

**CODEBOOK FOR THE  
AMERICAN HOUSING SURVEY**

DATABASE 1973 to 1993

This book covers national and metropolitan surveys from 1973 to 1993.

Louise Hadden  
Mireille Léger

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**1990**

## TABLE 1 - Dates of AHS Metropolitan Surveys

PMSA CODE	TYPE	WHEN EACH AREA WAS SURVEYED					
		74-6	77-9	80-3	84-7	88-91	
160	S1	74	77	80			Albany
240	S1	76		80			Allentown
360	P1	74	77	81	86	90	Anaheim +
520	M1	75*	78*	82	87	91	Atlanta
720	M1	76	79	83	87	91	Baltimore
1000	M1	76		80	84	88	Birmingham
1120	C6	74*	77*	81	85	89	Boston
1280	C2	76	79	83	84	88	Buffalo +
1600	P4	75*	79*	83*	87	91	Chicago
1640	P1	75	78	82	86	90	Cincinnati +
1680	P1	76	79		84	88	Cleveland +
1720	S1	75	78				Colorado Springs
1840	M1	75	78	82	87	91	Columbus
1920	P1	74	77	81	85	89	Dallas +
2080	C2	76	79	83	86	90	Denver
2160	P1	74*	77*	81	85*	89	Detroit
2800	P1	74	77	81	85	89	Fort Worth
3000	S1	76		80			Grand Rapids
3280	C4	75	79	83	87	91	Hartford
3320	S1	76	79	83			Honolulu
3360	P2	76*	79*	83	87	91	Houston, new sample in 87
3480	M1	76		80	84	88	Indianapolis +
3760	M1	75	78	82	86	90	Kansas City
4120	S1	76	79				Las Vegas
4480	P1	74*	77*	80*	85*	89	Los Angeles +
4520	S1	76		80,83			Louisville
4720	S1	75	77	81			Madison
4920	M1	74	77	80	84	88	Memphis
5000	C2	75	79	83	86	90	Miami
5080	P1	75	79		84	88	Milwaukee +
5120	M1	74	77	81	85	89	Minneapolis
5560	M1	75	78	82	86	90	New Orleans
5600	P3	76*		*80,83*	87	91	New York
5640	P5	74	77	81	87	91	Newark
5680	M1	75	78		84	88	Newport News
5880	M1	76		80	84	88	Oklahoma City
5920	S1	76	79				Omaha
5960	S1	74	77	81			Orlando
6040	S1	75	78	82			Paterson, merged into Newark area in 87
6160	P1	75*	78*	82	85*	89	Philadelphia +
6200	M1	74	77	81	85	89	Phoenix +
6280	C2	74	77	81	86	90	Pittsburgh
6440	C2	75	79	83	86	90	Portland, OR
6480	P2	76		80	84	88	Providence
6640	S1	76	79				Raleigh
6840	M1	75	78	82	86	90	Rochester
6920	S1	76		80,83			Sacramento
6960	S1	74	77	80			Saginaw, 1974 tape not released
7040	C3	76*		*80,83	87	91	St. Louis
7160	M1	74	77	80	84	88	Salt Lake City
7240	M1	75	78	82	86	90	San Antonio
7280	P1	75	78	82	86	90	San Bernardino +
7320	P1	75	78	82	87	91	San Diego +
7360	P2	75*	78*	82	85*	89	San Francisco +
7400	P1				84	88	San Jose
7600	C2	76*	79*	83	87	91	Seattle
7840	S1	74	77	81			Spokane
8000	S1	75	78				Springfield
8200	S1	74	77	81			Tacoma, merged into Seattle area in 87
8280	M1				85	89	Tampa
8840	M1	74*	77*	81	85*	89	Washington
9040	S1	74	77	81			Wichita

"TYPE": S=SMSA, P=PMSA, M=MSA, C=CMSA. The number of PMSAs included is also shown.  
 \* Area had a larger sample size than average. Sample sizes are shown in Tables 2 & 4.  
 + Same boundaries after 1983. Elsewhere, broader areas are surveyed after 1983.  
 In all areas, old sample cases remain in sample, plus a sample of new units.  
 Exact counties surveyed are listed in Tbl.4 in the Geography section of the Codebook.

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## INTRODUCTION TO THE AMERICAN HOUSING SURVEY

prepared by Paul Burke

The American Housing Survey (AHS) can answer many of your questions about U.S. people and homes, with a national sample of about 50,000 interviews every other year. The AHS also gives you in depth surveys of major metropolitan areas, going back to each area about once every four years.

