONO1-IN06 to distinguish between Not Answered and Not Applicable in 79S-82S.

				<u>78N</u>	<u>82S</u>
2696	ERAIS1	78N	Raised Letters Wld Aid In Use Of Facilities by Person 1	40	36
2697	ERAIS2	79S-82S	Raised Letters Wld Aid In Use Of Facilities by Person 2	40	36
2698	ERAIS3		Raised Letters Wld Aid In Use Of Facilities by Person 3	40	37
2699	ERAIS4		Raised Letters Wld Aid In Use Of Facilities by Person 4	40	37
2700	ERAIS5		Raised Letters Wld Aid In Use Of Facilities by Person 5	40	37
2701	ERAIS6		Raised Letters Wld Aid In Use Of Facilities by Person 6	40	37

For All Variables, Standard Codes Are:

78N 79S-82S

- 00 0 Raised Lettering Would Not Help
- 15 5 Raised Lettering Would Help
- 98 Not Answered
- 9 Not Answered or Not Applicable
- 99 Not Applicable

Note: See ENO1-EN06 to distinguish between Not Answered and Not Applicable in 79S-82S.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>78N</u>	<u>82S</u>
2702	OPUSH1	78N	Push Bars Would Help Person 1 Go Out More Easily	39	36
2703	OPUSH2	79S-82S	Push Bars Would Help Person 2 Go Out More Easily	39	36
2704	OPUSH3		Push Bars Would Help Person 3 Go Out More Easily	39	37
2705	OPUSH4		Push Bars Would Help Person 4 Go Out More Easily	39	37
2706	OPUSH5		Push Bars Would Help Person 5 Go Out More Easily	39	37
2707	OPUSH6		Push Bars Would Help Person 6 Go Out More Easily	39	37
2708	IPUSH1		Push Bars Help Person 1 Get Around Inside House	39	36
2709	IPUSH2		Push Bars Help Person 2 Get Around Inside House	39	36
2710	IPUSH3		Push Bars Help Person 3 Get Around Inside House	39	37
2711	IPUSH4		Push Bars Help Person 4 Get Around Inside House	39	37
2712	IPUSH5		Push Bars Help Person 5 Get Around Inside House	39	37
2713	IPUSH6		Push Bars Help Person 6 Get Around Inside House	39	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
		00	0	Push Bars Would Not Help	
		17	7	Push Bars Would Help	
		98		Not Answered	
		99		Not Applicable	
			9	Not Answered or Not Applicable	
Note: See ON01-IN06 to distinguish between Not Answered or Not Applicable in 79S-82S.					
2714	EPUSH1	78N	Push Bars Wld Aid In Use Of Facilities by Person 1	<u>40</u>	<u>36</u>
2715	EPUSH2	79S-82S	Push Bars Wld Aid In Use Of Facilities by Person 2	40	36
2716	EPUSH3		Push Bars Wld Aid In Use Of Facilities by Person 3	40	37
2717	EPUSH4		Push Bars Wld Aid In Use Of Facilities by Person 4	40	37
2718	EPUSH5		Push Bars Wld Aid In Use Of Facilities by Person 5	40	37
2719	EPUSH6		Push Bars Wld Aid In Use Of Facilities by Person 6	40	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
		00	0	Push Bars Would Not Help	
		16	6	Push Bars Would Help	
		98		Not Answered	
			9	Not Answered or Not Applicable	
		99		Not Applicable	
Note: See EN01-EN06 to distinguish between Not Answered or Not Applicable in 79S-82S.					
2720	EPHON1	78N	Special Phone Wld Aid In Use Of Facilities by Person 1	<u>40</u>	<u>36</u>
2721	EPHON2	79S-82S	Special Phone Wld Aid In Use Of Facilities by Person 2	40	36
2722	EPHON3		Special Phone Wld Aid In Use Of Facilities by Person 3	40	37
2723	EPHON4		Special Phone Wld Aid In Use Of Facilities by Person 4	40	37
2724	EPHON5		Special Phone Wld Aid In Use Of Facilities by Person 5	40	37
2725	EPHON6		Special Phone Wld Aid In Use Of Facilities by Person 6	40	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
		00	0	Special Telephone Would Not Help	
		17	7	Special Telephone Would Help	
		98		Not Answered	
			9	Not Answered or Not Applicable	
		99		Not Applicable	
Note: See EN01-EN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					
2726	EFLAS1	78N	Flashing Lights Wld Aid In Use Of Fac by Person 1	<u>40</u>	<u>36</u>
2727	EFLAS2	79S-82S	Flashing Lights Wld Aid In Use Of Fac by Person 2	40	36
2728	EFLAS3		Flashing Lights Wld Aid In Use Of Fac by Person 3	40	37
2729	EFLAS4		Flashing Lights Wld Aid In Use Of Fac by Person 4	40	37
2730	EFLAS5		Flashing Lights Wld Aid In Use Of Fac by Person 5	40	37
2731	EFLAS6		Flashing Lights Wld Aid In Use Of Fac by Person 6	40	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
		00	0	Flashing Lights Would Not Help	
		18	8	Flashing Lights Would Help	
		98		Not Answered	
			9	Not Answered or Not Applicable	
		99		Not Applicable	
Note: See EN01-EN06 to distinguish between Not Answered and Not Applicable in 79S-82S.					

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>78N</u>	
2732	O0THR1	78N	Other Features Would Help Person 1 Go Out More Easily	39	
2733	O0THR2		Other Features Would Help Person 2 Go Out More Easily	39	
2734	O0THR3		Other Features Would Help Person 3 Go Out More Easily	39	
2735	O0THR4		Other Features Would Help Person 4 Go Out More Easily	39	
2736	O0THR5		Other Features Would Help Person 5 Go Out More Easily	39	
2737	O0THR6		Other Features Would Help Person 6 Go Out More Easily	39	
2738	I0THR1		Other Features To Help Person 1 Get Around Inside House	39	
2739	I0THR2		Other Features To Help Person 2 Get Around Inside House	39	
2740	I0THR3		Other Features To Help Person 3 Get Around Inside House	39	
2741	I0THR4		Other Features To Help Person 4 Get Around Inside House	39	
2742	I0THR5		Other Features To Help Person 5 Get Around Inside House	39	
2743	I0THR6		Other Features To Help Person 6 Get Around Inside House	39	
			For All Variables, Standard Codes Are:		
			00 Other Features Would Not Help		
			18 Other Features Would Help		
			98 Not Answered		
			99 Not Applicable		
				<u>78N</u>	
2744	U0THR1	78N	Other Features To Help Person 1 Go Up Or Down Stairs	40	
2745	U0THR2		Other Features To Help Person 2 Go Up Or Down Stairs	40	
2746	U0THR3		Other Features To Help Person 3 Go Up Or Down Stairs	40	
2747	U0THR4		Other Features To Help Person 4 Go Up Or Down Stairs	40	
2748	U0THR5		Other Features To Help Person 5 Go Up Or Down Stairs	40	
2749	U0THR6		Other Features To Help Person 6 Go Up Or Down Stairs	40	
			For All Variables, Standard Codes Are:		
			0 Other Features Would Not Help		
			4 Other Features Would Help		
			8 Not Answered		
			9 Not Applicable		
				<u>78N</u>	
2750	E0THR1	78N	Other Feature(s) Wld Aid In Use Of Fac by Person 1	40	
2751	E0THR2		Other Feature(s) Wld Aid In Use Of Fac by Person 2	40	
2752	E0THR3		Other Feature(s) Wld Aid In Use Of Fac by Person 3	40	
2753	E0THR4		Other Feature(s) Wld Aid In Use Of Fac by Person 4	40	
2754	E0THR5		Other Feature(s) Wld Aid In Use Of Fac by Person 5	40	
2755	E0THR6		Other Feature(s) Wld Aid In Use Of Fac by Person 6	40	
			For All Variables, Standard Codes Are:		
			00 Other Features Would Not Help		
			20 Other Feature Would Help		
			98 Not Answered		
			99 Not Applicable		
				<u>78N</u>	<u>82S</u>
2756	ON01	78N	Would Any Features Help Person 1 Go Out More Easily	39	36
2757	ON02	79S-82S	Would Any Features Help Person 2 Go Out More Easily	39	36
2758	ON03		Would Any Features Help Person 3 Go Out More Easily	39	37
2759	ON04		Would Any Features Help Person 4 Go Out More Easily	39	37
2760	ON05		Would Any Features Help Person 5 Go Out More Easily	39	37
2761	ON06		Would Any Features Help Person 6 Go Out More Easily	39	37
2762	IN01		No Features Help Person 1 Get Around Inside House	39	36
2763	IN02		No Features Help Person 2 Get Around Inside House	39	36
2764	IN03		No Features Help Person 3 Get Around Inside House	39	37
2765	IN04		No Features Help Person 4 Get Around Inside House	39	37
2766	IN05		No Features Help Person 5 Get Around Inside House	39	37
2767	IN06		No Features Help Person 6 Get Around Inside House	39	37
			For All Variables, Standard Codes Are:		
			<u>78N</u> <u>79S-82S</u>		
			00 00 Some Feature(s) Listed Above Would Help		
			08 Some Other Features Would Help		
			19 09 No Features Would Help		
			98 98 Not Answered		
			99 99 Not Applicable		
				<u>78N</u>	<u>82S</u>
2768	UN01	78N	Features Help Person 1 Go Up Or Down Stairs	40	36
2769	UN02	79S-82S	Features Help Person 2 Go Up Or Down Stairs	40	36
2770	UN03		Features Help Person 3 Go Up Or Down Stairs	40	37
2771	UN04		Features Help Person 4 Go Up Or Down Stairs	40	37
2772	UN05		Features Help Person 5 Go Up Or Down Stairs	40	37
2773	UN06		Features Help Person 6 Go Up Or Down Stairs	40	37
			For All Variables, Standard Codes Are:		
			<u>78N</u> <u>79S-82S</u>		
			0 0 Some Feature(s) Listed Above Would Help		
			4 Some Other Feature Would Help		
			5 5 No Feature Would Help		
			8 8 Not Answered		
			9 9 Not Applicable		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>78N</u>	<u>82S</u>
2774	EN01	78N	No Feature Wld Aid In Use Of Facilities by Person 1	40	36
2775	EN02	79S-82S	No Feature Wld Aid In Use Of Facilities by Person 2	40	36
2776	EN03		No Feature Wld Aid In Use Of Facilities by Person 3	40	37
2777	EN04		No Feature Wld Aid In Use Of Facilities by Person 4	40	37
2778	EN05		No Feature Wld Aid In Use Of Facilities by Person 5	40	37
2779	EN06		No Feature Wld Aid In Use Of Facilities by Person 6	40	37
For All Variables, Standard Codes Are:					
<u>78N 79S-82S</u>					
		00	00	Some Feature Listed Above Would Help	
			10	Some Other Feature Would Help	
		21	11	No Feature Would Help	
		98	98	Not Answered	
		99	99	Not Applicable	

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## Site Adaptive Two-Story

*Project Sponsor: CLB Associates, Inc.  
Architects/Planners  
Kirkland, Washington*

*Floor area: House 968 sq. ft.  
Garage 484 sq. ft.*

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This design for the Pacific Northwest explores house/site relationships, solar orientation, plan economies and energy conservation techniques.



Data on vehicles and appliances purchased and owned by the household are collected in the "Purchase and Ownership" Supplement. These data are available for the National Survey only in 1973 and 1974. Only the 1974 Survey is currently documented in this codebook. The 1973 Survey will be documented at some time in the future. Variables are essentially similar in 1973 and 1974. If you are interested in more information, please call AHS User Services at (617) 497-7182. In both years, these questions were only asked on one third of the national cases. The cases were randomly selected, so the data are representative of the entire country. Information on cars and appliances in more recent surveys can be found in the Tenure, Building and Parking section and in the Kitchen, Plumbing, Cooling and Heating Equipment section, respectively.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2780	KINDV1	74N	Type Of Vehicle Owned (Vehicle 1 of 4)	74N 30
2781	KINDV2		Type Of Vehicle Owned (Vehicle 2 of 4)	30
2782	KINDV3		Type Of Vehicle Owned (Vehicle 3 of 4)	31
2783	KINDV4		Type Of Vehicle Owned (Vehicle 4 of 4)	31
			1 Car, Station Wagon 2 Pickup Truck 3 Passenger Van (With Windows) 4 Motor Home (Self Contained) 5 Other Vehicle 8 Not Answered 9 Not Applicable	
			Note: Order of variables: first newest vehicle, second newest vehicle, etc.	
2784	MODYR1	74N	Model Year (Vehicle 1 of 4)	74N 30
2785	MODYR2		Model Year (Vehicle 2 of 4)	30
2786	MODYR3		Model Year (Vehicle 3 of 4)	31
2787	MODYR4		Model Year (Vehicle 4 of 4)	31
			00-75 1900-1975 98 Not Answered 99 Not Applicable	
2788	NMCYL1	74N	Number of Cylinders (Vehicle 1 of 4)	74N 30
2789	NMCYL2		Number of Cylinders (Vehicle 2 of 4)	30
2790	NMCYL3		Number of Cylinders (Vehicle 3 of 4)	31
2791	NMCYL4		Number of Cylinders (Vehicle 4 of 4)	31
			0 Number Not Reported 1 None (Rotary) 2 Four 3 Six 4 Eight 8 Not Answered 9 Not Applicable	
2792	NEVV1	74N	Vehicle Purchased New Or Used (Vehicle 1 of 4)	74N 30
2793	NEVV2		Vehicle Purchased New Or Used (Vehicle 2 of 4)	30
2794	NEVV3		Vehicle Purchased New Or Used (Vehicle 3 of 4)	31
2795	NEVV4		Vehicle Purchased New Or Used (Vehicle 4 of 4)	31
			1 New 2 Used 8 Not Answered 9 Not Applicable	
2796	BUYV1	74N	Purchased From Auto Dealer Or Private Party (Vehicle 1)	74N 30
2797	BUYV2		Purchased From Auto Dealer Or Private Party (Vehicle 2)	30
2798	BUYV3		Purchased From Auto Dealer Or Private Party (Vehicle 3)	31
2799	BUYV4		Purchased From Auto Dealer Or Private Party (Vehicle 4)	31
			1 Auto Dealer 2 Private Party 8 Not Answered 9 Not Applicable	
2800	BUSV1	74N	Used For Any Businss Prpse Oth Than Work Commuting (V1)	74N 30
2801	BUSV2		Used For Any Businss Prpse Oth Than Work Commuting (V2)	30
2802	BUSV3		Used For Any Businss Prpse Oth Than Work Commuting (V3)	31
2803	BUSV4		Used For Any Businss Prpse Oth Than Work Commuting (V4)	31
			1 Yes 2 No 8 Not Answered 9 Not Applicable	
2804	DRVYR1	74N	Thousands Of Miles Driven During Past 12 Months (Veh 1)	74N 30
2805	DRVYR2		Thousands Of Miles Driven During Past 12 Months (Veh 2)	30
2806	DRVYR3		Thousands Of Miles Driven During Past 12 Months (Veh 3)	31
2807	DRVYR4		Thousands of Miles Driven During Past 12 Months (Veh 4)	31
			00 Under 1000 Miles 01-97 1-97,000 Miles 98 Not Answered 99 Not Applicable	
			Note: Data are in thousands of miles.	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>74N</u>
2808	DRIVE1	74N	Thousands Of Miles Driven Since Purchase (Vehicle 1)	30
2809	DRIVE2		Thousands Of Miles Driven Since Purchase (Vehicle 2)	30
2810	DRIVE3		Thousands Of Miles Driven Since Purchase (Vehicle 3)	31
2811	DRIVE4		Thousands Of Miles Driven Since Purchase (Vehicle 4)	31
			000 Under 100 Miles	
			001-997 1-997,000 Miles	
			998 Not Answered	
			999 Not Applicable	
			Note: Data are in thousands of miles.	
				<u>74N</u>
2812	PRCBP1	74N	Percent Mileage For Business Purposes (Vehicle 1 of 4)	30
2813	PRCBP2		Percent Mileage For Business Purposes (Vehicle 2 of 4)	30
2814	PRCBP3		Percent Mileage For Business Purposes (Vehicle 3 of 4)	31
2815	PRCBP4		Percent Mileage For Business Purposes (Vehicle 4 of 4)	31
			001-100 1 To 100%	
			998 Not Answered	
			999 Not Applicable	
				<u>74N</u>
2816	VINYR1	74N	Purchased In The Past 12 Months (Vehicle 1 of 4)	30
2817	VINYR2		Purchased In The Past 12 Months (Vehicle 2 of 4)	30
2818	VINYR3		Purchased In The Past 12 Months (Vehicle 3 of 4)	31
2819	VINYR4		Purchased In The Past 12 Months (Vehicle 4 of 4)	31
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
				<u>74N</u>
2820	YRBUYV1	74N	Year Purchased (Vehicle 1 of 4)	30
2821	YRBUYV2		Year Purchased (Vehicle 2 of 4)	30
2822	YRBUYV3		Year Purchased (Vehicle 3 of 4)	31
2823	YRBUYV4		Year Purchased (Vehicle 4 of 4)	31
			00 Model Year Not Reported	
			01-75 1901-1975	
			98 Not Answered	
			99 Not Applicable	
				<u>74N</u>
2824	MBUYV1	74N	Month Of Purchase (Vehicle 1 of 4)	30
2825	MBUYV2		Month Of Purchase (Vehicle 2 of 4)	30
2826	MBUYV3		Month Of Purchase (Vehicle 3 of 4)	31
2827	MBUYV4		Month Of Purchase (Vehicle 4 of 4)	31
			01-12 January-December	
			98 Not Answered	
			99 Not Applicable	
				<u>74N</u>
2828	COSTV1	74N	Cost After Deduction For Trade-In (Vehicle 1 of 4)	30
2829	COSTV2		Cost After Deduction For Trade-In (Vehicle 2 of 4)	30
2830	COSTV3		Cost After Deduction For Trade-In (Vehicle 3 of 4)	31
2831	COSTV4		Cost After Deduction For Trade-In (Vehicle 4 of 4)	31
			0-25000 \$0-\$25000	
			99998 Not Answered	
			99999 Not Applicable	
				<u>74N</u>
2832	TRADE1	74N	Amount Of Trade-In Allowance (Vehicle 1 of 4)	30
2833	TRADE2		Amount Of Trade-In Allowance (Vehicle 2 of 4)	30
2834	TRADE3		Amount Of Trade-In Allowance (Vehicle 3 of 4)	31
2835	TRADE4		Amount Of Trade-In Allowance (Vehicle 4 of 4)	31
			1 No Trade In	
			0002-9997 \$2-\$9997	
			9998 Not Answered	
			9999 Not Applicable	
				<u>74N</u>
2836	OWNIN1	74N	Did You Own Vehicle 1 Traded-In 12 Months Ago	30
2837	OWNIN2		Did You Own Vehicle 2 Traded-In 12 Months Ago	30
2838	OWNIN3		Did You Own Vehicle 3 Traded-In 12 Months Ago	31
2839	OWNIN4		Did You Own Vehicle 4 Traded-In 12 Months Ago	31
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2840	OLDV1	74N	Type Of Vehicle Traded-In (Vehicle 1 of 4)	<u>74N</u> 30
2841	OLDV2		Type Of Vehicle Traded-In (Vehicle 2 of 4)	30
2842	OLDV3		Type Of Vehicle Traded-In (Vehicle 3 of 4)	31
2843	OLDV4		Type of Vehicle Traded-In (Vehicle 4 of 4)	31
			1 Car, Station Wagon	
			2 Pick Up Truck	
			3 Passenger Van (With Windows)	
			4 Motor Home (Self Contained)	
			5 Other Vehicle	
			8 Not Answered	
			9 Not Applicable	
2844	MODV1	74N	Model Year Of Vehicle Traded-In (Vehicle 1 of 4)	<u>74N</u> 30
2845	MODV2		Model Year Of Vehicle Traded-In (Vehicle 2 of 4)	30
2846	MODV3		Model Year Of Vehicle Traded-In (Vehicle 3 of 4)	31
2847	MODV4		Model Year Of Vehicle Traded-In (Vehicle 4 of 4)	31
			00 Model Year Not Reported	
			01-75 1901-1975	
			98 Not Answered	
			99 Not Applicable	
2848	CYLV1	74N	Number Of Cylinders For Trade-In Vehicle 1	<u>74N</u> 30
2849	CYLV2		Number Of Cylinders For Trade-In Vehicle 2	30
2850	CYLV3		Number Of Cylinders For Trade-In Vehicle 3	31
2851	CYLV4		Number Of Cylinders For Trade-In Vehicle 4	31
			1 None (Rotary)	
			2 Four	
			3 Six	
			4 Eight	
			8 Not Answered	
			9 Not Applicable	
2852	SOLDV	74N	Sold Or Otherwise Disposed Of A Vehicle Last 12 Mo	<u>74N</u> 32
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
			Note: Does not include vehicles traded-in.	
2853	OWNYRV	74N	Did You Own This Vehicle 12 Months Ago	<u>74N</u> 32
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
			Note: Applies to most recently disposed of vehicle.	
2854	KINDV	74N	Type Of Vehicle Sold Or Otherwise Disposed Of	<u>74N</u> 32
			1 Car, Station Wagon	
			2 Pick Up Truck	
			3 Passenger Van (With Windows)	
			4 Motor Home (Self Contained)	
			5 Other Vehicle	
			8 Not Answered	
			9 Not Applicable	
			Note: Applies to most recently disposed of vehicle.	
2855	MODYRV	74N	Model Yr Of Vehicle Most Rec'ly Sold Or Othwse Disposed	<u>74N</u> 32
			00 Model Year Not Reported	
			00-75 1900-1975	
			98 Not Answered	
			99 Not Applicable	
2856	NUMCYL	74N	# Cyls In Most Recently Sold/Disposed Of Vehicle	<u>74N</u> 32
			0 Number Not Reported	
			1 None (Rotary)	
			2 Four	
			3 Six	
			4 Eight	
			8 Not Answered	
			9 Not Applicable	
2857	BUYAIR	74N	Purchased Room Air Conditioner In Past 12 Months	<u>74N</u> 32
			1 Yes, 1	
			2 Yes, 2 Or More	
			3 No	
			8 Not Answered	
			9 Not Applicable	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2858	NWAIR1	74N	Room Air Conditioning Unit 1 Purchased New Or Used	<u>74N</u> 32
2859	NWAIR2		Room Air Conditioning Unit 2 Purchased New Or Used	32
			1 New	
			2 Used	
			8 Not Answered	
			9 Not Applicable	
2860	CSTAR1	74N	Cost Of Room Air Conditioner (Unit 1)	<u>74N</u> 32
2861	CSTAR2		Cost Of Room Air Conditioner (Unit 2)	32
			000 Cost Not Reported	
			50-750 \$50-\$750	
			998 Not Answered	
			999 Not Applicable	
2862	TVBW	74N	Number of Black And White Television Sets In House	<u>74N</u> 32
			1 None	
			2 One	
			3 Two	
			4 Three Or More	
			8 Not Answered	
			9 Not Applicable	
2863	TVCOL	74N	Number of Color Television Sets In House	<u>74N</u> 32
			1 None	
			2 One	
			3 Two	
			4 Three Or More	
			8 Not Answered	
			9 Not Applicable	
2864	BUYTV	74N	Television Set Purchased In Last 12 Months	<u>74N</u> 32
			1 Yes, 1	
			2 Yes, 2 Or More	
			3 No	
			8 Not Answered	
			9 Not Applicable	
2865	BWTV1	74N	TV Purchased Is Black & White Or Color (Set 1 of 2)	<u>74N</u> 32
2866	BWTV2		TV Purchased Is Black & White Or Color (Set 2 of 2)	32
			1 Black & White	
			2 Color	
			8 Not Answered	
			9 Not Applicable	
2867	NEWTV1	74N	Television Set Purchased New Or Used (Set 1 of 2)	<u>74N</u> 32
2868	NEWTV2		Television Set Purchased New Or Used (Set 2 of 2)	32
			1 New	
			2 Used	
			8 Not Answered	
			9 Not Applicable	
2869	TV1CST	74N	Cost Of Television Set (Set 1 of 2)	<u>74N</u> 32
2870	TV2CST		Cost Of Television Set (Set 2 of 2)	32
			000 Cost Not Reported	
			025-900 \$25-\$900	
			9998 Not Answered	
			9999 Not Applicable	
2871	REFRIG	74N	Refrigerator, Owned Or Furnished By Someone Else	<u>74N</u> 33
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	

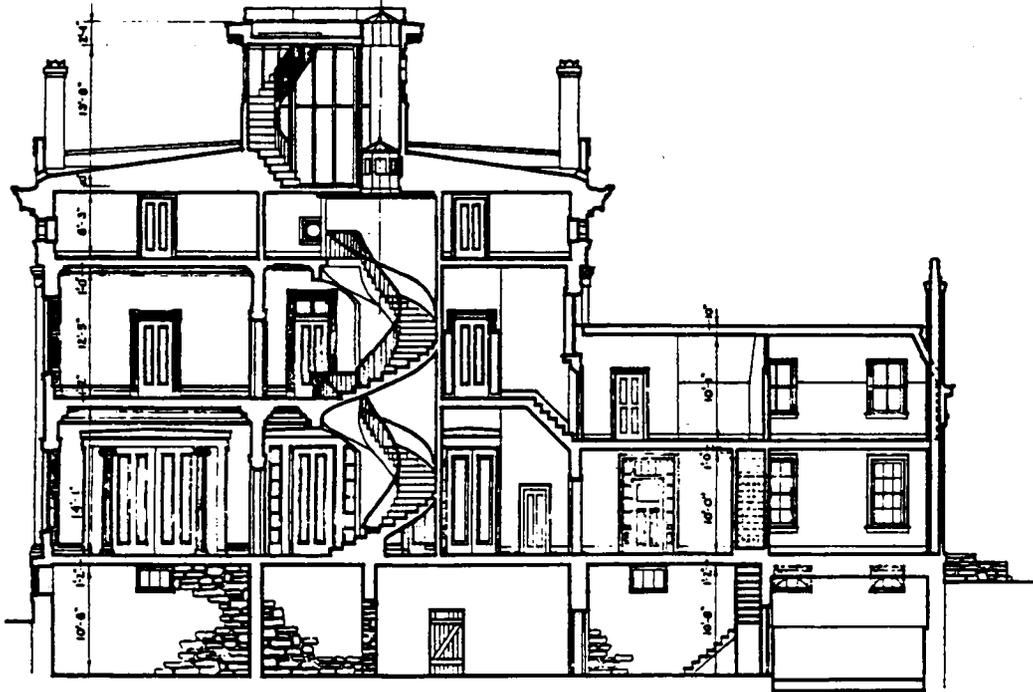
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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2872	RFGOWN	74N	Refrigerator Purchased New Or Used 1 Furnished 2 Owned, Not Purchased In Last 12 Months 3 New, Purchased In Last 12 Months 4 Used, Purchased In Last 12 Months 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2873	RFGCST	74N	Cost of Refrigerator 000 Cost Not Reported 050-750 \$50 To \$750 998 Not Answered 999 Not Applicable	<u>74N</u> 33
2874	WASHER	74N	Washing Machine, Owned Or Furnished By Someone Else 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2875	WSHOWN	74N	Washing Machine Purchased New Or Used 1 Furnished 2 Owned, Not Purchased In Last 12 Months 3 New, Purchased In Last 12 Months 4 Used, Purchased In Last 12 Months 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2876	WSHCST	74N	Cost of Washing Machine 000 Cost Not Reported 050-750 \$50 to \$750 998 Not Answered 999 Not Applicable	<u>74N</u> 33
2877	DRYER	74N	Clothes Dryer Owned Or Furnished By Someone Else 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2878	DRYOWN	74N	Clothes Dryer Purchased New Or Used 1 Furnished 2 Owned, Not Purchased In Last 12 Months 3 New, Purchased In Last 12 Months 4 Used, Purchased In Last 12 Months 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2879	DRYCST	74N	Cost of Clothes Dryer 000 Cost Not Reported 50-750 \$50-\$750 998 Not Answered 999 Not Applicable	<u>74N</u> 33
2880	DISHER	74N	Dishwasher, Owned Or Furnished By Someone Else 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2881	DSHOWN	74N	Is Dishwasher Owned Or Furnished By Someone Else 1 Furnished 2 Owned, Not Purchased In Last 12 Months 3 New, Purchased In Last 12 Months 4 Used, Purchased In Last 12 Months 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2882	DSHCST	74N	Cost of Dishwasher 000 Cost Not Reported 50-750 \$50-\$750 998 Not Answered 999 Not Applicable	<u>74N</u> 33

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2883	FREEZ	74N	Separate Freezer, Owned Or Furnished By Someone Else 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2884	FRZOWN	74N	Separate Freezer Purchased New Or Used 1 Furnished 2 Owned, Not Purchased In Last 12 Months 3 New, Purchased In Last 12 Months 4 Used, Purchased In Last 12 Months 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2885	FRZCST	74N	Cost Of Separate Freezer 000 Cost Not Reported 050-750 \$50 To \$750 998 Not Answered 999 Not Applicable	<u>74N</u> 33
2886	KIT	74N	Kitchen Range, Owned or Furnished By Someone Else 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2887	KITOWN	74N	Kitchen Range Purchased New Or Used 1 Furnished 2 Owned, Not Purchased In Last 12 Months 3 New, Purchased In Last 12 Months 4 Used, Purchased In Last 12 Months 8 Not Answered 9 Not Applicable	<u>74N</u> 33
2888	KITCST	74N	Cost Of Kitchen Range 000 Cost Not Reported 050-750 \$50 To \$750 998 Not Answered 999 Not Applicable	<u>74N</u> 33

## Light Wells

Houses more than two rooms deep frequently have light wells to provide both light and ventilation to the interior spaces. Properly designed, light wells can serve as thermal chimneys, drawing air through the house. Painting them white will increase the amount of light reaching the bottom of the shaft. Light wells are most commonly found in row houses.



*James F. D. Lanier House, Indiana (1840-44). The stairwell serves as an interior lightwell, providing light down through the center of the house. It is lit by a small skylight in the cupola.*

## Chapter 1

### ERRORS IN AHS DATA

As you may know a sample survey usually differs from the rest of the country in small random ways. These random differences are called sampling errors, and will be discussed in Section 2.0. However, first we will discuss nonsampling errors in the AHS, which are often larger.

To summarize both kinds of errors, you should probably assume that any percentage may be off by at least plus or minus 2 percentage points (more on some variables). If the percentage is calculated from less than 2,000 cases, the error may be even larger, and you should use Tables 1-4 and 1-5 to find it.

When the AHS shows an actual number of households, not a percent, it may be off by plus or minus 2 percent of the whole sample. For example, the 1.3 million U.S. homes without kitchens in 1983 may be off by 1.8 million (2 percent of the U.S. housing stock), and the 1,900 homes without kitchens in Washington, D.C. may be off by 5,600 (2 percent of the D.C. housing stock). These are very rough judgments, and other researchers may assert more or less overall error.

#### 1.0 NONSAMPLING ERRORS

Nonsampling errors come from four sources.

Interviewer and Respondent Errors. These errors are due to misunderstandings, people not knowing the answers, or not wanting to give them. Re-interviews and comparisons with other data measure this type of error. Reinterviews show that from a few percent to over half the people change their answers when re-asked the same question a few weeks later. These measurements are discussed in Sections 1.1 and 1.2.

Omissions. Omissions from the sample design are hard to measure but are thought to equal about 6 percent of the country's homes in 1980. Omissions are discussed in Section 1.3. Occupants of the omitted homes tend to have lower income than average. Weights are adjusted to account for about two thirds of these omissions, but this is an imperfect solution. Section 1.3 describes the omissions.

Unanswered Questions. When people in the sample are not interviewed or omit some answers, the AHS assumes they are like people who do answer. This is probably wrong, and the error is unmeasured. About 5 percent of the sample each year is not interviewed (besides the 6 percent omitted from the sample, mentioned above). Chapter 2 discusses how the AHS adjusts weights for them. Further refusals, on individual questions, range up to about 15 percent on wages, and even 30 percent on business and farm income when those were separate question in 1974-83. The Sample Status section describes allocations for these answered questions, and the Directory reports the missing answers on every question in every survey.

Processing Errors. Processing errors can occur at places that use the data, and we have no way to measure these. Processing errors at Census include programming mistakes, and mistakes in tracking or keying the data. Programming mistakes are removed when they are found, and appear to be rare. Keying errors are measured regularly and average one in 10,000 numbers.

### 1.1 Discrepancies in People's Answers in the AHS.

People who do not understand questions, answer wrongly, or are recorded inaccurately by the interviewer, can lead to errors in the data. Therefore, Census conducts periodic studies to determine the extent of the problem. Recently, the answers to selected questions provided by a sample of 6,268 households to the 1987 National Survey were compared to the answers provided by the same respondents in 1985. Households with different answers in both years were asked during the 1987 interview to explain the discrepancies. Table 1.1A below presents the results of the study.

Besides that two year comparison of 1985 and 1987, Census conducts a short second interview within four weeks of the first, at two thousand or so units in each survey. By telephone, an experienced interviewer tries to talk to the same respondent who talked to the first interviewer. Different answers imply that someone made a mistake in at least one of the interviews. However, people who give the wrong answer both times cannot be measured. Table 1-1B shows the reason for discrepancies found in each reinterview for the 1985 and 1986 metro surveys. Table 1-1C shows the rate of discrepancies, though not the reasons, for a much longer list of variables, for many different years, so their importance for your work can be judged. For example, the first line shows different reporting of tenure between the original interview and the re-interview: One percent of all households changed tenure. In particular, one percent of the owners were re-classified as renters, and 2 percent of the renters were re-classified as owners. The two interviews asked about tenure within four weeks of each other, so an actual change in tenure would be rare. The differences may be simple misunderstandings. They may also be ambiguous cases (such as a property loaned by a relative, which should be called rental).

The reinterviews measure some of the error, but they do not catch people who answer both questions wrong. Also, it is unlikely that errors in different directions cancel. For example with a variable like kitchens, 99 percent of households have kitchens, so even a very small proportion who misunderstand the question, or give a wrong answer can greatly increase the number who appear to lack kitchens. For any rare items, like kitchens, even a small error can create substantial over-estimates, and the following errors are not always small.

Table 1.0  
UNITS OMITTED FROM SAMPLE OR NOT ANSWERING 85N AHS  
All These Are Adjusted For In Weight

	OCCUPIED		For Rent*	VACANT	
	Total	Blacks & Hispanics		Year Round	Other
All Units	8%	16%	-30%	3%	30%
New Construction (81.85)	22%	31%	-13%	13%	41%
New Mobile Homes (81.85)	33%	36%	NA	24%	52%

\* In this column, AHS has over-coverage, more units than the control total.  
Source: Comparison of variables PWT and WT

Table 1.1A

Discrepancies Found Between 1985 and 1987 Out of 6268 Households Examined

TENURE

	<u>Reason</u>
Purchased since 1985	21
SOLD, now renting	4
Began charging rent since 1985	1
Stopped charging rent since 1985	2
1985 answer wrong	42
1987 answer wrong	41
Other	38
	<u>149</u>

BASEMENT

	<u>Reason</u>
Built under house	3
Old basement filled in	1
House is split-level, don't know what to call it	17
Have a partial basement, don't know what to call it	18
Walkout basement, don't know what to call it	0
Shallow basement, don't know what to call it	2
1985 answer wrong	305
1987 answer wrong	349
Other	60
	<u>755</u>

BEDROOM

	<u>Reason</u>
Another room converted	144
Addition added	34
Bedroom now used for something else	219
Part of house/apt. merged	4
Attic or basement finished	19
1985 answer wrong	127
1987 answer wrong	164
Other	61
	<u>772</u>

BATHROOM

	<u>1st Reason</u>	<u>2nd Reason</u>
Half converted to full	15	0
Added in addition	52	0
Space converted	7	0
Some/all fixtures removed	5	0
Destroyed in merger	0	0
1985 answer included half bathrooms	6	1
1987 answer included half bathrooms	6	0
1985 answer wrong	253	4
1987 answer wrong	152	1
Other	29	2
Refused	1	
	<u>526</u>	<u>8</u>

FUEL

	<u>Reason</u>
Fuel used less often in 1985, now more	152
New/converted equipment uses other fuel	87
1985 answer wrong	133
1987 answer wrong	155
Other	83
Refused	4
	<u>614</u>

HEATING EQUIPMENT

	<u>1st Reason</u>	<u>2nd Reason</u>
Old equipment replaces	80	0
Types used less 1985, now more	150	3
Installed since 1985	36	1
1985 answer wrong	359	2
1987 answer wrong	480	2
Other	80	5
Refused	11	
	<u>1,196</u>	<u>13</u>

RENT

	<u>Pd Monthly</u>		<u>Pd Yearly</u>	
	<u>1st</u>	<u>2nd</u>	<u>1st</u>	<u>2nd</u>
Major alterations/improvements	6	0	1	0
Conversion or merger				
changed size of unit	0	0	0	0
Disaster/partial demolition				
changed size of unit	0	0	0	0
No longer rent controlled	1	0	0	0
Now rent controlled	1	0	0	0
No longer subsidized	1	0	0	0
Now subsidized	6	0	0	0
Owner raised/lowered rent	76	0	5	0
1985 answer wrong	12	5	4	1
1987 answer wrong	10	0	4	1
Other	33	5	3	2
Refused	1	1	1	0
	<u>147</u>	<u>11</u>	<u>18</u>	<u>4</u>

VALUE

	<u>1st Reason</u>	<u>2nd Reason</u>
Major alterations/improvements	89	13
Disaster/demolition	0	1
Sold/purchased land	3	0
Area more developed	68	23
Area had major disaster	3	1
Changes in the economy	253	54
Rezoning	4	1
1985 answer wrong	296	7
1987 answer wrong	77	4
Other	190	25
Refused	8	1
	<u>991</u>	<u>130</u>

Table 1-18  
 Discrepancies Found during Reinterviews for the 1985 and 1986 Metropolitan Survey  
 (Holes/Cracks)

	1985		1986	
	Same Respondent	Different Respondent	Same Respondent	Different Respondent
<u>Occupied Units</u>				
Number of interviews	1,194	160	1,801	343
Number of discrepancies	74	14	65	10
Percent	6.2%	8.8%	3.6%	2.9%
<u>Reasons Stated by Respondent</u>				
Hole/Crack fixed/appeared since original interview	14		11	2
Original interviewer marked wrong answer	14	2	7	2
Original response was correct	5			
Respondent changed mind	10		8	
Respondent changed mind on size of hole/crack	6			
Respondent confused about question	6			
Qualifying statement in ( ) not read originally	4		6	
Other reasons	11	6	8	2
No reason given	4		19	2
Original respondent forgot		4		
Different respondent		2		2
Respondent does not remember			6	
<u>Vacant Units</u>				
Number of reinterviews	128	55	177	71
Number of discrepancies	8	4	10	3
Percent	6.3%	7.3%	5.6%	4.2%
<u>Reasons Stated by Respondent</u>				
Holes/Cracks fixed/approved since original interview		1		
Respondent not sure of situation			2	
Original response correct	2			
No reason given	2		5	2
Other reasons	4		3	
Different respondent		3		1

Table 1-1C  
Differences Found During Re-Interview, by Original Answer

	All Units	Owners	Renters	Vacant	Survey	Variable
Different tenure	1%	1%	2%	NA	81N	TENURE
Different occupied/vacant status	3	2	4	4	81N	ISTATUS
Different unit visited	.4				81N	NA
Different unit visited	.2				78N	NA
Different household composition	1.0				81N	NA
Different household composition	1.5				78N	NA
Different birthdate	6				78N	ZAGE
Different age	5				78N	ZAGE
Different move date	3				78N	MOVED
	All*	Yes	No	Don't Know	Survey	Variable
Air conditioned	6%	7%	6%		80N	AIR
To reduce central air use:						
Room unit	1	50	1		80N	RARUNT
Awnings	4	50	3		80N	RAAWNS
Dehumidifier	9	50	5		80N	RADHMD
Ceiling fan	5	29	3		80N	RACFAN
Attic fan	6	24	5		80N	RAATFN
Window fan	4	44	3		80N	RAWNFN
Portable fan	15	25	12		80N	RAPOFN
Nothing	23	24	23		80N	RANONE
Added wood/coal stove	3	61	1		80N	HA02WS
Added fireplace	1	67	1		80N	HA03FP
Added port. elec. htr.	5	59	3		80N	HA04EH
Added unvent. keo. htr.	1	86	.3		80N	HA05UV
Added other heater	1	69	1		80N	HA06OT
Added no heater	10	5	58		80N	HA07NO
Have fireplace/stove	6	9	5		80N	FRPL
Fire/stove works	3	2	38		80N	FPLWK
All wood bought	14	26	9		80N	BUYFUL
Had job last week	7	6	7		80N	IFJ1
Pub. trans. besides car	1	55	1		80N	PUBTR1
Car besides pub. trans.	7	43	2		80N	CARTO1
Same work place daily	5	3	30		80N	HJOB1
Garage or carport	5	5	6		78N	GARAGE
Piped water in building	40	0	54		77N	WP1PED
Had to use extra heat sources	8%	44%	5%		77N	HADDL
Had to use extra heat sources	9	61	5		76N	HADDL
Heating breakdown	6	54	4		77N	IFCOLD
Heating breakdown	5	40	2		76N	IFCOLD
Closed unheatable rooms	5	47	3		77N	IFCLSD
Closed unheatable rooms	4	60	2		76N	IFCLSD
Interior open cracks/holes	5	49	2		77N	CRACKS
Interior open cracks/holes	5	51	3		76N	CRACKS
Holes in floors	2	35	1		77N	HOLES
Holes in floors	2	58	1		76N	HOLES
Seen mice or rats	9	40	4		76N	RATS
Basement	5	5	4		76N	CELLAR
Basement leak	15	27	10	38	76N	BLEAK
Electric plug in every room	3	2	49		76N	PLUGS

\* "All" means applicable households. For example, piped water was only asked at occupied homes, not vacant.

Table 1-1C (continued)  
Differences Found During Re-Interview, by Original Answer

	<u>All*</u>	<u>Yes</u>	<u>No</u>	<u>Don't Know</u>	<u>Survey</u>	<u>Variable</u>
All wiring concealed	3	2	75		76N	NOWIRE
Attic or roof insulation	28	11	40	55	76N	INSUL
Thru other bedroom to bath	10	32	5		76N	PRIVB
Thru bedroom to other room	6	50	2		76N	PRIVN
13+ shares bedrm w/2 others	19	14	29		76N	NOPRIV
Blown fuses	10	51	5	100	76N	IFBLOW
Garbage collection	7	4	14	100	76N	TRASH
Mobile home loans	22	17	27		75N	MLOAN
Mortgage	1	4	2		75N	MORT
Water stopped 6+ hours	13	11	5	75	75N	BADDRY
Roof leaked in last 3 months	5	29	2	42	74N	RLEAK
Roof leaked in last 3 months	5	28	2	51	73N	RLEAK
Main reason for move	15	NA	NA		73N	WHYMOVE

	<u>All</u>	<u>One</u>	<u>Two</u>	<u>Three</u>	<u>Four or More</u>	<u>Survey</u>	<u>Variable</u>
Number of carpool	17	NA	11	37	46	80N	PASS1
Number of rooms	3	22	30	14	1	78N	ROOMS
Number of bedrooms**	6	4	5	6	8	78N	BEDRMS
Number of bedrooms**	5	6	5	4	7	77N	BEDRMS
Heating breakdowns	22	15	40	0	50	77N	NUMCOLD
Heating breakdowns	26	20	50	25	40	76N	NUMCOLD

	<u>All</u>	<u>None</u>	<u>One</u>	<u>Two</u>	<u>Three or More</u>	<u>Survey</u>	<u>Variable</u>
Cars owned or used	14	13	10	19	26	80N	CARS
Cars owned or used	8	8	5	9	13	77N	CARS
Cars owned or used	6	6	4	8	5	73N	CARS
Trucks owned or used	9	4	15	37	18	80N	TRUCKS
Trucks owned or used	5	3	8	21 (2+)		77N	TRUCKS
Rooms without heating ducts	11	5	57	52	29	77N	NUMND
Rooms without heating ducts	85	6	57	54	34	76N	NUMND
Blown fuses	17	NA	16	30	9	76N	NUMBLOW

	<u>All</u>	<u>Exclusive Use</u>	<u>Shared</u>	<u>No</u>	<u>Survey</u>	<u>Variable</u>
Complete kitchen	1	.3	88	14	78N	KITCHEN
Complete kitchen	1	.2	NA	26	77N	KITCHEN
Complete kitchen	1	.3	89	11	75N	KITCHEN
Complete plumbing	1	.2	33	19	77N	PLUMB
Complete plumbing	1	1	46	23	74N	PLUMB

	<u>All*</u>	<u>Ex.</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Survey</u>	<u>Variable</u>
House rating 2+ points difference	2%	2%	.3%	4%	8%	77N	HOWH
House rating 2+ points difference	2	2	.4	5	10	76N	HOWH
House rating 2+ points difference	1	1	.2	3	10	75N	HOWH
House rating 2+ points difference	1	1	.4	2	9	74N	HOWH
N'hood rating 2+ points difference	2	2	.1	3	39	77N	HOWN
N'hood rating 2+ points difference	2	2	.4	4	16	76N	HOWN
N'hood rating 2+ points difference	2	3	0	8	19	75N	HOWN
N'hood rating 2+ points difference	1	1	.1	2	11	74N	HOWN
N'hood rating 2+ points difference	1	1	.8	3	1	73N	HOWN

\*"All" means applicable households. For example, piped water was only asked at occupied homes, not vacant.

\*\* Not clear what efficiencies are.

Table 1-1C (continued)  
Differences Found During Re-Interview, by Original Answer

	All	Have Cond.	Do Not	Don't Know	All** with Cond.	No Bother	Little Bother	Much Bother	Want Move	Survey	Variable
Street noise	19	32	14		5	5	3	11	10	77N	STRN
Heavy traffic	16	27	12							77N	TRAF
Streets need repair	15	44	8							77N	ROAD
Snow blocks road	12	48	7							77N	SNOW
Poor street lighting	17	29	13							77N	STRL
Neighborhood crime	12	41	6							77N	CRIME
Littered streets/lots	13	48	6							77N	JUNK
Boarded/abandoned bldgs	5	31	3							77N	ABAN
Rundown occupied homes	8	45	5							77N	DUMP
Non-residential act.	18	39	14							77N	NONRES
Odors	8	49	4							77N	ODOR
Plane noise	13	29	10							77N	AIRN
Unsatis. public trans.	28	31	20	61						74N	TRN
Unsatisfactory schools	14	42	7	50						77N	SCH
Neighborhood shopping	13	43	8	100						77N	SHP
Police protection	85	50	6	68						77N	FUZZ
Recreation facility	24	43	14	65						77N	RECR
Hospitals/clinics	18	48	11	61						77N	HOSP

	All Renters	Utility paid by Household	Included in Rent	Not Used	Survey	Variable
Different payee for:						
Electricity		2	2	8	0	81N
Gas		13	3	26	20	81N
Other fuels		17	17	47	11	81N
Water		3	10	2	NA	81N
Garbage		3	19	1	NA	81N

	All Owners	Utility paid by Household	Not Used	Survey	Variable
Electricity	.2	0	40	77N	BUYE
Gas	1	.5	2	77N	BUYG

	All	Ducts	Heat Pump	Radia- tors	Built in Electric	Floor or Wall Furnace	Room Heaters		Fireplace, Stove or Portable	None	Survey	Variable
							Vented	Unvented				
Main htg.	16	11	27	15	13	26	38	21	33	40	80N	HEQUIP
Main htg.	13	6	53	9	18	26	43	21	28	46	77N	HEQUIP
Main htg.	7	3	NA	4	8	10	19	19	14	18	75N	HEQUIP
Main htg.	3	4	NA	7	8	15	18	14	30	0	74N	HEQUIP

	All*	None	Gas		Oil	Kero	Elec	Coal Coke	Wood	Solar	Other	Survey	Variable
			Piped	Bottled									
Main htg. fuel	7%	18%	5%	9%	6%	27%	14%	0%	17%	NA	25%	78N	HFUEL
Main htg. fuel	5	NA	3	19	6	50	5	15	16	NA	100	77N	HFUEL

	All	Wood	Coal	Other	None	Survey	Variable
Fire/stove fuel	9	3	17	25	44	80N	FPLFUL

	All	Central	Room Units	Survey	Variable
Type of air conditioning	3	2	4	80N	AIRSYS

"All" means applicable households. For example, piped water was only asked at occupied homes, not vacant.  
 \*\* Different by two or more points.  
 \*\*"All" means applicable households. For example, piped water was only asked at occupied homes, not vacant.

Table 1-1C (continued)  
Differences Found During Re-Interview, by Original Answer

Commute in	<u>All</u>	<u>Car</u>	<u>Truck</u>	<u>Van</u>	<u>Survey</u>	<u>Variable</u>								
	6	3	14	48	80N	VEHCL1								
Commute by	<u>All</u>	<u>Drive alone</u>	<u>Pool</u>	<u>Bus</u>	<u>Subway</u>	<u>RR</u>	<u>Taxi</u>	<u>Mcyc</u>	<u>Bike</u>	<u>Walks</u>	<u>Horse</u>	<u>Other</u>	<u>Survey</u>	<u>Variable</u>
	10	5	18	23	19	44	0	27	18	21	26	100	80N	TRAN1
Why drive alone	<u>All</u>	<u>Irreg hours</u>	<u>Irreg place</u>	<u>Need car</u>	<u>Know no one</u>	<u>Like privacy</u>	<u>No detour</u>	<u>No waiting</u>	<u>Emer/ o'time</u>	<u>Mistrust other drivers</u>	<u>Other</u>	<u>Survey</u>	<u>Variables</u>	
	52	41	67	54	39	71	84	86	94	75	77	80N	ALONE1	
Why not pub trans	<u>All</u>	<u>Prefer car</u>	<u>Far fm. work</u>	<u>Slow</u>	<u>Bad Schedule</u>	<u>No pub trans</u>	<u>Far fm home</u>	<u>Cost</u>	<u>Need car</u>	<u>Handi-cap</u>	<u>Other</u>	<u>Survey</u>	<u>Variables</u>	
	43	65	80	82	76	22	89	67	53	0	77	80N	NOPUB1	
Why use pub trans	<u>All</u>	<u>No license</u>	<u>No car</u>	<u>Cheap</u>	<u>Parking</u>	<u>Driving strain</u>	<u>Fast</u>	<u>Other</u>	<u>Survey</u>	<u>Variables</u>				
	33	0	20	21	75	100	71	50	80N	WMEAN1				
Number of bathrms	<u>All</u>	<u>Diff. rooms</u>	<u>1 Bathrm</u>	<u>1 1/2 w/o Tit</u>	<u>1 1/2 w/ Tit</u>	<u>2</u>	<u>Over 2</u>	<u>Survey</u>	<u>Variable</u>					
	11	7	3	83	20	15	20	77N	BATHS					
Water source	<u>All</u>	<u>System</u>	<u>Well</u>	<u>Other</u>	<u>Survey</u>	<u>Variable</u>								
	2	1	3	13	78N	WATER								
Sewage disposal	<u>All</u>	<u>System</u>	<u>Septic</u>	<u>Privy</u>	<u>Other</u>	<u>Survey</u>	<u>Variable</u>							
	2	1	4	4	100	78N	SEWDIS							
Storm windows	<u>All*</u>	<u>Everywhere</u>	<u>Some</u>	<u>None</u>	<u>Survey</u>	<u>Variable</u>								
Storm doors	12%	10%	37%	9%	76N	STORM								
	15	11	41	9	76N	STORM								
3 people/bedroom	<u>All</u>	<u>In 1 Bedrm</u>	<u>In 2 Bedrms</u>	<u>No</u>	<u>Survey</u>	<u>Variable</u>								
	3	21	67	1	76N	IF3BED								

"All" means applicable households. For example, piped water was only asked at occupied homes, not vacant.

Table 1-1C (continued)  
Differences Found During Re-Interview, by Original Answer

	<u>All</u>	<u>Year round</u>	<u>Migratory</u>	<u>Summer only</u>	<u>Winter only</u>	<u>Other Seasonal</u>	<u>Survey</u>	<u>Variables</u>
Different seasonality	12	6	67	33	NA	0	80N	VACANCY

	<u>All</u>	<u>For rent</u>	<u>Reg. sale</u>	<u>Sale condo</u>	<u>Sale coop</u>	<u>Not occupied rented</u>	<u>Occas. sold</u>	<u>Other use</u>	<u>Survey</u>	<u>Variables</u>	
Reason for vacancy	31	29	6	33	NA	67	50	35	25	80N	VACANCY

	<u>All</u>	<u>Here</u>	<u>Elsewhere</u>	<u>Survey</u>	<u>Variables</u>
Preferred area in 5 years	20	16	27	80N	WHRIN5

	<u>All households with any condition on orig. or re-interview</u>	<u>Have this condition</u>	<u>Don't</u>	<u>Survey</u>	<u>Variable</u>
Asthma	8	65	3	78N	ASTHMA
Tuberculosis	0	50	0	78N	TUBERC
Chronic bronchitis	4	58	2	78N	BRONCH
Emphysema	2	47	1	78N	EMPHY
Other lung problem	3	74	1	78N	LUNGO
Heart attack	5	66	2	78N	ATTACK
Other heart trouble	10	69	4	78N	HEARTO
Stroke	1	42	1	78N	STROKE
Arthritis or rheumatism	26	55	16	78N	ARTH
Convulsions or epileptic seizures	1	64	1	78N	EPILEP
Cerebral palsy	0	100	0	78N	PALSY
Deaf or serious trouble hearing	6	68	3	78N	DEAF
Blind or serious trouble seeing	6	80	2	78N	BLIND
Missing legs, feet or toes	0	50	0	78N	LEGSM
Missing arms, hands or fingers	1	67	0	78N	ARMSM
Chronic limb stiffness or deformity	4	76	2	78N	LIMBST
Chronic back stiffness or deformity	4	88	2	78N	BACKST
Other trouble with back or spine	11	85	4	78N	BACKO
Paralysis	1	71	0	78N	PARAL
Other conditions	17	76	9	78N	CONDOR

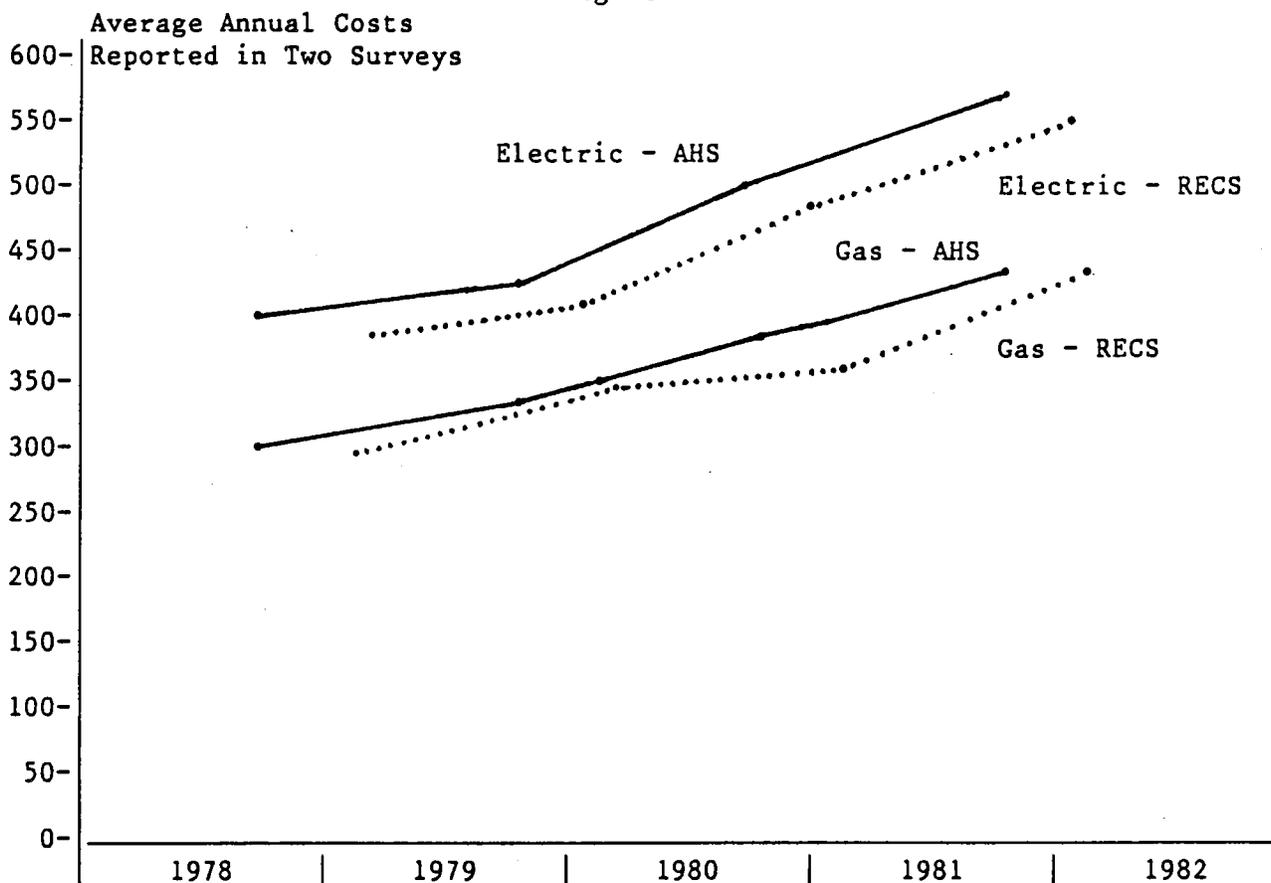
		<u>1 problem</u>	<u>2 problems</u>	<u>3+ problems</u>	<u>Survey</u>	<u>Variable</u>
Number of conditions	73	60	79	93	78N	NA
Number of difficulties	89	81	100		78N	NA

	<u>All households with any condition on orig. or re-interview</u>	<u>Have this difficulty</u>	<u>Don't</u>	<u>Survey</u>	<u>Variable</u>
Hard to go in/out of house	31	65	21	78N	INOUT
Hard to get around inside	24	92	18	78N	AROUND
Hard to go up/down stairs	60	79	49	78N	UPDOWN
Hard to use bathroom/kitchen/etc.	14	100	11	78N	USEQUI

## 1.2 Comparison with Other Data

In addition to re-interviews, which repeat the survey's own questions in order to find errors, we can compare some AHS items to more accurate data from other sources. Three comparisons are shown here, covering utility costs and income. We are not aware of comparisons of other subjects. The data below suggest that AHS utility costs are a little high, and incomes a little low. Therefore rent to income ratios are also too high in the AHS, on average. The details of these comparisons are discussed below.

Figure 1-1



Source: Energy Information Administration, Consumption Expenditures, April 1981 through March 1982, Part 1: National Data, Washington, Government Printing Office, 1983 (and earlier editions), and HUD special tabulations.

AHS reports higher utility costs than the Residential Energy Consumption Survey (RECS, sponsored by the Department of Energy). AHS figures come from household interviews; RECS energy figures come from utility company records, so they are more accurate than AHS. A plausible reason for the higher AHS figures is that households are more concerned about and therefore over-emphasize high cost months when they mentally average their bills for the AHS interviewer.

The discrepancy is fairly consistent over time, and data not presented here show it is also consistent for single family detached homes. Studies do show that 1980 Census data are even more over-stated, and vary greatly from area to area.

Independent estimates of income from GNP accounts, the Social Security Administration, the Veterans Administration, and so forth are shown in Table 1-2. AHS figures are lower than the independent estimates for total income and for every category other than self-employment income. The Current Population Survey (CPS) is done by the Census Bureau for the Labor Department. It is also low but comes closer to the independent estimates. When income is asked in CPS it is a major part of the questionnaire, while it is only a small part of the AHS questionnaire.

Table 1-2  
Money Income of All U.S. Households  
Billions of Dollars

	<u>Independent Estimate</u>	<u>CPS</u>	<u>AHS</u>	<u>AHS as % of Ind. Est.</u>
Total money income	\$2,403*	\$2,201	\$2,073	86
Wages or salaries	1,632	1,161	1,505	92
Interest	221	99	67	30
Soc. Sec., RR ret.	155	142	139	90
Nonfarm self-employment	104	120	142	137
Dividends	60	27	38**	63
Estates & trusts	NA	7		
Fed & mil. retirement	35	32	33	94
State & local gov't ret.	21	13		
Private pensions & anna.	55	35	27	49
Net rent & royalties	34	17	23**	68
Unemployment comp	26	20	18	69
AFDC	14	11		
SSI	9	8	17	189
Other public assistance	NA	2		
Workers' comp	14	7	5	36
Veterans' payments	14	9	13**	93
Farm self-employment	9	10	25	278
Alimony & child support	NA	8	8	
Reg. contrib. from people	NA	5	5	
Other money income	NA	14	9	
12 months ending	12/83	12/83	10/83	

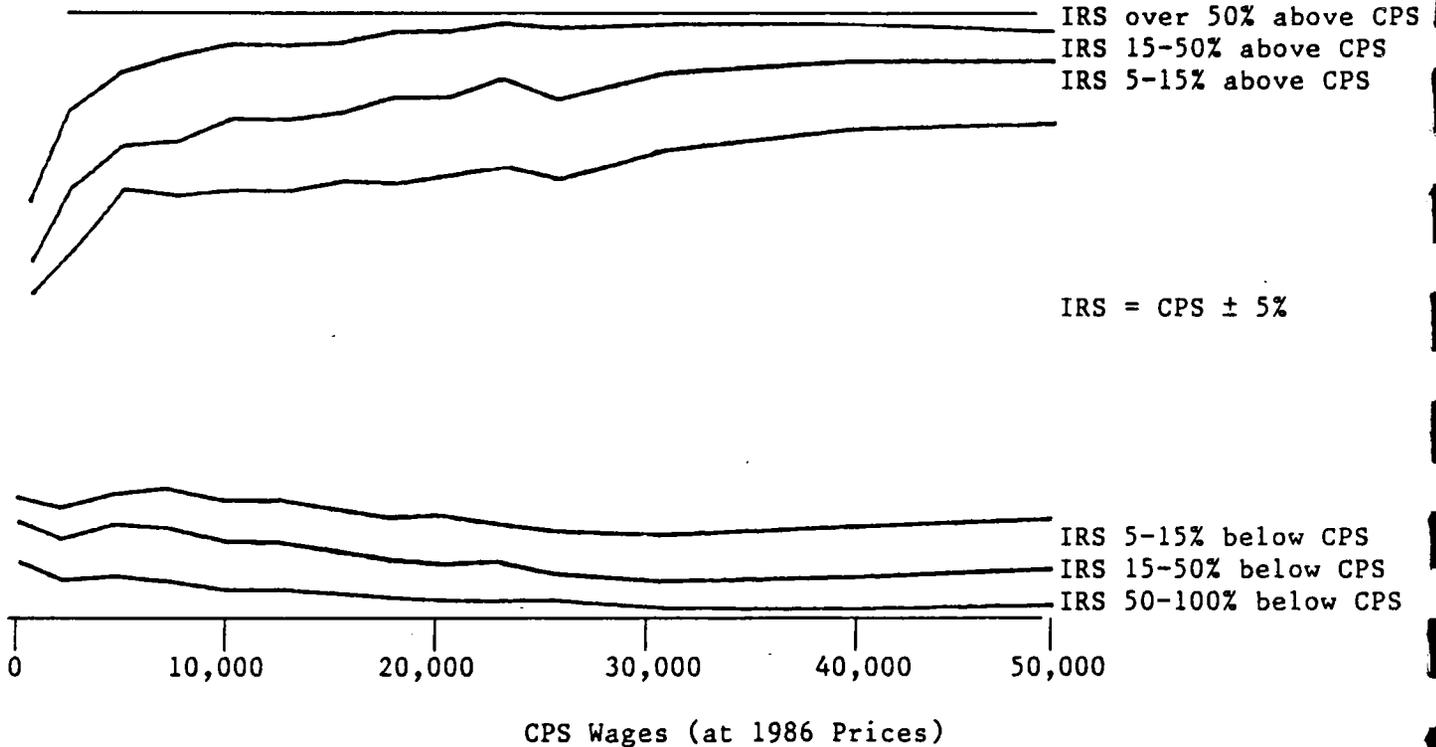
\*Excludes 5 categories, shown as NA. There are other differences such as the exclusion of children's income (0-14) from CPS and AHS, military households from CPS, and group quarters from AHS.

\*\*AHS comes closer to independent estimate than CPS does. This is considered desirable, but even the independent estimates contain unknown amounts of errors.

Source: Census Series P-60, No. 151, p. 170 and HUD special tabulation. (Since the AHS public use tape does not distinguish among amounts of \$50,000 or more, they have each been treated as \$60,000.)

In addition, Census Bureau staff have compared the 1973 CPS to individual tax returns from the same people, using social security numbers to match the data. Some people of course did not submit tax returns, usually because their income was too low. Figure 1-2 shows people who appeared in both CPS and IRS records.

Figure 1-2  
Distribution of Tax Filers, at Each Income, by  
Difference between IRS and CPS Wages



Source: Drawn from data in: Roger A. Herriot and Emmett F. Spiers, "Measuring the Impact on Income Statistics of Reporting Differences between the Current Population Survey and Administrative Sources" in Social Security Administration, Studies from Interagency Data Linkages Report 11, SSA, 1980, Table 6.

The large area in the middle of the graph represents families where IRS data are within 5 percent of CPS. This area only covers about half the families. For other families, IRS information is progressively farther from CPS. The bands at the top are wider than those at the bottom, reflecting more families where the IRS is above the CPS than below. There is reason to believe that IRS data are more accurate than CPS, because taxpayers used their W-2 forms when submitting to IRS, and there are penalties for mistakes. Therefore, each income category in CPS (or AHS) data includes families whose incomes are really higher or lower than that category.

The study was done with 1972 income; current data would be expected to be similar. AHS is similar to CPS, so the findings probably apply to AHS also. The graph covers wages, salaries, tips, and overtime reported to CPS. Some people do not tell CPS (or AHS) what their wages were. Their wages are allocated on the tape, and would be farther from IRS than most of the cases shown here.

### 1.3 Omissions from the AHS Sample Design

The sample design is fully discussed in Chapter 3. This section just summarizes the main gaps, so if you are studying one of these areas, you can be aware of the AHS' weakness.

Some new construction units are missed. The sample of building permits is selected several months before the end of the survey, so the most recent spring and summer of building permits are missed in each national survey. Summer and fall are missed in each SMSA survey. The total is adjusted by weighting, but detailed characteristics for the most recent year may well be wrong. New constructions occurring just before the most recent Census may also be missed, since they can be accidentally screened out of the sample.

Other new housing is also hard to sample: conversions from non-residential buildings, new locations for mobile homes, etc. Finally there are three types of illegal housing listed at the bottom of the table. Some people hide from Census interviewer if their situation is illegal, even though the survey is confidential.

Table 1-3  
Types of Homes Covered Poorly by AHS

	<u>Surveys with Problem</u>	
	<u>National</u>	<u>SMSA</u>
New homes built just before survey was over or just before Census was taken	All	All
Homes created in non-residential buildings after 3/70	73N-83N	All
Homes created in already-residential buildings after 3/70		All but 76S-81S
Mobile home parks founded after 3/70	73N-75N 77N-80N	All but 76S-78S
Mobile homes outside parks and installed after 3/70 or vacant then	73N-83N	All
Conventional homes moved onto new sites after Census	All	All
Homes created on Federal land (e.g., military) after 3/70	All	All
Homes on boats, RVs, etc.	All	All
Extra apartments in houses zoned single family	All	All
Homes built without permits where building permits required	All	All
Households of illegal aliens	All	All

2.0 SAMPLING ERROR

The AHS does not cover every home in the United States. A large random sample was selected, and it should be representative, but there is always a chance that the people in the sample could be a little different from the average.

2.1 Error Tables

Tables 1-4 and 1-5 show by how much the AHS sample may differ from the rest of the country.

Table 1-4

When the national AHS shows one of these numbers:	Then the odds are 95 out of 100 that the sampling error in the whole country is within plus or minus:	
0	5,000	4,000
25,000	16,000	13,000
100,000	31,000	27,000
250,000	49,000	42,000
500,000	70,000	60,000
1,000,000	98,000	85,000
5,000,000	215,000	185,000
10,000,000	295,000	254,000
25,000,000	423,000	364,000
50,000,000	477,000	410,000
	Use this column for numbers on:  Hispanics Mobile Homes Built since 1970 Incomplete kitchen or plumbing Zero bedrooms or bathrooms	Use this column for all other topics.

Note: For mobile homes in the South Region, multiply these national errors on mobile homes by 1.3. For mobile homes in the West, multiply by 1.8. For other regional numbers, use the figures in the table without adjustment.

For example, if the AHS shows 100,000 units of a certain type, then this table shows that the sampling error can be as large as 31,000. Therefore, the true number of units of this type can be anywhere between 69,000 and 131,000. It should be noted that the right hand column applies to most topics. Also, remember that errors caused by the sample are in addition to other errors such as the errors found by re-interviews, as discussed above.

Table 1-5 shows sampling errors when a percentage is calculated from the national AHS:

Table 1-5

When the base of the percent is:	and AHS shows that a category is...			
	2% or 98%	10% or 90%	25% or 75%	50%
	...of the base, then the odds are 95 out of 100 that the sampling error is within plus or minus (in percentage points):			
5,000	53.6	53.6	53.6	49.9
10,000	31.1	31.1	36.8	42.5
25,000	13.7	16.1	23.3	26.9
50,000	7.1	11.4	16.5	19.0
100,000	3.8	8.1	11.6	13.4
250,000	2.4	5.1	7.4	8.5
500,000	1.7	3.6	5.2	6.0
1,000,000	1.2	2.6	3.7	4.3
2,500,000	.8	1.6	2.3	2.7
5,000,000	.5	1.1	1.6	1.9
7,500,000	.4	.9	1.3	1.6
10,000,000	.4	.8	1.2	1.3
25,000,000	.2	.5	.7	.9
50,000,000	.2	.4	.5	.6
75,000,000	.1	.3	.4	.5
90,000,000	.1	.3	.4	.4

Note: For the special topics listed in the last table, multiply these errors by 1.2. For mobile homes in the South Region, multiply by 1.5. For mobile homes in the West, multiply by 2.

For example, suppose the AHS shows 9,000,000 black households, and 45.0 percent of them own their own homes. To measure the error in this percent, we go to '10,000,000' and '50%' in the table, and find an error of '1.3'. This means the true percent may be 45.0 plus or minus 1.3, so black ownership is likely to be between 43.7 and 46.3 percent.

The tables above measure sampling errors in national AHS surveys. The sampling errors in metropolitan surveys are smaller, but vary widely from place to place. When you obtain a number from a metropolitan survey, find the square root of that number, multiply this square root by the factor in Table 1-6, and you will have the sampling error. (Error = (factor from Table 1-6) x  $\sqrt{\text{number from AHS}}$ ). For example the factor for Albany in 1980 is 16. If the Albany area had 40,000 homes of a particular type in 1980, the square root is 200, multiplied by 16 is 3,200, so the chances are 95 out of 100 that the true number is between 36,800 and 43,200.

When you obtain a percent (P) from a metropolitan survey, use the following formula:

$$\text{Error} = (\text{factor from Table 1-6}) \times \frac{\sqrt{P(100 - P)}}{\text{base of percent from AHS}}$$

Table 1-6  
METROPOLITAN ERROR FACTORS

Name	Survey Year														
	74	75	76	77	78	79	80	81	82	83	84	85	86	87	
Albany-Schenectady-Troy	16			16			16								
Allentown-Bethlehem-Easton			15					14							
Anaheim-Santa Ana-Garden Grove	24			24				.26							
Atlanta		16			17				27						
Baltimore			27			28				32					
Birmingham			16				17								
Boston-Lawrence-Lowell (1)	24			24				34							
Buffalo			21			20									
Chicago		28				29				43					
Cincinnati		21			22				24						
Cleveland			25			26									
Colorado Springs		10			10										
Columbus		17			18				21						
Dallas-Fort Worth (2)	24			24				28							
Denver			24			23				29					
Detroit	24			24				38							
Fort Worth (2)	17			17				19							
Grand Rapids			14				14								
Hartford		14				15				18					
Honolulu			15			15				18					
Houston (7)			18			20				42					
Indianapolis			20				20								
Kansas City		20			21				25						
Las Vegas			11			12									
Los Angeles-Long Beach	29			29			14								
Louisville			18				17			33					
Madison		10		10				10							
Memphis	18			18			17								
Miami-Fort Lauderdale (3)		24				24				29					
Milwaukee		21				21									
Minneapolis-St. Paul	25			25				27							
New Orleans		19			21				23						
New York			44				44			51					
Newark-Northeastern NJ (4)	24			24				29							
Newport News-Hampton-Norfolk (5)		19			11										
Oklahoma City			18				17								
Omaha			14			14									
Orlando	15			15				17							
Paterson-Clifton-Passaic (4)		19			21				23						
Philadelphia		21			26				44						
Phoenix	20			20				24							
Pittsburgh	28			28				31							
Portland, Oregon		19				20				26					
Providence-Pawtucket-Warwick			18				18								
Raleigh			9			10									
Rochester		17			17				19						
Sacramento			19				20			24					
Saginaw	**			8			8								
St. Louis			20				21			35					
Salt Lake City	13			13			14								
San Antonio		17			18				20						
San Bernardino-Riverside-Ontario		21			6				29						
*San Diego		24			6				29						
*San Francisco-Oakland					21				40						
San Jose															
*Seattle-Everett-Tacoma (6)			14			14				33					
Sooke	10			10				12							
Springfield-Chicopee-Holyoke		12			13										
Tacoma (6)	12			12				14							
Tampa-St. Petersburg															
Washington, DC	23			23				23							
Wichita	11			11				12							

Survey Year 74 75 76 77 78 79 80 81 82 83 84 85 86 87

Note: Each factor is approximately 1.96 times the square root of the average weight.

For example if the AHS shows 96,000 renters in the Albany area, and 14.1 per cent of them rent single family homes, the error is:

$$16 \times \frac{14.1 \times (100 - 14.1)}{96000}$$

or 1.8. The true percent is likely to be between 12.3 and 15.9.

This approach will also give more accuracy for national errors than Tables 1-4 and 1-5 above. Therefore, factors for various groups are provided in Table 1-7.

Table 1-7  
National Error Factors for Selected Groups

Survey Year	73	74	75	76	( 77 - 80 )	81	83
National Tapes							
U.S.: Mobile Homes, NCPK*, Hispanics	76	87	90	92	95	104	99
U.S.: Other	87	86	75	76	82	89	85
South: Mobile Homes					126	138	131
West: Mobile Homes					166	182	173
NE, MW: Mobile Homes, NE, MW, West: NCPK					100	110	104
Regions: Other	NA	NA	NA	NA	85	92	88

\* NCPK means New Construction, or incomplete Plumbing or Kitchens, except in 73-76, when it omits new construction. In 73 it also includes Blacks.

Note: Each metropolitan factor is about 1.96 times the square root of the average weight. National factors are larger than that, because of the clustered sample.

These tables of errors may meet the needs of most users. Sections 2.2 and 2.3 present two other methods for statisticians and econometricians, if they need more refined estimates of the standard error and confidence intervals.

## 2.2 Statistical Tests From Computer Programs

Many computer packages calculate statistical tests and confidence intervals for you. First, it is important to be sure your computer package uses the correct sample size in calculating statistics. Some packages, including BMDP, SAS and SPSS, wrongly treat the weighted count as a sample size; for example the package might assume there were 85 million households in the 1983

National AHS, rather than the actual count of 61,000 occupied homes. To tell if your package makes this mistake, you should divide all weights by the average weight. If this changes the standard errors, there is a mistake, and the ones after the division should be used.

Second, the packages usually assume simple random sampling. Due to the stratification and clustering of the AHS design, confidence intervals from statistical packages are too small. Fortunately there is also a simple adjustment for the sample design.

The "design effect" is a number which is different for different variables, and is shown in Table 1-8. Any time you obtain a standard error from the computer, multiply it by the square root of the design effect. Alternatively you can correct standard errors: Find the largest design effect that applied to your analysis, and divide all weights by this number (i.e., take the original weight, divided by the average weight, then divided again by the design effect). This computes an effective sample size that adjusts for the complex AHS design. This calculation will give good values although it will slightly over-estimate significance tests with regressions. The package will assume degrees of freedom equal to the effective sample size minus the number of variables, while the actual degrees of freedom are about 50, based on how the design effect was calculated. (This discussion is indebted to Appendix 4 of Procedural Handbook: 1981-82 Mathematics and Citizenship/Social Studies Assessments, undated, from the National Assessment of Educational Progress, ETC, Princeton, NJ 08541-6710, (800) 223-0267 that cites several articles, including Kish and Frankel, "Inference from Complex Samples," J. of the Roy. Stat. Soc. Series B v.36, 1974, and other articles.)

The following rules may also help you:

The 95 percent confidence interval for the proportion P is:

$$P \pm \left[ 1.96 \times \left[ \frac{P(1-P)}{\text{sample size} - 1} \right]^{1/2} \times (\text{design effect})^{1/2} \right]$$

The 95 percent confidence interval for the difference between two proportions P and R is:

$$P - R \pm \left[ 1.96 \times \left[ \frac{P(1-P) \times \text{design effect for P}}{P \text{ sample size} - 1} + \frac{R(1-R) \times \text{design effect for R}}{R \text{ sample size} - 1} \right]^{1/2} \right]$$

The 95 percent confidence interval for a mean M is:

$$M \pm \left[ 1.96 \times \text{standard deviation} \times \left[ \frac{\text{design effect}}{\text{sample size}} \right]^{1/2} \right]$$

The 95 percent confidence interval for the difference between two means L and M is:

$$L - M \pm \left[ 1.96 \times \left[ L \text{ std. dev.}^2 \times \frac{L \text{ design effect}}{L \text{ sample size}} + M \text{ std. dev.}^2 \times \frac{M \text{ design effect}}{M \text{ sample size}} \right]^{1/2} \right]$$

For a Chi squared test of independence you should divide the usual chi squared statistic by the design effect.

Table 1-8  
Design Effects for National and Regional Standard Errors

	<u>US</u>	<u>NE</u>	<u>MW</u>	<u>S</u>	<u>W</u>
Incomplete Kitchen, Plumbing or Bathroom	2.61	2.18	2.61	2.18	2.61
New Construction	2.30	2.58	2.58	1.88	2.30
Mobile Home, Individual Well	2.70	3.26	3.26	5.18	8.29
Other Topics, Depending Whether Cases Are:					
0 - 9% Rural	1.36	1.25	1.25	1.25	1.58
10 - 29% Rural (Metro Areas)	1.63	1.50	1.50	1.50	1.89
30 - 49% Rural (National Averages)	1.90	1.75	1.75	1.75	2.21
50 - 69% Rural	2.17	2.01	2.01	2.01	2.52
70 - 89% Rural (Non-Metro Areas)	2.45	2.26	2.26	2.26	2.87
90 - 100% Rural	2.72	2.51	2.51	2.51	3.15

Note: Design effect is the ratio of estimated variance in the AHS to variance in a simple random sample of the same size.

### 2.3 Formal Calculation of Variances

The confidence intervals in Sections 2.1 and 2.2 are approximately right, but actual variances depend a lot on individual questions. The Census Bureau uses detailed calculations to prepare the summary tables above, and you can use these calculations yourself if you wish. The following is a modification of what Census actually does on national AHS data.

This modification is necessary to reflect the information that is available in the AHS public use file. The calculation can be done weighting the cases with either WEIGHT or PWT. Use of WEIGHT will result in a very slight overestimate of variance, but the difference is negligible. Variance calculations for the MSA surveys are not presented here; the tables of variances shown in Appendix B of each published MSA report can be used.

The variance for an estimate is equal to the sum of the variance for the estimate from self-representing (SR) PSUs plus the variance for the estimate from non-self-representing (NSR) PSUs. The SR component reflects the effect of the sampling of clusters within the SR PSUs. The NSR component reflects the effects of the sampling of PSUs within the NSR strata as well as the sampling of clusters within the NSR PSUs.

### Self-Representing PSUs

The technique for the SR PSUs is to group these PSUs into 46 relatively homogeneous groupings, then divide the cases in each group in half at random, prepare the estimate in each half, square the difference of these two estimates, and add up these squared differences across all 46 groupings. The process is carried out ten times and the results are averaged to get the final estimate of variance in SR PSUs. The repetitions and the averaging are not strictly required. In effect they reduce the variance of the estimate of variance. The SR variance component of an estimate of characteristic X is calculated using the following formula:

$$\text{Var}(X')_{\text{SR}} = \frac{\sum_{r=1}^{10} \sum_{s=1}^{46} (X'_{rs1} - X'_{rs2})^2}{10}$$

where:  $X'$  is the estimate of characteristic X,

$r$  is a subscript identifying the half-sample replications used in this variance estimation. For AHS, these half-sample replications are formed by utilizing the panel numbers assigned to the AHS cases. Panel number can be found in the 4th digit (counting from the left) of the control number,

$s$  is the subscript identifying the groupings of socio-economically similar SR PSUs used in this variance estimation. The general class of SR PSUs can be distinguished by a code 1.0000 in AWT. Then the cases in each socio-economically similar grouping are identified by unique codes in NCLUS (codes are scattered between 1001 and 2060),

$X'_{rs1}$  is the estimate of characteristic X based on the AHS sample cases in the first half-sample of the  $r$ th replication in the  $s$ th group of PSUs, and

$X'_{rs2}$  is the estimate of characteristic X based on the AHS sample cases in the second half of the  $r$ th replication in the  $s$ th group of PSUs.

For AHS, the half-samples within each of the replications are defined as follows:

<u>Replication</u>	<u>Panel Numbers Included In First Half-Sample</u>	<u>Panel Numbers Included In Second Half-Sample</u>
1	1,2,3	4,5,6
2	1,2,4	3,5,6
3	1,2,5	3,4,6
4	1,2,6	3,4,5
5	2,3,4	1,5,6
6	2,3,5	1,4,6
7	2,3,6	1,4,5
8	1,3,4	2,5,6
9	1,3,5	2,4,6
10	1,3,6	2,4,5

#### Non-Self-Representing PSUs

The NSR variance component of an estimate of characteristic X is calculated using the following formula:

$$\text{VAR}(X')_{\text{NSR}} = \sum_{s=101}^{210} \left[ A_{s3} \frac{X'_{s1} + X'_{s2}}{2} - A_{s1} X'_{s3} \right]^2 + \frac{21}{4} \sum_{s=101}^{210} (A_{s3})^2 [X'_{s1} - X'_{s2}]^2$$

where: X' is the estimate of characteristic X,

s is a subscript identifying the pairs of strata used in the sample selection. For AHS, s goes from 101 to 210 and it can be identified by the third through fifth digits (counting from the right) of RCLUS.

s1,s2,s3--These are subscripts identifying the individual PSUs within the sth pair of strata. These subscripts can be calculated by analyzing the second digit, counting from the right, of RCLUS, in combination with AWT. The cases with "1" in this digit are in PSU s1. Other cases with the same value of s and the same value of AWT as PSU s1 are in PSU s2. Remaining cases with the same value of s but a different value of AWT are in PSU s3. Note that this calculation depends on there always being three PSUs in each pair of strata. In instances where the third PSU sampled from the pair of strata is identical to one of the other PSUs (possible, because it was chosen independently), some cases from the PSU that was selected twice are identified as being in the "third" PSU.

$X'_{s_0}$  is the estimate of characteristic X based on the AHS sample cases in PSU 0 of the sth NSR Random Cluster.