The AHS gives you data on highrises, houses, mobile homes, vacant homes, wage and non-wage income, housing and neighborhood quality, etc. The AHS asks homeowners about repairs and mortgages, renters about rent control and rent subsidies, recent movers about the home they left and why they moved, workers about their commute. For each person, whether adult or child, the AHS shows: age, sex, relationships, education, wages, and the date they moved into their home. The tapes identify many local areas: large counties, cities, and metropolitan areas (see pages 11-23), but not whole states.

To see homes and households changing over long periods of time, the survey goes back to the same housing units year after year (plus new construction). The Census Bureau has done the survey for the U.S. Department of Housing and Urban Development (HUD) since 1973. 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, and was called the Annual Housing Survey.

### HOW TO USE THIS CODEBOOK

This *Codebook* shows what information is available on each computer tape. You can start by using the **subject headings** in the Table of Contents, or by browsing through the sample **questionnaire** at the end of this Introduction (it shows the name of each variable and its sequence number in this book), or by using the quick **Indexes** at the back of the book.

The computer file contains raw data from each interview ("microdata"), which can be added up using the variable WEIGHT (see below) to prepare new findings not available in the published books. The record **layout**, printed in this book after the sample questionnaire, shows which columns of each record contain each question. The main body of this book shows the **codes** present in each question each year.

For example, if you want 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 cost, and there are separate questions on mortgage costs, rent, taxes, utilities, etc.

Some questions are asked in all 35 surveys, some are not. Be careful to find questions that are available on the file you have. This *Codebook* shows when each question was asked. Even within a survey, be careful of homes where a question is not applicable, such as vacant homes, demolished homes, newly built homes, etc. The *Codebook* shows codes for each of 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).

Each interview on the tape represents a varying number of other homes, since this is a sample survey, and different homes are sampled at different rates. The variable **WEIGHT** (page 202) on each interview shows how many homes that sample case represents. It has two implicit decimal places, so for example 206925 on the tape means 2069.25 homes. When you prepare a table from the tape, add up the values of **WEIGHT**, case by case, to estimate the complete number of homes. Compare the total number of homes 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. You should also be aware that standard errors calculated by most statistics packages are greatly understated since they use the weighted total as the sample size. For corrections, see Chapter 1.

**Correct samples** should be chosen by using the variable **ISTATUS**, page 32 (use cases coded 1 for occupied homes, cases coded 2 or 3 for vacant homes). On national files from 1974N-83N you should also use the variable **RURREC**, page 9 (use cases coded 1 for the basic national sample; cases coded 2 are only for specialized rural studies, as explained in the introduction to the Geography section).

## Sample Entry

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0291	HOWN	73N-79N 81N 83N 85N-93N 74S-93S	<b>Resident's Satisfaction With Neighborhood</b> 73N-79N 85N-93N 81N, 83N 84S-93S 74S-83S	50	32	9	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 88 Not Answered 99 Not Applicable				

**REF# and Name** The number provides a convenient sequential reference. The name attempts to describe the content of the question. Whenever possible, questions in new questionnaires have the same name as in earlier surveys, even if the question was modified.

**Surveys** This entry shows the years and surveys where the question is available. A year followed by "N" means the question is in that National survey, and a year followed by "S" means the question is in the Metropolitan Statistical Area survey. Note that the survey was conducted only in odd years from 1981 on, so a range of 74N-93N means the question is available each year from 1974 through 1981 and odd years thereafter.

**Description** This entry describes the question as briefly and accurately as possible. Users should refer to the actual question in the Questionnaire to understand the exact intent of the question. To help identify current questions, the questions present in 1984-5 are in bold print.

**Codes** Answer categories and codes have changed over the years for many questions. These changes are shown through the use of separate columns. The column heading shows the surveys where each set of codes applies.

**Page on Questionnaire** This entry gives the page number on selected questionnaires. Up to 4 entries include: the last year the question was available before the questionnaires were

extensively revised in 1984, and the first year it is available in the redesigned questionnaires (generally 1984S and 1985N). A blank means the question was not on some of these questionnaires. "G" means the variable was computer generated. "C" followed by a page number means the item comes from the control card rather than the Questionnaire. In the section on 1980 Census Variables page numbers refer to the 1980 Census long form questionnaire. If a question appears on more than one page of a 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 Publications, below) reports every page number and every survey.