$X'_{s_1}$  is the estimate of characteristic X based on the AHS sample cases in PSU 1 of the sth NSR Random Cluster.

$X'_{s_2}$  is the estimate of the characteristic X based on the AHS sample cases in PSU 2 of the sth NSR Random Cluster.

$A_{s_0}$  is the value of AWT associated with AHS sample cases in PSU 0 of the sth NSR Random Cluster.

$A_{s_2}$  is the value of AWT associated with AHS sample cases in PSU 2 of the sth NSR Random Cluster.

### Special PSUs

Five cases on the 1981-83 files are outside the normal PSUs chosen for the AHS. These cases can be used for normal estimates, but must be ignored for variance calculations. They have codes of 9999 in NCLUS, 99999 in RCLUS and 999999 in AWT. All other cases derived from the business sample fall in normal AHS PSUs, so they will be included in the calculations described above.

## Chapter 2

### WEIGHTS

#### 1.0 WEIGHTS

Weights to prepare national or MSA estimates are provided on the AHS tapes and are used in preparing the numbers presented in the Census publications and custom analyses prepared by the AHSDP Project. These weights and the various adjustments used to compute the weights are discussed in detail below for the 1973 National Sample and MSA samples from 1974 through 1983. Since the Census Bureau had not finalized its definitions and computations of weights for the 1985 National Survey and upcoming MSA surveys, it was not possible to include the documentation of the new weights in this version of the Codebook. A section will be added to this Chapter and made available to users as soon as the documentation becomes available.

The variable WEIGHT is not simply the inverse of the probability of selection for each unit, but includes several adjustments, designed to adjust for random variation in the original selection of the NSR PSUs, to account for refusals and other missed interviews, and to make AHS estimates conform to Survey of Construction (SOC) estimates, Housing Vacancy Survey (HVS) estimates, and Current Population Survey (CPS) estimates. CPS estimates themselves are adjusted to independent estimates of total population, based on census counts, National Center for Health Statistics data on births and deaths, and Census Bureau estimates of net migration. These adjustments change each year, so the variable WEIGHT also changes.

The variable "pure weight," (PWT) is more appropriate than WEIGHT for longitudinal analyses. It is the inverse of the probability of selection and incorporates none of the adjustments described below. It changes only because of formal sample reductions. For example, the 7/97 reduction in 1977 increased the weight of remaining units by 97/90ths. Otherwise it is invariant over time.

#### 1.1 Adjustments

##### 1.1.A Non-Interview Adjustment

Type A non-interviews include refusals and other situations where data should have been but were not collected. The weights of these units are set to zero, and weights of responding units are correspondingly increased by the following ratio to represent the type A noninterviews:

$$\frac{\text{Interviewed units} + \text{Type A non-interviews}}{\text{Interviewed units}}$$

This approach assumes that non-responding units (about 5 percent of the total) would have responded like the others. This ratio is calculated by weighting each unit at the inverse of its probability of selection. It is done separately for each of the cells in Table 1-1, in each Census region. However, if there are less than 30 cases in a cell, or if the ratio in the cell would be 1.5 or more, the cell is combined with the cell having the closest

scale value, as shown in Table 1-1. Such combinations continue until both conditions are met.

Table 1-1  
NON-INTERVIEW ADJUSTMENT CELLS AND SCALE VALUES, NORTHEAST REGION  
(repeated for each region)

	MSA			Non-MSA	
	Central City of MSA	Balance Urban	Balance Rural	Urban	Rural
<b>Occupied</b>					
Permit Segments	1	3	4	101	103
<b>Area Segments</b>					
Mobile Homes	51	61	64	151	161
Non-Mobile Homes	21	31	34	121	131
<b>Address &amp; Other Segments</b>					
Mobile Homes	50	60	63	150	160
Non-Mobile Homes	20	30	33	120	130
<b>Vacant &amp; URE</b>					
Permit Segments	301	303	304	501	503
Area Segments	321	341	351	521	541
Address & Other Segments	320	340	350	520	540

### 1.1.B PSU Adjustment

This adjustment is used only in NSR PSUs. It takes into account the differences that existed at the time of the 1970 Census between the sampled NSR PSUs and all other NSR PSUs. This difference arises purely from the natural variability of samples, and is adjusted by multiplying the following fraction times the inverse of the probability of selection for each unit:

$$\frac{305}{\sum_{i=1} \frac{1970 \text{ Census count of housing units in } i\text{th NSR PSU in sample}}{\text{Probability of selection of } i\text{th NSR PSU}}}$$

It is done separately in each cell listed in Table 1-2. In 1983, the factors were recalculated using 1980 Census counts.

It might be thought that this ratio could be multiplied by the pure weight to yield an adjusted weight that would be invariant over time and would be useful for longitudinal analysis. However, the appropriate ratio for a

case depends on its tenure, which is not invariant, so the adjusted weight would not be invariant and would not be useful for longitudinal analysis.

Table 1-2  
PSU ADJUSTMENT CELLS

	Region			
	Northeast	North Central (Midwest)	South	West
<b>Occupied HUs</b>				
MSAs				
Central City:	Owner			
	Renter			
Balance Urban:	Owner			
	Renter			
Balance Rural:	Owner			
	Renter			
Non-MSAs				
Urban:	Owner			
	Renter			
Rural:	Owner			
	Renter			
<b>Vacant HUs (including UREs)</b>				
MSAs				
Central City				
Balance				
Non-MSAs				
Urban				
Rural				

1.1.C New Construction Adjustment

This adjustment is used first for units where the value of BUILT is April 1, 1970 or later. It should be noted that units derived from the sample of building permits are forced to have a date of April 1, 1970 or later. If they have an earlier date, it is changed to match the date when the current reference person moved in, unless that date is also before April 1, 1970, in which case both are arbitrarily changed to January 1974. After these edits, the weights for all units built after April 1, 1970, whether from permit samples or area samples, are adjusted by the following ratio:

$$\frac{\text{Survey of Construction estimates of units built 4/1/70 or later}}{\text{AHS estimate of units built 4/1/70 or later}}$$

This ratio is calculated using the inverse of the probability of selection of each unit, adjusted by the non-interview adjustment and the PSU adjustment.

Note that the denominator includes units in the current AHS sample and also cases dropped from the sample, because of demolitions, mergers, etc., as long as they were built April 1, 1970 or later. The SOC data used are total construction as of the end of the interviewing period. The ratio is calculated separately in each of the cells in Table 1-3.

Table 1-3

NEW CONSTRUCTION ADJUSTMENT CELLS

Date Built	Non-Mobile Homes	
	1 Unit	2+ Units
April 1970 - October 1973		
November 1973 - October 1974		
November 1974 - December 1975		
January 1976 - December 1976		
January 1977 - January 1978		
February 1978 - January 1979		
February 1979 - December 1979		
January 1980 - December 1980		
January 1981 - December 1981		

The above adjustment makes AHS estimates of total cumulative construction match SOC estimates. The occupied new construction units in the AHS are then counted, using these new adjusted weights. The resulting estimate of occupied new construction is subtracted from the Current Population Survey (CPS) estimate of total occupied units, to produce an estimate of occupied old units. The following ratio is then calculated:

$$\frac{\text{Estimate of occupied old units}}{\text{AHS estimate of occupied units built before 4/1/70}}$$

This ratio is calculated using weights as adjusted by all previous calculations. It is done for one cell consisting of all occupied units. In 1983 the denominator of the ratio was changed to occupied units built before 4/1/80.

The result of this procedure is that if SOC misses some newly built units (which is possible in any survey), but CPS picks them up (which is possible because CPS totals are forced to match control totals based on vital statistics registrations and migrations), then AHS considers these extra households to be living in old construction, since new construction is matched to SOC, while total units are matched to CPS.

The adjustment process so far makes total occupied units match CPS counts, but does not necessarily make types of units match. That is done by the occupied units adjustment explained below.

#### 1.1.D Vacant and URE Units Adjustment

This adjustment is used only for vacant and URE units. The effect is to match Housing Vacancy Survey (HVS) data on the percent distribution of types of vacancies while preserving AHS data on the total number of vacancies. The weights resulting from the previous steps are adjusted by the following ratio:

$$\frac{\frac{\text{HVS estimate of vacant and URE units in a cell}}{\text{HVS estimate of vacant and URE units in all cells}}}{\frac{\text{AHS estimate of vacant and URE units in the cell}}{\text{AHS estimate of vacant and URE units in all cells}}}$$

This ratio is calculated using weights adjusted by all the previous calculations. It is calculated separately in each of the cells in Table 1-4. However, if there are less than 50 cases in a cell, or if the ratio for the cell would be 2.0 or greater or 0.2 or less, the cell is combined with the cell having the closest scale value, as shown in the table. Such combinations continue until both conditions are met. The HVS data used are an average of the third and fourth quarters of the calendar year.

Table 1-4

#### VACANT AND URE UNITS ADJUSTMENT CELLS & SCALE VALUES

---

Year-round Vacant + UREs	
For Rent	900
For Sale Only	901
Other	903
Seasonal and Migratory Vacant + UREs	(This cell should not be collapsed with any other cell)

---

#### 1.1.E Occupied Units Adjustment

This adjustment is used only for occupied units. The weights resulting from the previous steps are adjusted by the following ratio:

$$\frac{\text{Estimate of Occupied Units Based on Current Population Survey Data}}{\text{AHS estimate of occupied units}}$$

This ratio is calculated using weights adjusted by all the previous calculations. It is calculated separately in each of the cells in Table 1-5. However, cells can be combined as described for the Vacant and URE Units Adjustment, if the conditions mentioned there are not met. The CPS data used are estimated for October, being estimated by a regression on 35 months of CPS data, ending six months after the survey.

Table 1-5

## OCCUPIED UNITS ADJUSTMENT CELLS &amp; SCALE VALUES

		Inside MSAs		
		In Central Cities	Not In Central Cities	Outside MSAs
<b>Owner-Occupied</b>				
White & Other:	Male	10	40	90
	Female	20	50	100
Black:	Male	210	240	290
	Female	220	250	300
<b>Renter-Occupied</b>				
White & Other:	Male	510	540	590
	Female	520	550	600
Black:	Male	710	740	790
	Female	720	750	800

1.2 Iteration

After all the above adjustments are done, the New Construction Adjustment, the Vacant and URE Units Adjustment, and the Occupied Units Adjustment are repeated, using the same numerators as before, but using denominators recalculated with weights adjusted by the results of the first iteration. The end result of this process is the weight factor, WEIGHT.

1.3 Journey to Work Supplement

The process above produces a household weight. The composition of households in the AHS sample differs very slightly from the CPS sample, due to normal sampling variability and perhaps procedural differences. Therefore, analysis of workers in the AHS Journey to Work Supplement might differ from analysis of workers in CPS. Another step of ratio estimation was therefore used to make AHS population characteristics match CPS population characteristics. The ratio was multiplied by the household weight to obtain a personal weight, which is stored for each worker as WWT1-8. For most purposes, and certainly for any research on households, these individual weights can be ignored, but they do produce estimates of employed workers more similar to CPS estimates.

1.4 1980 Census Adjustments

The weights of the national AHS are not directly benchmarked to the 1970 or 1980 Census. They are benchmarked to CPS and HVS which in turn were benchmarked to the 1970 Census until 1980, when they were adjusted to match the 1980 Census. The AHS national data from 1973-1980 are ultimately based on the 1970 Census, and from 1981 on are based on the 1980 Census. This introduces a discontinuity in time series. The discontinuity was extensively discussed in U.S. Bureau of the Census, Current Population Reports, Series P-60, No. 127,

Money Income and Poverty Status of Families and Persons in the United States: 1980. The publication provides data comparing the old 1970 base and the 1980 base. In order for users of AHS tapes to test the effect of the discontinuity, the variable OLDWT is present on the 1981 National file. It is adjusted to the old series of CPS and HVS estimates, those based on the 1970 Census, and thus is comparable with WEIGHT in earlier years. Starting in the 1981 national core file, the variable WEIGHT is adjusted to the new CPS and HVS estimates, based on the 1980 Census. None of these considerations applies to PWT, which remains the inverse of the probability of selection and is most appropriate for longitudinal analysis.

### 1.5 Rural Weights

All of these adjustments are calculated in exactly the same way for rural and urban units, the only difference being that the initial probability of selection, as noted above, is twice as high for rural units, so their weights end up half as much as the weights of urban units.

On the public use tapes, as discussed in the section on geographic codes, rural units are normally identified as rural, and the interested researcher can verify that their weights are half as much as for urban units.

In the 125 MSAs identified on the public use tapes (in the variable "MSA"), rural-urban codes are suppressed to preserve confidentiality of families in the small rural portions of these MSAs. If the weights had been left alone, it would have been possible to identify rural units by their small weights. On the other hand, if the weights had been doubled, then any results in these MSAs would have been over-estimated. Therefore, half of the rural units in these 125 MSAs were deleted from the basic file, and the weights of the other half of the rural units were doubled. The interested researcher can verify that no low-weighted units appear in these MSAs.

The half of the rural units in these MSAs that were initially deleted were also included on the data tapes and can be identified with a special variable, RURREC (they have a code 2 in RURREC, all other cases have code 1). In order still to protect the confidentiality of families in rural areas of these 125 MSAs, the MSA code was suppressed. Therefore, the researcher can be sure that any cases with 2 in RURREC are rural, and are somewhere in the 125 MSAs, but will not know which MSA. Since this is half the original sample of rural cases in the 125 MSAs, their weights have been doubled to provide an estimate of these rural areas. The interested researcher can use these RURREC=2 cases for estimates of rural portions of the 125 MSAs, or can combine them with other rural cases, to obtain estimates for all rural areas in the country.

### 2.0 MSA SURVEYS

Weighting for the MSA surveys is similar to that described for the national surveys. There are five adjustments in WEIGHT: the non-interview adjustment, a special stratification adjustment, a new construction adjustment, a special Houston adjustment, and a Decennial Census adjustment.

The non-interview adjustment (see Section 1.1.A) is calculated separately for each cell listed in Table 1-6. However, if there are less than 30 cases

Table 1-6  
Noninterview Adjustment Cells and Scale Values by MSA

Income in 1970	Units Occupied in 1970 in Address Segments											
	Central City 1											
	Race of Head in 1970											
	Nonblack						Black					
	Owner in 1970			Renter in 1970			Owner in 1970			Renter in 1970		
Family Size in 1970			Family Size in 1970			Family Size in 1970			Family Size in 1970			
1	2	3+	1	2	3+	1	2	3+	1	2	3+	
Under \$3,000	1	4	8	61	64	68	201	204	208	261	264	268
\$3,000-\$9,999	2	5	9	62	65	69	202	205	209	262	265	269
\$10,000-\$14,999	18	23	29	78	83	89	218	223	229	278	283	289
\$15,000 and over	19	24	30	79	84	90	219	224	230	279	284	290

Income in 1970	Units Occupied in 1970 in Address Segments											
	Central City 2											
	Race of Head in 1970											
	Nonblack						Black					
	Owner in 1970			Renter in 1970			Owner in 1970			Renter in 1970		
Family Size in 1970			Family Size in 1970			Family Size in 1970			Family Size in 1970			
1	2	3+	1	2	3+	1	2	3+	1	2	3+	
Under \$3,000	501	504	508	561	564	568	701	704	708	761	764	768
\$3,000-\$9,999	502	505	509	562	565	569	702	705	709	762	765	769
\$10,000-\$14,999	518	523	529	578	583	589	718	723	729	778	783	789
\$15,000 and over	519	524	530	579	584	590	719	724	730	779	784	790

Income in 1970	Units Occupied in 1970 in Address Segments											
	Central City 3											
	Race of Head in 1970											
	Nonblack						Black					
	Owner in 1970			Renter in 1970			Owner in 1970			Renter in 1970		
Family Size in 1970			Family Size in 1970			Family Size in 1970			Family Size in 1970			
1	2	3+	1	2	3+	1	2	3+	1	2	3+	
Under \$3,000	1501	1504	1508	1561	1564	1566	1701	1704	1708	1761	1764	1768
\$3,000-\$9,999	1502	1505	1509	1562	1565	1569	1702	1705	1709	1762	1765	1769
\$10,000-\$14,999	1518	1523	1529	1578	1583	1589	1718	1723	1729	1778	1783	1789
\$15,000 and over	1519	1524	1530	1579	1584	1590	1719	1724	1730	1779	1784	1790

	Vacant Units and Units in Other Segments Not Included Above		
	Central City 1	Central City 2	Balance of MSA
	Units vacant in 1970 in address segments	105	605
Units in special places in address segments	53	553	1533
New construction in permit segments and coverage improvement samples	96	596	1596
Mobile homes in area segments and coverage improvement samples	98	598	1598
Other units	99	599	1599

in a cell, or if the ratio in the cell would be 1.5 or more, the cell is combined with the cell having the closest scale value, as shown in Table 1-6.

The stratification adjustment is calculated separately for each cell listed in Table 1-7. It is calculated only for units taken from the 1970 Census long form questionnaires that are not group quarters and special places, i.e., for old housing units in permit-issuing areas. The weights resulting from the non-interview adjustment are adjusted by the following ratio:

$$\frac{\text{1970 Census count of housing units in permit-issuing areas}}{\text{AHS estimate of 1970 housing units in permit-issuing areas}}$$

This ratio is calculated using the inverse of the probability of selection of each unit, adjusted by the non-interview adjustment. Note that the denominator includes units in the current AHS sample and also cases dropped from the sample, because of demolitions, mergers, etc. All units are classified by their 1970 characteristics, not the current characteristics. The ratio is calculated separately in each of the cells shown in Table 1-7. If there are less than 20 cases in a cell or if the ratio in a cell would be 2.0 or greater, or 0.2 or less, the cell is combined with the cell having the closest scale value.

The effect of this adjustment procedure in MSAs is to reduce somewhat the variance due to variation in sampling rates for different strata in the address-listing areas. In principle there should be no difference in sampling rates for different strata. However, before the AHS sample selection in each MSA, units already selected for other Census Bureau surveys were deleted from the lists. Thus, some variation in effective sampling rates was introduced during the AHS sample selection process.

The new construction adjustment is calculated only in the 1979-83 surveys, and only for sample units resulting from building permits issued since the previous survey in the MSA. It is used in 35 of 60 MSAs. Where this adjustment was used, its effect is to match AHS estimates to estimates from the Survey of Construction (SOC) on the proportion of new construction done in central cities and suburbs, while preserving AHS estimates of total new construction. The weights resulting from the previous steps are adjusted by the following ratio:

$$\frac{\frac{\text{SOC estimate of permits issued in the cell since five months from end of enumeration}}{\text{SOC estimate of permits issued in the MSA since five months from end of enumeration}}}{\frac{\text{AHS estimate of permits issued in the cell since five months from end of enumeration}}{\text{AHS estimate of permits issued in the MSA since five months from end of enumeration}}}$$

Table 1-7  
Stratification Adjustment Cells and Scale Values by MSA

Income in 1970	Units Occupied in 1970 in Address Segments															
	Central City 1															
	Race of Head in 1970															
	Nonblack								Black							
	Owner in 1970				Renter in 1970				Owner in 1970				Renter in 1970			
Family Size in 1970				Family Size in 1970				Family Size in 1970				Family Size in 1970				
1	2	3-4	5+	1	2	3-4	5+	1	2	3-4	5+	1	2	3-4	5+	
Under \$3,000	1	4	9	15	30	34	39	45	401	404	409	415	430	434	439	445
\$3,000-\$9,999	2	5	10	16	31	35	40	46	402	405	410	416	431	435	440	446
\$10,000-\$14,999			70				100				470				500	
\$15,000 and over	80	81	71	76	110	111	101	106	480	481	471	476	510	511	501	506

Income in 1970	Units Occupied in 1970 in Address Segments															
	Central City 2															
	Race of Head in 1970															
	Nonblack								Black							
	Owner in 1970				Renter in 1970				Owner in 1970				Renter in 1970			
Family Size in 1970				Family Size in 1970				Family Size in 1970				Family Size in 1970				
1	2	3-4	5+	1	2	3-4	5+	1	2	3-4	5+	1	2	3-4	5+	
Under \$3,000	1001	1004	1009	1015	1030	1034	1039	1045	1401	1404	1409	1415	1430	1434	1439	1445
\$3,000-\$9,999	1002	1005	1010	1016	1031	1035	1040	1046	1402	1405	1410	1416	1431	1435	1440	1446
\$10,000-\$14,999			1070				1100				1470				1500	
\$15,000 and over	1080	1081	1071	1076	1110	1111	1101	1106	1480	1481	1471	1476	1510	1511	1501	1506

Income in 1970	Units Occupied in 1970 in Address Segments															
	Balance															
	Race of Head in 1970															
	Nonblack								Black							
	Owner in 1970				Renter in 1970				Owner in 1970				Renter in 1970			
Family Size in 1970				Family Size in 1970				Family Size in 1970				Family Size in 1970				
1	2	3-4	5+	1	2	3-4	5+	1	2	3-4	5+	1	2	3-4	5+	
Under \$3,000	3001	3004	3009	3015	3030	3034	3039	3045	3401	3404	3409	3415	3430	3434	3439	3445
\$3,000-\$9,999	3002	3005	3010	3016	3031	3035	3040	3046	3402	3405	3410	3416	3431	3435	3440	3446
\$10,000-\$14,999			3070				3100				3470				3500	
\$15,000 and over	3080	3081	3071	3076	3110	3111	3101	3106	3480	3481	3471	3476	3510	3511	3501	3506

Rent or Value in 1970	Vacant Units and Units in Other Segments Not Included Above		
	Central City 1	Central City 2	Balance of MSA
Rent under \$80 or value under \$15,000	199	1199	3119
Rent of \$80-\$119 or value of \$15,000-\$24,999	201	1201	3201
Rent of \$120 and over or value of \$25,000 and over	202	1202	3202
Remaining vacants	205	1205	3205

This ratio is calculated weighting each AHS sample case by the inverse of its probability of selection. It is calculated separately in only two cells in each MSA: central city(ies) and balance of MSA.

The special Houston adjustment is calculated only in the 1979 survey, and only for housing units built since April 1, 1970 in the Houston MSA, outside the central city. The effect is to obtain a better estimate of the great growth the Houston area experienced during the seventies in non-permit-issuing areas. The weights resulting from the previous steps are adjusted by the following ratio:

$$\frac{\text{AHS estimate} + \text{Census Bureau estimate of the undercount}}{\text{AHS estimate}}$$

This ratio is calculated using the weights adjusted by the non-interview adjustment and the stratification adjustment. It is calculated separately in four cells:

1. Conventional housing units (non-mobile home or trailer) outside the central city, which were built between the 1970 census and the 1976 survey.
2. Mobile homes and trailers outside the central city with a model year between the 1970 census and 1976 survey.
3. Conventional housing units outside the central city built between the 1976 and 1979 surveys.
4. Mobile homes and trailers outside the central city with a model year between the 1976 and 1979 surveys.

A total housing unit ratio estimation was done for the 1974, 1975, 1977, and 1979-1983 surveys for some MSAs. For years other than 1979 and 1980, the independent estimates were based on census counts plus estimates of change. In 1979 and 1980 the independent estimates were based solely on 1970 and 1980 census counts:

$$\begin{array}{l} \text{in 1979: } \frac{\frac{1980 \text{ Census count} \times 19 + 1970 \text{ Census count}}{20}}{\text{AHS estimate}} \\ \text{in 1980: } \frac{\frac{1980 \text{ Census count} \times 21 - 1970 \text{ Census count}}{20}}{\text{AHS estimate}} \end{array}$$

This ratio is calculated using weights adjusted by all the previous steps. It is calculated separately for two cells in each MSA: central city(ies) and balance of MSA. At the time this is written, it has not been decided how 1981 and later MSA surveys will be adjusted to 1980 Census counts. The above extrapolation technique may be used, or some other Census Bureau estimate of the total number of housing units may be used.

The weight resulting from all these steps is stored in the variable WEIGHT. The reader will note that up through the 1978 survey, only two adjustments are used: the non-interview adjustment and the stratification adjustment. All the other adjustments began in 1979. For comparability, a special variable called "OLDWT" is available on the 1979 and later surveys, including only the non-interview adjustment and the stratification adjustment.

## Chapter 3

### SAMPLING DESIGN

The original samples for the National and Metropolitan Statistical Area (MSA) Surveys were drawn from the 1970 Census. The National sample was used from 1973 to 1983. In 1985, the National Survey was administered to a completely new sample drawn from the 1980 Census. This sample will be reinterviewed every two years until 1993. The procedures used to draw the three basic samples--the original National Sample, the new National sample, and the MSA samples--are similar, although differences are important enough to be documented. Sections 1.0 and 2.0 discuss in detail the selection of the original National Survey and the changes which occurred over the years. Section 3.0 presents the sample design for the new National Survey with emphasis on the differences between the two National samples. Section 4.0 describes the MSA samples.

#### 1.0 THE 1973 NATIONAL SAMPLE

##### 1.1 Selection of Sample Areas

The United States was divided into areas made up of counties and independent cities referred to as primary sampling units (PSUs). These PSUs were then grouped into 376 strata, 156 of which consisted of only 1 PSU each, which were therefore in the sample with certainty. These 156 strata were mostly the larger MSAs and were called self-representing (SR), since the sample from each area represented just that PSU. Each of the other 220 strata consisted of a group of PSUs 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 PSUs in the stratum as well as the sample PSU.

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 PSUs. (This is called Sampling Plan A.) In addition, the NSR strata were grouped into 110 pairs and one stratum was picked at random from each pair. From this stratum, an additional PSU was selected independently of the other PSU selected from this stratum (this is called Sampling Plan B.) Since the two PSUs were independently selected, it was possible for the same PSU to be selected twice. This occurred in 25 instances, so there were only an additional 85 NSR sample PSUs, thus giving a grand total of 461 PSUs.

Sampling Plan A and Sampling Plan B are both representative of the NSR areas of the country. Therefore, if one added up the selected PSUs, weighting each by the inverse of its probability of selection, one would double-count the NSR areas. This result is avoided by weighting all data from Plan A by two-thirds, and data from Plan B by one-third, so their total adds up to a single count of the NSR areas.

## 1.2 Sampling Rates Within Sample PSUs

The national average sampling rate was determined by dividing the number of housing units in the country by the original desired sample size. This national average sampling rate was 1 in 1,366. In each of the 461 PSUs, this rate was adjusted so that the overall probability of selection for each sample housing unit was the same. For example, if the probability of selecting an NSR PSU was 1 in 10, then the within-PSU sampling rate would be 1 in 136.6. In the 25 PSUs which were selected twice, under Sampling Plans A and B, the appropriate within-PSU sampling rate was calculated twice, once under each sampling plan, and the rates were added to obtain an overall within-PSU sampling rate.

In order to save interviewer travel costs, it was decided to sample units in clusters, so that instead of counting off 1,366 units and then taking one unit into the sample, every 2,732 units were counted off (this is the national average; as just noted, the sampling rate and hence the count-off rate varied in each PSU) and then 4 units were taken into the sample. In some areas, half the clusters of four units were surveyed, with the other clusters held in reserve. (This was the pattern followed in so-called "area segments" which are defined below.) In other areas, two of the four units in each cluster were surveyed, with the other half of each cluster held in reserve. (This was the pattern for all sample cases other than "area segments.")

Starting in 1974, all of the units in rural clusters were surveyed, (i.e., the reserve sample was activated in rural areas.) This resulted in a probability of selection in urban areas of 1 in 1,366 and in rural areas of 1 in 783. The purpose of the double-sampling in rural areas was to obtain more accurate data on rural housing, to compare with urban housing.

## 1.3 Use of Enumeration Districts

Each of the 461 PSUs was divided into enumeration districts (EDs) of type A, B or C. Each ED within a sample PSU could be classified into one of the following four ED geographic strata: (1) central city, (2) urbanized area outside of the central city, (3) urban place outside of urbanized areas, and (4) rural. For each ED the following number was calculated: the sum of the 1970 count of housing units, plus one-third of the 1970 count of persons in group quarters divided by four. This number was the ED measure of size which was used in the ED sample selection. Enumeration districts were stratified according to ED geographical code, place size code, and ED code. Within each ED geographical category, the ED measures of size were cumulated. For each ED in the established ordering of EDs within an ED geographic stratum, there was an associated cumulative total. For the  $i^{\text{th}}$  ED in the stratum ordering the cumulative total, denoted  $T_i$ , was

$$\sum_{k=1}^i M_k$$

where  $M_k$  is the measure of size for the  $k^{\text{th}}$  ED.

A cumulative total of the measure of size was computed for each ED geographic stratum and divided by  $s$ , the expected sample size of EDs for the

stratum, to obtain a systematic probability proportional to size sampling interval, TE. A random start R was designated and the following set of numbers was determined:

$$R + TE, R + 2 TE, \dots, R + sTE.$$

Under this selection procedure the ED sample size, s, was the greatest integer such that the quantity  $R + sTE$  did not exceed the cumulative total for the last ED in the ED geographic stratum. The  $i^{\text{th}}$  ED was included in the ED sample if

$$T_{i-1} < R + m TE \leq T_i$$

for one of the values of m in the set  $\{0,1,2,\dots,s\}$ .

The selected EDs were then divided into address EDs and area EDs. An ED was classified as address if 90 percent or more of the 1970 census addresses recorded in the Census ED Address Register had a complete house number and Street name, and furthermore the ED was geographically located in a jurisdiction issuing permits for new construction. An ED could have been classified as an area ED either because it was not within a jurisdiction issuing permits for new construction and/or more than 10 percent of the addresses in the census address registers did not have a complete house number and Street name. The sample selection procedures for address EDs are discussed in Section 1.3.A while the procedures for selecting the sample in area EDs are discussed in Section 1.3.B.

#### 1.3.A List or Address EDs

Enumeration districts within jurisdictions which issued building permits for new construction and which had a proportion of complete addresses of 90 percent or more were classified as list or address EDs. Addresses recorded in the 1970 Census ED Address Register were then used to form clusters having an expected four units. Adjacent address listings on the ED Address Register corresponded to housing units which were physically adjacent, so that the clusters formed would be compact clusters. Addresses having all their units in a single cluster were designated TA addresses while all other addresses were defined as NTA addresses.

After clusters in sample address EDs were formed using all addresses within the ED address register, sample clusters were determined. For TA addresses, where all units for an address fall in the same cluster, the interviewer listed and interviewed all units found at the TA address. For an NTA address, only a proportion of units at the address was part of the sample cluster. The AHS interviewer had to list all units found at the address using established listing procedures, and units located on listing lines which had AHS sample unit identifiers predesignated in the regional office. Suppose that the cluster formation had formed the following two clusters from units at 103 Maple Street where a two-unit structure is located and 106 Maple Street where a six-unit structure is located:

103 Maple	Unit 1	
	<u>Unit 2</u>	Cluster A
	Unit 1	
	Unit 2	
-----		
	Unit 3	
	Unit 4	Cluster B
106 Maple	Unit 5	
	Unit 6	

The address 103 Maple was a TA address while 106 Maple was a NTA address. If Cluster A was determined to be a sample cluster, then an interviewer would use the listing sheet for 106 Maple Street to transcribe all units found at that address. There would have been at least two listing lines having AHS sample designation codes, and the units falling on those listing lines would have been part of sample Cluster A.

Two of the housing units within a sample cluster were assigned to the primary sample while the remaining two units were assigned to the reserve sample.

Each mobile home park is treated as one "structure." The list is treated much as described for the list of building permits: each building or mobile home park is listed, with the number of units found at the 1970 Census; the count-off rate is applied, and clusters are selected. These clusters in effect determine a sampling rate within the building or park, e.g., 2 units may be selected out of a 20-unit building (10 percent sampling within the building) or 1 unit out of a 1-unit building (100 percent). In rural areas the entire cluster of 4 is included in the sample, while in urban areas two of the four units in each cluster are held in reserve. The interviewer who goes to the building or park makes a list of all units actually there, and samples them at the appropriate sampling rate. In later surveys, any additional units in the building or park are added at the bottom of the list, and the sampling rate continues to apply to them, systematically. In fact, a preprinted listing sheet, with certain lines earmarked for the AHS sample, is used to record and sample additional units.

### 1.3.B Area EDs

EDs where permits are not required for new construction and EDs where permits are required for new construction but less than 90 percent of the addresses within the ED are complete, use "area samples." These are primarily rural, but include some large cities, such as Houston. The boundaries of each such ED were subdivided into small land areas having recognizable features such as county roads, rivers, railroad tracks, etc., as boundaries. These small land areas are called "area segments". Wherever possible, an area segment was formed so that it contained between 7 and 20 housing units which were enumerated in the 1970 Census. The housing unit count within each area segment within a sample ED was converted to a cluster count by dividing the housing unit count of the area segment by four and rounding the result. Within each area segment cluster identifiers were listed. From the total ED list of cluster identifiers, sample clusters were determined and every other cluster that was drawn into sample was designated for the reserve sample. Area segments containing sample clusters were the sample area segments. The

sample area segments that had to be listed by field enumerators as sample clusters at this stage were undefined for the AHS interviewers. A few months before interviewing started, interviewers went to the defined area and listed every unit there. When field enumerators listed sample area segments within permit-issuing area EDs, they determined for each housing unit within the area segment if the unit was built before or after April 1, 1970.

Housing units built after April 1, 1970 were ineligible for the sampling of the primary and reserve noncompact clusters. These housing units built after April 1, 1970, would have a chance of being selected in the building permit frame. Sampling of new construction in this way in permit issuing area EDs led to a more dispersed and heterogeneous sample. If the area, according to the 1970 Census, was expected to have four units, then all units actually found were interviewed. If the area was expected to have more than four units, e.g., 20, then the sampling rate was determined based on the number expected, e.g., 4 out of 20, and was applied to all units found. For example, if 30 were found,  $4/20$  of 30, or 6, would be interviewed. This sampling rate assured that all units, even those missed by the 1970 Census, had a predetermined probability of selection.

The only exception was when a very large number of units was found, as in a new subdivision or a large, new apartment building, in which case the area was subsampled and the new probability of selection was reported back, so that weights could be adjusted to make the subsample represent all of the original sample. The list is updated by interviewers before every survey, and the sampling rate is applied by Census Bureau regional office staff to the additional units also, so that new units are included in the survey at the same rate as old units.

#### 1.4 Building Permit Sampling

Housing units built after April 1, 1970, were classified as new construction housing units in the AHS, and new construction housing units located in address EDs and permit-issuing area EDs would be represented in the building permit frame. The building permit sample selection procedures parallel the procedures for the address EDs.

Analogous to the sampling of enumeration districts within a sample PSU was the monthly sampling of building permit offices. For each permit office, the total number of housing units associated with permits issued in the period April 1, 1970 to five months prior to the first AHS enumeration was obtained. This was the building permit office's measure of size for each month. Building permit offices within a sample PSU were then grouped into the following three geographic strata: (1) central city of MSA, (2) balance of an MSA, and (3) non MSA. After the stratification of building permit offices, permit offices were sampled monthly using systematic probability proportional to size sampling.

Building permits in sample permit offices had to be listed by field enumerators. From the permit office listing sheets, new construction units were assigned to map grid coordinates which grouped together new construction units located within a small land area within the jurisdiction of the permit office. Clusters of four new construction units were formed from units within each set of map coordinates. Clusters were then systematically sampled from the total permit office cluster universe.

Normally, a permit represents one unit, so this would be a cluster of 4 permits, but in multi-family construction it might be a cluster of the 12th-15th units in a planned 20-unit structure, under the same building permit. Originally, two units of each cluster were held in reserve, but since the reserve sample has been activated in rural areas, all units of every cluster are used for the sample in rural areas. In urban areas, two units from each cluster are kept in the sample with the other two still held in reserve. Then, each permit was followed up, and if the unit had not been built by April 1, 1970, but had been built by the time of the interview, it was included in the sample. Where the permit was for a multi-unit building, the count-off process as already discussed took this into account, and indicated what fraction of the units was to be sampled.

When interviewing began, all units in the building were listed and the appropriate fraction was sampled. The count-off process indicated what fraction of the units in the structure was to be sampled. For example, if the count-off process indicated 4 units were to be taken from a 20-unit structure, then 4/20 of the units actually found in the structure were sampled. (In a sense, each building permit was treated like an area segment as described earlier.) The permit sampling is repeated every year, so new units are continuously sampled. Since permits are usually not required for mobile homes, new mobile homes are not sampled by these building permits, but are covered by the area sampling, like all other kinds of units other than new construction.

The cut-off of building permits 5 months before the survey means that some units are missed each year, because they are built before the survey, with permits issued after the cut-off. It is estimated that the 1980 National AHS sample missed about 1.4 percent (i.e., about 251,000 units) of conventional housing units built after April 1, 1970 and before September 1980 because the permits for these units were issued less than 5 months in advance of the survey. These missed units would be even more serious as a percentage of 1980 construction. The new construction adjustment described in Section 1.1.C of Chapter 3 below is designed to reduce the effect of this deficiency, although some bias probably still exists. Review of the adjustment indicates that there has been a consistent overcompensation for this deficiency in every year since 1975 by adjusting to counts of new construction for the end of the interview period, which has been December or January, instead of October. This overcompensation may inflate the new construction counts by 100,000 to 300,000 units. Researchers needing precise estimates of new construction should refer to the Census Bureau's monthly "Survey of Construction" (SOC). The AHS is designed to show the characteristics of people who live in new construction, which SOC does not show, but is not designed to replace basic statistics provided by SOC.

## 1.5 Coverage of Units in Different Types of EDs

In area EDs of Types A and B, the area sampling methods successfully reach all kinds of housing, but they are very expensive because the job of listing all housing units within a geographic area is time-consuming for interviewers. Therefore, whenever possible, the Census Bureau uses address lists as described in Section 1.3.A above. Address EDs cover about 75 percent of housing in the country. (They only cover about 60 percent of the sample, because these EDs are largely urban, which are sampled half as much as rural EDs.) The weakness of these address lists is that they do not cover units missed by the 1970 Census, structures that were non-residential in 1970 but now have housing units in them, or mobile homes placed into a new park or onto an individual site after the 1970 Census.

Furthermore, the permit sampling, which is used in address as well as permit-issuing area EDs, can miss certain new construction units. Special efforts have been made to fill these gaps:

CEN-SUP--This was an evaluation study to estimate units missed by the 1970 Census, which identified a sample of such units. This sample was divided among the various current surveys of the Census Bureau, including the AHS, starting with the 1973 and 1974 surveys. The overall probability of selection for these units was quite variable but averaged about 1 in 1,900. Unfortunately, this evaluation study did not cover mobile home parks.

New construction from old permits--A sample of new construction units whose permits were issued before January 1970 was selected as follows. 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. These units were then sampled so that the overall probability of selection was about 1 in 1,320. They were added to the AHS starting with the 1976 survey.

Mobile home parks--A sample of mobile homes placed in parks missed by the Census or established after the Census was selected as follows. 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 EDs where area sampling methods are used. Unfortunately, however, this canvassing operation only represented about 92 percent of all address EDs. The parks were divided into clusters of four sites. These clusters were sampled so that the overall probability of selection of a unit was about 1 in 1,366. These were added to the AHS sample starting in 1976. The canvassing operation was repeated in 1980, and the resulting mobile homes were added to the AHS in 1981.

Residual problems--The efforts described above leave a residual of hard-to-find units. The following list summarizes the units covered by all these methods, and the other types of units where a special residual effort was needed in address EDs:

1. Units in structures or mobile home parks covered in the 1970 Census (address lists)

2. Group quarters covered in the 1970 Census and converted to housing units (address lists)
3. Units erroneously missed by the 1970 Census (CEN-SUP units)
4. Building permits issued from January 1970 on (building permit sample)
5. Building permits issued up through December 1969 (SOC sample)
6. Mobile homes outside parks and vacant at the time of the 1970 Census (residual effort)
7. Mobile homes in parks missed by the 1970 Census or established after the Census (mobile home park sample)
8. Mobile homes placed outside parks after the 1970 Census (residual effort)
9. Units in structures that were totally non-residential at the time of the 1970 Census and were later converted to residential use (residual effort)
10. Houses moved onto a new site after 1970 Census (residual effort)

The residual effort was done in three stages. First, a subsample of the regular AHS sample units from the Census address list was selected. Second, succeeding structures that had been eligible to be selected from the Census address list were then listed until eight such additional structures (including mobile home parks) were found. Third, any structure between these nine was assessed. If it was of a type not covered by any of the other coverage improvement efforts, it was added to the sample and all or a subsample of units in it were interviewed, starting in 1976. The overall probability of selection for these units was highly variable, but averaged about 1 in 2,400. This procedure was not considered very efficient for finding non-residential conversions (which might be primarily in business districts), since the listing procedure started from a residential unit.

#### 1.6 Business Sample

Non-residential conversions were surveyed again in 1980. Interviewers went to a sampling frame of businesses, originally prepared for a Department of Justice survey. Any structures which did not have housing units in them in the 1970 Census, but did by 1980, were considered non-residential conversions, and were added to the AHS sample in 1981.

#### 2.0 FATE OF SAMPLE UNITS OVER TIME

The previous discussion describes how units join the AHS sample. They remain in it every year as long as possible. Even a unit which is converted to commercial purposes, or is boarded up and uninhabitable, is kept on the list as a Type B non-interview (a "recoverable loss"). It is revisited each survey in case it has been fixed up for residential use again. It drops out

when it becomes a Type C non-interview ("unrecoverable loss," i.e., when it is demolished, totally burned down, etc.). Some units have also been dropped because of sample reductions, as explained below.

## 2.1 Splits and Mergers

When two or more units are merged into one unit, the order of the units on the listing sheet determines whether the unit stays in the sample. If the first unit was in the AHS sample, the new unit stays in the sample with the same control number the old unit had. Otherwise, it drops from the sample. For example, if Apartment 701 is in the AHS and Apartment 702 is in the Current Population Survey (or not in any Census Bureau survey), and they are merged into Apartment 701, AHS keeps the new unit. If the new unit is called Apartment 702, however, AHS loses the unit. It becomes a Type C non-interview ("merged, not in current sample").

When a unit is split into two or more units, both units stay in the sample. One unit retains the old control number, while the other will have a new control number, which cannot be linked to the control number of the unit from which it split.

This sampling plan makes longitudinal study of splits and mergers difficult. It was modified when the new sample was drawn in 1985, by having AHS units as distant as possible from units in other Census Bureau samples, so that split and merged units can almost always be retained in the sample. (See Section 3.4 below.) The data base was also modified to identify which units split from and which merged with each other.

## 2.2 Sample Reductions

By 1977, the additions to the sample from new construction and other additions to the housing stock had increased the total sample size (interviews plus non-interviews) to about 81,000. The sample was reduced by 7/97 to approximately 75,000 in 1977. However, this reduction did not include any CEN-SUP 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; the probability of selection for the rest of the units was changed to about 1 in 1,472 if they were urban and about 1 in 736 if they were rural.

In 1981, there was a similar cut-back of 5/90, so the probability of selection for the basic sample of urban units was 1 in 1,559. At the same time, the rural sample was cut back further by dropping half of the rural sample outside the 125 biggest MSAs, and a quarter of the rural sample inside these 125 MSAs. Thus, outside the 125 MSAs, the probability of selection of rural units became equal to the probability for urban units; and inside the 125 MSAs, the probability was about 1 in 1,039. Again, CEN-SUP and Coverage Improvement Program units were omitted from the cut-backs. In 1983, however, the portion of the rural sample that had been cut back was reinstated.

### 3.0 THE 1985 NATIONAL SAMPLE

The AHS sample underwent a major redesign in the years following the release of data from the 1980 census. The 1985 National Sample not only reflects the use of 1980 Census data but differs from the previous 1983 AHS sample with respect to the following major elements:

- A decrease in the number of PSUs from 461 to 401,
- A decrease in the number of housing units eligible for interview from 71,800 to 48,000,
- A change in the within-ED sampling procedure intended to reduce the contribution to the variance of estimates made by this stage of sampling,
- Improvements in the sampling of building permits to include new construction,
- Improvements in the methods for maximizing the coverage of housing units not represented in the 1980 Census or building permit frames, and
- A new supplementary sample of neighbors of AHS sample housing units.

#### 3.1 Selection of Sample Areas

In the redesigned National AHS, there are a total of 401 strata. Of the total number of strata, there are 177 self-representing strata containing only one PSU which was selected with certainty. Those PSUs not contained in self-representing strata were grouped into 224 non-self representing strata. The task of grouping PSUs into strata was accomplished by employing a multivariate clustering algorithm. Tenure, race of householder, change in the housing inventory from 1970 to 1980, change in the population from 1970 to 1980, and value of housing were the AHS stratifiers which were the input variables to the clustering algorithm. One PSU was selected from each non-self-representing stratum with probability proportionate to the 1985 projected number of housing units in the PSU. The redesigned National AHS therefore contains 401 PSUs in total. There was no formation of a smaller sampling plan nested within the sampling plan just described. (This smaller design was referred to as Sampling Plan B in Section 1.1 above.)

#### 3.2 Sampling Rates Within Sample PSUs

The national average sampling rate for the 1985 National AHS was around 1 in 1,900. As was the case for the 1973 National AHS design, two samples of approximately equal size were generated. The first sample was the primary or basic sample while the second sample was referred to as the supplementary sample. That portion of the supplementary sample which fell in rural areas constituted the rural supplement. The rural supplement will be enumerated in 1987, 1991, and 1995.

In the address EDs of sample PSUs, systematic samples of housing units were selected from the 1980 Census Sample Housing Unit Record File. A housing unit record on this file contains all data recorded on the housing unit's 1980 Census questionnaire except the housing unit's address and telephone number. To select the two samples (i.e., the primary and supplementary samples), the within-PSU sampling rate was doubled and every other sample hit was assigned to the supplementary sample.

In areas EDs of each sample PSU, four 1980 Census housing units were drawn from the address listings in each sample area segment, and these were assigned to the primary sample. Four additional units were selected from the same area segment, and these were assigned to the supplementary sample. (Refer to Section 1.3.B for the definition of an area segment.) The within-PSU sampling interval was adjusted to account for the fact that four units were being selected from an area segment for the primary sample and four units were being selected from the same segment for the supplementary sample.

Building permits were also sampled to represent newly constructed housing units that were built after the 1980 Census. The within-PSU new construction sampling intervals were adjusted so that every other new construction sample hit was assigned to the supplementary sample.

### 3.3 Description of the Within-PSU Sampling Frames

#### 3.3.A The List or Address Enumeration District Frame

Enumeration districts (EDs) having a proportion of addresses which were complete and accurate of 96 percent or more were classified as list or address EDs in both the old National AHS and the new National AHS. The list of addresses for an ED is found in the census ED address register, generated in the census enumeration. An address ED must be geographically located within a jurisdiction which issues building permits for new construction.

In the 1973 National AHS design, clusters of housing units were selected from Census ED address registers. Prior to the formation of clusters, enumeration districts were sampled according to the procedures described in Section 1.3.

In the 1985 National AHS design, an unclustered systematic sample of housing units was selected in address EDs, using the 1980 Census Sample Housing Unit Record File. Enumeration districts no longer had to be sampled, as there was no need to key ED address registers or construct clusters of housing units. Since the 1980 Census Sample Housing Unit Record file was used as the address ED sampling frame, it was possible to use 1980 Census housing characteristics as AHS stratifiers so that the reliability of the survey estimates would be increased. Housing unit records on the 1980 Census Sample Housing Unit Record file located in a sample PSU were stratified according to the following characteristics:

1. Geographic Location (Central City, Urbanized Area outside of Central City, Urban outside of Urbanized Areas, Rural)
2. Tenure

3. Number of Rooms
4. Value of Unit (for Owner-Occupied Units)  
Gross Rent (for Renter-Occupied Units)

To fully understand the differences between the address ED component of the old and new AHS National sample designs, it is necessary to discuss the major differences between the Census ED address registers and the Census Sample Housing Unit Record File. As mentioned earlier, a record on the Census Housing Unit Record File contains all data recorded on the housing unit's 1980 Census questionnaire except the housing unit's address and telephone number. The Census ED address register is a list of housing unit addresses within an ED recorded by Census enumerators who canvassed the ED. A listing line in the Census address register included the Street name and house number of the address where applicable, the block number of the address, the number of housing units at the address, and the Census serial numbers assigned to the housing units at each address.

Housing unit records that are adjacent to one another on the Census Sample Housing Unit Record File do not necessarily correspond to housing units that are physically adjacent, yet listing lines which are adjacent on the Census ED address register do correspond to housing units which are physically adjacent. It is apparent that the Census ED address registers are a much better resource than the Census Housing Unit Record File for constructing compact clusters of housing units.

Listing lines of the ED address registers, while corresponding to neighboring housing units, do not contain any demographic information about the housing units at the addresses, so that if stratification of housing units was to be undertaken, the stratifiers had to correspond to geographic characteristics such as those mentioned in Section 1.3.

The old National AHS address ED design can be compared to the new National AHS address ED design from the perspective of sampling variance. With respect to variance, the unclustered, stratified, systematic sample of the new design will produce survey estimates with lower variances than the clustered sample of the old design.

### 3.3.B The Area Enumeration District Frame

An enumeration district could be classified as an area ED either because it was not within a jurisdiction which issued building permits for new construction or it was within a jurisdiction which issued building permits for new construction, but more than 4 percent of the addresses within the ED were incomplete.

The methods of sampling area segments in the new AHS National design were similar to those used in the old National design, yet the selection methods within the sample area segment differed between the old and new designs. Since in the new design the sample area segment corresponded to an administrative block used in the 1980 Census canvassing operations, it was possible to identify addresses of housing units in the sample area segment that were

recorded in the ED address register, as the administrative block number was present for all addresses in the ED address register.

The objective of the within-area segment sample selection was to first choose four housing units which had received the 1980 Census long-form questionnaires for the primary sample, and then choose four housing units which had received the 1980 Census long-form questionnaires for the rural supplement using the ED address register listings. It should be noted that the selection of housing units which were 1980 Census long-form questionnaire recipients within area EDs results in 1980 being the starting point for any longitudinal analysis involving long-form questionnaire variables such as household income, monthly utility costs, year built, etc. rather than the first AHS enumeration, using the new National AHS design, being the starting point for the longitudinal analysis. If there was an insufficient number of housing units which had received long-form questionnaires within the area segment from which to draw, then housing units which had received short-form questionnaires were selected for the primary and/or the rural supplemental sample so that there were four primary sample housing units and four rural supplement housing units. Since the sample units had been designated using census ED address registers, there were addresses available for the sample units. If the addresses were incomplete, the enumerator was given the address listings for all housing units in the administrative block. These were then given to AHS interviewers so that they could locate sample housing units within area segments. It should be stressed that the sampling procedures just described were applicable to both permit-issuing area EDs and non-permit issuing area EDs.

### 3.3.C The Building Permit Frame

The method of sampling building permits to represent new construction in the new AHS National sample design was similar to the building permit sampling methods used in the old design (see Section 1.3.B) with three exceptions.

In the new AHS National design, clusters of four new construction units were formed using building permit information from sample building permit offices, and then they were sampled. When the sample clusters were identified, one new construction unit was subsampled from each cluster. This sampling method would result in AHS new construction estimates having smaller variances than new construction estimates derived from sample clusters of two or four new construction units as was done in the old design.

The National AHS new construction sampling was coordinated with the new construction sampling of other Census Bureau demographic surveys. The sampling of AHS new construction clusters was executed so as to maximize the overlap between the AHS sample permit offices and the sample permit offices of other demographic surveys.

Whereas in the old National AHS sample design, one-half of the new construction cluster was allocated to the primary sample and one-half to the rural supplement sample, in the new design, the new construction sampling rates for the selection of clusters were doubled so that every other sample cluster was assigned to the rural supplement sample.

The third exception was the starting permit issuance date for the new construction sampling. In the old design, the starting point for sampling new

construction was the permit issuance date of January 1970. In the new design, the starting date for permit sampling varied by region and size of structure. Table 3.2 shows the starting permit issuance for the region and size of structure categories. An explanation of the origin of these starting dates is provided in Section 3.5.C discussing coverage improvement sampling.

### 3.4 Exclusive Use of Small Multi-Unit Structures

In the redesigned AHS National sample, no other current Census Bureau demographic survey will have sample clusters in multi-unit structures having two to fifteen units, and containing AHS sample units. Sampling methods were devised for the address ED, area ED, and building permit sampling to achieve this condition. This sampling design feature will make it possible for AHS to overcome the difficulties, inherent in the old AHS National design, of maintaining a longitudinal record of splits and mergers of housing units because AHS and one or more of the current Census Bureau demographic surveys had sample units in a multi-unit structure. Although AHS does not have exclusive use of multi-unit structures of sixteen or more units, only a minor percentage of the total number of mergers and splits of housing units is found in these larger multi-unit structures.

### 3.5 Coverage Improvement Samples

There were housing units that did not appear on any of the sampling frames previously discussed, and unless steps were taken to construct sampling frames or use sampling frames not listed in Sections 3.3 to give representation to housing units missing from address ED, area ED, and building permit frames, the survey estimates could be potentially biased.

#### 3.5.A Coverage Improvement in Address EDs

##### Use of 1980 Census Coverage Improvement Housing Unit Samples

As stated previously, the AHS address and area ED sampling frame was the 1980 Census Sample Housing Unit Record File, and obviously housing units not enumerated in the 1980 Census would not be represented by this frame. The Housing Unit Coverage Study (HUCS) was undertaken as part of the 1980 Census Coverage Evaluation program. In this study, the April 1980 CPS A-sample units were matched to Census records. Those units which could not be matched to the Census were considered Census misses. Census misses which were in 1980-design sample PSUs became HUCS sample housing units. For the redesigned AHS National Survey, 300 HUCS sample housing units were selected from the HUCS nonmatches to give representation to housing units in address and area EDs missed in the 1980 Census.

## Use of Health Interview Survey Segment Listing Sheets

The previous section described how the Housing Unit Coverage Study was used to locate housing units that existed at the time of the 1980 Census enumeration but were missed by census enumerators. It was also necessary to devise a sampling plan that would pick up housing units that would not have been within the scope of the Housing Unit Coverage Study. The sampling plan had to pick up non-residential-to-residential conversions, mobile homes in parks established after the 1980 Census, mobile homes established at new addresses outside of mobile parks after the 1980 Census, and housing units moved to new sites after the 1980 Census.

The sampling plan designed for coverage improvement in address EDs utilized segment listing sheets compiled by Health Interview Survey enumerators. The sample clusters of housing units in the Health Interview Survey were selected from an all-area segment sample design; that is, no sample clusters were constructed and selected from 1980 census generated lists of housing units. The HIS area segments located within address EDs corresponded to Census official blocks or block partitions. As the Census official block or block partition was an area segment, HIS field enumerators canvassed the block and listed all housing units in the block in late 1984. A "year built" question was asked of each housing unit that was listed by the HIS field enumerator, since residential structures built after April 1980 would have been sampled in the HIS building permit frame.

Sample clusters were not designated in all HIS sample area segments. A subsample of HIS sample area segments, where the listing operation was done but no designation of sample clusters occurred, was selected by AHS. Two noncompact clusters, each cluster composed of four housing units, were selected from the subsampled HIS sample area segments. An attempt was made to match the addresses of housing units in the sample clusters shown on the HIS listing sheets to census ED address register listings for those housing units built prior to April 1, 1980. Housing units which were nonmatches were then screened in the field by AHS enumerators to see if they were housing units which met AHS eligibility requirements. If they did, then they were added to the AHS address ED coverage improvement sample.

### 3.5.B Coverage Improvement in Area EDs

In AHS sample area segments, sample clusters of housing units had been designated from the area segment listing sheets completed by field enumerators. (Refer to Section 1.3.B for a description of the designation of clusters in area segments.) In nonpermit-issuing area EDs, one sample cluster was designated, and in permit-issuing EDs two sample clusters were designated from the area segment listing sheets whenever possible. Coverage Improvement Screener forms were administered to housing units in each sample cluster. In permit-issuing area EDs, new construction housing units were sampled from the building permit universe, so that housing units in sample clusters built after April 1, 1980 were deleted from further screening. Addresses of listed units within sample clusters built prior to April 1, 1980 were matched to the appropriate ED Address Register, and nonmatches were added to the AHS coverage improvement sample. In nonpermit-issuing EDs, listed units in sample clusters which were new construction units as well as sample cluster units which could not be matched to listings in census ED Address Registers were added to the

AHS sample. The AHS sampling plan in area EDs had been designed so that AHS would have exclusive use of their sample area segments; that is, no other survey would have sample clusters in the area segment. AHS would then have a chance to select any unit that was added to the sample area segment between the initial listing and subsequent updates of the area segment.

### 3.5.C New Construction Permit Lag

In the old AHS National design, the building permit universe was composed of permits issued from January 1, 1970 up through five months before the AHS National Survey began. As the average time from permit issuance to building completion was five months, structures associated with permits issued in January would have been completed after the 1970 Census, so that duplication between the building permit frame and the Census housing unit address list frame would have been prevented. Unfortunately, there were a considerable number of structures whose building permits had been issued prior to January 1, 1970 and which were not completed until after the Census. These housing units were not represented in either the building permit universe or on the 1970 Census Housing Unit file and they are referred to as permit lag units (see Section 1.4). In the new National AHS sample design, the optimal month defining the building permit universe start point was derived using the following approach. Given any month prior to the 1980 Census Day, a number of housing units associated with building permits issued in this month and all months up to March 31st would be completed by Census Day. There would also be a number of housing units associated with building permits issued before the given month and all months prior which would not be completed until after April 1, 1980. It is evident that housing units in the first group have two chances of being selected, one in the building permit universe and the other in the Census Housing Unit Record file, while the housing units in the second group have no chance of being selected. The dates shown in Table 3-1 are the point at which the two group sizes are equal, so that each permit lag housing unit is represented by a census duplicate which has a chance of being selected in the building permit sampling as well as the census list sampling.

TABLE 3-1

#### PERMIT ISSUANCE DATES DEFINING PERMIT ELIGIBILITY FOR NEW CONSTRUCTION SAMPLING

Size of Structure	Monthly Reporters				Annual Reporters All Regions
	Region				
	NE	NC	South	West	
1 - 2 units	7/79	8/79	9/79	7/79	'80
3 - 4 units	6/79	6/79	7/79	7/79	'79
5 + units	7/78	4/79	3/79	3/79	'79

### 3.6 Neighbors' Sample

As part of the 1985 National AHS design, a sample of neighbors was generated, where a group of neighbors was considered a compact cluster of housing units. The Department of Housing and Urban Development is interested in determining the degree of homogeneity among adjacent housing units and persons residing within these housing units with respect to demographic characteristics such as tenure, type of structure, age, gross rent, race, and value of unit. Also of interest was the change or transition in groups of neighbors with respect to these characteristics.

Housing units selected in the address ED, area ED, and the building permit frames were subsampled, and the subsampled housing units were designated neighbor group kernels. Field enumerators were given the address of the neighbor group kernel and told to locate the ten housing units closest to the neighbor group kernel and list their addresses. A total of 680 sample groups of neighbors were formed with 566 located in address EDs, 63 located in sample area segments, and 51 located in new construction developments. The neighbor group sample will be interviewed in 1985, 1989, and 1993. If there were fewer than ten units near the kernel, or if some could not be interviewed, the cluster has fewer than ten neighbors.

### 4.0 METROPOLITAN STATISTICAL AREA (MSA) SAMPLE SELECTION

The purpose of the AHS-Metropolitan Statistical Area sample is to provide estimates of housing characteristics for individual MSAs. The MSAs selected for the AHS are interviewed on a rotating basis. A list of 60 MSAs was non-randomly selected to represent the largest and fastest growing MSAs. This sample was originally intended to be the basis of a three-panel, 60 MSA survey, with groups of the 60 MSAs being interviewed each year, providing a representative sample of the nation. The largest MSAs were initially interviewed with large samples. From 1978 on, however, budget cutbacks forced the sample sizes to be reduced (see below for more details).

Within the selected MSAs, MSA samples were drawn in the same way as described for the national sample with the following exceptions:

Each MSA was divided into permit-issuing areas and non-permit-issuing areas, which were then sampled separately.

EDs of Type B, where permits are required for new construction and addresses compiled for the 1970 Census were incomplete or inadequate, do not use area samples in the MSA surveys as they do in the national sample. They use address listings, just like Type C EDs. They were rare enough in the selected MSAs that the risk of not being able to find the unit based on its inadequate address was considered acceptable. To help find the unit, the enumerator was given a list of the five units on either side of the sample unit, and the name of the 1970 occupant.

Central cities were sampled separately from the rest of each MSA. The sampling rate, nevertheless, was about the same in central cities as in the suburbs of each MSA, except for 12 MSAs where especially large samples were drawn. These 12 can be identified in Table 4 of the Geography Section. In these 12, equal sample sizes were taken from the central city and suburban portions of the MSA, so the sampling rates were different.

In address-listing areas, sampling was based on the 20 percent of units which answered "long form" questionnaires in the 1970 Census.

Occupied and vacant housing units were sampled separately from special places and group quarters.

Occupied housing units were stratified by race (non-Black/Black); tenure (owner/renter); number of persons related to head, including head (1, 2, 3, 4, 5+); and income of head and relatives (\$0-3K, 3-6K, 6-10K, 10-15K, 15+K) -- a total of 100 strata.

Vacant units were stratified into four categories: inexpensive (under \$80 rent or \$15,000 value), medium, expensive (\$120+ rent or \$25,000+ value), and other (i.e., units not for sale or rent, such as seasonally vacant units).

Special places and group quarters were stratified by census tract and census ED within Central City and within the suburban portions of the MSAs.

Clusters of two were used for the sample from long-form questionnaires. This means two adjacent questionnaires were chosen from the stratified list of questionnaires. The units were not necessarily geographically close. Clusters of four were used for area segments, building permits, special places, and group quarters.

Building permits are sampled up to 5 months before the end of interviewing, not the beginning.

In address-listing areas, new units in sample structures are not listed and are not sampled. Such units were therefore included in the Coverage Improvement Program.

Coverage improvement for new construction (after April 1, 1970) from old permits (before January 1, 1970) was conducted substantially differently from the national sample. A sample of permit offices was taken and a sample of 1969 permits in them, wherever data could be obtained. One-to-two unit structures were then sampled at one-fourth the normal AHS rate for the MSA. Larger structures were subdivided into clusters of two and sampled at one-half the normal rate. In MSAs where necessary data could not be obtained, permits identified by the Survey of Construction were sampled at one-third the normal rate.

## 5.0 CHANGES IN THE MSA SAMPLE

Unlike the National Survey, the AHS-MSA Survey was not totally redesigned, yet important changes occurred. MSAs that remained in the sample were redefined to conform with the 1983 Census boundaries; new MSAs were added while MSAs were dropped. For Houston, a totally new sample was drawn from the 1980 Census. In some MSAs, certain areas containing existing sample were targeted for sample supplementation. These areas containing existing housing units selected from the 1970 Census Housing Unit Record files are referred to as salted zones, and sample supplementation was necessary in these areas to prevent confidentiality problems with the release of survey micro-data.

Starting in 1984, there are 44 MSAs in the Survey which have been divided into four groups. Each group will be interviewed on a four-year cycle. (See Table 2 in the Introduction to the Codebook.)

#### 5.1 Sampling Frame Used for Selection of New Samples

In addition to new MSAs, new samples of housing units were selected for counties or MCDs appended to an MSA whose geographical definition had been updated, and for salted zones of an MSA where 1970 Census-based sample housing units existed. For counties or MCDs (Minor Civil Divisions) added to the MSA due to the change in the MSA definition and for new MSAs, permit-issuing enumeration districts were separated from nonpermit-issuing enumeration districts as the sample selection procedures for permit-issuing EDs differed from the sample selection procedures for nonpermit-issuing EDs. New samples were selected in the permit-issuing portions of salted zones. All new sample housing units located in permit-issuing enumeration districts were selected from the 1980 Census Complete Count Housing Unit Record file. Note that in the 1970 Census-based design, housing units were selected from the 1970 Census Sample Housing Unit Record file which included a sample of about twenty percent of the housing units enumerated in the 1970 Census and given a "long-form" questionnaire. For a MSA having salted zones and new counties or MCDs, due to the change in the MSA definition, the salted zones had to be sampled separately from the added counties or MCDs as the sampling rate used in salted zones differed from the one used in added counties or MCDs.

#### 5.2 Stratification for New Sample Selection in Permit Issuing EDs

Housing unit records on the 1980 Census Complete Count Housing Unit Record file, for housing units located in permit-issuing EDs of salted zones or appended counties and MCDs, were stratified according to the following variables:

1. Central City of MSA/Balance of MSA
2. Tenure
3. Contract Rent
4. Value
5. Number of Rooms

Renter-related strata were oversampled from the 1980 Complete Count Housing Unit Record file. It should be noted that this stratification plan differed considerably from the stratification plan used in the 1970 Census-based design.

When housing units were initially selected from the 1970 Census materials for the MSA Survey, central cities were sampled separately from the rest of each MSA (see Section 4.0 above). Samples of housing were selected from salted zones and/or new counties or MCDs within an existing MSA in such a way so that the final weights of sample housing units located in the central city were equal to the final weights of sample housing units in the balance of the MSA.

For the 1980 Census-based survey component, a distinction was made between institutionalized group quarters and non-institutionalized group quarters. Group quarters were classified as institutional if there were one

or more persons under care of custody such as nursing homes, halfway houses, and orphanages. Examples of non-institutional group quarters are rooming and boarding houses, hotels and motels, and college dormitories. Sampling procedures used for the non-institutionalized group quarters remained the same as those instituted by the 1970 Census-based sampling, but for institutionalized group quarters, each institution was given a measure of size one and they were selected using equal probability systematic sampling.

### 5.3 Cluster Sizes Used in New Sample Selection

Whereas the 1970 Census-based sampling procedure in permit-issuing EDs resulted in the selection of clusters of two adjacent long-form questionnaires from the stratified list of census sample housing units, the 1980 Census-based sample in permit-issuing areas was unclustered. New sample units selected in permit-issuing EDs were split into two equal-sized replicates. The replicates were formed by assigning every other sample hit to the second replicate.

Clusters of two new construction units formed using building permit information were selected in the new construction sampling in the 1980 Census-based survey component, while new construction clusters of size four were used in the 1970 Census-based survey component. In the salted zones, new MSAs, and added counties and MCDs, clusters of four newly constructed units were initially formed from permits within a sample building permit office. These clusters were then sampled. The procedures for the formation and the sampling of the clusters of size four did not differ from the procedures used in the new construction sampling of the 1970s, but following the sample selection of clusters of size four, two housing units were randomly selected from the clusters of size four.

### 5.4 Reduction of MSA Survey Samples

In the original design, each MSA sample is divided into 12 equal-sized and equally representative parts. Each month a different one is interviewed. A few interviews may extend into the following month, and new construction may be interviewed even later in the year, but these units are still considered to "belong" to the panel in which they were originally assigned, and are identified in IMONTH as belonging to that panel, regardless of when they are interviewed. An overall sample cut-back was undertaken in 1977, by omitting the March panel. In 1981 five more panels were omitted for large-sample MSAs, so that in three MSAs (Boston, Detroit and Washington) only the June-August and October panels were interviewed. In 1982, the sample was reduced in the remaining nine panels for 7 of 12 MSAs to achieve a sample size of 4,250 units in all MSAs. In 1983 and later surveys, all MSAs were cut back, particularly among owned units, to have a smaller sample size, with at least half the sample being renters whenever possible. No interviewing is done in January through March from 1983 on; any cases retained from those panels have been assigned new panel numbers. The purpose of oversampling renters was to increase the reliability of HUD estimates of rent level in each market.

The housing units selected from the 1980 Census Complete Count Housing Unit Record file for salted zones, new counties or MCDs within existing MSAs, and new MSAs were not part of the 1984 and 1985 Survey sample reductions.

In the 1985 Survey reduction, clusters consisting of owner-occupied housing units, clusters consisting of renter housing units, and clusters consisting of both renter and owner-occupied housing units were all reduced, although the reduction rates were lowest for clusters consisting of renter housing units. Subsamples of housing unit clusters that had been deleted in the previous enumeration sample reduction were reinstated for the 1985 AHS-MSA Survey. Prior to the subsampling, clusters were stratified by MSA sector (central city versus balance). Wherever possible, reinstated housing units were from panels 04-09 (April-December). Following the reduction and reinstatement procedures, all housing units remaining in panels 01-03 (January-March) were reassigned to panels 04-12.



ANNUAL HOUSING SURVEY  
QUESTIONNAIRE

1985 National Sample

Questionnaires for the National and Metropolitan Samples are virtually identical from 1984 to 1993. Earlier questionnaires, however, are very different. Copies of the questionnaires can be ordered using the order form at the end of this Codebook.

NOTE: The sample shows questions for occupied units. It does not show sections for non-interviews, or unoccupied units and does not include supplemental questions which vary from survey to survey. Copies of complete questionnaires are printed in the AHS Publication or may be obtained from Abt Associates. A copy of selected pages of the control card is included in the Household Composition section.

FORM **AHS-22**  
(3-25-85)

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
ACTING AS COLLECTING AGENT FOR  
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

**AMERICAN HOUSING SURVEY  
NATIONAL SAMPLE  
1985  
OCCUPIED HOUSING UNITS**

**NOTICE** - All information which would permit identification of the individual will be held in strict confidence by law under U.S. Code, title 13, section 9a. It may be seen only by sworn Census employees and may be used only for statistical purposes.

1. Control number

~ 4 1 0 ~

PSU Segment

CONTROL

Serial Sample Check digit

F

2a. Date of first visit

DATE

0010

Month	Day	Year

b. Interviewer name

c. Interview method

PERSINT

0015

1  Personal visit  
2

3. Check item (See Control Card item 6.)

- Control number in sample last enumeration period - Fill item 4
- Control number in sample for first time this enumeration period - Skip to item 8

4. (See Control Card items 11 and 14.)  
Are any household members the same this time as last enumeration period?

0020

URE household

1  Yes  
2  No  
3  Don't know

5. Is this the same house/apartment/mobile home as last enumeration period?

0020

Mark if house/apartment. Ask if mobile home.

1  Yes  
2  No, for example, replacement mobile home, wrong unit interviewed last time, etc.

6. Type of interview

ISTATUS

0040

1  Regular occupied - (One or more "1's" in Control Card item 14) - Go to item 20, page 3  
2  URE occupied - (All "2's" in Control Card item 14) - Go to item 124, page 32  
4  Type A noninterview

7. Type A noninterview reason

NOINT

0050

01  No one home  
02  Temporarily absent  
03  Refused  
04  Unable to locate  
05  Other occupied - Specify \_\_\_\_\_

8. Occupancy status for Type A noninterviews

STATUA

0060

1  Occupied as a usual residence by at least one person  
2  All occupants have a usual residence elsewhere  
3  Don't know - Go to Control Card item 9a

9. Mortgage (See item 94, page 19.)

MRCOMP

0070

1  Mortgage information not required OR callback not required  
 Callback required →  
2  Information obtained  
3  Unable to obtain information - Explain → \_\_\_\_\_

10. Unit measurement (See item 215, page 56.)

UNCOMP

0125

1  Unit measurement not required OR callback not required  
 Callback required →  
2  Information obtained  
3  Unable to obtain information - Explain → \_\_\_\_\_

11-12. WASHINGTON USE ONLY

13. Fill for F7 sample units only - transcribe from AHS-214A

ST DO ED CSN

14a. Interviewer: Is there any information for this sample unit which should be reviewed by the office prior to data keying?

0135

1  Review not required  
2  Review required

Notes

b. OFFICE USE ONLY

0139

2  Review completed

15. OFFICE USE ONLY

a. EDIT FOLLOWUP REQUIRED →

0136 Page   Item

0137 Page   Item

0138 Page   Item

b. SOURCE OF RESOLUTION

0140

1  Respondent  
\* 2  Interviewer  
3  Regional Office staff  
4  Washington  
5  Other - Specify \_\_\_\_\_

c. OFFICE USE ONLY

0141   Editor's code

0142

16. Mobility Supplement (See item 175, page 44.)

0145

1  Mobility information not required OR callback not required  
 Callback required →  
2  Information obtained  
3  Unable to obtain information - Explain → \_\_\_\_\_

17. Address correction/address addition

~ 5 1 0 ~

First address line

Second address line

Place or city

State ZIP Code

18-19. WASHINGTON USE ONLY

**REGULAR OCCUPIED**

<p>MARK OR ASK -</p> <p><b>20. Are your living quarters in a -</b> (Read all answer categories.)</p>	<p>1120</p>	<p align="right">TYPE</p> <p>1 <input type="checkbox"/> Mobile home</p> <p>2 <input type="checkbox"/> One-unit building, detached from any other building</p> <p>3 <input type="checkbox"/> One-unit building, attached to one or more buildings - Skip to item 22a</p> <p>4 <input type="checkbox"/> Building with two or more apartments? - Skip to item 21b</p>
<p><b>21a. Are there any occupied or vacant apartments besides your own in the (building/mobile home)?</b></p>	<p>1130</p>	<p>1 <input type="checkbox"/> Yes - Fill Table X on Control Card, then go to item 21b</p> <p>2 <input type="checkbox"/> No - Skip to item 23 and mark box 1 or 4</p>
<p><b>b. How many apartments are in the (building/mobile home)?</b></p>	<p>1140</p>	<p align="right">NUNITS</p> <p>_____ Number - Skip to item 23 and mark box 3 or 5</p>
<p><b>22a. Does your (house/apartment) share an attic or basement with the (house/apartment) next door?</b></p>	<p>1150</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No . . . . .</p> <p>3 <input type="checkbox"/> Don't know } SKIP to item 22c</p>
<p><b>b. How many (houses/apartments) including your own share the attic or basement?</b></p>	<p>1160</p>	<p align="right">NUNITS</p> <p>_____ Number - If one, reask item 22a and correct entry. If more than one, skip to item 23 and mark box 3.</p>
<p><b>c. Does your (house/apartment) share a furnace or boiler with the (house/apartment) next door?</b></p>	<p>1170</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No . . . . .</p> <p>3 <input type="checkbox"/> Don't know } SKIP to item 22e</p>
<p><b>d. How many (houses/apartments) including your own share the furnace or boiler?</b></p>	<p>1180</p>	<p align="right">NUNITS</p> <p>_____ Number - If one, reask item 22c and correct entry. If more than one, skip to item 23 and mark box 3.</p>
<p><b>e. Are there any occupied or vacant apartments besides your own in the building?</b></p>	<p>1190</p>	<p>1 <input type="checkbox"/> Yes - Fill Table X on Control Card, then go to item 22f</p> <p>2 <input type="checkbox"/> No - Skip to item 23 and mark box 2</p>
<p><b>f. How many apartments including your own are in the building?</b></p>	<p>1200</p>	<p align="right">NUNITS</p> <p>_____ Number - If one, reask item 22e and correct entry. If more than one, go to item 23 and mark box 3.</p>
<p><b>23. Check Item</b> Final structure type classification based on entries in items 20-22.</p>	<p>1210</p>	<p align="right">NUNIT2</p> <p>1 <input type="checkbox"/> One-unit building - detached</p> <p>2 <input type="checkbox"/> One-unit building - attached</p> <p>3 <input type="checkbox"/> Two-or-more-unit building . . . . .</p> <p>4 <input type="checkbox"/> Mobile home-one unit . . . . .</p> <p>5 <input type="checkbox"/> Mobile home-two-or-more units } SKIP to item 25a</p>
<p><b>24. Is the house built -</b> (Read answer categories until a "Yes" reply is received.)</p>	<p>1220</p>	<p align="right">CELLAR</p> <p>1 <input type="checkbox"/> With a basement under all the building?</p> <p>2 <input type="checkbox"/> With a basement under part of the building?</p> <p>3 <input type="checkbox"/> With a crawl space?</p> <p>4 <input type="checkbox"/> On a concrete slab?</p> <p>5 <input type="checkbox"/> In some other way? - Specify _____</p>
<p><b>25a. Is the (house/apartment) part of a condominium or cooperative?</b></p>	<p>1230</p>	<p align="right">CONDO</p> <p>3 <input type="checkbox"/> No . . . . .</p> <p>2 <input type="checkbox"/> Yes, condominium } SKIP to item 26a, page 4</p> <p>1 <input type="checkbox"/> Yes, cooperative</p>
<p><b>b. To the Census Bureau, a cooperative is property which is owned by a corporation. Each shareholder is entitled to occupy an individual unit. Is this what you mean when you say this is a cooperative?</b></p>		<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No - Reask item 25a and correct entry</p>

**REGULAR OCCUPIED – Continued**

<p><b>26a. How many of each of the following rooms does the (house/apartment) have?</b>  <i>(For a one room efficiency or studio apartment, enter "1" for living room, enter the correct number of bathrooms, and mark "None" for all other rooms.)</i></p> <p><b>(1) Bedrooms?</b> .....</p> <p><b>(2) Full bathrooms?</b>  <i>(Hot and cold piped water AND sink AND flush toilet AND bathtub or shower)</i> .....</p> <p><b>(3) Half bathrooms?</b>  <i>(Toilet OR bathtub OR shower)</i> .....</p> <p><b>(4) Kitchens?</b> .....</p> <p><b>(5) Living rooms?</b> .....</p> <p><b>(6) Dining rooms?</b> .....</p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: 1px solid black; text-align: center;">1240</td> <td style="width:40%; border-bottom: 1px dashed black;">_____</td> <td style="width:15%;">Number</td> <td style="width:30%; text-align: right;">BEDRMS</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> <td></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1250</td> <td style="border-bottom: 1px dashed black;">_____</td> <td>Number</td> <td style="text-align: right;">BATHS</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> <td></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1260</td> <td style="border-bottom: 1px dashed black;">_____</td> <td>Number</td> <td style="text-align: right;">HALFB</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> <td></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1270</td> <td style="border-bottom: 1px dashed black;">_____</td> <td>Number</td> <td style="text-align: right;">KITCH</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> <td></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1280</td> <td style="border-bottom: 1px dashed black;">_____</td> <td>Number</td> <td style="text-align: right;">LIVING</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> <td></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1290</td> <td style="border-bottom: 1px dashed black;">_____</td> <td>Number</td> <td style="text-align: right;">DINING</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> <td></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1295</td> <td></td> <td colspan="2"><b>Is it a separate room? ▾</b></td> </tr> <tr> <td></td> <td></td> <td colspan="2">1 <input type="checkbox"/> Yes</td> </tr> <tr> <td></td> <td></td> <td colspan="2">2 <input type="checkbox"/> No – Correct entry for number of dining rooms</td> </tr> </table> <hr/> <p><b>b. Are there any other rooms?</b>  <i>(Exclude halls, foyers, pantries, garages, porches or areas that aren't separated by a built-in, floor-to-ceiling wall extending at least a few inches into room.)</i></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: 1px solid black; text-align: center;">1300</td> <td style="width:40%; border-bottom: 1px dashed black;">_____</td> <td style="width:15%;">1 <input type="checkbox"/> Yes</td> <td style="width:30%;"></td> </tr> <tr> <td></td> <td></td> <td>2 <input type="checkbox"/> No – Skip to item 27</td> <td style="text-align: right;">OTHRMS</td> </tr> </table> <hr/> <p><b>c. What are they?</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: 1px solid black; text-align: center;">1310</td> <td style="width:40%; border-bottom: 1px dashed black;">_____</td> <td style="width:15%;">Number of family rooms, dens, recreation rooms and/or libraries</td> <td style="width:30%; text-align: right;">DENS</td> </tr> <tr> <td></td> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1320</td> <td style="border-bottom: 1px dashed black;">_____</td> <td>Number of rooms that are business space with direct access to outside</td> <td style="text-align: right;">OFFICE</td> </tr> <tr> <td></td> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">1330</td> <td style="border-bottom: 1px dashed black;">_____</td> <td>Number of other rooms, finished or unfinished</td> <td style="text-align: right;">NOTHRM</td> </tr> <tr> <td></td> <td></td> <td>0 <input type="checkbox"/> None</td> <td></td> </tr> </table>	1240	_____	Number	BEDRMS						0 <input type="checkbox"/> None			1250	_____	Number	BATHS						0 <input type="checkbox"/> None			1260	_____	Number	HALFB						0 <input type="checkbox"/> None			1270	_____	Number	KITCH						0 <input type="checkbox"/> None			1280	_____	Number	LIVING						0 <input type="checkbox"/> None			1290	_____	Number	DINING						0 <input type="checkbox"/> None			1295		<b>Is it a separate room? ▾</b>				1 <input type="checkbox"/> Yes				2 <input type="checkbox"/> No – Correct entry for number of dining rooms		1300	_____	1 <input type="checkbox"/> Yes				2 <input type="checkbox"/> No – Skip to item 27	OTHRMS	1310	_____	Number of family rooms, dens, recreation rooms and/or libraries	DENS			0 <input type="checkbox"/> None		1320	_____	Number of rooms that are business space with direct access to outside	OFFICE			0 <input type="checkbox"/> None		1330	_____	Number of other rooms, finished or unfinished	NOTHRM			0 <input type="checkbox"/> None	
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<p><b>27. Does the (house/apartment) have a kitchen sink?</b>  <i>(For this household's use only)</i></p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: 1px solid black; text-align: center;">1340</td> <td style="width:40%; border-bottom: 1px dashed black;">_____</td> <td style="width:15%;">1 <input type="checkbox"/> Yes</td> <td style="width:30%; text-align: right;">SINK</td> </tr> <tr> <td></td> <td></td> <td>2 <input type="checkbox"/> No</td> <td></td> </tr> </table>	1340	_____	1 <input type="checkbox"/> Yes	SINK			2 <input type="checkbox"/> No																																																																																																													
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		2 <input type="checkbox"/> No																																																																																																																			
<p><b>28. Check Item (See item 26a.)</b></p> <p><input type="checkbox"/> One or more full bathrooms – Skip to item 30a</p> <p><input type="checkbox"/> No full bathrooms – Ask item 29a</p>																																																																																																																					
<p><b>29a. Does the (house/apartment) have a bathtub or shower for this household's use only?</b></p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: 1px solid black; text-align: center;">1350</td> <td style="width:40%; border-bottom: 1px dashed black;">_____</td> <td style="width:15%;">1 <input type="checkbox"/> Yes</td> <td style="width:30%; text-align: right;">TUB</td> </tr> <tr> <td></td> <td></td> <td>2 <input type="checkbox"/> No</td> <td></td> </tr> </table>	1350	_____	1 <input type="checkbox"/> Yes	TUB			2 <input type="checkbox"/> No																																																																																																													
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		2 <input type="checkbox"/> No																																																																																																																			
<p><b>b. Does the (house/apartment) have a flush toilet for this household's use only?</b></p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: 1px solid black; text-align: center;">1360</td> <td style="width:40%; border-bottom: 1px dashed black;">_____</td> <td style="width:15%;">1 <input type="checkbox"/> Yes</td> <td style="width:30%; text-align: right;">TOILET</td> </tr> <tr> <td></td> <td></td> <td>2 <input type="checkbox"/> No – Skip to item 31a, page 5</td> <td></td> </tr> </table>	1360	_____	1 <input type="checkbox"/> Yes	TOILET			2 <input type="checkbox"/> No – Skip to item 31a, page 5																																																																																																													
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		2 <input type="checkbox"/> No – Skip to item 31a, page 5																																																																																																																			
<p><b>30a. In the last 3 months, was there any time when all the toilets in the home were not working?</b>  <i>(While household was living here if less than 3 months)</i></p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: 1px solid black; text-align: center;">1370</td> <td style="width:40%; border-bottom: 1px dashed black;">_____</td> <td style="width:15%;">1 <input type="checkbox"/> Yes</td> <td style="width:30%; text-align: right;">IFTLT</td> </tr> <tr> <td></td> <td></td> <td>2 <input type="checkbox"/> No toilet breakdowns – Skip to item 31a, page 5</td> <td></td> </tr> </table>	1370	_____	1 <input type="checkbox"/> Yes	IFTLT			2 <input type="checkbox"/> No toilet breakdowns – Skip to item 31a, page 5																																																																																																													
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<p><b>b. How many of these breakdowns lasted 6 hours or more?</b></p>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border: 1px solid black; text-align: center;">1380</td> <td style="width:40%; border-bottom: 1px dashed black;">_____</td> <td style="width:15%;">Number of toilet breakdowns lasting 6 hours or more</td> <td style="width:30%; text-align: right;">NUMTLT</td> </tr> <tr> <td></td> <td></td> <td>0 <input type="checkbox"/> No toilet breakdowns lasting 6 hours</td> <td></td> </tr> </table>	1380	_____	Number of toilet breakdowns lasting 6 hours or more	NUMTLT			0 <input type="checkbox"/> No toilet breakdowns lasting 6 hours																																																																																																													
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**REGULAR OCCUPIED — Continued**