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

## MAJOR DEFINITION CHANGES

Several **geography** variables and **tenure, units** in structure, etc., have changed coding. See the main body of this book. Starting in 1981N and 79S-83S the **weighting** variable WEIGHT is adjusted on the basis of 1980 Census results; previously it was adjusted on the basis of 1970 Census results; the national count of units therefore rose almost two million units, mostly because the 1980 Census had much less under-count than the 1970 Census. A similar adjustment with 1990 Census results will be done in 1991N and 90S-93S. Starting in 1985N and 1983S the weighting variable PWT is also available and covers non-interviews as well as interviews.

Starting in 1984 the AHS collects the **cost** of housing for all homes; previously cost was not collected on homes with more than 10 acres nor on owner-occupied homes in multi-unit buildings such as duplexes or condominiums. Also starting in 1984 gross rent is stored in the same variable as ownership cost, which is ZSMHC; previously it was stored in ZRENT. Utility variables for owners and renters have similarly been combined. Starting in the 1984 AHS, the total housing cost of renters (gross rent) includes property insurance, if any; previously it did not.

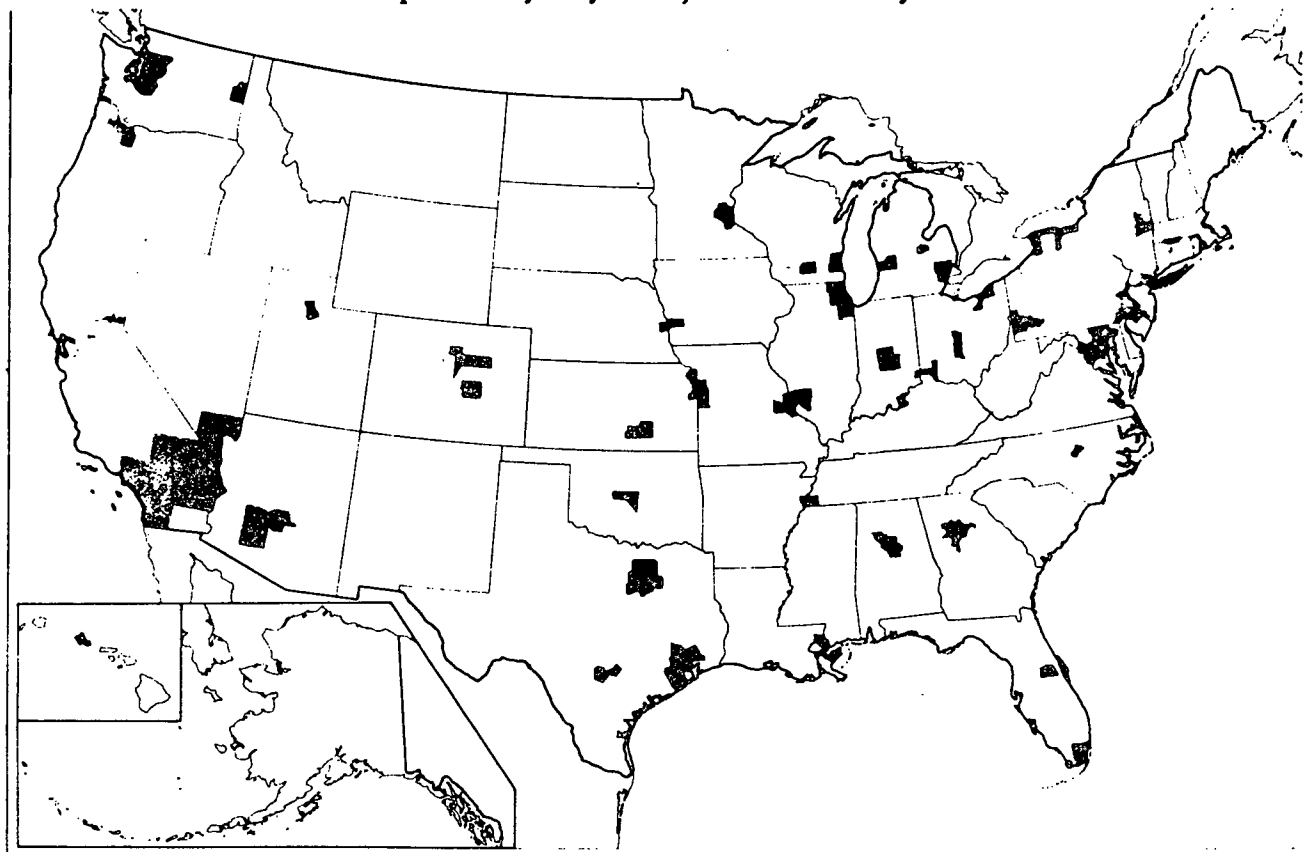
Starting in 1989 the AHS asks households the amount of their **gas and electric** bills for the most recent January, April, August and December, and uses a regression to estimate the annual average; previously respondents were asked to come up with an annual average in their heads; this is still done for people who cannot give at least 2 of the 4 months, but it has been found to give a 10% overestimate on average (see p. 1-10 at the end of this book). Starting in 1989N and 90S the AHS asks **subsidized** renters what the family is required to pay each month (PRENT, p. 147), since there has been concern that RENT may sometimes elicit the total

landlord charge, paid partly by the government; PRENT is used in calculating total monthly housing cost, ZSMHC.