<p><b>31a. Is all the wiring in the finished areas of your home concealed either in walls or metal coverings?</b> <i>(Exclude appliance cords, extension cords, chandelier cords, telephone or antenna wires.)</i></p>	1390	<p>1 <input type="checkbox"/> Yes, concealed      NOWIRE                  2 <input type="checkbox"/> No                  3 <input type="checkbox"/> No electrical wiring — Skip to item 32a</p>
<p><b>b. Does every room have an electric outlet or wall plug that works?</b></p>	1400	<p>1 <input type="checkbox"/> Yes      PLUGS                  2 <input type="checkbox"/> No</p>
<p><b>c. Have any fuses blown or circuit breakers tripped in the last 3 months?</b> <i>(For the home)</i> <i>(While household was living here if less than 3 months)</i></p>	1410	<p>1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No                  3 <input type="checkbox"/> Don't know } Skip to item 32a                  IFBLOW</p>
<p><b>d. How many times in the last 3 months?</b></p>	1420	<p>_____ Number      NUMBLOW</p>
<p><b>32a. Has water leaked into your home from outdoors in the last 12 months?</b> <i>(Exclude plumbing or other inside leaks.)</i> <i>(While household was living here if less than 12 months)</i></p>	1430	<p>1 <input type="checkbox"/> Yes      LEAK                  2 <input type="checkbox"/> No — Skip to item 32c</p>
<p><b>b. Where did the water come in?</b> <i>(Mark all that apply.)</i></p>	1440	<p>* 1 <input type="checkbox"/> Roof      RLEAK                  2 <input type="checkbox"/> Basement      BLEAK                  3 <input type="checkbox"/> Walls or around closed windows or closed doors      WLEAK                  4 <input type="checkbox"/> Other — Specify _____      Otleak</p>
<p><b>c. Have there been water leaks in the (house/apartment) from INSIDE the building in the last 12 months?</b> <i>(While household was living here if less than 12 months)</i></p>	1450	<p>1 <input type="checkbox"/> Yes      ILEAK                  2 <input type="checkbox"/> No — Skip to item 33a</p>
<p><b>d. Where did the water come from?</b> <i>(Mark all that apply.)</i></p>	1460	<p>* 1 <input type="checkbox"/> Own plumbing fixtures backed up and/or overflowed      PLEAK                  2 <input type="checkbox"/> Pipes leaked <i>(Include pipe leaks from other apartments.)</i>      PILEAK                  3 <input type="checkbox"/> Other or unknown — Specify _____      NLEAK</p>
<p><b>33a. Does the (house/apartment) have hot and cold piped water?</b> <i>(For this household's use only)</i></p>	1470	<p>1 <input type="checkbox"/> Yes      HOTPIP                  2 <input type="checkbox"/> No — Skip to item 34a</p>
<p><b>b. What fuel is used MOST to heat the water?</b></p>	1480	<p>1 <input type="checkbox"/> Electricity      WFUEL                  2 <input type="checkbox"/> Gas                  3 <input type="checkbox"/> Fuel oil                  4 <input type="checkbox"/> Kerosene or other liquid fuel                  5 <input type="checkbox"/> Coal or coke                  6 <input type="checkbox"/> Wood                  7 <input type="checkbox"/> Solar energy                  8 <input type="checkbox"/> Other — Specify _____</p>
<p><b>c. Was your home ever completely without running water in the last 3 months?</b> <i>(While household was living here if less than 3 months)</i></p>	1490	<p>1 <input type="checkbox"/> Yes      IFDRY                  2 <input type="checkbox"/> No water stoppage — Skip to item 34a</p>
<p><b>d. How many times was it not available for 6 hours or more?</b></p>	1500	<p>_____ Water stoppages lasting 6 hours or more                  NUMDRY                  0 <input type="checkbox"/> None lasted 6 hours</p>
<p><b>34a. Does water for your home come from a public or private system, an individual well, or some other source?</b> <i>(Source used for drinking and cooking.)</i></p>	1510	<p>1 <input type="checkbox"/> Public or private water system — Skip to item 35a, page 6      WATER                  2 <input type="checkbox"/> Individual well — Ask item 34b                  3 <input type="checkbox"/> Spring                  4 <input type="checkbox"/> Cistern                  5 <input type="checkbox"/> Stream or lake                  6 <input type="checkbox"/> Bottled water                  7 <input type="checkbox"/> Other — Specify _____ } Skip to item 35a, page 6</p>
<p><b>b. How many (houses/apartments) does the well serve?</b></p>	1520	<p>1 <input type="checkbox"/> Only this house/apartment      WELDUS                  2 <input type="checkbox"/> 2 to 5                  3 <input type="checkbox"/> 6 or more</p>
<p><b>c. Is the well drilled or dug?</b></p>	1530	<p>1 <input type="checkbox"/> Drilled      WELL                  2 <input type="checkbox"/> Dug</p>

**REGULAR OCCUPIED — Continued**

<b>35a. Is the (house/apartment) connected to a public sewer?</b>	1540	<input type="checkbox"/> Yes — Skip to item 35d <input type="checkbox"/> No	PUBSEW
<b>b. What means of sewage disposal does the (house/apartment) have?</b>	1550	<input type="checkbox"/> Septic tank or cesspool — Ask item 35c <input type="checkbox"/> Chemical toilet <input type="checkbox"/> Outhouse or privy <input type="checkbox"/> Other — Specify _____ <input type="checkbox"/> None	SEWDIS } Skip to item 36a
<b>c. How many (houses/apartments) are connected to the (septic tank/cesspool)?</b>	1560	<input type="checkbox"/> One <input type="checkbox"/> 2 to 5 <input type="checkbox"/> 6 or more	SEWDUS
<b>d. Did the sewage system break down in the last 3 months?</b> (So that it was completely unusable) (While household was living here if less than 3 months)	1570	<input type="checkbox"/> Yes <input type="checkbox"/> No sewage breakdowns — Skip to item 36a	IFSEW
<b>e. How many of these breakdowns lasted 6 hours or more?</b>	1580	_____ Sewage breakdowns lasting 6 hours or more <input type="checkbox"/> None lasted 6 hours	NUMSEW
<b>36a. Does your (house/apartment) have a refrigerator?</b> (For this household's use only) (Exclude ice boxes.)	1590	<input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 37a	REFR
<b>b. Is it more than 5 years old?</b> (Age of newest if two or more)	1600	<input type="checkbox"/> Yes <input type="checkbox"/> No	REFR5
<b>37a. Does your (house/apartment) have a garbage disposal in the sink?</b>	1610	<input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 38a	DISPL
<b>b. Is it more than 5 years old?</b>	1620	<input type="checkbox"/> Yes <input type="checkbox"/> No	DISP5
<b>38a. Does your (house/apartment) have a cookstove or range with an oven?</b> (For this household's use only) (Include microwaves. Exclude toaster-ovens and portable burners.)	1630	<input type="checkbox"/> Yes — Skip to item 38c <input type="checkbox"/> No	COOK
<b>b. Does your (house/apartment) have —</b> (For this household's use only)			OVEN
(1) an oven? (Include microwaves.) (Exclude toaster-ovens.)	1640	<input type="checkbox"/> Yes <input type="checkbox"/> No	} If both are "No," skip to item 39a
(2) cooking burners? (Exclude portable burners.)	1650	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>c. (Is it/Are they) more than 5 years old?</b> (Age of newest if two or more)	1660	<input type="checkbox"/> Yes <input type="checkbox"/> No	COOK5
<b>d. What fuel is used MOST for cooking?</b>	1670	<input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Kerosene or other liquid fuel <input type="checkbox"/> Coal or coke <input type="checkbox"/> Wood <input type="checkbox"/> Other — Specify _____ <input type="checkbox"/> No fuel used	CFUEL
<b>39a. Does your (house/apartment) have a dishwasher?</b>	1690	<input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 40a, page 7	DISH
<b>b. Is it more than 5 years old?</b>	1700	<input type="checkbox"/> Yes <input type="checkbox"/> No	DISH5



**REGULAR OCCUPIED – Continued**

**44. Does the (house/apartment) have a usable fireplace?** FPLWK

1830 1  Yes  
2  No

**PLEASE LOOK AT THIS CARD.** HEQUIP

**45. What type of heating equipment is used MOST to heat the (house/apartment)?** 1840

1  A central warm-air furnace (with air vents or ducts to the individual rooms)

2  Steam or hot-water system (radiators or other system using steam or hot water)

3  Electric heat pump

4  Other built-in electric units (permanently installed in wall, ceiling, or baseboards)

5  Floor, wall, or other built-in, hot-air heater without ducts

Room heaters – (Is it /Are they) –

6  Kerosene, gas, or oil heaters, VENTED to the outside through a chimney, flue, or pipes? SFLIN

7  UNVENTED gas, oil, or kerosene heaters? SPORTH

8  Portable electric heaters?

9  Stove(s) SSTOVE

10  Fireplace(s) WITH inserts (installed equipment designed to circulate more heat into the room) SFRPL

11  Fireplace(s) with NO inserts

12  Other – Specify \_\_\_\_\_ SHOTH

13  None – Skip to item 48a, page 9 SNONE

**46a. What other kinds of heating equipment does the (house/apartment) have or use?** 1850

(Mark all that apply.)

**b. Anything else?**

Yes – Mark appropriate box(es), then go to item 47a

No

1  A central warm-air furnace (with air vents or ducts to the individual rooms) SAFUR

2  Steam or hot-water system (radiators or other system using steam or hot water) SSTEAM

3  Electric heat pump SHPMP

4  Other built-in electric units (permanently installed in wall, ceiling, or baseboards) SELECT

5  Floor, wall, or other built-in, hot-air heater without ducts SPLF

Room heaters – (Is it /Are they) –

6  Kerosene, gas, or oil heaters, VENTED to the outside through a chimney, flue, or pipes? SFLOT

7  UNVENTED gas, oil, or kerosene heaters? SFLIN

8  Portable electric heaters? SPORTH

9  Stove(s) SSTOVE

10  Fireplace(s) WITH inserts (installed equipment designed to circulate more heat into the room) SFRPL

11  Fireplace(s) with NO inserts SFRPL

12  Other – Specify \_\_\_\_\_ SHOTH

13  None SNONE

Notes

**REGULAR OCCUPIED – Continued**

<p><b>47a.</b> Last winter was there any time when the (house/apartment) was so cold for 24 hours or more that it caused anyone in your household discomfort?</p>	1880	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Did not live here last winter	FREEZE } Skip to item 48a
<p><b>b.</b> Was that because the heating equipment broke down?</p>	1890	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No, didn't break down — Skip to item 47e	IFCOLD
<p><b>c.</b> How many times did (it/they all) break down for 6 hours or more?</p>	1900	_____ Number of breakdowns lasting 6 hours or more 0 <input type="checkbox"/> Never broken for 6 hours	NUMCOLD
<p><b>d.</b> Was it cold for any other reason?</p>	1910	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to item 48a	OTHCLD
<p><b>e.</b> What was the reason?</p>	1920	1 <input type="checkbox"/> Utility interruption 2 <input type="checkbox"/> Inadequate heating capacity 3 <input type="checkbox"/> Inadequate insulation 7 <input type="checkbox"/> Other — Specify _____	WHYCLD
<p><b>48a.</b> Does the (house/apartment) have a porch, deck, balcony, or patio? <i>(Measuring at least four feet by four feet) (Exclude if already counted as a room.)</i></p>	1930	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	PORCH
<p><b>b.</b> Does the (house/apartment) have open cracks or holes in the inside walls or ceilings? <i>(Cracks thicker than a dime)</i></p>	1940	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	CRACKS
<p><b>c.</b> Does the (house/apartment) have holes in the floors? <i>(Big enough for someone to trip in)</i></p>	1950	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	HOLES
<p><b>d.</b> Does the (house/apartment) have any area of peeling paint or broken plaster bigger than 8 inches by 11 inches? <i>(The size of a weekly news magazine or standard letter)</i></p>	1960	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	BIGP
<p><b>e.</b> In the last 3 months have you seen any rats or signs of rats in the building?</p>	1970	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	RATS
<p><b>49.</b> On a scale of 1 to 10, how would you rate the (house/apartment) as a place to live? 10 is best, 1 is worst.</p>	1980	_____	HOWH
<p><b>50a.</b> How would you rate the neighborhood on a scale of 1 to 10? 10 is best, 1 is worst. <i>(Mark "No neighborhood," if respondent volunteers this answer.)</i></p>	1990	_____	HOWN
<p><b>b.</b> Is there anything about the neighborhood that bothers you?</p>	2000	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to item 51a, page 10	NPROBS
<p><b>c. What?</b> <i>(Write exact words and mark all that apply.)</i></p>		_____	
	2010	1 <input type="checkbox"/> No problem * 2 <input type="checkbox"/> Crime 3 <input type="checkbox"/> Noise 4 <input type="checkbox"/> Traffic 5 <input type="checkbox"/> Litter or housing deterioration 6 <input type="checkbox"/> Poor city/county services	NOPROB NUCRIM NOISE NUTRAF LITTER BADSRV
	2020	* 7 <input type="checkbox"/> Undesirable commercial, institutional, or industrial property 8 <input type="checkbox"/> People 9 <input type="checkbox"/> Other	BADPRP BADPER O'THNHD

**REGULAR OCCUPIED – Continued**

**51. Check Item**

Mark first box that applies.

**a. (See Control Card item 25.)**

- Respondent moved here after 1979 – Ask item 52a
- Other(s) but not respondent moved here after 1979 – Skip to item 59, page 11
- All moved in 1979 or earlier – Go to item 51b

**b. (See Control Card item 8b.)**

- Owned – Skip to item 73a, page 16
- Rented – Skip to item 64a, page 14
- No cash rent – Skip to item 64c, page 14

**52a. What are the reasons you moved from your last residence?**

(Mark all that apply.)

- 2030** \*  A private company or person wanted to use it for some purpose. WMPRIV
- Forced to leave by the government. WMGOVT
- Disaster loss (fire, flood, etc.) WMDISL
- New job or job transfer WMJOBS
- To be closer to work/school/other WMCLOS
- Other, financial/employment related WMFEMP
- 2040** \*  To establish own household WMONHH
- Needed larger house or apartment WMLARG
- Married, widowed, divorced, or separated WMMARR
- 2050** \*  Other, family/personal related WMFAML
- Wanted better quality house (apartment) WMQUAL
- Change from owner to renter OR renter to owner WMCHTN
- 2080** \*  Wanted lower rent or less expensive house to maintain WMCHEP
- Other housing related reasons WMHOUS
- Other – Specify \_\_\_\_\_ WMOTHR

**b. MARK if only one box checked in item 52a OR ASK if two or more boxes checked – What is the MAIN reason you moved?**

- 2070** \_\_\_\_\_ Number from item 52a
- All reasons of equal importance WHYMOVE

**53. Check Item (Mark first box that applies.)**

- Box 1 marked in item 52a – Ask item 54a
- Box 2 marked in item 52a – Skip to item 54b
- Boxes 1 and 2 blank in item 52a – Skip to item 54c

**54a. Did you leave –**

(1) Because the owner, or members of the owner's family were going to move into that residence?

- 2080**  Yes – Skip to item 55a, page 11
- No

WMOWNR

(2) Because that unit was going to become a condominium or cooperative?

- 2090**  Yes – Skip to item 55a, page 11
- No

WMCNDO

(3) Because that residence was closed for repairs?

- 2100**  Yes } Skip to item 55a, page 11
- No }

WMREPR

**b. Did you leave –**

(1) Because the government wanted to use the land or building for some other purpose?

- 2110**  Yes – Skip to item 55a, page 11
- No

WMGOVD

(2) Because that residence was condemned by the government as unfit for occupancy?

- 2120**  Yes } Skip to item 55a, page 11
- No }

WMNFIT

**c. In addition to the reasons given, did you leave –**

(1) Because a private company or person wanted to use it for some purpose?

- 2130**  Yes – Ask (2)
- No – Skip to (5)

(2) Was that because the owner or members of the owner's family were going to move into that residence?

- 2140**  Yes – Skip to item 55a, page 11
- No – Ask (3)

(3) Because it was going to be a condominium or cooperative?

- 2150**  Yes – Skip to item 55a, page 11
- No – Ask (4)

(4) Because it was closed for repairs?

- 2160**  Yes } Skip to item 55a, page 11
- No }

(5) Because the government forced you to leave?

- 2170**  Yes – Ask (6)
- No – Skip to item 55a, page 11

(6) Was that because the government wanted to use the land or building for some other purpose?

- 2180**  Yes – Skip to item 55a, page 11
- No – Ask (7)

(7) Because it was condemned by the government as unfit for occupancy?

- 2190**  Yes
- No

**REGULAR OCCUPIED - Continued**

**55a. When you were going to move, did you look for a (house/apartment) in any neighborhood other than this?** LOOKNS  
 2200 1  Yes  
 2  No

**b. Why did you choose this NEIGHBORHOOD?**

*(Write exact words and mark all that apply.)*

- |      |   |        |
|------|---|--------|
| 2210 | 1 <input type="checkbox"/> Convenient to job                      | WNJOB  |
| *    | 2 <input type="checkbox"/> Convenient to friends or relatives     | WNPEPL |
|      | 3 <input type="checkbox"/> Convenient to leisure activities       | WNFUN  |
|      | 4 <input type="checkbox"/> Convenient to public transportation    | WNTRAN |
|      | 5 <input type="checkbox"/> Good schools                           | WNSCH  |
|      | 6 <input type="checkbox"/> Other public services                  | WNSRV  |
| 2220 | 7 <input type="checkbox"/> Looks/design of neighborhood           | WNLOOK |
| *    | 8 <input type="checkbox"/> House was most important consideration | WNHOME |
|      | 9 <input type="checkbox"/> Other                                  | WNOTHR |

*MARK if only one box marked in item 55b OR ASK if two or more boxes marked -*

**c. What is the MAIN reason you chose this neighborhood?**

2230 \_\_\_\_\_ Box number from item 55b  
 0  All reasons of equal importance

WHYTON

**56a. Before you moved, did you look at both (houses/mobile homes) and apartments?** LOOKHS  
 2240 1  Yes  
 2  No  
 3  Looked at only this unit

**b. Why did you choose this particular (house/apartment)?**

*(Write exact words and mark all that apply.)*

- |      |  |       |
|------|--|-------|
| 2250 | 1 <input type="checkbox"/> Financial reasons       | WHFIN |
| *    | 2 <input type="checkbox"/> Room layout/design      | WHDSN |
|      | 3 <input type="checkbox"/> Kitchen                 | WHKIT |
|      | 4 <input type="checkbox"/> Size                    | WHSIZ |
|      | 5 <input type="checkbox"/> Exterior appearance     | WHEXT |
|      | 6 <input type="checkbox"/> Yard/trees/view         | WHRD  |
| 2260 | 7 <input type="checkbox"/> Quality of construction | WHQUL |
| *    | 8 <input type="checkbox"/> Only one available      | WHAVL |
|      | 9 <input type="checkbox"/> Other - Specify _____   | WHOTH |

*MARK if only one box marked in item 56b OR ASK if two or more boxes marked -*

**c. What is the MAIN reason you chose this (house/apartment)?**

2270 \_\_\_\_\_ Box number from item 56b  
 0  All reasons of equal importance

WHYTOH

**57. Is this neighborhood better, worse, or about the same as your last neighborhood?** XNRATE  
 2280 1  Better  
 2  Worse  
 3  About the same  
 4  Same neighborhood

**58. Is this (house/apartment) better, worse, or about the same as your last home?** XHRATE  
 2290 1  Better  
 2  Worse  
 3  About the same

**59. Check Item (See Control Card item 25.)**  
 Only one person moved in after 1979 - Skip to item 61b, page 12  
 Two or more persons moved in after 1979 - Ask item 60a

**60a. Earlier you told me that . . . (Specify names of movers) moved into this (house/apartment) after 1979. Did all of (you/them) move here from the same previous residence?** ALMV79  
 2300 1  Yes  
 2  No - Skip to item 61a, page 12

**b. INTERVIEWER INSTRUCTION (See Control Card item 26.)**

If all moved in within a 6-month period - Skip to item 61b, page 12

If people moved in more than 6 months apart - Put them in separate groups in item 61a on pages 12 and 13 and ask items 61b-m for each group.

**REGULAR OCCUPIED — Continued**

<p><b>61a. Which people moved here from the same previous residence?</b></p> <p><i>Enter line numbers of all people who come from first home mentioned under Group 1, the line numbers of all people who come from the second home mentioned under Group 2, etc. If people moved from same previous residence but more than 6 months apart, put them in separate groups. Then ask items 61b - m for each mover group.</i></p>	<p align="center">~ 6 1 4 ~</p> <p align="center"><b>GROUP 1</b></p> <p align="center">Line numbers</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%; text-align: center;">2310</td> <td style="width:10%;"></td> </tr> <tr> <td style="text-align: center;">2320</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">2330</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	2310										2320										2330									
2310																															
2320																															
2330																															
<p><b>b. What city, county, and State did . . . (Specify names in mover group) live in just before moving here?</b> <i>(Enter 2-character State code from flashcard.)</i></p>	<p>2340 0 <input type="checkbox"/> Outside U.S. — Skip to item 61n</p> <p align="center">~ 7 1 4 ~</p> <p>City or place</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td><td style="width:10%;"></td> </tr> </table> <p>County</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td><td style="width:10%;"></td> </tr> </table> <p>State</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td><td style="width:10%;"></td> </tr> </table>																														
<p><b>c. What was the ZIP Code?</b></p>	<p>XAZIP</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td><td style="width:10%;"></td> </tr> </table> <p align="right">ZIP Code</p>																														
<p><b>d. Did (you/they) live inside the incorporated limits of (City above)?</b></p>	<p>2380 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No or not incorporated place 3 <input type="checkbox"/> Don't know</p>																														
<p><b>e. OFFICE USE ONLY</b></p>	<p>2370</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td><td style="width:10%;"></td> </tr> </table> <p align="right">Zone code</p> <p align="right">Zone slope (if any)</p> <p>50 <input type="checkbox"/> Off map</p>																														
<p><b>f. Was that residence —</b> <i>(Read all answer categories.)</i></p>	<p align="center">~ 6 1 4 ~</p> <p>2380 1 <input type="checkbox"/> A house 2 <input type="checkbox"/> An apartment 3 <input type="checkbox"/> A mobile home 4 <input type="checkbox"/> Or some other type of residence? — Skip to item 61n.</p>																														
<p><b>g. Was that home —</b> <i>(Read all answer categories.)</i></p>	<p>2390 1 <input type="checkbox"/> Owned or being bought by someone in that household 2 <input type="checkbox"/> Rented for cash 3 <input type="checkbox"/> Occupied without payment of cash rent?</p>																														
<p><b>h. Was that part of a condominium or cooperative?</b></p>	<p>2400 3 <input type="checkbox"/> No . . . . . } Skip to item 61j 2 <input type="checkbox"/> Yes, condominium } 1 <input type="checkbox"/> Yes, cooperative }</p>																														
<p><b>i. To the Census Bureau, a cooperative is property which is owned by a corporation. Each shareholder is entitled to occupy an individual unit. Is this what you mean when you say this is a cooperative?</b></p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No — Reask item 61h and correct entry</p>																														
<p><b>j. How many people lived in that household just before the move?</b></p>	<p>2410</p> <p align="right">— If one, skip to item 61m; if more than one, ask item 61k</p>																														
<p><b>k. Was that home (owned/ rented) by someone who moved here?</b></p>	<p>2420</p> <p>1 <input type="checkbox"/> Yes — Skip to item 61m 2 <input type="checkbox"/> No</p>																														
<p><b>l. Was it (owned/rented) by a relative?</b></p>	<p>2430</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>																														
<p><b>m. When . . . (Specify names in mover group) moved, did (your/their) housing costs increase, decrease, or stay about the same, including utilities and (mortgage/rent)?</b> <i>(Compare their share, if not whole household.)</i></p>	<p>2440</p> <p>1 <input type="checkbox"/> Increased 2 <input type="checkbox"/> Stayed about same 3 <input type="checkbox"/> Decreased 4 <input type="checkbox"/> Don't know</p>																														
<p><b>n.</b></p>	<p>Go to next mover group. If none, go to item 62, page 14.</p>																														

**REGULAR OCCUPIED - Continued**

~6 15~ GROUP 2	~6 16~ GROUP 3	~6 17~ GROUP 4																		
Line numbers	Line numbers	Line numbers																		
2310 <table border="1" style="width:100%;"><tr><td style="width:60%;"></td><td style="width:40%;">XB1</td></tr><tr><td></td><td>XB2</td></tr><tr><td></td><td>XB3</td></tr></table>		XB1		XB2		XB3	2310 <table border="1" style="width:100%;"><tr><td style="width:60%;"></td><td style="width:40%;">XC1</td></tr><tr><td></td><td>XC2</td></tr><tr><td></td><td>XB3</td></tr></table>		XC1		XC2		XB3	2310 <table border="1" style="width:100%;"><tr><td style="width:60%;"></td><td style="width:40%;">XD1</td></tr><tr><td></td><td>XD2</td></tr><tr><td></td><td>XD3</td></tr></table>		XD1		XD2		XD3
	XB1																			
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	XC1																			
	XC2																			
	XB3																			
	XD1																			
	XD2																			
	XD3																			
2320	2320	2320																		
2330	2330	2330																		
2340 <input type="checkbox"/> Outside U.S. - Skip to item 61n	2340 <input type="checkbox"/> Outside U.S. - Skip to item 61n	2340 <input type="checkbox"/> Outside U.S. - Skip to item 61n																		
~7 15~	~7 16~	~7 17~																		
City or place	City or place	City or place																		
County	County	County																		
State	State	State																		
ZIP Code	ZIP Code	ZIP Code																		
2350 <b>Office use only</b>	2350 <b>Office use only</b>	2350 <b>Office use only</b>																		
2360 <input type="checkbox"/> Yes <input type="checkbox"/> No or not incorporated place <input type="checkbox"/> Don't know	2360 <input type="checkbox"/> Yes <input type="checkbox"/> No or not incorporated place <input type="checkbox"/> Don't know	2360 <input type="checkbox"/> Yes <input type="checkbox"/> No or not incorporated place <input type="checkbox"/> Don't know																		
2370 <input type="checkbox"/> Off map Zone code Zone alpha (if any)	2370 <input type="checkbox"/> Off map Zone code Zone alpha (if any)	2370 <input type="checkbox"/> Off map Zone code Zone alpha (if any)																		
~6 15~	~6 16~	~6 17~																		
XBUNIT	XCUNIT	XDUNIT																		
2380 <input type="checkbox"/> A house <input type="checkbox"/> An apartment <input type="checkbox"/> A mobile home <input type="checkbox"/> Or some other type of residence? - Skip to item 61n.	2380 <input type="checkbox"/> A house <input type="checkbox"/> An apartment <input type="checkbox"/> A mobile home <input type="checkbox"/> Or some other type of residence? - Skip to item 61n.	2380 <input type="checkbox"/> A house <input type="checkbox"/> An apartment <input type="checkbox"/> A mobile home <input type="checkbox"/> Or some other type of residence? - Skip to item 61n.																		
2390 <input type="checkbox"/> Owned or being bought by someone in that household XB TEN <input type="checkbox"/> Rented for cash <input type="checkbox"/> Occupied without payment of cash rent?	2390 <input type="checkbox"/> Owned or being bought by someone in that household XCTEN <input type="checkbox"/> Rented for cash <input type="checkbox"/> Occupied without payment of cash rent?	2390 <input type="checkbox"/> Owned or being bought by someone in that household XDTEN <input type="checkbox"/> Rented for cash <input type="checkbox"/> Occupied without payment of cash rent?																		
2400 <input type="checkbox"/> No } Skip to item 61j <input type="checkbox"/> Yes, condominium } <input type="checkbox"/> Yes, cooperative XBCOND	2400 <input type="checkbox"/> No } Skip to item 61j <input type="checkbox"/> Yes, condominium } <input type="checkbox"/> Yes, cooperative XCCOND	2400 <input type="checkbox"/> No } Skip to item 61j <input type="checkbox"/> Yes, condominium } <input type="checkbox"/> Yes, cooperative XDCOND																		
<input type="checkbox"/> Yes <input type="checkbox"/> No - Reask item 61h and correct entry	<input type="checkbox"/> Yes <input type="checkbox"/> No - Reask item 61h and correct entry	<input type="checkbox"/> Yes <input type="checkbox"/> No - Reask item 61h and correct entry																		
2410 _____ - If one, skip to item 61m; if more than one, ask item 61k XBPER	2410 _____ - If one, skip to item 61m; if more than one, ask item 61k XCPER	2410 _____ - If one, skip to item 61m; if more than one, ask item 61k XCPER																		
2420 <input type="checkbox"/> Yes - Skip to item 61m <input type="checkbox"/> No XBHEAD	2420 <input type="checkbox"/> Yes - Skip to item 61m <input type="checkbox"/> No XCHEAD	2420 <input type="checkbox"/> Yes - Skip to item 61m <input type="checkbox"/> No XDHEAD																		
2430 <input type="checkbox"/> Yes <input type="checkbox"/> No XBREL	2430 <input type="checkbox"/> Yes <input type="checkbox"/> No XCREL	2430 <input type="checkbox"/> Yes <input type="checkbox"/> No XDREL																		
2440 <input type="checkbox"/> Increased <input type="checkbox"/> Stayed about same <input type="checkbox"/> Decreased <input type="checkbox"/> Don't know XBCOST	2440 <input type="checkbox"/> Increased <input type="checkbox"/> Stayed about same <input type="checkbox"/> Decreased <input type="checkbox"/> Don't know XCCOST	2440 <input type="checkbox"/> Increased <input type="checkbox"/> Stayed about same <input type="checkbox"/> Decreased <input type="checkbox"/> Don't know XDCOST																		
Go to next mover group. If none, go to item 62, page 14.	Go to next mover group. If none, go to item 62, page 14.	Go to next mover group. If none, go to item 62, page 14.																		

**REGULAR OCCUPIED — Continued**

**62. INTRODUCTION: The next questions are about your current residence.**

**63. Check Item (See Control Card item 8b.)**  
 Current residence is —  
 Owned — Skip to item 73a, page 16  
 Rented — Go to item 64a  
 No cash rent — Skip to item 64c

<b>64a. How often is the rent due?</b>	6 1 1	2500 _____ Times per year	FRENT
		12 <input type="checkbox"/> Monthly	
<b>b. How much is the rent?</b> <i>(If parking priced separately, exclude it here and mark NO to items 64m and 64n without asking.)</i>		2510 \$ _____ 00	RENT
<b>c. Check Item (See item 23, page 3.)</b>			ASKED OF MOBILE HOMES
<input type="checkbox"/> One-unit mobile home or two-or-more-unit mobile home — Ask item 64d <input type="checkbox"/> Not a mobile home — Skip to item 64m			
<b>d. Do you pay separate rent for the land?</b>	2511	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to item 64g	INCS
<b>e. How many times a year is the (land/site) rent due?</b>	2512	_____ Times per year 12 <input type="checkbox"/> Monthly	FRENT
<b>f. What is the cost each . . . (Billing period)?</b>	2513	\$ _____ 00 0 <input type="checkbox"/> No cash rent 9997 <input type="checkbox"/> Included in mobile home park fee	LRENT
<b>g. (----/In addition to the land rent), do you pay any (----/additional) mobile home park fee?</b>	3550	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to item 64j	IFPFE
<b>h. How many times a year is the fee due?</b>	3555	_____ Times per year 12 <input type="checkbox"/> Monthly	CAMF
<b>i. What is the cost each . . . (Billing period)?</b>	3600	\$ _____ 00 0 <input type="checkbox"/> Included in mobile home rent	CONFEE
<b>j. Are there any (----/other) required fees for utility hookups, mobile home association fees, and so forth?</b>	6 1 1	2517 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to item 64m	IFOTHF
<b>k. How many times a year are the fees due?</b>	2518	_____ Times per year 12 <input type="checkbox"/> Monthly	FMOTFE
<b>l. What is the average cost each . . . (Billing period) for those fees?</b>	2519	\$ _____ 00	MHOTFE ASKED OF ALL
<b>m. Is a garage or carport included (in the rent/with the home)?</b>	2520	1 <input type="checkbox"/> Yes — Skip to item 65a, page 15 2 <input type="checkbox"/> No	GARAGE
<b>n. Is an offstreet parking space included?</b>	2530	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	INCP

Notes

**REGULAR OCCUPIED – Continued**

<b>65a. Is the building owned by a public housing authority?</b>	<b>2540</b>	1 <input type="checkbox"/> Yes – Skip to item 66 2 <input type="checkbox"/> No	PROJ
<b>b. Does the Federal Government pay some of the cost of the unit?</b>	<b>2550</b>	1 <input type="checkbox"/> Yes – Skip to item 66 2 <input type="checkbox"/> No	SUB
<b>c. Does the State or local government pay some of the cost of the unit?</b>	<b>2560</b>	1 <input type="checkbox"/> Yes – Skip to item 66 2 <input type="checkbox"/> No	SUBLOC
<b>d. Do (you/the people living here) have to report the household's income to someone every year so they can set the rent?</b>	<b>2570</b>	1 <input type="checkbox"/> Yes – Skip to item 66 2 <input type="checkbox"/> No	SUBINC
<b>e. Is there rent control on the unit?</b>	<b>2580</b>	1 <input type="checkbox"/> Yes – Skip to item 66 2 <input type="checkbox"/> No	RCNTRL
<b>f. Is the rent adjusted because someone in the household works for or is related to the owner?</b>	<b>2590</b>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	RNTADJ

<b>66. Check Item (See item 23, page 3.)</b> <input type="checkbox"/> One-unit mobile home or two-or-more-unit mobile home – Skip to item 68 <input type="checkbox"/> Not a mobile home – Ask item 67	ASKED OF NON-MOBILE HOMES
---	------------------------------

<b>67. About when was the building originally built?</b>	<b>2910</b>	<input type="checkbox"/> 1980 or later → Month      Year [ ] [ ]      [ ] [ ] } Skip to item 70	BUILT
	<b>2910</b>	1 <input type="checkbox"/> 1979 2 <input type="checkbox"/> 75–78 3 <input type="checkbox"/> 70–74 4 <input type="checkbox"/> 60–69 5 <input type="checkbox"/> 50–59 6 <input type="checkbox"/> 40–49 7 <input type="checkbox"/> 30–39 8 <input type="checkbox"/> 20–29 9 <input type="checkbox"/> 1919 or earlier } Skip to item 71, page 16	ASKED OF MOBILE HOMES (RENTED)

<b>68. Excluding the dealer's lot, is this the first site on which this mobile home was placed?</b>	<b>2900</b>	1 <input type="checkbox"/> Yes, first site 2 <input type="checkbox"/> No, moved from another site 3 <input type="checkbox"/> Don't know	↓ FRSIT
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<b>69. What is the model year of the mobile home?</b>	<b>2910</b>	<input type="checkbox"/> 1980 or later → Year [ ] [ ] } Ask item 70	BUILT
	<b>2910</b>	1 <input type="checkbox"/> 1979 2 <input type="checkbox"/> 75–78 3 <input type="checkbox"/> 70–74 4 <input type="checkbox"/> 60–69 5 <input type="checkbox"/> 50–59 6 <input type="checkbox"/> 40–49 7 <input type="checkbox"/> 1939 or earlier } Skip to item 71, page 16	

<b>70. Were you the first (person/people) to occupy this home or did someone else live here before you?</b> (newer homes after 1980)	<b>2920</b>	1 <input type="checkbox"/> First occupants 2 <input type="checkbox"/> Previously occupied	FRSTOC
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Notes

**REGULAR OCCUPIED — Continued**

**71.** Check Item (See item 23, page 3.)

- Two-or-more-unit building or two-or-more-unit mobile home — Skip to item 109a, page 24  
 All others — Ask item 72a

**72a.** How large is the (lot/site)?

(Include all connecting land that is owned or that is rented with the home.)

(If over 1 acre, drop any fractions, don't round up. If under one acre, convert to approximate square feet.)

- One eighth acre = 5500 sq. ft.  
 Quarter acre = 11000 sq. ft.  
 One third acre = 14000 sq. ft.  
 Half acre = 22000 sq. ft.  
 Three quarters acre = 33000 sq. ft.  
 One acre = 44000 sq. ft.

**2980** \_\_\_\_\_ Square feet

OR

LOTSF

**2990** \_\_\_\_\_ Feet by

**3000** \_\_\_\_\_ feet

OR

**3010** \_\_\_\_\_ Whole acres

Don't know — Ask item 72b

MARK OR ASK —

**b.** Is it more than 10 acres?

**3020**

Yes

No

} Skip to item 109a, page 24

LOT

**NOTE** — Ask all categories in item 73a before proceeding to item 73b.

**NOTE** — Ask item 73b only for those categories in item 73a which were answered "Yes".

**73a.** These questions are about major repairs, improvements or alterations made to the (house/apartment) in the last 2 years. (Count work only once; include work in progress.) (While living here if less than 2 years)

**b.** Did someone in the household do most of the work on ... (Specify type of work reported in item 73a)

**c.** How much did the job cost (---/not counting household members' time)? (Include materials and labor.)

**(1)** Was all or part of the roof replaced in the last 2 years?  
**2660**  Yes, all  
            Yes, part  
            No

**NEWROF**

**HHROF**

**2655**  Yes } Ask c  
            No }

**2660** \$ \_\_\_\_\_ **CSTROF**  00  
 No cost

**(2)** Were any additions built?  
**2670**  Yes  
            No

**NEWADD**

Yes } Ask c  
 No }

**2680** \$ \_\_\_\_\_ **CSTADD**  00  
 No cost

**(3)** Was the kitchen remodeled or a kitchen added?  
**2690**  Yes  
            No

**NEWKIT**

Yes } Ask c  
 No }

**2700** \$ \_\_\_\_\_ **CSTKIT**  00  
 No cost

**(4)** Were any bathrooms remodeled or added?  
**2710**  Yes  
            No

**NEWBTH**

Yes } Ask c  
 No }

**2720** \$ \_\_\_\_\_ **CSTBTH**  00  
 No cost

**(5)** Was any siding replaced or added in the last 2 years?  
**2730**  Yes  
            No

**NEWSID**

Yes } Ask c  
 No }

**2740** \$ \_\_\_\_\_ **CSTSID**  00  
 No cost

**(6)** Were any new storm doors or storm windows bought and installed?  
**2750**  Yes  
            No

**NEWSDW**

Yes } Ask c  
 No }

**2760** \$ \_\_\_\_\_ **CSTSDW**  00  
 No cost

**(7)** Was any major equipment, such as a furnace or central air conditioning replaced or added?  
**2770**  Yes  
            No

**NEWMEQ**

Yes } Ask c  
 No }

**2780** \$ \_\_\_\_\_ **CSTMEQ**  00  
 No cost

**(8)** Was insulation added?  
**2790**  Yes  
            No

**NEWIN**

Yes } Ask c  
 No }

**2800** \$ \_\_\_\_\_ **NEWCST**  00  
 No cost

**(9)** Were any (---/other) major repairs, or improvements, over \$500 each done in the last 2 years?  
**2810**  Yes  
            No

**OTHFIX**

Yes } Ask c  
 No }

**2820** \$ \_\_\_\_\_ **CSTFIX**  00  
 No cost

**NOTE** — If "Yes" was answered for one or more categories in item 73a, ask item 73b.

**74.** Check Item (See item 73a.)

- At least one "Yes" marked in item 73a — Ask item 75  
 All "No" in item 73a — Skip to item 76

**75.** Did the household get a low interest loan or grant from a government program to help pay for making any of these repairs or alterations to your home?

**2830**

Yes

No

SUBFIX

**REGULAR OCCUPIED – Continued**

**76. In just the last YEAR, how much was spent on routine maintenance such as painting, repairs, etc.? (---/Exclude anything already mentioned.) (Exclude housecleaning.)**

2840 \$ \_\_\_\_\_ 00 CSTMNT  
 Nothing

**77. Check Item (See item 23, page 3.)**

One-unit mobile home or two-or-more-unit mobile home – Skip to item 79  
 Not a mobile home – Ask item 78

ASKED OF NON-MOBILE HOME OWNERS

**78. About when was the building originally built?**

2910  1980 or later → BUILT

Month Year } Skip to item 81

2910 1  1979  
 2  75–78  
 3  70–74  
 4  60–69  
 5  50–59 } Skip to item 82a  
 6  40–49  
 7  30–39  
 8  20–29  
 9  1919 or earlier

ASKED OF MOBILE HOMES (OWNED)

**79. Excluding the dealer's lot, is this the first site on which this mobile home was placed?**

2900 1  Yes, first site  
 2  No, moved from another site  
 3  Don't know

FRSIT

**80. What is the model year of the mobile home?**

2910  1980 or later → BUILT

Year } Ask item 81

2910 1  1979  
 2  75–78  
 3  70–74  
 4  60–69  
 5  50–59 } Skip to item 82a  
 6  40–49  
 7  1939 or earlier

**81. Were you the first (person/people) to occupy this home or did someone else live here before you?**

2920 1  First occupants  
 2  Previously occupied

FRSTOC

**82a. When did this household buy the (house/apartment)?**  
*(If land and building bought at different times, building only)*

2930 1 9 Year – Skip to item 82c BUYR

2930 1  Owner built it or had it built – Skip to item 82c  
 2  Received as inheritance or gift

**b. In what year did this household (inherit/receive) the home?**

2940 1 9 Year – Skip to item 82e WHNRCV

**c. What was the price?**  
*(Exclude closing costs.) (For mobile homes, exclude value of the land.)*

2950 \$ \_\_\_\_\_ 00 LPRICE

**d. Was the main source of the down payment the sale of a previous home, savings, or something else?**  
*(If bought outright, enter main source of full payment.)*

2960 1  Sale of previous home if sold during 12 months prior to purchase of new home – DWNPAY  
 Skip to item 83a, page 18  
 2  Savings or cash on hand  
 3  Sale of other investment  
 4  Borrowing, other than a mortgage on this property  
 5  Inheritance or gift  
 6  Land where building was built used for financing  
 7  Other – Specify \_\_\_\_\_  
 8  No down payment made

**e. (Have any of the owners now living here/Have you) ever owned a home before?**

2970 1  Yes  
 2  No

FRSTHO

**REGULAR OCCUPIED – Continued**

<b>83. Check Item</b>			
<b>a. (See item 25a, page 3.)</b>			
<input type="checkbox"/> Condominium or cooperative – Skip to item 87a			
<input type="checkbox"/> Not a condominium or cooperative – Go to item 83b			
<b>b. (See item 23, page 3.)</b>			
<input type="checkbox"/> One-unit building – Ask item 84a		ASKED IF OWNED	
<input type="checkbox"/> One-unit mobile home – Skip to item 88a, page 19		1 UNIT ON < 10 ACRES	
<input type="checkbox"/> Two-or-more-unit building or two-or-more-unit mobile home – Skip to item 86e		↓	
<b>84a. How large is the (lot/site)?</b>			
<i>(Include all connecting land that is owned or that is rented with the home.)</i>		2980 _____	Square feet
<i>(If over 1 acre, drop any fractions, don't round up. If under one acre, convert to approximate square feet.)</i>		OR	
One-eighth acre = 5500 sq. ft.		2990 _____	Feet by
Quarter acre = 11000 sq. ft.		3000 _____	feet
One-third acre = 14000 sq. ft.		OR	
Half acre = 22000 sq. ft.		3010 _____	Whole acres
Three-quarters acre = 33000 sq. ft.			
One acre = 44000 sq. ft.			
o <input type="checkbox"/> Don't know – Ask item 84b			
<b>b. MARK OR ASK –</b>			
<b>Is it more than 10 acres?</b>		3020	1 <input type="checkbox"/> Yes – Skip to item 86a
			2 <input type="checkbox"/> No
LOT			
<b>c. Is there a commercial establishment on the property?</b>			
		3030	1 <input type="checkbox"/> Yes – Skip to item 85a
			2 <input type="checkbox"/> No
SHOPS			
<b>d. Is there a medical or dental office on the property?</b>			
		3040	1 <input type="checkbox"/> Yes – Skip to item 85b
			2 <input type="checkbox"/> No
DOCS			
<b>e. How much do you think the house and lot would sell for on today's market?</b>			
		3100	\$ _____ 00 Skip to item 89a, page 19
VALUE			
<b>85a. Is there a medical or dental office on the property?</b>			
		3040	1 <input type="checkbox"/> Yes
			2 <input type="checkbox"/> No
DOCS			
<b>b. How much do you think the house, (business/medical office) and lot would sell for on today's market?</b>			
		3080	\$ _____ 00
PVALUE			
<b>c. What is the value of the residential portion of this property?</b>			
		3100	\$ _____ 00 Skip to item 89a, page 19
VALUE			
<b>86a. Is there a commercial establishment on the property?</b>			
		3030	1 <input type="checkbox"/> Yes
			2 <input type="checkbox"/> No
1 UNIT > 10 ACRES			
SHOPS			
<b>b. Is there a medical or dental office on the property?</b>			
		3040	1 <input type="checkbox"/> Yes
			2 <input type="checkbox"/> No
DOCS			
<b>c. How much do you think the house and (Acreage from item 84a/all the land) would sell for on today's market?</b>			
		3080	\$ _____ 00
PVALUE			
<b>d. How much do you think the house and its (lot/yard) would sell for on today's market?</b>			
		3100	\$ _____ 00 Skip to item 89a, page 19
VALUE			
<b>e. Is there a commercial establishment on the property?</b>			
		3030	1 <input type="checkbox"/> Yes
			2 <input type="checkbox"/> No
MULTIFAMILY			
SHOPS			
<b>f. Is there a medical or dental office on the property?</b>			
		3040	1 <input type="checkbox"/> Yes
			2 <input type="checkbox"/> No
DOCS			
<b>g. How much do you think the entire building and property would sell for on today's market?</b>			
		3080	\$ _____ 00
PVALUE			
<b>h. How much of that would apply to the apartment only?</b>			
		3100	\$ _____ 00 Skip to item 89a, page 19
VALUE			
<b>87a. Is there a commercial establishment on the property?</b>			
		3030	1 <input type="checkbox"/> Yes
			2 <input type="checkbox"/> No
CONDOS			
SHOPS			
<b>b. Is there a medical or dental office on the property?</b>			
		3040	1 <input type="checkbox"/> Yes
			2 <input type="checkbox"/> No
DOCS			
<b>c. How much do you think the apartment would sell for on today's market?</b>			
		3100	\$ _____ 00 Skip to item 89a, page 19
VALUE			

**REGULAR OCCUPIED — Continued**

SINGLE OWNED MH'S

<p><b>88a. How large is the (lot/site)?</b>  <i>(Include all connecting land that is owned or that is rented with the home.)</i>                  If over one acre, drop any fractions, don't round up.                  If under one acre, convert to approximate square feet.</p> <p>One-eighth acre = 5500 sq. ft.                  Quarter acre = 11000 sq. ft.                  One-third acre = 14000 sq. ft.                  Half acre = 22000 sq. ft.                  Three-quarters acre = 33000 sq. ft.                  One acre = 44000 sq. ft.</p>	<p>2980 _____ Square feet                  OR                  2990 _____ Feet by                  3000 _____ feet                  OR                  3010 _____ Whole acres</p> <p>0 <input type="checkbox"/> Don't know — Ask item 88b</p>	<p>LOTSF</p>
<p><b>MARK OR ASK —</b></p> <p><b>b. Is it more than 10 acres?</b></p>	<p>3020 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	<p>LOT</p>
<p><b>c. Is there a commercial establishment on the property?</b></p>	<p>3030 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	<p>SHOPS</p>
<p><b>d. Is there a medical or dental office on the property?</b></p>	<p>3040 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	<p>DOCS</p>
<p><b>e. How much do you think the mobile home would sell for on today's market?</b>  <i>(Do not include the value of the land.)</i></p>	<p>3100 \$ _____ 00</p>	<p>VALUE</p>
<p><b>f. Do you own the land?</b></p>	<p>3140 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No — Skip to item 89a</p>	<p>OWNLOT</p>
<p><b>g. How much do you think the land would sell for on today's market?</b></p>	<p>3150 \$ _____ 00</p>	<p>LVALUE                  ALL OWNERS</p>
<p>↓</p>		
<p><b>89a. Is a garage or carport included with your home?</b></p>	<p>611 1 <input type="checkbox"/> Yes — Skip to item 90                  2 <input type="checkbox"/> No</p>	<p>GARAGE</p>
<p><b>b. Is an offstreet parking space included?</b></p>	<p>2530 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	<p>INCP</p>
<p><b>90. Is the ownership of the (house/apartment) shared with anyone NOT living here?</b></p>	<p>3180 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	<p>NROWNR</p>
<p><b>91. Does anyone not living here pay some of the mortgage or utility costs?</b></p>	<p>3190 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	<p>NRPAYM</p>
<p><b>The next questions are about mortgages or other loans that are secured by the property. You may check your records if you wish.</b></p>		
<p><b>92. Is there a mortgage or other loan on this (house/apartment)?</b>  <i>(Include "Land contracts" and other loans SECURED BY THE PROPERTY.)</i></p>	<p>3200 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No — (If response to item 91 was "Yes" probe to see if there is a mortgage.) Skip to item 98a, page 22</p>	<p>MORT</p>
<p><b>93. Did you get your mortgage through a State or local government program that provides lower cost mortgages?</b></p>	<p>3210 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	<p>SUBMOR</p>
<p><b>94. Check Item (See Control Card items 13 and 17.)</b></p> <p><input type="checkbox"/> Respondent is an owner or owner's spouse — Ask item 95, page 20  <input type="checkbox"/> Respondent is not an owner or owner's spouse — Callback required — mark item 9, page 1; then skip to item 98a, page 22</p>		
<p>Notes</p>		

**REGULAR OCCUPIED - Continued**

<b>95. How many mortgages are there now on the home/property?</b>	3220 _____ Number of mortgages	NUMMOR
<b>96a. Did you get the current (first/second) mortgage the same year you bought your home?</b>	FIRST (MORTGAGE/LOAN)	SECOND (MORTGAGE/LOAN)
	~618~ 3230 1 <input type="checkbox"/> Yes MATBUY 2 <input type="checkbox"/> No - Skip to item 96e	~619~ 3230 1 <input type="checkbox"/> Yes MATBY2 2 <input type="checkbox"/> No - Skip to item 96e
<b>b. With regard to the (first/second) mortgage, did you get a new mortgage or did you assume someone else's mortgage?</b>	3240 1 <input type="checkbox"/> New - Skip to item 96f 2 <input type="checkbox"/> Assumed 3 <input type="checkbox"/> Wrap-around - Skip to item 96f NEWMOR	3240 1 <input type="checkbox"/> New - Skip to item 96f 2 <input type="checkbox"/> Assumed 3 <input type="checkbox"/> Wrap-around - Skip to item 96f NEWMR2
<b>c. How much was left to pay off when you assumed it?</b>	AMMORT 3250 \$ _____ 00	AMMRT2 3250 \$ _____ 00
<b>d. How many years remained on the mortgage then?</b>	TERM 3260 _____ Years - Skip to item 96i	TERM2 3260 _____ Years - Skip to item 96i
<b>e. What year did you get the mortgage?</b>	YRMOR 3280 1 9 _____ Year	YRMOR2 3280 1 9 _____ Year
<b>f. When you first obtained THIS mortgage, how many years was it for?</b>	TERM 3290 _____ Years - If less than 15, ask item 96g; if 15 or more, skip to item 96h 0 <input type="checkbox"/> Can vary - Ask item 96g	TERM2 3290 _____ Years - If less than 15, ask item 96g; if 15 or more, skip to item 96h 0 <input type="checkbox"/> Can vary - Ask item 96g
<b>g. At your current payments, how long would it take to pay off the loan?</b>	AMRTZ 3300 _____ Years	AMRTZ2 3300 _____ Years
<b>h. How much was borrowed?</b>	AMMORT 3310 \$ _____ 00	AMMRT2 3310 \$ _____ 00
<b>i. Does this mortgage cover -</b> (1) Other homes or apartments besides this one?	PINCOP 3320 1 <input type="checkbox"/> Yes - Skip to item 96j 2 <input type="checkbox"/> No	PINCO2 3320 1 <input type="checkbox"/> Yes - Skip to item 96j 2 <input type="checkbox"/> No
(2) Farm land?	3330 1 <input type="checkbox"/> Yes - Skip to item 96j MFARM 2 <input type="checkbox"/> No	3330 1 <input type="checkbox"/> Yes - Skip to item 96j MFARM2 2 <input type="checkbox"/> No
(3) A business on this property?	3340 1 <input type="checkbox"/> Yes MCOM 2 <input type="checkbox"/> No - Skip to item 96k	3340 1 <input type="checkbox"/> Yes MCOM2 2 <input type="checkbox"/> No - Skip to item 96k
<b>j. How much of the ... (Amount in item 96c or h) applies just to your home?</b>	RESMOR 3350 \$ _____ 00	RESMR2 3350 \$ _____ 00
<b>k. What is the current interest rate on the mortgage?</b> (Annual percentage rate) (Round down to nearest 1/4)	INT Whole number 3360 _____ Plus Fraction 3370 0 <input type="checkbox"/> No fraction 2 <input type="checkbox"/> 1/2 1 <input type="checkbox"/> 1/4 3 <input type="checkbox"/> 3/4	INT2 Whole number 3360 _____ Plus Fraction 3370 0 <input type="checkbox"/> No fraction 2 <input type="checkbox"/> 1/2 1 <input type="checkbox"/> 1/4 3 <input type="checkbox"/> 3/4
<b>l. What is the current monthly payment?</b>	PMT 3380 \$ _____ 00	PMT2 3380 \$ _____ 00
<b>m. Besides principal and interest, does this payment include -</b> (1) Property taxes?	TAXPMT 3390 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	TXPMT2 3390 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
(2) Homeowner's insurance?	INSPMT 3400 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	INPMT2 3400 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
(3) Anything else?	OTHPMT 3410 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 96n, page 21	OTPMT2 3410 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 96n, page 21
(4) How much were the other charges last year? (Do not include property taxes or homeowner's insurance.)	AMTM 3420 \$ _____ 00	AMTM2 3420 \$ _____ 00

**REGULAR OCCUPIED - Continued**

	FIRST (MORTGAGE/LOAN)	SECOND (MORTGAGE/LOAN)
<b>96n. Is the mortgage an FHA mortgage, a VA mortgage, a Farmer's Home Administration mortgage, or some other mortgage?</b>	~618 MORTIN1	~619 MORTIN2
	3430 1 <input type="checkbox"/> FHA (Federal Housing Administration) } Skip to item 96q 2 <input type="checkbox"/> VA (Veterans' Administration) } 3 <input type="checkbox"/> Farmer's Home Administration - Go to item 96s 4 <input type="checkbox"/> Some other mortgage 5 <input type="checkbox"/> Don't know	3430 1 <input type="checkbox"/> FHA (Federal Housing Administration) } Skip to item 96q 2 <input type="checkbox"/> VA (Veterans' Administration) } 3 <input type="checkbox"/> Farmer's Home Administration - Go to item 96s 4 <input type="checkbox"/> Some other mortgage 5 <input type="checkbox"/> Don't know
<b>o. Did you borrow the money from a bank or other organization, OR did you borrow it from an individual?</b>	3440 1 <input type="checkbox"/> Bank or other organization - Skip to item 96q BANK 2 <input type="checkbox"/> Individual	3440 1 <input type="checkbox"/> Bank or other organization - Skip to item 96q BANK2 2 <input type="checkbox"/> Individual
<b>p. Was that the former owner of the home?</b>	3450 1 <input type="checkbox"/> Yes SELL 2 <input type="checkbox"/> No	3450 1 <input type="checkbox"/> Yes SELL2 2 <input type="checkbox"/> No
<b>q. Are the payments on this loan the same during the whole length of the mortgage?</b>	3460 1 <input type="checkbox"/> Yes - Skip to item 96s VARY 2 <input type="checkbox"/> No	3460 1 <input type="checkbox"/> Yes - Skip to item 96s VARY2 2 <input type="checkbox"/> No
<b>r. How do they change? (Mark all that apply.)</b>	3470 * ARM 1 <input type="checkbox"/> Change in taxes or insurance, or due to decline in principal balance Do they change for any other reason? <input type="checkbox"/> Yes - Mark box 2, 3, 4, 5 and/or 7 <input type="checkbox"/> No - Go to item 96s 2 <input type="checkbox"/> Change based on interest rates YARM 3 <input type="checkbox"/> Rise at fixed schedule during part of loan GPM 4 <input type="checkbox"/> Rise at fixed schedule during whole length of loan GPMW 5 <input type="checkbox"/> Last payment biggest BLOON 7 <input type="checkbox"/> Other - Specify (if box 5 marked above, ask) - Of the total amount you borrowed, what percentage will have to be paid off in this last payment? 3480 1 <input type="checkbox"/> 1-25 percent LOON 2 <input type="checkbox"/> 26-50 3 <input type="checkbox"/> 51-75 4 <input type="checkbox"/> 76-100	3470 * ARM2 1 <input type="checkbox"/> Change in taxes or insurance, or due to decline in principal balance Do they change for any other reason? <input type="checkbox"/> Yes - Mark box 2, 3, 4, 5 and/or 7 <input type="checkbox"/> No - Go to item 96s 2 <input type="checkbox"/> Change based on interest rates VARM2 3 <input type="checkbox"/> Rise at fixed schedule during part of loan GPM2 4 <input type="checkbox"/> Rise at fixed schedule during whole length of loan GPMW2 5 <input type="checkbox"/> Last payment biggest BLOON2 7 <input type="checkbox"/> Other - Specify (if box 5 marked above, ask) - Of the total amount you borrowed, what percentage will have to be paid off in this last payment? 3480 1 <input type="checkbox"/> 1-25 percent LOON2 2 <input type="checkbox"/> 26-50 3 <input type="checkbox"/> 51-75 4 <input type="checkbox"/> 76-100
<b>s. Check item (See item 95, page 20.)</b>	<input type="checkbox"/> One mortgage - Skip to item 98a, page 22 <input type="checkbox"/> Two or more mortgages - Go back to item 96a	<input type="checkbox"/> Only two mortgages - Skip to item 98a, page 22 <input type="checkbox"/> Three or more mortgages - Ask item 97a
<b>97a. For the (third mortgage/other mortgages), how much did you borrow?</b>	~611 3490 \$ _____ 00	AMMRT3
<b>b. What is your current monthly payment for the (third mortgage/other mortgages)?</b>	3500 \$ _____ 00	PMT3
<b>Notes</b>		

**REGULAR OCCUPIED - Continued**

**106.** In some parts of the country people own their homes but rent the land. Do you pay rent for the land? OWNLOT

**3610** 1  Yes  
2  No - Skip to item 109a

**107.** Check Item (See item 92, page 19.)

Yes, mortgage - Ask item 108a  
 No mortgage - Skip to item 108b

**108a.** Is the land rent included with the mortgage payment? LANEPM

**3620** 1  Yes - Skip to item 109a  
2  No

**b.** How many times a year is the land rent due? FLRENT

**3630** \_\_\_\_\_ Times per year  
12  Monthly

**c.** What does it cost each time? LRENT

**3640** \$ \_\_\_\_\_ **00**

**109a.** Does this household have (homeowner's/household property) insurance? BUYI

**3660** 1  Yes  
2  No - Skip to item 110a

**b.** In the past 12 months what was the total cost? AMTI

**3660** \$ \_\_\_\_\_ **00**

Now I have some questions about utility costs for this unit. You may check your records if you wish. When two or more utilities are billed together, try to determine the cost of each.

**110a.** In the past 12 months what was the average MONTHLY cost for electricity? AMTE

**3670** \$ \_\_\_\_\_ **00** per month - If "All electric home," mark "Not used" in items 110b and d without asking

**3680** 1  Not used  
2  Included in rent, site rent, condominium or other fee, etc.  
3  Obtained free BUYE

**b.** In the past 12 months what was the average MONTHLY cost for gas? (1) (2)

**3690** \$ \_\_\_\_\_ **00** per month, OR **3710** \*  
**3700** 1  Not used - Skip to item 110d  
2  Included in rent, site rent, condominium, or other fee, etc. BILLGT  
3  Obtained free BUYG BILLGW  
Billed with - (Mark all that apply.)  
1  Electricity BILLGE  
2  Fuel oil BILLGF  
3  Other fuel BILLGO  
4  Garbage and trash  
5  Water and sewage

**c.** Is the gas from underground pipes or bottled gas? GASPIP

**3720** 1  Underground pipes serving neighborhood  
2  Bottled gas

**d.** In the past 12 months what was the total ANNUAL cost for fuel oil? AMTO

**3730** \$ \_\_\_\_\_ **00** per year, OR **3750** \*  
**3740** 1  Not used  
2  Included in rent, site rent, condominium, or other fee  
3  Obtained free BUYO  
Billed with - (Mark all that apply.)  
1  Electricity BILLOE  
2  Gas BILLOG  
3  Other fuel BILLOF  
4  Garbage and trash  
5  Water and sewage

**e.** In the past 12 months what was the total ANNUAL cost for wood, coal, kerosene, or any other fuel? AMTF

**3760** \$ \_\_\_\_\_ **00** per year, OR **3780** \*  
**3770** 1  Not used  
2  Included in rent, site rent, condominium, or other fee  
3  Obtained free BUYF  
Billed with - (Mark all that apply.)  
1  Electricity BILLFE  
2  Gas BILLFG  
3  Fuel oil BILLFO  
4  Garbage and trash  
5  Water and sewage

**f.** In the past 12 months what was the total ANNUAL cost for garbage and trash collection? AMTT

**3790** \$ \_\_\_\_\_ **00** per year, OR **3810** \*  
**3800** 1  Not used  
2  Included in real estate taxes, rent, site rent, condominium, or other fee  
3  Obtained free BUYT  
Billed with - (Mark all that apply.)  
1  Electricity BILLTE  
2  Gas BILLTG  
3  Fuel oil BILLTO  
4  Other fuel BILLTF  
5  Water and sewage

**g.** In the past 12 months what was the total ANNUAL cost for water supply and sewage disposal? AMTW

**3820** \$ \_\_\_\_\_ **00** per year, OR **3840** \*  
**3830** 2  Included in real estate taxes, rent, site rent, condominium, or other fee  
3  Obtained free BUYW  
Billed with - (Mark all that apply.)  
1  Electricity BILLWE  
2  Gas BILLWG  
3  Fuel oil BILLWO  
4  Other fuel BILLWF  
5  Garbage and trash



**REGULAR OCCUPIED - Continued**

**114.** One of the main housing problems today is the total cost of housing compared to income. The next few questions are about income.

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

*(Obtain income for reference person and all household members age 14 + RELATED TO REFERENCE PERSON by blood, marriage, or adoption.)*

Line No.	Amount
3940 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	3950 \$ SAL1 <input type="text"/> <input type="text"/>
PLINE	<input type="checkbox"/> None
3960 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	3970 \$ SAL2 <input type="text"/> <input type="text"/>
PLINE2	<input type="checkbox"/> None
3980 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	3990 \$ SAL3 <input type="text"/> <input type="text"/>
PLINE3	<input type="checkbox"/> None
4000 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	4010 \$ SAL4 <input type="text"/> <input type="text"/>
PLINE4	<input type="checkbox"/> None
4020 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	4030 \$ SAL5 <input type="text"/> <input type="text"/>
PLINE5	<input type="checkbox"/> None
4040 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	4050 \$ SAL6 <input type="text"/> <input type="text"/>
PLINE6	<input type="checkbox"/> None
4060 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	4070 \$ SAL7 <input type="text"/> <input type="text"/>
PLINE7	<input type="checkbox"/> None
4080 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	4090 \$ SAL8 <input type="text"/> <input type="text"/>
PLINE8	<input type="checkbox"/> None
4100 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	4110 \$ SAL9 <input type="text"/> <input type="text"/>
PLINE9	<input type="checkbox"/> None
4120 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	4130 \$ SAL10 <input type="text"/> <input type="text"/>
PLINE10	<input type="checkbox"/> None

**115a.** In the past 12 months did . . . , . . . , or . . . (Specify names for line numbers in item 114) -

Question	Yes	No	Code	
(1) Have a business, farm or ranch? <input type="checkbox"/> 4140	<input type="checkbox"/> Yes	<input type="checkbox"/> No	QBUS	
(2) Receive social security or pensions? (Social security checks are green. Do not count pale gold SSI checks as social security.) <input type="checkbox"/> 4160	<input type="checkbox"/> Yes	<input type="checkbox"/> No	QSS	
(3) Receive any interest or dividend income of \$400 or more? <input type="checkbox"/> 4170	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If all "No," QINT skip to item 116	
(4) Receive rental income? <input type="checkbox"/> 4180	<input type="checkbox"/> Yes	<input type="checkbox"/> No		QRENT
(5) Receive welfare or SSI? <input type="checkbox"/> 4190	<input type="checkbox"/> Yes	<input type="checkbox"/> No		QWELF
(6) Receive alimony or child support? <input type="checkbox"/> 4210	<input type="checkbox"/> Yes	<input type="checkbox"/> No		QALIM
(7) Receive unemployment or worker's compensation or any other income? <input type="checkbox"/> 4220	<input type="checkbox"/> Yes	<input type="checkbox"/> No	QOTHER	

**b.** In the past 12 months what was the total income from (Sources marked "Yes" in item 115a) after deducting expenses and losses?

4230 \$ VOTHER       OR   Total income after deducting expenses and losses

4240 \$ VOTHER       OR   Amount of total net loss

None or broke even

**116.** Check Item (See items 114 and 115b.) (Mark first box that applies.)

- Total income over \$20,000 - Skip to item 118a, page 27
- Income \$20,000 or less - Skip to item 117b, page 27
- Income is refused, NA or DK - Ask item 117a, page 27

Notes



**REGULAR OCCUPIED - Continued**

<p><b>120a. Did . . .</b> (Specify names of all household members age 14 + work at any time last week? If "Yes," list line number.)</p> <p>(Do NOT count persons who were absent from work all last week due to illness, vacation, strike, layoff, etc., as having worked.)</p>	<p align="center">~ 6 25 ~</p> <p align="right">WLINE1</p> <p>4440    00 <input type="checkbox"/> No workers - Skip to item 121a, page 30</p> <p>4440    <input type="text"/> Line number</p>
<p><b>b. Did . . . usually report to the same location to begin work each day?</b></p>	<p>4445    1 <input type="checkbox"/> Yes    WJOB1</p> <p>          2 <input type="checkbox"/> No</p>
<p><b>c. In what city, county, and State did . . . work last week?</b> (Enter 2-character State code from flashcard.)</p>	<p>4450    0 <input type="checkbox"/> Outside USA - Skip to item 120t</p> <p align="center">~ 7 25 ~</p> <p>City or place <input type="text"/></p> <p>County <input type="text"/></p> <p>State <input type="text"/></p>
<p><b>d. What is the ZIP Code?</b></p>	<p>4460    <input type="text"/> ZIP Code</p> <p>4470    OFFICE USE ONLY</p>
<p><b>e. Is . . . 's place of work inside the incorporated limits of (City above)?</b></p>	<p>4480    1 <input type="checkbox"/> Yes</p> <p>          2 <input type="checkbox"/> No or not incorporated place</p> <p>          3 <input type="checkbox"/> Don't know</p>
<p><b>f. OFFICE USE ONLY</b></p>	<p style="background-color: #cccccc;">4490    <input type="text"/> Zone code</p> <p style="background-color: #cccccc;">          Zone alpha (if any)</p> <p style="background-color: #cccccc;">4490    00 <input type="checkbox"/> Off map</p>
<p><b>g. How did . . . usually get to work last week?</b> (Mark item that accounted for greatest distance to location of job at which person worked most hours last week.)</p>	<p align="center">~ 6 25 ~</p> <p>4500    1 <input type="checkbox"/> Car, truck, van -&gt;</p> <p>          <b>Did . . . drive alone or go with others?</b></p> <p>          2 <input type="checkbox"/> Alone - Skip to item 120i</p> <p>          3 <input type="checkbox"/> Go with others - Ask item 120h</p> <p>4500    4 <input type="checkbox"/> Bus or streetcar . . .</p> <p>          5 <input type="checkbox"/> Subway or elevated</p> <p>          6 <input type="checkbox"/> Railroad . . . . .</p> <p>          7 <input type="checkbox"/> Taxicab . . . . .</p> <p>          8 <input type="checkbox"/> Motorcycle . . . . .</p> <p>          9 <input type="checkbox"/> Bicycle . . . . .</p> <p>          10 <input type="checkbox"/> Other vehicle . . . . .</p> <p>          11 <input type="checkbox"/> Walked only . . . . .</p> <p>          12 <input type="checkbox"/> Works at home - Skip to item 120f</p> <p align="right" style="font-size: small;">} Skip to item 120i</p>
<p><b>h. How many people including . . . usually ride in the (car/truck/van)?</b></p>	<p>4520    _____ Number</p>
<p><b>i. How many minutes did it usually take . . . to get to work?</b></p>	<p>4530    _____ Minutes</p> <p>00 <input type="checkbox"/> Work place varies</p>
<p><b>j. What time did . . . usually leave for work?</b></p>	<p>4540    Hours    Minutes</p> <p>          <input type="text"/>    <input type="text"/></p> <p>4550    1 <input type="checkbox"/> a.m.    2 <input type="checkbox"/> p.m.</p>
<p><b>k. How many miles was . . . 's trip to work?</b></p>	<p>4560    _____ Miles</p> <p>0 <input type="checkbox"/> Less than 1 mile</p>
<p>Go to next worker; if none, go to item 121a, page 30</p>	

**REGULAR OCCUPIED - Continued**

~6 26~	~6 27~	~6 28~
4440 <input type="text"/> Line number	4440 <input type="text"/> Line number	4440 <input type="text"/> Line number
4445 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	4445 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	4445 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
4450 0 <input type="checkbox"/> Outside USA - Skip to item 120i	4450 0 <input type="checkbox"/> Outside USA - Skip to item 120i	4450 0 <input type="checkbox"/> Outside USA - Skip to item 120i
<b>~7 26~</b>	<b>~7 27~</b>	<b>~7 28~</b>
City or place <input type="text"/>	City or place <input type="text"/>	City or place <input type="text"/>
County <input type="text"/>	County <input type="text"/>	County <input type="text"/>
State <input type="text"/>	State <input type="text"/>	State <input type="text"/>
4460 <input type="text"/> ZIP Code	4460 <input type="text"/> ZIP Code	4460 <input type="text"/> ZIP Code
4470 OFFICE USE ONLY <input type="text"/>	4470 OFFICE USE ONLY <input type="text"/>	4470 OFFICE USE ONLY <input type="text"/>
4480 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No or not incorporated place 3 <input type="checkbox"/> Don't know	4480 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No or not incorporated place 3 <input type="checkbox"/> Don't know	4480 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No or not incorporated place 3 <input type="checkbox"/> Don't know
4490 <input type="text"/> Zone code <input type="text"/> Zone alpha (if any)	4490 <input type="text"/> Zone code <input type="text"/> Zone alpha (if any)	4490 <input type="text"/> Zone code <input type="text"/> Zone alpha (if any)
4490 00 <input type="checkbox"/> Off map	4490 00 <input type="checkbox"/> Off map	4490 00 <input type="checkbox"/> Off map
<b>~6 26~</b>	<b>~6 27~</b>	<b>~6 28~</b>
4500 1 <input type="checkbox"/> Car, truck, van - <b>Did . . . drive alone or go with others?</b>	4500 1 <input type="checkbox"/> Car, truck, van - <b>Did . . . drive alone or go with others?</b>	4500 1 <input type="checkbox"/> Car, truck, van - <b>Did . . . drive alone or go with others?</b>
4510 2 <input type="checkbox"/> Alone - Skip to item 120i 3 <input type="checkbox"/> Go with others - Ask item 120h	4510 2 <input type="checkbox"/> Alone - Skip to item 120i 3 <input type="checkbox"/> Go with others - Ask item 120h	4510 2 <input type="checkbox"/> Alone - Skip to item 120i 3 <input type="checkbox"/> Go with others - Ask item 120h
4500 4 <input type="checkbox"/> Bus or streetcar . . . 5 <input type="checkbox"/> Subway or elevated 6 <input type="checkbox"/> Railroad . . . . . 7 <input type="checkbox"/> Taxicab . . . . . 8 <input type="checkbox"/> Motorcycle . . . . . 9 <input type="checkbox"/> Bicycle . . . . . 10 <input type="checkbox"/> Other vehicle . . . . . 11 <input type="checkbox"/> Walked only . . . . . 12 <input type="checkbox"/> Works at home - Skip to item 120i	4500 4 <input type="checkbox"/> Bus or streetcar . . . 5 <input type="checkbox"/> Subway or elevated 6 <input type="checkbox"/> Railroad . . . . . 7 <input type="checkbox"/> Taxicab . . . . . 8 <input type="checkbox"/> Motorcycle . . . . . 9 <input type="checkbox"/> Bicycle . . . . . 10 <input type="checkbox"/> Other vehicle . . . . . 11 <input type="checkbox"/> Walked only . . . . . 12 <input type="checkbox"/> Works at home - Skip to item 120i	4500 4 <input type="checkbox"/> Bus or streetcar . . . 5 <input type="checkbox"/> Subway or elevated 6 <input type="checkbox"/> Railroad . . . . . 7 <input type="checkbox"/> Taxicab . . . . . 8 <input type="checkbox"/> Motorcycle . . . . . 9 <input type="checkbox"/> Bicycle . . . . . 10 <input type="checkbox"/> Other vehicle . . . . . 11 <input type="checkbox"/> Walked only . . . . . 12 <input type="checkbox"/> Works at home - Skip to item 120i
4520 <input type="text"/> Number	4520 <input type="text"/> Number	4520 <input type="text"/> Number
4530 <input type="text"/> Minutes 00 <input type="checkbox"/> Work place varies	4530 <input type="text"/> Minutes 00 <input type="checkbox"/> Work place varies	4530 <input type="text"/> Minutes 00 <input type="checkbox"/> Work place varies
4540 Hours <input type="text"/> Minutes <input type="text"/>	4540 Hours <input type="text"/> Minutes <input type="text"/>	4540 Hours <input type="text"/> Minutes <input type="text"/>
4550 1 <input type="checkbox"/> a.m. 2 <input type="checkbox"/> p.m.	4550 1 <input type="checkbox"/> a.m. 2 <input type="checkbox"/> p.m.	4550 1 <input type="checkbox"/> a.m. 2 <input type="checkbox"/> p.m.
4560 <input type="text"/> Miles 0 <input type="checkbox"/> Less than 1 mile	4560 <input type="text"/> Miles 0 <input type="checkbox"/> Less than 1 mile	4560 <input type="text"/> Miles 0 <input type="checkbox"/> Less than 1 mile
Go to next worker; if none, go to item 121a, page 30	Go to next worker; if none, go to item 121a, page 30	Go to next worker; if none, go to item 121a, page 30

**REGULAR OCCUPIED – Continued**

**121a.** Housing size is important for analysis of other information from this survey. UNITSF  
 How many square feet are there in this (house/apartment)? (Include basements and finished attics. Exclude unfinished attics, carports, and attached garages. Also exclude porches that are not protected from the elements/----.) (----/Exclude the mobile home hitch.)  
 4610 \_\_\_\_\_ Square feet – Go to item 121f  
 Don't know – Ask item 121b

**b.** How many (floors/ stories) are there in this (house/apartment)? (Include basements and finished attics /----.) (In apartments, floors refers only to the apartment itself.) FLOORS  
 4610 \_\_\_\_\_ Number

**c.** MARK OR ASK – SLEVEL  
 Is the (house/apartment) a split level?  
 4620 1  Yes  
 2  No

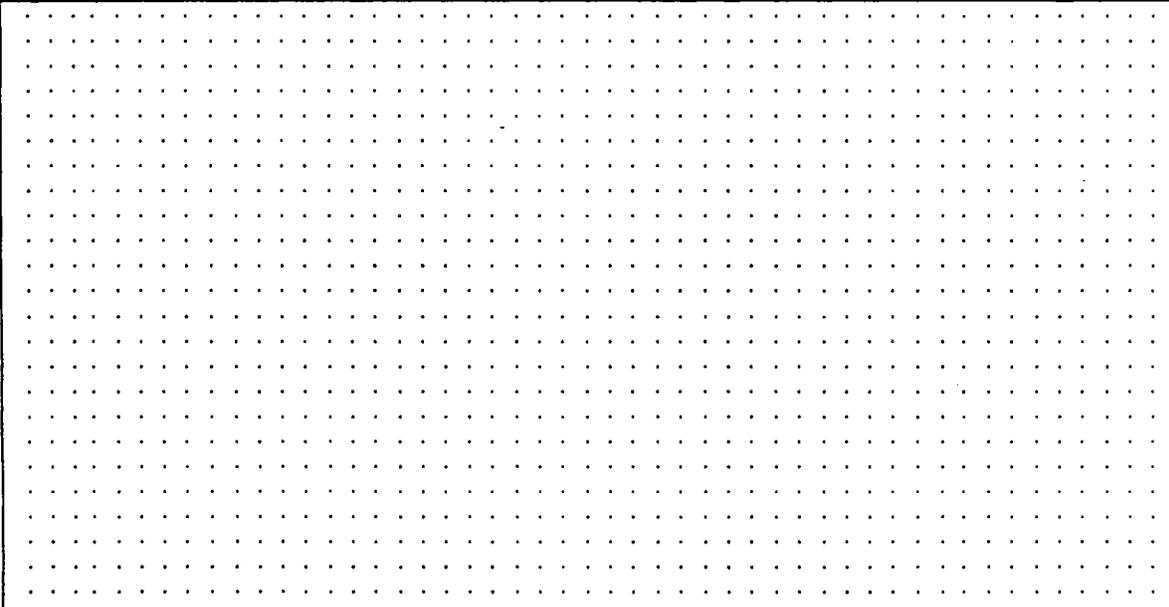
**d.** What is the length and width of each floor of the (house/apartment)? (Include basements and finished attics. Exclude unfinished attics, carports, and attached garages. Also exclude porches that are not protected from the elements/----.) (----/Exclude the mobile home hitch.)

*(Record dimensions of all rooms, if respondent is unable to give dimensions for the total floor size.)*

	Rectangles or squares							
	First (a)		Second (b)		Third (c)		Fourth (d)	
	Length	Width	Length	Width	Length	Width	Length	Width
Basement								
1st floor of unit								
2nd floor of unit								
3rd floor of unit								
4th floor of unit								

4640  Don't know – Skip to item 121h

**e.** SKETCH *(If enough information is available, draw sketch of sample unit below.)* OFFICE USE ONLY 4640 \_\_\_\_\_ UNITSF Square feet



**f.** Describe characteristics of the sample unit that would help to determine total number of square feet, such as ranch, cape cod, split level, etc. Dimensions ▾  
 Do not include a garage  
 Include a garage for ▾  
 One car  
 Two cars  
 Three or more cars

**g.** INSTRUCTION – GO TO ITEM 122, PAGE 31.

**h.** Check Item (See item 23, page 3.)  
 One-unit building – detached } Ask item 121i  
 One-unit mobile home }  
 All others – Go to item 122, page 31

**i.** Because housing size is so important, I would like to measure the length and width of this house from the outside. May I do that after I finish the interview? MEASUR  
 4650 1  Yes  
 2  No

**REGULAR OCCUPIED - Continued**

**122.** Check item (See Control Card items 13 and 18.)

- Household contains people age 14 + NOT related to reference person - Ask item 123a
- All others - Skip to item 175, page 44

	~6 29~	~6 30~	~6 31~	~6 32~
<p>Enter line number(s).</p> <p><b>123a.</b> Thank you very much for your cooperation. I have a few questions that I would like to ask . . . , . . . , and . . . (Names of nonrelatives). Are they here now?</p>	<p align="center">4660 Line number NRLIN1</p> <p>4670 HERE1</p> <p>1 <input type="checkbox"/> Yes - Skip to item 123c 2 <input type="checkbox"/> No - Ask item 123b</p>	<p align="center">4660 Line number NRLIN2</p> <p>4670 HERE2</p> <p>1 <input type="checkbox"/> Yes - Skip to item 123c 2 <input type="checkbox"/> No - Ask item 123b</p>	<p align="center">4660 Line number NRLIN3</p> <p>4670 HERE3</p> <p>1 <input type="checkbox"/> Yes - Skip to item 123c 2 <input type="checkbox"/> No - Ask item 123b</p>	<p align="center">4660 Line number NRLIN4</p> <p>4670 HERE4</p> <p>1 <input type="checkbox"/> Yes - Skip to item 123c 2 <input type="checkbox"/> No - Ask item 123b</p>
<p><b>b.</b> As I mentioned earlier, we are concerned about housing costs compared to income. What is your estimate of . . . 's total income before deductions in the last 12 months?</p>	<p align="center">4680 SAL1</p> <p>\$ _____ 00</p> <p><input type="checkbox"/> None</p> <p><i>(If unable to estimate, ask best time to reach nonrelative by telephone. Ask item 123c of nonrelatives who are here, and then skip to item 175, page 44.)</i></p>	<p align="center">4680 SAL2</p> <p>\$ _____ 00</p> <p><input type="checkbox"/> None</p> <p><i>(If unable to estimate, ask best time to reach nonrelative by telephone. Ask item 123c of nonrelatives who are here, and then skip to item 175, page 44.)</i></p>	<p align="center">4680 SAL3</p> <p>\$ _____ 00</p> <p><input type="checkbox"/> None</p> <p><i>(If unable to estimate, ask best time to reach nonrelative by telephone. Ask item 123c of nonrelatives who are here, and then skip to item 175, page 44.)</i></p>	<p align="center">4680 SAL4</p> <p>\$ _____ 00</p> <p><input type="checkbox"/> None</p> <p><i>(If unable to estimate, ask best time to reach nonrelative by telephone. Ask item 123c of nonrelatives who are here, and then skip to item 175, page 44.)</i></p>
<p><b>c.</b> (Introduce yourself, then say:)</p> <p>I have been asking . . . a few questions about this building. One of the main housing problems today is the cost of housing compared to income. What was your income before deductions in the past 12 months?</p>	<p align="center">4680 SAL1</p> <p>\$ _____ 00</p> <p><input type="checkbox"/> None</p> <p>Go to next nonrelative. If none, skip to item 175, page 44</p>	<p align="center">4680 SAL2</p> <p>\$ _____ 00</p> <p><input type="checkbox"/> None</p> <p>Go to next nonrelative. If none, skip to item 175, page 44</p>	<p align="center">4680 SAL3</p> <p>\$ _____ 00</p> <p><input type="checkbox"/> None</p> <p>Go to next nonrelative. If none, skip to item 175, page 44</p>	<p align="center">4680 SAL4</p> <p>\$ _____ 00</p> <p><input type="checkbox"/> None</p> <p>Go to next nonrelative. If none, skip to item 175, page 44</p>

Notes

**INTERVIEWER OBSERVATION**

<p><b>213a.</b> How many stories are in the building, including the basement? <i>(If split level, count greatest number of stories on top of each other.)</i></p>	<p align="right">FLOORS</p> <p>4780 _____ Stories in building (If 1 - 20)</p> <p align="center"><b>OR</b></p> <p>21 <input type="checkbox"/> 21 or more</p>
<p><b>b.</b> What is the condition of the light fixtures in the public halls?</p>	<p>4790</p> <p>1 <input type="checkbox"/> No public halls</p> <p>2 <input type="checkbox"/> All in working order</p> <p>3 <input type="checkbox"/> Some in working order</p> <p>4 <input type="checkbox"/> None in working order</p> <p>5 <input type="checkbox"/> No light fixtures</p> <p>6 <input type="checkbox"/> Fixtures turned off, unable to determine if working, not obviously broken</p> <p align="right">LTSOK</p>
<p><b>c.</b> How many stories are there from main entrance of building to main entrance of sample unit?</p>	<p align="right">CLIMB</p> <p>4800 _____ Stories up or down to home</p> <p>0 <input type="checkbox"/> Same floor</p>
<p><b>d.</b> Is there a passenger elevator on this floor?</p>	<p>4810</p> <p>1 <input type="checkbox"/> No elevator</p> <p>2 <input type="checkbox"/> At least one working elevator</p> <p>3 <input type="checkbox"/> All elevators not working</p> <p align="right">ELEV</p>
<p><b>e.</b> Are there loose, broken, or missing steps on any common stairways inside this building or attached to this building?</p>	<p>4820</p> <p>1 <input type="checkbox"/> No common stairways — Skip to item 213g</p> <p>2 <input type="checkbox"/> Yes</p> <p>3 <input type="checkbox"/> No</p> <p align="right">BADSTEP</p>
<p><b>f.</b> Are all railings on the common stairways firmly attached?</p>	<p>4830</p> <p>1 <input type="checkbox"/> No stair railings</p> <p>2 <input type="checkbox"/> Yes</p> <p>3 <input type="checkbox"/> No</p> <p align="right">RAILOK</p>
<p><b>g.</b> What is the external condition of the building that contains the sample unit, as visible from front of building or roadway?  <i>(Mark all that apply.)</i></p>	<p>4840</p> <p>1 <input type="checkbox"/> Sagging roof</p> <p>2 <input type="checkbox"/> Missing roofing material</p> <p>3 <input type="checkbox"/> Hole in roof</p> <p>4 <input type="checkbox"/> Could not see roof</p> <p>5 <input type="checkbox"/> Missing bricks, siding, or other outside wall material</p> <p>6 <input type="checkbox"/> Sloping outside walls</p> <p>7 <input type="checkbox"/> Boarded up window(s)</p> <p>8 <input type="checkbox"/> Broken window(s)</p> <p>9 <input type="checkbox"/> Bars on window(s)</p> <p>10 <input type="checkbox"/> Foundation crumbling or has open crack or hole</p> <p>11 <input type="checkbox"/> Could not see foundation</p> <p>12 <input type="checkbox"/> Observed, but no listed conditions for roofs, walls, windows, or foundations</p> <p align="center"><b>OR</b></p> <p>13 <input type="checkbox"/> Unable to observe</p> <p align="right">ESAGR Roof EMISSR EHOLR ENOR Walls EMISSW ESLOPW Windows BOARD EBROKE EBAR Foundation ECRUMB ENOF EGOOD ENOB</p>
<p><b>h.</b> How many mobile homes are in the group?  <i>(Including sample mobile home)</i></p>	<p>4880 _____ Exact number (If 1 - 20)</p> <p align="center"><b>OR</b></p> <p>21 <input type="checkbox"/> 21 or more</p> <p>0 <input type="checkbox"/> Sample unit not a mobile home</p> <p align="right">TPARK</p>

Notes

**INTERVIEWER OBSERVATION – Continued**

The items on this page concerns the area within 300 feet of the building in which sample unit is located.

<p><b>214a.</b> Which of these are within 300 feet of building containing the sample unit?</p> <p>(Exclude this building.)</p> <p>(Mark all that apply.)</p>	ESFD	4890	1	<input type="checkbox"/> Single-family, detached house(s)
	ELOW		2	<input type="checkbox"/> Single-family, attached house(s) or low-rise (1–3 story) residential multiunit building(s)
	EMID		3	<input type="checkbox"/> Mid-rise (4–6 story) residential multiunit building(s)
	EHIGH		4	<input type="checkbox"/> High-rise (7+ story) residential multiunit building(s)
	EMOBI		5	<input type="checkbox"/> Mobile home(s) (exclude campers)
	ECOM		6	<input type="checkbox"/> Commercial, institutional, industrial building(s)
	EPRKG	4900	7	<input type="checkbox"/> Residential parking lot(s)
	EWATER	*	8	<input type="checkbox"/> Body of water
	BGREEN		9	<input type="checkbox"/> Open space, park, woods, farm, or ranch
	ECL	4910	10	<input type="checkbox"/> Other – Specify <u>        </u>
	ENOCL		11	<input type="checkbox"/> Could not observe
<hr/>				
<p><b>b.</b> What is the predominant age of residential buildings within 300 feet?</p> <p>(Exclude this building.)</p>	EAGE	4920	1	<input type="checkbox"/> Older than sample unit
			2	<input type="checkbox"/> About the same
			3	<input type="checkbox"/> Newer than sample unit
			4	<input type="checkbox"/> Very mixed
			5	<input type="checkbox"/> No other residential buildings
<hr/>				
<p><b>c.</b> Are any buildings vandalized, or interior exposed to the elements?</p> <p>(Exclude this building.)</p>	EABAN	4930	1	<input type="checkbox"/> Yes, only one vandalized or exposed
			2	<input type="checkbox"/> Yes, more than one
			3	<input type="checkbox"/> None vandalized or exposed
			4	<input type="checkbox"/> No other buildings within 300 feet – Skip to item 214e
<hr/>				
<p><b>d.</b> Are there bars on windows of buildings in area?</p> <p>(Exclude this building.)</p>	EBARCL	4940	1	<input type="checkbox"/> Yes, only one building with bars
			2	<input type="checkbox"/> Yes, more than one
			3	<input type="checkbox"/> No bars on windows
<hr/>				
<p><b>e.</b> What is the condition of streets?</p>	EROAD	4950	1	<input type="checkbox"/> Major repairs needed
			2	<input type="checkbox"/> Minor repairs needed
			3	<input type="checkbox"/> No repairs needed
			4	<input type="checkbox"/> No streets within 300 feet
<hr/>				
<p><b>f.</b> Is there trash, litter, or junk in streets, roads, empty lots, or on any properties?</p> <p>(Include this building.)</p>	EJUNK	4960	1	<input type="checkbox"/> Major accumulation
			2	<input type="checkbox"/> Minor accumulation
			3	<input type="checkbox"/> None

**INTERVIEW COMPLETED**

**215.** Check Item — Regular Occupied (See item 121i, page 30); URE Occupied (See item 174i, page 43)

- "Yes" marked — Go to item 216 — If callback required, mark item 10, page 1
- "No" marked or blank — Fill observation items on pages 53 and 54

**UNIT MEASUREMENT**

**216.** Obtain the measurements (length and width) of each story of the unit. Draw sketch (showing dimensions) in area below. Include basements and finished attics. Exclude unfinished attics, carports, attached garages, and porches that are not protected from the elements.

**a. SKETCH**

**OFFICE  
USE  
ONLY**

4970

UNITSF \_\_\_\_\_ Square feet

**b. ENTER DIMENSIONS HERE.**

		Rectangles or squares							
		First (a)		Second (b)		Third (c)		Fourth (d)	
		Length	Width	Length	Width	Length	Width	Length	Width
Basement									
1st floor of unit									
2nd floor of unit									
3rd floor of unit									
4th floor of unit									

**c.** Describe characteristics of the sample unit that would help to determine total number of square feet such as ranch, cape cod, split level, etc.

Dimensions →

- Do not include a garage
- Include a garage for →
  - One car
  - Two cars
  - Three or more cars

**d. FILL OBSERVATION ITEMS ON PAGES 53 AND 54.**

O R D E R   F O R M

PLEASE TYPE OR PRINT CLEARLY

Name \_\_\_\_\_  
 Title \_\_\_\_\_  
 Organization \_\_\_\_\_  
 Department \_\_\_\_\_  
 Mailing Address \_\_\_\_\_  
 City/Town \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

ITEM	QUANTITY	PRICE	COST
AHS Catalog/Price List (30 Pages)		\$ 3.00	
AHS Codebook (describes all data) (410 pages)		\$45.00	
Questionnaire Directory (350 pages)		\$40.00	
AHS Codebook & Questionnaire Directory		\$80.00	
National Survey Questionnaire (Be sure to indicate years)	Year(s)	one year @ \$10.00	
Metropolitan Survey Questionnaire	Metro Area	one Metro Area @ \$10.00	

Subtotal \_\_\_\_\_  
 In MA, add 5% Sales Tax \_\_\_\_\_  
**TOTAL** \_\_\_\_\_

**METHOD OF PAYMENT: (DO NOT SEND CASH!)**

Check Enclosed  Card # \_\_\_\_\_  
 VISA  Expiration Date \_\_\_\_\_  
 Master Card  Signature \_\_\_\_\_

-----  
 If we have any questions about your order, please indicate how we may contact you during daytime business hours:

(        )  
 \_\_\_\_\_  
 AREA CODE                      TELEPHONE NO.                      EXTENSION

Please detach form and fold to show ABT address (remember to cut off rough edge, tape or staple, and add postage), or place in an envelope and mail to:

**AHS DATA PROJECT**  
 Abt Associates Inc.  
 55 Wheeler Street  
 Cambridge, MA 02138-9990



Please  
add  
Proper  
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**Abt Associates Inc.**  
55 Wheeler Street  
Cambridge, MA 02138-9990



USER COMMENT FORM

We would like your reactions to this Codebook, so we can improve it.

First reactions:

Further Comments after you have used this Codebook:

Please detach form and fold to show ABT address, or place in an envelope and mail to:

AHS DATA PROJECT  
ABT ASSOCIATES INC.  
55 Wheeler Street  
Cambridge, Massachusetts 02138-9990

(Note: Please remember to cut off rough edge, tape or staple, and add postage.)

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55 Wheeler Street  
Cambridge, MA 02138-9990

 **AHS** DATA  
PROJECT

ALPHABETICAL INDEX OF VARIABLE NAMES

## ALPHABETICAL INDEX OF VARIABLES

0330 ABAN	1109 AMRTZ2	0252 BLEAK	1737 CITZ80	0254 CRACKS	0132 DISH5	1751 EMP280
0339 ABAND	0219 AMTAIN	2456 BLIND	0833 CLASST	1202 CREC	2880 DISHER	2447 EMPHY
0350 ABANM	0972 AMTE	2472 BLOOD	0053 CLIMB	0327 CRIME	0287 DISP	1750 EMPL80
1765 ABL280	1721 AMTE80	1128 BLOON	2504 CLINE1	0337 CRIMED	0130 DISP5	1691 ENG80
1764 ABLE80	0977 AMTF	1129 BLOON2	2505 CLINE2	0348 CRIMEM	0122 DISPL	1692 ENG280
1578 ACC80	0973 AMTG	1574 BOAR80	2506 CLINE3	0009 CROP5	2020 DISTJ	2774 ENO1
0049 ACCESS	1722 AMTG80	0228 BOARD	2507 CLINE4	0010 CROP25	2021 DISTJ1	2775 ENO2
1566 ACRE80	1174 AMTI	1550 BOARDU	2508 CLINE5	1567 CROP80	2022 DISTJ2	2776 ENO3
0100 ADD	1207 AMTM	2446 BRONCH	2509 CLINE6	0008 CROPSL	2023 DISTJ3	2777 ENO4
0846 AFUEL	1208 AMTM2	1570 BUIL80	1199 CMNTN	1203 CSECUR	2024 DISTJ4	2778 ENO5
1640 AG280	0975 AMTO	0044 BUILT	1094 CMORT	0109 CSTADD	2025 DISTJ5	2779 ENO6
1641 AG380	1723 AMTO80	0125 BURNER	1537 CMS	2860 CSTAR1	2026 DISTJ6	0240 ENOB
1642 AG480	1022 AMTRSE	2800 BUSV1	0017 CMSA	2861 CSTAR2	2027 DISTJ7	0303 ENOCL
1643 AG580	1023 AMTRSG	2801 BUSV2	2540 CONA1	0111 CSTBTH	2028 DISTJ8	0238 ENOF
1644 AG680	1177 AMTRSI	2802 BUSV3	2541 CONA2	0113 CSTFIX	0383 DLINE1	0232 ENOR
1645 AG780	1025 AMTRSO	2803 BUSV4	2542 CONA3	0110 CSTKIT	0057 DOCS	0761 EOTHER
1646 AG880	1024 AMTRST	2857 BUYAIR	2543 CONA4	0205 CSTMEQ	2808 DRIVE1	2750 EOTHR1
1647 AG980	1026 AMTRSW	0960 BUYE	2544 CONA5	0227 CSTMNT	2809 DRIVE2	2751 EOTHR2
1648 AG1080	1165 AMTRSX	0966 BUYE2	2545 CONA6	1554 CSTRG	2810 DRIVE3	2752 EOTHR3
1649 AG1180	0974 AMTT	0965 BUYF	2546 CONB1	0108 CSTROF	2811 DRIVE4	2753 EOTHR4
1650 AG1280	1731 AMTT80	0969 BUYF2	2547 CONB2	0210 CSTSDW	2804 DRVYR1	2754 EOTHR5
1651 AG1380	0976 AMTW	0860 BUYFUL	2548 CONB3	0112 CSTSID	2805 DRVYR2	2755 EOTHR6
1652 AG1480	1724 AMTW80	0961 BUYG	2549 CONB4	1201 CSWIM	2806 DRVYR3	0760 EQUTPR
1653 AG1580	1162 AMTX	0967 BUYG2	2550 CONB5	1152 CTXPMT	2807 DRVYR4	2720 EPHON1
0490 AGE	2480 ANOMLY	1167 BUYI	2551 CONB6	2848 CYLNV1	0128 DRY	2721 EPHON2
0491 AGE2	0136 APPBAD	0962 BUYO	2552 CONC1	2849 CYLNV2	0134 DRY5	2722 EPHON3
0492 AGE3	0135 APPOK	0968 BUYO2	2553 CONC2	2850 CYLNV3	2879 DRYCST	2723 EPHON4
0493 AGE4	1122 ARM	0964 BUYT	2554 CONC3	2851 CYLNV4	2877 DRYER	2724 EPHON5
0494 AGE5	1123 ARM2	0970 BUYT2	2555 CONC4	2196 DAMAG1	2878 DRYOWN	2725 EPHON6
0495 AGE6	2458 ARMSM	2864 BUYTV	2556 CONC5	2197 DAMAG2	2882 DSHCST	2453 EPILEP
0496 AGE7	2439 AROUND	2796 BUYV1	2557 CONC6	2198 DAMAG3	2881 DSHOWN	0298 EPRKG
0497 AGE8	2467 ARTERY	2797 BUYV2	2558 COND1	1519 DATE	0323 DUMP	0758 EPRVPM
0498 AGE9	2452 ARTH	2798 BUYV3	2559 COND2	2075 DCLAFF	0340 DUMPD	2714 EPUSH1
0499 AGE10	1555 ARTSTR	2799 BUYV4	2560 COND3	2076 DCLAVL	0351 DUMPM	2715 EPUSH2
0500 AGE11	2444 ASTHMA	0963 BUYW	2561 COND4	2077 DCLCHG	1075 DWNPAY	2716 EPUSH3
0501 AGE12	2449 ATTACK	0971 BUYW2	2562 COND5	2074 DCLFMJ	0305 EABAN	2717 EPUSH4
0502 AGE13	1526 AWT	1154 BUYX	2563 COND6	2070 DCLHSE	0307 EABAN2	2718 EPUSH5
0503 AGE14	2461 BACKO	1081 BUYXR	1569 COND80	2079 DCLOTH	0304 EAGE	2719 EPUSH6
0504 AGE15	2460 BACKST	2865 BWTV1	2483 CONDNO	2071 DCLPEO	0759 EALIM	2612 ERAIL1
1639 AGE80	0262 BADDRY	2866 BWTV2	0034 CONDO	2072 DCLSCH	0236 EBAR	2613 ERAIL2
0151 AIR	0318 BADPER	0591 C6	2482 CONDOR	2073 DCLSHP	0306 EBARCL	2614 ERAIL3
1593 AIR80	0317 BADPRP	0593 C18	1002 CONE	2078 DCLTMP	0235 EBROKE	2615 ERAIL4
0324 AIRN	0270 BADSEW	0592 C617	2564 CONE1	2455 DEAF	0835 ECASST	2616 ERAIL5
0343 AIRND	0316 BADSRV	1197 CAMF	2565 CONE2	0004 DEGREE	0301 ECL	2617 ERAIL6
0354 AIRNM	0243 BADSTEP	0997 CAMTE	2566 CONE3	0082 DENS	0297 ECOM	2696 ERAIS1
0152 AIRSYS	0266 BADTLT	0998 CAMTG	2567 CONE4	1558 DFIRE	0237 ECRUMB	2697 ERAIS2
1781 ALIN1	1114 BANK	1175 CAMTI	2568 CONE5	0847 DFUEL	0750 EDIV	2698 ERAIS3
1782 ALIN2	1115 BANK2	1001 CAMTO	2569 CONE6	2464 DIABET	0834 EEASST	2699 ERAIS4
1783 ALIN3	1587 BATH80	0999 CAMTT	2570 CONF1	2471 DIET	2726 EFLAS1	2700 ERAIS5
1784 ALIN4	0077 BATHS	1000 CAMTW	2571 CONF2	2516 DIFA1	2727 EFLAS2	2701 ERAIS6
1785 ALIN5	1552 BBLDG	1163 CAMTX	2572 CONF3	2517 DIFA2	2728 EFLAS3	0752 ERENT
1786 ALIN6	0076 BDRMSC	2466 CANCER	2573 CONF4	2518 DIFA3	2729 EFLAS4	0308 EROAD
1787 ALIN7	1586 BEDR80	0038 CANRNT	2574 CONF5	2519 DIFA4	0229 EFLAS5	0292 ESAGR
1788 ALIN8	0075 BEDRMS	0058 CARS	2575 CONF6	2520 DIFAS	2731 EFLAS6	0292 ESFD
1789 ALIN9	0257 BIGP	1583 CARS80	1198 CONFEE	2521 DIFAS6	0239 EGOOD	0234 ESLOPW
1790 ALIN10	1043 BILLFE	1840 CARTO1	0200 CONFUR	2522 DIFB1	0756 EGOVPM	0749 ESS
1791 ALIN11	1044 BILLFG	1841 CARTO2	1003 CONG	2523 DIFB2	0300 EGREEN	0302 ETRANS
1792 ALIN12	1045 BILLFO	1842 CARTO3	1005 CONO	2524 DIFB3	0295 EHIGH	0754 EUNEMP
1213 ALMV79	1046 BILLFT	1843 CARTO4	1006 CONT	2525 DIFB4	2678 EHNDL1	1060 EVEN
1848 ALONE1	1047 BILLFW	1844 CARTO5	1516 CONTRLX	2526 DIFB5	2679 EHNDL2	0757 EVET
1849 ALONE2	1033 BILLGE	1845 CARTO6	1515 CONTROL	2527 DIFB6	2680 EHNDL3	0299 EWATER
1850 ALONE3	1035 BILLGF	1846 CARTO7	1004 CONW	2528 DIFC1	2681 EHNDL4	0753 EWELF
1851 ALONE4	1034 BILLGO	1847 CARTO8	0123 COOK	2529 DIFC2	2682 EHNDL5	0755 EWKCMP
1852 ALONE5	1036 BILLGT	1839 CARTOJ	0131 COOK5	2530 DIFC3	2683 EHNDL6	1551 EXPOSE
1853 ALONE6	1037 BILLGW	0992 CBUYE	0983 COSTE	2531 DIFC4	0231 EHOLER	0290 EXTERM
1854 ALONE7	1038 BILLOE	0993 CBUYG	0988 COSTF	2532 DIFC5	0751 EINT	0861 FAFURA
1855 ALONE8	1040 BILLOF	1168 CBUYI	0984 COSTG	2533 DIFC6	0309 EJUNK	0862 FAFURB
0102 ALT	1039 BILLOG	0995 CBUYO	0986 COSTO	2534 DIFD1	0052 ELEV	0863 FAFURC
1101 AMMORT	1041 BILLOT	0996 CBUYT	0066 COSTP	2535 DIFD2	1580 ELEV80	0864 FAFURD
1102 AMMRT2	1042 BILLOW	0994 CBUYW	0985 COSTT	2536 DIFD3	2510 ELINE1	0865 FAFURE
1103 AMMRT3	1048 BILLTE	1155 CBUYX	2828 COSTV1	2537 DIFD4	2511 ELINE2	0866 FAFURF
1995 AMPM1	1051 BILLTF	0055 CELLAR	2829 COSTV2	2538 DIFD5	2512 ELINE3	0867 FAFURG
1996 AMPM2	1049 BILLTG	1143 CFPMT	2830 COSTV3	2539 DIFD6	2513 ELINE4	0868 FAFURH
1997 AMPM3	1050 BILLTO	1720 CFUE80	2831 COSTV4	2442 DIFFNO	2514 ELINE5	0869 FAFURI
1998 AMPM4	1052 BILLTW	0843 CFUEL	0987 COSTW	2477 DIGEST	2515 ELINE6	0475 FAM
1999 AMPM5	1053 BILLWE	1286 CHHEAD	1204 COTHER	0260 DILAPM	0293 ELW	0476 FAM2
2000 AMPM6	1056 BILLWF	1290 CHUSAF	2476 COUGH	0081 DINING	0294 EMID	0477 FAM3
2001 AMPM7	1054 BILLWG	1287 CINLIM	0018 COUNTY	2437 DISABL	0230 EMISSR	0478 FAM4
2002 AMPM8	1055 BILLWO	2475 CIRCLE	1200 CPARK	1559 DISAS	0233 EMISSW	0479 FAM5
1108 AMRTZ	1057 BILLWT	1738 CITZ80	1148 CPMT	0126 DISH	0296 EMOBIL	0480 FAM6

## ALPHABETICAL INDEX OF VARIABLES

0482	FAM8	1192	FLRENT	1694	GRA280	0094	HHROF	0063	IFP	0329	JUNK	0107	MAJFIX
0483	FAM9	1210	FMHOTF	0569	GRAD2	1492	HIN51	0269	IFSEW	0338	JUNKD	0116	MAJIMM
0484	FAM10	0741	FOOD1	0570	GRAD3	1493	HIN52	0265	IFTLT	0349	JUNKM	0105	MAJREP
0485	FAM11	0742	FOOD2	0571	GRAD4	1494	HIN53	2672	IHNDL1	0613	KIDG01	0506	MAR
0486	FAM12	0743	FOOD3	0572	GRAD5	1495	HIN54	2673	IHNDL2	0614	KIDG02	0507	MAR2
0487	FAM13	0744	FOOD4	0573	GRAD6	1540	HISTRY	2674	IHNDL3	0615	KIDG03	0508	MAR3
0488	FAM14	0745	FOOD5	0574	GRAD7	1913	HJOB1	2675	IHNDL4	0616	KIDG04	0509	MAR4
0489	FAM15	0746	FOOD6	0575	GRAD8	1914	HJOB2	2676	IHNDL5	0605	KIDS1	0510	MAR5
1688	FAN280	0747	FOOD7	0576	GRAD9	1915	HJOB3	2677	IHNDL6	0606	KIDS2	0511	MAR6
1687	FANC80	0748	FOOD8	0577	GRAD10	1916	HJOB4	0246	I LEAK	0607	KIDS3	0512	MAR7
0064	FARP	0897	FPLFA	0578	GRAD11	1917	HJOB5	0115	IMM	0608	KIDS4	0513	MAR8
0888	FELCTA	0898	FPLFB	0579	GRAD12	1918	HJOB6	1739	IMMI80	1701	KIDS80	0514	MAR9
0889	FELCTB	0899	FPLFC	0580	GRAD13	1919	HJOB7	1521	IMONTH	2854	KINDV	0515	MAR10
0890	FELCTC	0900	FPLFD	0581	GRAD14	1920	HJOB8	0671	INCOME	2780	KINDV1	0516	MAR11
0891	FELCTD	0901	FPLFE	0582	GRAD15	2497	HNO	0062	INCP	2781	KINDV2	0517	MAR12
0892	FELCTE	0902	FPLFF	1693	GRAD80	0255	HOLES	1191	INCS	2782	KINDV3	0518	MAR13
0893	FELCTF	0903	FPLFG	0568	GRADE1	0370	HOSP	1748	IND80	2783	KINDV4	0519	MAR14
0894	FELCTG	0904	FPLFH	0583	GRADER	0371	HOSPM	1749	IND280	2886	KIT	0520	MAR15
0895	FELCTH	0905	FPLFI	0191	HA01SL	2496	HOTHR	2762	INO1	1588	KITC80	1669	MAR80
0896	FELCTI	0859	FPLFUL	0192	HA02WS	0145	HOTPIP	2763	INO2	0080	KITCH	1096	MATBUY
0906	FFLINA	0178	FPLWK	0193	HA03FP	1564	HOWBAD	2764	INO3	0118	KITCHC	1097	MATBY2
0907	FFLINB	1142	FPMT	0194	HA04EH	1089	HOWBUY	2765	INO4	0117	KITCHEN	2824	MBUYV1
0908	FFLINC	0942	FPORTA	0195	HA05UV	1560	HOWEGR	2766	INO5	2888	KITCST	2825	MBUYV2
0909	FFLIND	0943	FPORTB	0196	HA06GT	0225	HOWH	2767	INO6	2887	KITOWN	2826	MBUYV3
0910	FFLINE	0944	FPORTC	0197	HA07NO	1563	HOWLST	2438	INOUT	0601	KLINE1	2827	MBUYV4
0911	FFLINF	0945	FPORTD	0163	HADDL	2171	HOWMH	1172	INPMT2	0602	KLINE2	1138	MCOM
0912	FFLING	0946	FPORTE	0078	HALFB	0291	HOWN	1730	INS80	0603	KLINE3	1139	MCOM2
0913	FFLINH	0947	FPORTF	2493	HBATH	1561	HOWROF	0221	INSFL	0604	KLINE4	0072	MEASUR
0914	FFLINI	0948	FPORTG	2450	HEARTO	1562	HOWWAL	1180	INSFLD	1190	LANPMT	2473	MENTAL
0915	FFLOTA	0949	FPORTH	0836	HEASST	2494	HPHOM	1171	INSPMT	0245	LEAK	0003	METRO
0916	FFLOTB	0950	FPORTI	1912	HEDJOB	2490	HPUSH	1181	INSQKE	2457	LEASM	1136	MFARM
0917	FFLOTC	2883	FREEZ	2486	HELEV	2484	HRAIL	1185	INSRFR	2199	LEVEL1	1137	MFARM2
0918	FFLOTD	0276	FREEZE	2576	HELP1	2489	HRAIS	1186	INSRHZ	2200	LEVEL2	0043	MGRHERE
0919	FFLOTE	1066	FRENT	2577	HELP2	2485	HRAMP	1184	INSRTH	2201	LEVEL3	2191	MHDAMG
0920	FFLOTF	0725	FRENT1	2578	HELP3	1753	HRL280	2195	INSTAL	2193	LEVL	1090	MHGET
0921	FFLOTG	0726	FRENT2	2579	HELP4	1752	HRLW80	1179	INSTHF	2459	LIMBST	2190	MHINYR
0922	FFLOTH	0727	FRENT3	2580	HELP5	1758	HRW80	2187	INSTRC	2189	LIMWRN	1211	MHOTFE
0923	FFLOTI	0728	FRENT4	2581	HELP6	1759	HRW280	0215	INSUL	0625	LINE1	2436	MHRED
0924	FFRPLA	0729	FRENT5	2588	HELPE1	2492	HSCKT	1110	INT	0626	LINE2	1548	MHSTAY
0925	FFRPLB	0730	FRENT6	2589	HELPE2	2491	HSINK	1111	INT2	0627	LINE3	1159	MHTAX
0926	FFRPLC	0731	FRENT7	2590	HELPE3	0838	HTASCR	1544	INTLNG	0628	LINE4	1161	MHTX
0927	FFRPLD	0732	FRENT8	2591	HELPE4	0839	HTASPR	0696	INV20K	0629	LINE5	2192	MHUTIL
0928	FFRPLE	0177	FRPL	2592	HELPE5	0832	HTASST	2738	IOTHR1	0630	LINE6	1093	MLOAN
0929	FFRPLF	0031	FRSIT	2593	HELPE6	2053	HTRAM1	2739	IOTHR2	0315	LITTER	1085	MNEWM
0930	FFRPLG	0029	FRSTHO	2582	HELPP1	2054	HTRAM2	2740	IOTHR3	0079	LIVING	1098	MNUMOR
0931	FFRPLH	0030	FRSTOC	2583	HELPP2	2055	HTRAM3	2741	IOTHR4	1510	LKLN51	2435	MODOR2
0932	FFRPLI	2885	FRZCST	2584	HELPP3	2056	HTRAM4	2742	IOTHR5	1511	LKLN52	2844	MODV1
1695	FGR80	2884	FRZOWN	2585	HELPP4	2057	HTRAM5	2743	IOTHR6	1512	LKLN53	2845	MODV2
1696	FGR280	1194	FSRENT	2586	HELPP5	2058	HTRAM6	2708	IPUSH1	1513	LKLN54	2846	MODV3
0951	FHOTH A	0879	FSTEMA	2587	HELPP6	2059	HTRAM7	2709	IPUSH2	1514	LKLYN5	2847	MODV4
0952	FHOTH B	0880	FSTEMB	1594	HEQ80	2060	HTRAM8	2710	IPUSH3	1740	LOC80	2784	MODYR1
0953	FHOTH C	0881	FSTEMC	0162	HEQUIP	2487	HWIDE	2711	IPUSH4	1741	LOC280	2785	MODYR2
0954	FHOTH D	0882	FSTEMD	1478	HER161	2642	IELEV1	2712	IPUSH5	0717	LODGE1	2786	MODYR3
0955	FHOTH E	0883	FSTEME	1479	HER162	2643	IELEV2	2713	IPUSH6	0718	LODGE2	2787	MODYR4
0956	FHOTH F	0884	FSTEMF	1480	HER163	2644	IELEV3	2600	IRAIL1	0719	LODGE3	2855	MODYR5
0957	FHOTH G	0885	FSTEMG	1481	HER164	2645	IELEV4	2601	IRAIL2	0720	LODGE4	0024	MOPERM
0958	FHOTH H	0886	FSTEMH	0639	HERE1	2646	IELEV5	2602	IRAIL3	0721	LODGE5	1092	MORT
0959	FHOTH I	0887	FSTEMI	0640	HERE2	2647	IELEV6	2603	IRAIL4	0722	LODGE6	1727	MORT80
0870	FHPMPA	0933	FSTOVA	0641	HERE3	0090	IF3BED	2604	IRAIL5	0723	LODGE7	1112	MORTINS
0871	FHPMPB	0934	FSTOV B	0642	HERE4	0274	IFBLOW	2605	IRAIL6	0724	LODGE8	1113	MORTN2
0872	FHPMPC	0935	FSTOVC	0643	HERE5	0281	IFCLSD	2690	IRAIS1	0039	LONGIT	1547	MOVAC
0873	FHPMPD	0936	FSTOVD	0644	HERE6	0277	IFCOLD	2691	IRAIS2	1763	LOO280	1230	MOVE2
0874	FHPMPE	0937	FSTOVE	0645	HERE7	0261	IFDRY	2692	IRAIS3	1762	LOOK80	1231	MOVE3
0875	FHPMPF	0938	FSTOVF	0646	HERE8	0989	IFF	2693	IRAIS4	1431	LOOKHS	1232	MOVE4
0876	FHPMPG	0939	FSTOVG	0647	HERE9	1196	IFFEE	2694	IRAIS5	1419	LOOKNS	1233	MOVE5
0877	FHPMPH	0940	FSTOVH	0648	HERE10	1780	IFJ	2695	IRAIS6	1132	LOON	1234	MOVE6
0878	FHPMPI	0941	FSTOVI	0649	HERE11	1793	IFJ1	2624	IRAMP1	1133	LOON2	1235	MOVE7
0372	FIRE	0286	FRASH	0650	HERE12	1794	IFJ2	2625	IRAMP2	0007	LOT	1236	MOVE8
0373	FIREM	0198	FURAGE	0651	HERE13	1795	IFJ3	2626	IRAMP3	1565	LOT80	1237	MOVE9
0106	FIX	0199	FURMAN	0652	HERE14	1796	IFJ4	2627	IRAMP4	1074	LPRICE	1238	MOVE10
1120	FIXED	0355	FUZZ	0653	HERE15	1797	IFJ5	2628	IRAMP5	1193	LRENT	1239	MOVE11
1121	FIXED2	0356	FUZZM	1482	HERE16	1798	IFJ6	2629	IRAMP6	0241	LTS	1240	MOVE12
2498	FLINE1	0060	GARAGE	0842	HFC12	1799	IFJ7	0022	ISTATUS	0242	LTSOK	1241	MOVE13
2499	FLINE2	0061	GARGC	2495	HFLAS	1800	IFJ8	2660	IWIDE1	0006	LUC	1242	MOVE14
2500	FLINE3	0849	GASPI2	1718	HFUE80	1801	IFJ9	2661	IWIDE2	2448	LUNGO	1243	MOVE15
2501	FLINE4	0848	GASPIP	0840	HFUEL	1802	IFJ10	2662	IWIDE3	1071	LVALUE	1734	MOVE80
2502	FLINE5	1124	GPM	0841	HFUELC	1803	IFJ11	2663	IWIDE4	1745	LYR280	1229	MOVED
2503	FLINE6	1125	GPM2	0595	HHCOMP	1804	IFJ12	2664	IWIDE5	1744	LYRW80	2082	MOVEHW
0054	FLOORS	1126	GPMW	1518	HHLD	0283	IFND	2665	IWIDE6	0101	MAJADD	1259	MOVEMO
1581	FLOR80	1127	GPMW2	2488	HHNDL	1209	IFOTHF	0829	JOBNCR	0103	MAJALT	1260	MOVEYR

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1245 MOVW2	0182 NELECT	2237 NP02	2670 OHNDL5	1012 PAMTE	1487 PLC161	0693 QSAVNG
1246 MOVW3	2474 NERVES	2238 NP03	2671 OHNDL6	1013 PAMTG	1488 PLC162	0680 QSS
1247 MOVW4	0095 NEWADD	2239 NP04	2840 OLDV1	1176 PAMTI	1489 PLC163	0698 QSSI
1248 MOVW5	0218 NEWAIN	2240 NP05	2841 OLDV2	1016 PAMTO	1490 PLC164	0692 QUNEMP
1249 MOVW6	0097 NEWBTH	2241 NP06	2842 OLDV3	1014 PAMTT	1509 PLCIN5	0689 QWET
1250 MOVW7	0213 NEWC	2242 NP07	2843 OLDV4	1015 PAMTW	1505 PLCN51	0683 QWELF
1251 MOVW8	0223 NEWICST	2243 NP08	1523 OLDWT	1164 PAMTX	1506 PLCN52	0687 QWKCMP
1252 MOVW9	0216 NEWIN	2244 NP09	2756 ONO1	0399 PAR	1507 PLCN53	0158 RAATFN
1253 MOVW10	0220 NEWINW	2245 NP10	2757 ONO2	0400 PAR2	1508 PLCN54	0155 RAAWNS
1254 MOVW11	0096 NEWKIT	2246 NP11	2758 ONO3	0401 PAR3	0249 PLEAK	0521 RACE
1255 MOVW12	1086 NEWM	2247 NP12	2759 ONO4	0402 PAR4	0384 PLINE	0522 RACE2
1256 MOVW13	1088 NEWMCO	2248 NP13	2760 ONO5	0403 PAR5	0385 PLINE2	0523 RACE3
1257 MOVW14	0204 NEWMEQ	2249 NP14	2761 ONO6	0404 PAR6	0386 PLINE3	0524 RACE4
1258 MOVW15	1099 NEWMOR	2250 NP15	2732 OOTHR1	0405 PAR7	0387 PLINE4	0525 RACE5
2211 MP01	1087 NEWMOT	2251 NP16	2733 OOTHR2	0406 PAR8	0388 PLINE5	0526 RACE6
2212 MP02	1100 NEWMR2	2252 NP17	2734 OOTHR3	0407 PAR9	0389 PLINE6	0527 RACE7
2213 MP03	0093 NEWROF	2253 NP18	2735 OOTHR4	0408 PAR10	0390 PLINE7	0528 RACE8
2214 MP04	0212 NEWSO	2254 NP19	2736 OOTHR5	0409 PAR11	0391 PLINE8	0529 RACE9
2215 MP05	0209 NEWSOW	2255 NP20	2737 OOTHR6	0410 PAR12	0392 PLINE9	0530 RACE10
2216 MP06	0214 NEWSHUT	2256 NP21	2702 OPUSH1	0411 PAR13	0393 PLINE10	0531 RACE11
2217 MP07	0098 NEWSID	2257 NP22	2703 OPUSH2	0412 PAR14	0394 PLINE11	0532 RACE12
2218 MP08	0211 NEWSW	2258 NP23	2704 OPUSH3	0413 PAR15	0395 PLINE12	0533 RACE13
2219 MP09	0374 NEWTRN	2259 NP24	2705 OPUSH4	2462 PARAL	0396 PLINE13	0534 RACE14
2220 MP10	2867 NEWTV1	2260 NP25	2706 OPUSH5	2469 PARIS	0397 PLINE14	0535 RACE15
2221 MP11	2868 NEWTV2	0183 NPLF	2707 OPUSH6	2465 PARKIN	0398 PLINE15	0536 RACE17
2222 MP12	2792 NEWV1	0188 NPORTH	2594 ORAIL1	2179 PARKSZ	1880 PLPUB1	1684 RACE80
2223 MP13	2793 NEWV2	0310 NPROBS	2595 ORAIL2	1771 PAS280	1881 PLPUB2	0157 RACFAN
2224 MP14	2794 NEWV3	0631 NRLIN1	2596 ORAIL3	1856 PASS1	1882 PLPUB3	0156 RADHMD
2225 MP15	2795 NEWV4	0632 NRLIN2	2597 ORAIL4	1857 PASS2	1883 PLPUB4	0289 RAILOK
2226 MP16	0217 NEWWIN	0633 NRLIN3	2598 ORAIL5	1858 PASS3	1884 PLPUB5	0161 RANONE
2227 MP17	0222 NEWWTH	0634 NRLIN4	2599 ORAIL6	1859 PASS4	1885 PLPUB6	0160 RAPOFN
2228 MP18	0184 NFLIN	0635 NRLIN5	2684 ORAIS1	1860 PASS5	1886 PLPUB7	0154 RARUNT
2229 MP19	0185 NFILOT	0636 NRLIN6	2685 ORAIS2	1861 PASS6	1887 PLPUB8	0289 RATMIC
2230 MP20	0186 NFRPL	0637 NRLIN7	2686 ORAIS3	1862 PASS7	0272 PLUGS	0288 RATS
2231 MP21	1059 NHBILL	0638 NRLIN8	2687 ORAIS4	1863 PASS8	1590 PLUMB80	0159 RAWNFN
2232 MP22	0189 NHOTH	1091 NROWNR	2688 ORAIS5	1770 PASS80	0137 PLUMB	1535 RCLUS
2233 MP23	0180 NHPMP	1144 NRPAYM	2689 ORAIS6	1864 PASSH1	0016 PMSA	0831 RCNTRL
2234 MP24	0251 NLEAK	0181 NSTEAM	2618 ORAMP1	1865 PASSH2	1145 PMT	2261 RDMGDL
2235 MP25	1212 NLINE	0187 NSTOVE	2619 ORAMP2	1866 PASSH3	1146 PMT2	2319 RDMGHH
1158 MPRPTX	2788 NMCYL1	1610 NSUB80	2620 ORAMP3	1867 PASSH4	1147 PMT3	2348 RDMGHP
1160 MPRT	2789 NMCYL2	0035 NUCNDO	2621 ORAMP4	1868 PASSH5	0013 POP	2290 RDMGM
1670 MR280	2790 NMCYL3	0312 NUCRIM	2622 ORAMP5	1869 PASSH6	0086 PORCH	2406 RDMGNR
1671 MR380	2791 NMCYL4	0091 NUM3BED	2623 ORAMP6	1870 PASSH7	2812 PRCBP1	2377 RDMGSE
1672 MR480	0609 NMKID1	0153 NUMAIR	0584 OTH6	1871 PASSH8	2813 PRCBP2	2081 REASN1
1673 MR580	0610 NMKID2	0275 NUMBLOW	0587 OTH17	0978 PAYE	2814 PRCBP3	2080 REASON
1674 MR680	0611 NMKID3	0282 NUMCLSD	0279 OTHCLD	0990 PAYF	2815 PRCBP4	2170 RECMH
1675 MR780	0612 NMKID4	0037 NUMCND	0991 OTHF	0979 PAYG	1080 PRICE	0368 RECR
1676 MR880	2207 NOBGAS	0278 NUMCOLD	0099 OTHFIX	0980 PAYO	1078 PRICEM	0369 RECRM
1677 MR980	2205 NOLEEC	2856 NUMCYL	0048 OTHLQ	0065 PAYS	0089 PRIVB	1182 REFIN5
1678 MR1080	1549 NOINT	0263 NUMDRY	0585 OTHN	0982 PAYT	0088 PRIVN	0429 REFPPER
1679 MR1180	0313 NOISE	2180 NUMMOB	0319 OTHNHD	0981 PAYW	0672 PROFIT	0121 REFR
1680 MR1280	2194 NOLEVL	1095 NUMMOR	1205 OTHPMT	1711 PBU280	0823 PROJ	0129 REFR5
1681 MR1380	2206 NONGAS	0284 NUMND	0085 OTHRMS	0673 PBUS	1153 PTXPMT	2871 REFRIG
1682 MR1480	0654 NONREL	1265 NUMOVE	0586 OTHT	1710 PBUS80	0147 PUBSEW	1183 REFTYP
1683 MR1580	0331 NONRES	0271 NUMSEW	0248 OTLEAK	1007 PBUYE	1872 PUBTR1	0001 REGION
1072 MSALE	0341 NONRESO	2169 NUMSIT	1206 OTPMT2	1008 PBUYG	1873 PUBTR2	0430 REL
2479 MJSCLC	0352 NONRESM	0267 NUMTLT	2202 OTPRB1	1169 PBUYI	1874 PUBTR3	0431 REL2
1573 MVAC80	2210 NOOTH	1577 NUMB0	2203 OTPRB2	1010 PBUYO	1875 PUBTR4	0432 REL3
1073 MVAL	0092 NOPRIV	1576 NUM280	2204 OTPRB3	1011 PBUYT	1876 PUBTR5	0433 REL4
1214 MVG1	0311 NOPROB	0046 NUMIT2	0124 OVEN	1009 PBUYW	1877 PUBTR6	0434 REL5
1215 MVG2	1888 NOPUB1	0047 NUNITS	1061 OVER	1156 PBUYX	1878 PUBTR7	0435 REL6
1216 MVG3	1889 NOPUB2	0314 NUTRAF	2654 OWIDE1	0256 PEEL	1879 PUBTR8	0436 REL7
1217 MVG4	1890 NOPUB3	2858 NWAIR1	2655 OWIDE2	0588 PER	1070 PVALUE	0437 REL8
1218 MVG5	1891 NOPUB4	2859 NWAIR2	2656 OWIDE3	0590 PER65	1524 PWT	0438 REL9
1219 MVG6	1892 NOPUB5	1746 OCC80	2657 OWIDE4	1698 PER80	0697 QAFDC	0439 REL10
1220 MVG7	1893 NOPUB6	1747 OCC280	2658 OWIDE5	1553 PERMOT	0684 QALIM	0440 REL11
1221 MVG8	1894 NOPUB7	0332 ODOR	2659 OWIDE6	1542 PERSINT	0694 QBINV	0441 REL12
1222 MVG9	1895 NOPUB8	0342 ODORD	2186 OWNCARD	1713 PFA280	0678 QBUS	0442 REL13
1223 MVG10	1017 NORESE	0353 ODORM	0042 OWNHERE	1712 PFAR80	0686 QDIV	0443 REL14
1224 MVG11	1018 NORESG	2636 OELEV1	2836 OWNIN1	0674 PFARM	0679 QFARM	0444 REL15
1225 MVG12	1170 NORESI	2637 OELEV2	2837 OWNIN2	1589 PHON80	0700 QFS	1595 REL80
1226 MVG13	1020 NORESO	2638 OELEV3	2838 OWNIN3	0119 PHONE	0701 QFS1	0596 RELS
1227 MVG14	1021 NOREST	2639 OELEV4	2839 OWNIN4	0250 PILEAK	0699 QGAPA	1067 RENT
1228 MVG15	1019 NORESW	2640 OELEV5	1187 OWNLOT	1135 PINCO2	0688 QGOVPM	0733 RENT1
2084 NADDUS	1157 NORESX	2641 OELEV6	1188 OWNLT	1134 PINCOP	0681 QINT	0734 RENT2
0179 NAFUR	2209 NOSEW	0083 OFFICE	2185 OWNMAN	1173 PINSPT	0695 QOINV	0735 RENT3
1686 NAME80	0084 NOTHRM	2666 OHNDL1	1189 OWNNSIT	1556 PKSITE	0685 QOTHER	0736 RENT4
1536 NCLUS	0273 NOWIRE	2667 OHNDL2	2853 OWNRYV	1491 PLAC16	0691 QOUTPR	0737 RENT5
1541 NDUMRG	2208 NOWTR	2668 OHNDL3	0258 PAINT	0014 PLACE	0690 QPRVPM	0738 RENT6
0012 NEIGH	2236 NP01	2669 OHNDL4	2454 PALS	0259 PLASTER	0682 QRENT	0739 RENT7

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1733 RENT80	2356 RP05HP	2427 RP18NR	0665 SAL11	2090 SFSTAT	1631 SR880	2163 SXINH
0104 REP	2298 RP05M	2398 RP18SE	0666 SAL12	2114 SFUNIT	1632 SR980	2157 SXINV
1149 RESAMT	2414 RP05NR	2283 RP19DL	0667 SAL13	2108 SFURE	1633 SR1080	2145 SXMORT
1140 RESMOR	2385 RP05SE	2341 RP19HM	0668 SAL14	0851 SGAS	1634 SR1180	2148 SXNITE
1141 RESMR2	2270 RP06DL	2370 RP19HP	0669 SAL15	1582 SHOP80	1635 SR1280	2166 SXOTH
2873 RFGCST	2328 RP06HM	2312 RP19M	1704 SAL80	0056 SHOPS	1636 SR1380	2136 SXPCT
2872 RFGOWN	2357 RP06HP	2428 RP19NR	1705 SAL280	0027 SHORTU	1637 SR1480	2154 SXREC
2443 RIDDEN	2299 RP06M	2399 RP19SE	2091 SALIN1	0174 SHOTH	1638 SR1580	2121 SXRST
1596 RL280	2415 RP06NR	2284 RP20DL	2092 SALIN2	0357 SHP	1195 SRENT	2160 SXSEL
1597 RL380	2386 RP06SE	2342 RP20HM	1539 SAMEDU	0359 SHPCLS	0166 SSTEAM	2133 SXSHRD
1598 RL480	2271 RP07DL	2371 RP20HP	1517 SAMEHH	0358 SHPM	0172 SSTOVE	2124 SXTYPE
1599 RL580	2329 RP07HM	2313 RP20M	1946 SANTWN	0165 SHPMP	0856 SSUN	2118 SXURB
1600 RL680	2358 RP07HP	2429 RP20NR	1690 SANZ80	0120 SINK	1483 ST161	2142 SXVAL
1601 RL780	2300 RP07M	2400 RP20SE	1689 SANC80	0850 SJUICE	1484 ST162	2139 SXWKS
1602 RL880	2416 RP07NR	2285 RP21DL	2085 SASAT	0853 SKERO	1485 ST163	2151 SXXURE
1603 RL980	2387 RP07SE	2343 RP21HM	2109 SAUNIT	1904 SNEWK1	1486 ST164	2127 SYXRD
1604 RL1080	2272 RP08DL	2372 RP21HP	2103 SAURE	1905 SNEWK2	0019 STATE	2131 SY150M
1605 RL1180	2330 RP08HM	2314 RP21M	2093 SBLIN1	1906 SNEWK3	1545 STATUA	2164 SYINH
1606 RL1280	2359 RP08HP	2430 RP21NR	2094 SBLIN2	1907 SNEWK4	0023 STATUS	2158 SYINV
1607 RL1380	2301 RP08M	2401 RP21SE	2086 SBSTAT	1908 SNEWK5	1496 STAY51	2146 SYMORT
1608 RL1480	2417 RP08NR	2286 RP22DL	2110 SBUNIT	1909 SNEWK6	1497 STAY52	2149 SYNITE
1609 RL1580	2388 RP08SE	2344 RP22HM	2104 SBURE	1910 SNEWK7	1498 STAY53	2167 SYOTH
0253 RLEAK	2273 RP09DL	2373 RP22HP	0365 SCH	1911 SNEWK8	1499 STAY54	2137 SYPCT
1813 RLINE1	2331 RP09HM	2315 RP22M	1697 SCH80	1728 SMOR80	1736 STB280	2155 SYREC
1814 RLINE2	2360 RP09HP	2431 RP22NR	0367 SCHCLS	0015 SMSA	1475 STBORN	2122 SYRST
1815 RLINE3	2302 RP09M	2402 RP22SE	0366 SCHM	0858 SNO	1735 STBR80	2161 SYSEL
1816 RLINE4	2418 RP09NR	2287 RP23DL	0363 SCHNO	0175 SNONE	1471 STBRN1	2134 SYSHRD
1817 RLINE5	2389 RP09SE	2345 RP23HM	0364 SCHOK	0325 SNOW	1472 STBRN2	2125 SYTYPE
1818 RLINE6	2274 RP10DL	2374 RP23HP	0362 SCHOTH	2115 SNUMX	1473 STBRN3	2119 SYURB
1819 RLINE7	2332 RP10HM	2316 RP23M	0361 SCHPRI	2116 SNUMY	1474 STBRN4	2143 SYVAL
1820 RLINE8	2361 RP10HP	2432 RP23NR	0360 SCHPUB	2117 SNUMZ	1477 STIN5	2140 SYWKS
2263 RLVLDL	2303 RP10M	2403 RP23SE	2095 SCLIN1	0852 SOIL	0208 STORMD	2152 SYXURE
2321 RLVLHM	2419 RP10NR	2288 RP24DL	2096 SCLIN2	2852 SOLDV	0207 STORMW	2128 SYYRD
2350 RLVLHP	2390 RP10SE	2346 RP24HM	0854 SCOAL	0857 SOTHER	1476 STPLACE	2132 SZ150M
2292 RLVLM	2275 RP11DL	2375 RP24HP	2087 SCSTAT	0537 SPAN	0322 STRL	2165 SZINH
2408 RLVLNR	2333 RP11HM	2317 RP24M	2111 SCUNIT	0538 SPAN2	0336 STRLD	2159 SZINV
2379 RLVLSE	2362 RP11HP	2433 RP24NR	2105 SCURE	0539 SPAN3	0347 STRLM	2147 SZMORT
1263 RM90	2304 RP11M	2404 RP24SE	2097 SDLIN1	0540 SPAN4	0326 STRN	2150 SZNITE
1262 RMR	2420 RP11NR	2289 RP25DL	2098 SDLIN2	0541 SPAN5	0333 STRND	2168 SZOTH
1264 RMWINT	2391 RP11SE	2347 RP25HM	2088 SDSTAT	0542 SPAN6	0344 STRNM	2138 SZPCT
1261 RMYEAR	2276 RP12DL	2376 RP25HP	2112 SDUNIT	0543 SPAN7	2451 STROKE	2156 SZREC
0830 RNTADJ	2334 RP12HM	2318 RP25M	2106 SDURE	0544 SPAN8	1538 STRUCT	2123 SZRSRT
0328 ROAD	2363 RP12HP	2434 RP25NR	2083 SECADO	0545 SPAN9	0824 SUB	2162 SZSEL
0335 ROADD	2305 RP12M	2405 RP25SE	0033 SECOND	0546 SPAN10	0460 SUBF	2135 SZSHRD
0346 ROADM	2421 RP12NR	1077 RPRICE	0167 SELECT	0547 SPAN11	0461 SUBF2	2126 SZTYPE
1585 ROOM80	2392 RP12SE	0011 RURREC	2099 SELIN1	0548 SPAN12	0462 SUBF3	2120 SZURB
0073 ROOMS	2277 RP13DL	2262 RUTLDL	2100 SELIN2	0549 SPAN13	0463 SUBF4	2144 SZVAL
0074 ROOMSC	2335 RP13HM	2320 RUTLHM	1116 SELL	0550 SPAN14	0464 SUBF5	2141 SZWKS
2264 ROTHDL	2364 RP13HP	2349 RUTLHP	1117 SELL2	0551 SPAN15	0465 SUBF6	2153 SZXURE
2322 ROTHHM	2306 RP13M	2291 RUTLM	2468 SENILE	1685 SPAN80	0466 SUBF7	2129 SZYRD
2351 ROTHHP	2422 RP13NR	2407 RUTLNR	2089 SESTAT	0552 SPANR	0467 SUBF8	1150 TAXPMT
2293 ROTHM	2393 RP13SE	2378 RUTLSE	2181 SETUP	1166 SPASSX	0468 SUBF9	2481 TEMPO
2409 ROTHNR	2278 RP14DL	0597 S30	2113 SEUNIT	1030 SPBILT	0469 SUBF10	0445 TEN
2380 ROTHSE	2336 RP14HM	0599 S65	2107 SEURE	0168 SPLF	0470 SUBF11	0446 TEN2
2265 RP01DL	2365 RP14HP	1611 S280	1592 SEW80	1027 SPMTRE	0471 SUBF12	0447 TEN3
2323 RP01HM	2307 RP14M	1612 S380	0148 SEW01S	1028 SPMTRG	0472 SUBF13	0448 TEN4
2352 RP01HP	2423 RP14NR	1613 S480	0150 SEWDSC	1029 SPMTRW	0473 SUBF14	0449 TEN5
2294 RP01M	2394 RP14SE	1614 S580	0149 SEWDUS	0173 SPORTH	0474 SUBF15	0450 TEN6
2410 RP01NR	2279 RP15DL	1615 S680	0553 SEX	0414 SPOS	0114 SUBFIX	0451 TEN7
2381 RP01SE	2337 RP15HM	1616 S780	0554 SEX2	0415 SPOS2	0826 SUBINC	0452 TEN8
2266 RP02DL	2366 RP15HP	1617 S880	0555 SEX3	0416 SPOS3	0825 SUBLOC	0453 TEN9
2324 RP02HM	2308 RP15M	1618 S980	0556 SEX4	0417 SPOS4	0827 SUBMOR	0454 TEN10
2353 RP02HP	2424 RP15NR	1619 S1080	0557 SEX5	0418 SPOS5	0190 SUPHEQ	0455 TEN11
2295 RP02M	2395 RP15SE	1620 S1180	0558 SEX6	0419 SPOS6	0855 SWOOD	0456 TEN12
2411 RP02NR	2280 RP16DL	1621 S1280	0559 SEX7	0420 SPOS7	1525 SWT	0457 TEN13
2382 RP02SE	2338 RP16HM	1622 S1380	0560 SEX8	0421 SPOS8	1655 SX280	0458 TEN14
2267 RP03DL	2367 RP16HP	1623 S1480	0561 SEX9	0422 SPOS9	1656 SX380	0459 TEN15
2325 RP03HM	2309 RP16M	1624 S1580	0562 SEX10	0423 SPOS10	1657 SX480	1568 TEN80
2354 RP03HP	2425 RP16NR	0598 S3064	0563 SEX11	0424 SPOS11	1658 SX580	0028 TENURE
2296 RP03M	2396 RP16SE	0164 SAFUR	0564 SEX12	0425 SPOS12	1659 SX680	1106 TERM
2412 RP03NR	2281 RP17DL	0655 SAL1	0565 SEX13	0426 SPOS13	1660 SX780	1107 TERM2
2383 RP03SE	2339 RP17HM	0656 SAL2	0566 SEX14	0427 SPOS14	1661 SX880	0201 THERM
2268 RP04DL	2368 RP17HP	0657 SAL3	0567 SEX15	0428 SPOS15	1662 SX980	0202 THERMC
2326 RP04HM	2310 RP17M	0658 SAL4	1654 SEX80	1178 SPPREI	1663 SX1080	0203 THERMS
2355 RP04HP	2426 RP17NR	0659 SAL5	0169 SFLIN	1625 SR280	1664 SX1180	0206 THERMY
2297 RP04M	2397 RP17SE	0660 SAL6	2101 SFLIN1	1626 SR380	1665 SX1280	2463 THUD
2413 RP04NR	2282 RP18DL	0661 SAL7	2102 SFLIN2	1627 SR480	1666 SX1380	0051 TIED
2384 RP04SE	2340 RP18HM	0662 SAL8	0170 SFLOT	1628 SR580	1667 SX1480	1773 TIM28)
2269 RP05DL	2369 RP18HP	0663 SAL9	0171 SFRPL	1629 SR680	1668 SX1580	1772 TIME80
2327 RP05HM	2311 RP18M	0664 SAL10	0176 SFRPLI	1630 SR780	2130 SX150M	2003 TIMEJ

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2005	TIMEJ2	2611	URAIL6	1938	WCNTY2	1953	WKST7	1900	WMEAN5	1465	WT22SC	1275	XMEMB
2006	TIMEJ3	2630	URAMP1	1939	WCNTY3	1954	WKST8	1901	WMEAN6	1466	WT23OT	1430	XNRATE
2007	TIMEJ4	2631	URAMP2	1940	WCNTY4	1963	WKSTZ1	1902	WMEAN7	1987	WTIME1	1305	XNUNITS
2008	TIMEJ5	2632	URAMP3	1941	WCNTY5	1964	WKSTZ2	1903	WMEAN8	1988	WTIME2	1334	XOTHF
2009	TIMEJ6	2633	URAMP4	1942	WCNTY6	1965	WKSTZ3	1774	WMET80	1989	WTIME3	1323	XPAYE
2010	TIMEJ7	2634	URAMP5	1943	WCNTY7	1966	WKSTZ4	1929	WMETR1	1990	WTIME4	1331	XPAYF
2011	TIMEJ8	2635	URAMP6	1944	WCNTY8	1967	WKSTZ5	1930	WMETR2	1991	WTIME5	1324	XPAYG
0026	TIMSHR	0005	URBAN	2068	WCOMF	1968	WKSTZ6	1931	WMETR3	1992	WTIME6	1325	XPAYO
0139	TOILET	1575	URE80	1776	WDIS80	1969	WKSTZ7	1932	WMETR4	1993	WTIME7	1336	XPAYP
0032	TOTHOM	2478	UROL	2061	WDIST	1970	WKSTZ8	1933	WMETR5	1994	WTIME8	1329	XPAYT
0320	TPARK	2441	USEQUI	1522	WEIGHT	1945	WKTOWN	1934	WMETR6	1527	WWT1	1328	XPAYW
1767	TRA280	0375	USETRN	0143	WELDUS	1761	WKU280	1935	WMETR7	1528	WWT2	1310	XPER
0021	TRACT	0071	USFCAM	0142	WELL	1760	WKUN80	1936	WMETR8	1529	WWT3	1312	XPLUMB
2832	TRADE1	0070	USFCHG	2066	WFAMJB	1756	WKW80	1362	WMFAML	1530	WWT4	1326	XPROJ
2833	TRADE2	1571	VAC80	1719	WFUE80	1757	WKW280	1358	WMFEMP	1531	WWT5	1321	XRENT
2834	TRADE3	1546	VACANCY	0844	WFUEL	0247	WLEAK	1414	WMGOVP	1532	WWT6	1313	XROOMS
2835	TRADE4	1572	VACR80	1440	WHAVL	1805	WL1NE1	1354	WMGOVT	1533	WWT7	1327	XSUB
0321	TRAF	0715	VALIM	1433	WHDSN	1806	WL1NE2	1366	WMHOUS	1534	WWT8	1299	XTENURE
0334	TRAFD	1726	VALU80	1436	WHEXT	1807	WL1NE3	1356	WMJOBS	1295	XACOND	1350	XTIMEJ
0345	TRAFM	1068	VALUE	1432	WHFIN	1808	WL1NE4	1360	WMLARG	1316	XACOST	1347	XTRANJ
0377	TRAN	1130	VARM	1434	WHKIT	1809	WL1NE5	1361	WMMARR	1266	XAHEAD	1320	XVALUE
1822	TRAN1	1131	VARM2	0036	WHNCND	1810	WL1NE6	1415	WMNFIT	1277	XAINUS	1348	XVEHCL
1823	TRAN2	1118	VARY	1084	WHNRCV	1811	WL1NE7	1359	WMONHH	1306	XAPER	1346	XWORK
1824	TRAN3	1119	VARY2	2184	WHOSET	1812	WL1NE8	1367	WMOTHR	1271	XAREL	0772	YALIM
1825	TRAN4	1715	VD1280	1439	WHOTH	1406	WM01CN	1403	WMQVNR	1291	XATEN	0814	YALIM2
1826	TRAN5	0705	VDIR	2063	WHOUSE	1416	WM01IR	1353	WMPRIV	1301	XAUNIT	0815	YALIM3
1827	TRAN6	0707	VDIR	1438	WHQUL	1368	WM01JT	1363	WMQUAL	1282	XAZON	0816	YALIM4
1828	TRAN7	1714	VDIV80	1504	WHRINS	1417	WM02CI	1405	WMREPR	1296	XBCOND	0763	YDIV
1829	TRAN8	1769	VEH280	1500	WHRNS1	1369	WM02LW	0146	WNEAR	1317	XBCOST	0787	YDIV2
1766	TRAN80	1768	VEHC80	1501	WHRNS2	1407	WM02RH	2062	WNEIGH	1314	XBEDRMS	0788	YDIV3
1821	TRANSJ	1830	VEHCL	1502	WHRNS3	1418	WM03LE	1422	WNFUN	1267	XBHEAD	0789	YDIV4
0285	TRASH	1831	VEHCL1	1503	WHRNS4	1370	WM03NJ	1427	WNHOME	1278	XBINUS	1520	YEAR
0376	TRN	1832	VEHCL2	1435	WHSIZ	1408	WM03NR	1420	WNJOB	1307	XBPER	0677	YFRM
2029	TRNCH1	1833	VEHCL3	0280	WHYCLD	1371	WM04AF	1426	WNLOOK	1272	XBREL	0778	YFRM2
2030	TRNCH2	1834	VEHCL4	0264	WHYDRY	1409	WM04SL	1428	WNOTHR	1292	XBTEN	0779	YFRM3
2031	TRNCH3	1835	VEHCL5	1352	WHYMOVE	1410	WM05CI	1421	WNPEPL	1302	XBUNIT	0780	YFRM4
2032	TRNCH4	1836	VEHCL6	0828	WHYNCR	1372	WM05RT	1424	WNSCH	1283	XBZON	0769	YGOVFN
2033	TRNCH5	1837	VEHCL7	1557	WHYNOC	1373	WM06CT	1425	WNSRV	1297	XCCOND	0805	YGOVFN2
2034	TRNCH6	1838	VEHCL8	1543	WHYPER	1411	WM06NH	1423	WNTRAN	1318	XCCOST	0806	YGOVFN3
2035	TRNCH7	1777	VET80	1437	WHYRD	1374	WM07AS	1754	WORK80	1268	XCHEAD	0807	YGOVFN4
2036	TRNCH8	1778	VET280	0268	WHYTLT	1412	WM07LL	1779	WORKRS	1279	XCINUS	0764	YINT
0378	TRNM	0712	VGOVFN	1443	WHYTO	1413	WM07PA	2069	WOTHER	1311	XCOMDOC	0790	YINT2
1584	TRUC80	0708	VINT	1441	WHYTOH	1375	WM08OE	0144	WPIPED	1338	XCOSTE	0791	YINT3
0059	TRUCKS	2816	VINYR1	1429	WHYTON	1376	WM09LH	1979	WPLSZ1	1341	XCOSTF	0792	YINT4
0138	TUB	2817	VINYR2	2182	WIDE	1377	WM100S	1980	WPLSZ2	1339	XCOSTG	0675	YIWS
2445	TUBERC	2818	VINYR3	2183	WIDTH	1378	WM11WD	1981	WPLSZ3	1343	XCOSTO	0781	YIWS2
2470	TUMOR	2819	VINYR4	1921	WINUS1	1379	WM12CR	1982	WPLSZ4	1342	XCOSTP	0782	YIWS3
2869	TV1CST	1058	VOLTS	1922	WINUS2	1380	WM13NM	1983	WPLSZ5	1340	XCOSTT	0783	YIWS4
2870	TV2CST	1717	VOT280	1923	WINUS3	1381	WM14FI	1984	WPLSZ6	1344	XCOSTW	0774	YOTHER
2862	TVBW	1716	VOTH80	1924	WINUS4	1382	WM15FD	1985	WPLSZ7	1308	XCPER	0820	YOTHER2
2863	TVCOL	0704	VOTHER	1925	WINUS5	1383	WM16EH	1986	WPLSZ8	1273	XCREL	0821	YOTHER3
1729	TXIN80	0716	VOUTPR	1926	WINUS6	1384	WM17FR	0837	WRHTAS	1293	XCTEN	0822	YOTHER4
1151	TXPMT2	0714	VPRVFN	1927	WINUS7	1385	WM18OC	1755	WRK180	1303	XCUNIT	0773	YOUTPR
0050	TYPE	0709	VRENT	1928	WINUS8	1386	WM19RC	2188	WRNTE	1284	XCZON	0817	YOUTPR2
1579	TYPE80	0702	VSS	1955	WKCBD1	1387	WM20CM	2064	WSCH	1298	XDCOND	0818	YOUTPR3
2648	UELEV1	1706	VSS80	1956	WKCBD2	1388	WM21WC	2876	WSHCST	1319	XDCOST	0819	YOUTPR4
2649	UELEV2	1707	VSS280	1957	WKCBD3	1389	WM22NC	2875	WSHOWM	1269	XDHEAD	0771	YPRVFN
2650	UELEV3	0670	VTOTAL	1958	WKCBD4	1390	WM23BN	2065	WSHP	1280	XDIMUS	0811	YPRVFN2
2651	UELEV4	0710	VUNEMP	1959	WKCBD5	1391	WM24BI	0845	WSOLAR	1351	XDISTJ	0812	YPRVFN3
2652	UELEV5	0706	VUW	1960	WKCBD6	1392	WM25OR	1444	WT01JT	1309	XDPER	0813	YPRVFN4
2653	UELEV6	0713	VWET	1961	WKCBD7	1393	WM26BH	1445	WT02LW	1274	XDREL	1083	YRBUY
0069	UNITSF	1709	VWE280	1962	WKCBD8	1394	WM27RR	1446	WT03NJ	1294	XDTEN	1082	YRBUYM
2768	UNO1	1708	VWEL80	0617	WKDGO1	1395	WM28MC	1447	WT04AF	1304	XDUNIT	2820	YRBUYV1
2769	UNO2	0703	VWELF	0618	WKDGO2	1396	WM29LE	1448	WT05RT	1285	XDZON	2821	YRBUYV2
2770	UNO3	0711	VWKCMP	0619	WKDGO3	1397	WM30CC	1449	WT06CT	1335	XFARP	2822	YRBUYV3
2771	UNO4	2067	WAFORD	0620	WKDGO4	1398	WM31DP	1450	WT07AS	1270	XHEAD	2823	YRBUYV4
2772	UNO5	0127	WASH	1971	WKPLC1	1399	WM32PA	1451	WT08OE	1349	XHJOB	0765	YRENT
2773	UNO6	0133	WASH5	1972	WKPLC2	1400	WM33SC	1452	WT09LH	1442	XHRATE	0793	YRENT2
2744	UOTHR1	2874	WASHER	1973	WKPLC3	1401	WM34ND	1453	WT10CR	1330	XIFF	0794	YRENT3
2745	UOTHR2	1591	WAT80	1974	WKPLC4	1402	WM35OT	1454	WT11FR	1345	XIFJ	0795	YRENT4
2746	UOTHR3	0140	WATER	1975	WKPLC5	1365	WMCHEP	1455	WT12LC	1332	XIFP	1104	YRMOR
2747	UOTHR4	0141	WATERC	1976	WKPLC6	1364	WMCHTN	1456	WT13RC	1333	XINCP	1105	YRMOR2
2748	UOTHR5	2172	WBLOC	1977	WKPLC7	1357	WMCLOS	1457	WT14CM	1281	XINUS	0025	YRRND
2749	UOTHR6	2177	WBNVST	1978	WKPLC8	1404	WMCNDO	1458	WT15WC	1467	XLINE1	0676	YSLF
2440	UPDOWN	2178	WBOTHR	1947	WKST1	1355	WMDISL	1459	WT16NC	1468	XLINE2	0775	YSLF2
2606	URAIL1	2173	WBQUAL	1948	WKST2	1775	WME280	1460	WT17BN	1469	XLINE3	0776	YSLF3
2607	URAIL2	2175	WBSAFE	1949	WKST3	1896	WMEAN1	1461	WT18BI	1470	XLINE4	0777	YSLF4
2608	URAIL3	2174	WBSIZE	1950	WKST4	1897	WMEAN2	1462	WT19MC	1276	XLOC	0762	YSS
2609	URAIL4	2176	WBXPEN	1951	WKST5	1898	WMEAN3	1463	WT20LE	1288	XLOT	0784	YSS2
2610	URAIL5	1937	WCNTY1	1952	WKST6	1899	WMEAN4	1464	WT21CC	1289	XLOTR	0785	YSS3

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2037 YTRNJ1 1337 ZXPARK  
2038 YTRNJ2 1322 ZXRENT  
2039 YTRNJ3 1300 ZXTEN  
2040 YTRNJ4  
2041 YTRNJ5  
2042 YTRNJ6  
2043 YTRNJ7  
2044 YTRNJ8  
0767 YUNEMP  
0799 YUNEMP2  
0800 YUNEMP3  
0801 YUNEMP4  
0770 YVET  
0808 YVET2  
0809 YVET3  
0810 YVET4  
2045 YVHCL1  
2046 YVHCL2  
2047 YVHCL3  
2048 YVHCL4  
2049 YVHCL5  
2050 YVHCL6  
2051 YVHCL7  
2052 YVHCL8  
0766 YWELF  
0796 YWELF2  
0797 YWELF3  
0798 YWELF4  
0768 YWKCMP  
0802 YWKCMP2  
0803 YWKCMP3  
0804 YWKCMP4  
0224 ZADEQ  
0589 ZADULT  
0505 ZAGE  
0045 ZBUILT  
0594 ZCHILD  
1699 ZCOM80  
0600 ZCOMP  
0087 ZCROWD  
0226 ZDEFM  
2012 ZDIST1  
2013 ZDIST2  
2014 ZDIST3  
2015 ZDIST4  
2016 ZDIST5  
2017 ZDIST6  
2018 ZDIST7  
2019 ZDIST8  
1703 ZIN280  
0621 ZINC  
0623 ZINC2  
1702 ZINC80  
0622 ZINCA  
0624 ZINCB  
1700 ZKID80  
1743 ZLA280  
1742 ZLAB80  
0002 ZMETRO  
0380 ZMOVE  
0020 ZONE  
0067 ZPARK  
0068 ZPARK2  
1079 ZPRICE  
1076 ZPRICEM  
1732 ZREN80  
1064 ZRENT  
1065 ZRI  
0381 ZSERVM  
0382 ZSERVM2  
1725 ZSHM80  
1062 ZSMHC  
1063 ZSMHCP  
0040 ZSPEC  
0379 ZSTRM  
0041 ZTRV  
1031 ZUTIL  
1032 ZUTIL2  
1069 ZVI  
1315 ZXCROWD

## QUICK REFERENCE LIST OF MAJOR AHS VARIABLES, WITH CODES USED ON 1985 NATIONAL SURVEY

The questionnaire at the back of any AHS publication and the codebook show many other questions. Most variables have a code for not applicable (e.g. for vacant units or non-interviews) which is the digit 9, repeated for as many columns as the variable has (e.g. 9, 99, 9999). Exceptions are listed.

Variable Num-  
ber and Name

### Geography

1	REGION	1 Northeast, 2 Midwest (North Central), 3 South, 4 West
3	METRO	1 Central City, 2 Urbanized Suburb, 3 Other Urban Suburb, 4 Rural Suburb, 5 Urbanized Nonmetro, 6 Other Urban Nonmetro, 7 Rural Nonmetro
12	NEIGH	1-680 any cases with same number are in same cluster of neighbors, 9999 NA
15	SMSA	80-9320 Standard MSA codes, 9999 Nonmetro or suppressed MSA, Page 11 of Code Book

### General

22	ISTATUS	1 Occupied, 2 Reside elsewhere, 3 Vacant, 4 Non-Interview
28	TENURE	1 Own, 2 Rent, 3 No Cash Rent
44	BUILT	1 '79, 2 '75-78, 3 '70-74, 4 '60s, 5 '50s, 6 '40s, 7 '30s, 8 '20s, 9 pre '20, 80-85 '80-85
47	NUNITS	1-101+ Units
50	TYPE	1 House/Apt, 2 Mobile Home no permanent room added, 3 Mobile Home permanent room added, 4 Residential Hotel, 5 Transient Hotel, 6 Rooming House, 7 Boat/RV, 8 RR Car, 9 Other Unit; Non-Hsg units: 10 Boarding House, 11 Dorm, 12 Mobile Home Site, 13 Hotel, 14 Other
69	UNITSF	0 Don't Know, 1-5001+ sq ft
73	ROOMS	1-21+ Rooms
75	BEDRMS	0-10+ Bedrooms
77	BATHS	0-10+ Bathrooms

### Equipment

117	KITCHEN	1 Complete, 2 No Complete Kitchen: sink, refrigerator, burner(s)
137	PLUMB	1 Yes complete, 2 Items missing, 3 All three items missing -- hot water, toilet, tub or shower
162	HEQUIP	1 Heating ducts, 2 Radiators, 3 Heat pump, 4 Other permanent electric, 5 Wall furnace, 6 vented heater, 7 Unvented kerosene heater, 8 Portable electric heater, 9 Stove, 10 Fireplace with insert, 11 Fireplace without insert, 12 Other, 13 No Heater
204	NEWMEQ	1 New equipment, major replacement, 2 No, 3 This household replaced, 4 Replaced by other
205	CSTMEQ	0-9996+ (\$0-\$9,996 or more) for equipment/major replacement

### Unit Quality

224	ZADEQ	1 Adequate, 2 Moderately Inadequate, 3 Severely Inadequate
225	HOWH	1-10 Worst to Best Scale, 98 Not answered
227	CSTMNT	0 Nothing spent, 1-9997 (\$1-\$9,997) spent on maintenance in past year

### Neighborhood

291	HOWN	1-10 Worst to Best Scale, 0 No neighborhood, 98 Not Answered
304	EAGE	1 Other Buildings within 300ft are older, 2 Same age, 3 Newer, 4 Ages Mixed, 5 No buildings
305	EABAN	1 One abandoned/boarded, 2 More than one, 3 No/none
308	EROAD	1 Major repairs needed, 2 Minor repairs, 3 No repairs needed
312	NUCRIM	0 Crime not bothersome, 1 Crime bothersome
357	SHP	1 Shopping facilities adequate, 2 Inadequate, 3 Don't Know
359	SHPCLS	1 Yes, grocery or drug store within 1 mile, 2 No
374	NEWTRN	1 Yes, public transportation available, 2 No
376	TRN	1 Adequate public transportation, 2 Inadequate, 3 Don't Use

### Household Composition

431	REL2	3 Husband of Reference person, 4 Wife, 5 Child, 6 Parent, 7 Sibling, 8 Other relative, 9 Non-relative with own relative present, 10 Non-relative without relative present
490	AGE	0-91+ Years old
506	MAR	1 Married, 2 Widowed, 3 Divorced, 4 Separated, 5 Never married
521	RACE	1 White, 2 Black, 3 Indian, 4 Asian, 5 Other
537	SPAN	1 Hispanic or Spanish American, 2 Not Hispanic or Spanish
553	SEX	1 Male, 2 Female
588	PER	1-98 Persons in household
589	ZADULT	0-11+ Adults in household (18 or older)

### Income

621	ZINC	-10000 to 999996 Reference person & relatives' income, usually top code is \$100001
623	ZINC2	-10000 to 999996 Household income, usually top code is \$100001
655	SAL1	0-100001+ Salary of Reference person
681	QSS	1 Yes Social Security Income or Pension, 2 No
683	QWELF	1 Yes Welfare or Social Security Income, 2 No
696	INV20K	1 Yes savings/investments over \$20,000, 2 No, 8 Not answered
701	QFS1	1 Yes received food stamps, 2 No
704	VOTHER	-1000 to 100001+ Total non-salary income of Reference person and relatives

### Housing Assistance

823	PROJ	1 Yes publicly owned housing, 2 No
824	SUB	1 Yes Federal Government pays some cost of unit, 2 No
825	SUBLOC	1 Yes State or local government pays some cost of unit, 2 No
826	SUBINC	1 Yes household income reported so rent can be set, 2 No
827	SUBMOR	1 Yes low cost mortgage obtained through government program

### Utilities

960	BUYE	1 Electricity not used, 2 Included in rent or fees, 3 Free
972	AMTE	1-261+ Average Monthly Cost of Electricity

### Housing Cost

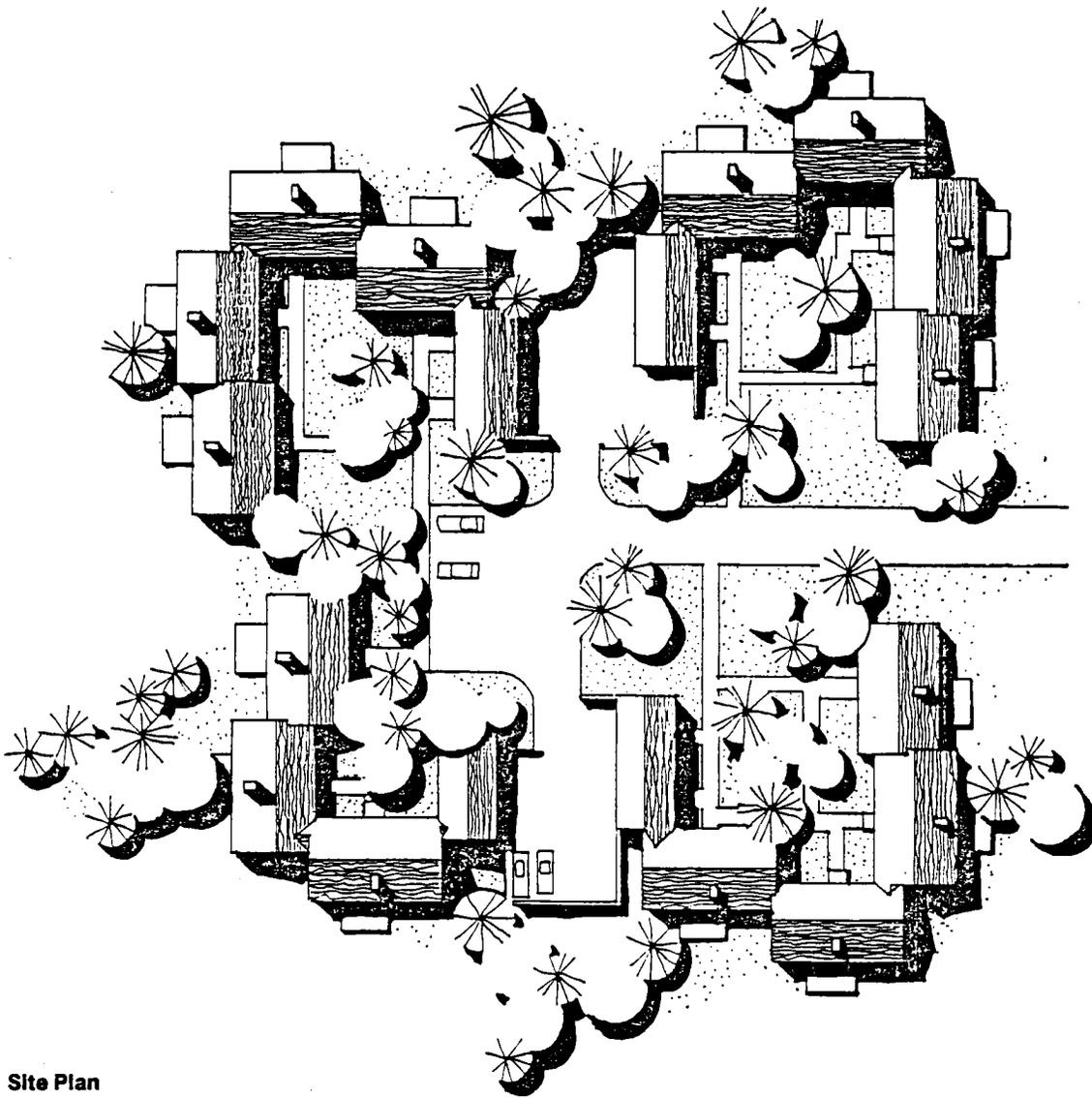
1062	ZSMHC	1-99996 Monthly housing costs, 99998 mortgage payment not reported
1067	RENT	1-751+ Monthly contract rent
1068	VALUE	1-250001+ (\$1-\$250,001 or more) value of property
1095	NUMMOR	1-6 Mortgages, 8 Not Answered, 9 No Mortgage or renter etc.
1110	INT	0000-9997 (0.00% to 99.97%) interest rate on primary mortgage
1145	PMT	1-2001+ (\$1-\$2,001 or more) primary mortgage payment, 99998 not answered
1146	PMT2	1-2001+ (\$1-\$2,001 or more) second mortgage payment, 99998 not answered
1162	AMTX	0 None, 1-20 Yearly property tax by \$50 intervals to \$1,000, 21-36 by \$100s to \$2,500+

### Mobility

1229	MOVED	100 Reference person born in unit, 1-85 year moved in
1261	RMYEAR	1 Yes reference person moved here last 12 months, 9 No or Not applicable
1291	XATEN	1 Owned/buying previous unit, 2 Rented, 3 No cash rent
1316	XACOST	1 Increased housing cost, 2 Same cost, 3 Decreased cost, 4 Don't Know
1446	XHRATE	1 Better than old house, 2 Worse, 3 About the same

### Sample Status & Allocation

1515	CONTROL	Consistent control number for matching the same homes 85N-93N, 12 digits
1522	WEIGHT	Adjusts for sample design, and for non-response, 8 digits including 2 implicit decimal places
1546	VACANCY	1 Vacant for rent, 2 For rent or sale, 3 For sale, 4 Rented, not yet occupied, 5 Sold, not yet occupied, 6 Held for occasional use, 7 Other year round units, 8 for summer use, 9 for winter use, 10 Other season, 11 Migrants, 99 Occupied or Non-interview



**Site Plan**

**Site Plan for Attached Truss Frame Units**

Modifications of this truss frame design can be built on both flat and sloping sites, and in a variety of unit clustering arrangements. Variations in siding materials, site plans and unit orientations allow truss frames to be used in large housing developments in an aesthetically pleasing manner.

The site plan provided here exemplifies the flexibility of truss frame applications to residential construction. Each unit is provided two parking spaces and total density is approximately 7.5 units per acre.



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