Starting in 1989N and 90S the AHS asks **expected income** in the coming year, if a major change in income has already started (ZINCN and ZINCH, p. 112); this is used in publications for calculating the ratio of housing cost to income.

Starting in the 1980 AHS and Census, the **householder** can be any adult whose name is on the title or lease; previously the term was head of household, and was arbitrarily the husband in husband-wife families. Starting in the 1984 AHS and 1980 Census, **vacant mobile homes**, boats and RVs are counted as housing units; previously vacant ones were not. Starting in the 1984 AHS and 1980 Census, a household that reaches its home **through someone else's** home is considered part of the same household; previously the two households were considered separate if each 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 1991, the AHS identifies units **for sale** or for rent which are not yet vacant, since this is a major part of at least the sales market (MARKET, p. 205). Also starting in 1991 the AHS classifies **URE** units as for rent, sold not yet occupied, etc.; previously they were just classified as year-round or seasonal.





## SAMPLES AVAILABLE

The American Housing Survey has two separate parts: (a) a national survey of housing units throughout the country, and (b) surveys in selected metropolitan areas. Each metropolitan survey has 3,000-15,000 interviews. Table 1 shows when each area has been and will be surveyed.

The national survey covers 50,000-80,000 homes, a completely different sample from the homes in the metropolitan survey. One basic sample, growing slightly to include new homes, was visited every fall from 1973-81, and in 1983. Then the AHS drew a new sample from the 1980 Census to use every other year from 1985 on.

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, 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 variables NEIGH and RURREC 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 - Sample Sizes and File Sizes in the AHS

National Survey Year	1991	1989	1987	1985	1983	1981	1980	1979	1978	1977	1976	1975	1974	1973
Total National Sample (000s)	58	60	54	53	78	60	80	79	78	77	80	78	77	60
Neighbor Supplement (000s)		10		7										
Rural Supplement (000s)	6		6		19	2	19	19	19	18	18	17	16	
Original National Sample (000s)	52	50	48	46	59	58	61	60	59	59	62	61	61	60
Characters of Data per Record	1934	1934	1934	3132	1482	1440	1710	990	1488	994	812	810	771	399
Millions of Characters per File	112	116	104	166	116	86	137	78	116	77	65	63	59	24
Start of Interviewing		JUL19	JUL20	AUG26	JUL28	AUG4	AG13	AG28	SE26	OC17	SE20	SE29	JL29	JL25
End (in same or subsequent year)		JAN31	JAN18	JAN24	JAN20	JAN15	DE29	DE21	FEB6	FE13	JA14	DE31	NOV4	NOV5

Occupied units are about 80% of each sample. Others are vacant (11%), refusals (3%), converted to business use, demolished, etc. A new national sample was used starting in 1985. 1980 census records will be available on this sample, to give it some history.

Metropolitan Survey Year	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
Total Metropolitan Sample (000s)	36	36	36	44	36	36	55	47	64	51	73	111	121	114	142	150	147	132
Number of Areas	11	11	11	11	11	11	11	11	13	12	15	15	15	15	20	20	21	19
Basic Sample per Area (000s)	3	3	3	4	3	3	4	4	4	4	5	5	6	5	5	5	5	5
*Big Sample, Areas Starred in Table 1							7		9			15	18	16	15	16	15	15
Characters of Data per Record	1934	1934	1934	1934	1934	1934	2215	2215	1098	1692	1437	1437	1248	933	920	895	730	431
Millions of Characters per File	70	70	70	85	70	70	122	104	70	86	105	160	151	106	131	134	107	57
Millions of Chars. for 1 Basic Area	6	6	6	8	6	6	9	9	4	7	7	7	7	5	5	4	4	2
Start of Interviewing	MAR	JUN	MAR	APR	APR	MAY	MAR	AUG	APR	APR	APR	APR	APR	APR	APR	APR	APR	APR
End (in same or subsequent year)	NOV	NOV	NOV	JAN	FEB	DEC	DEC	DEC	DEC	DEC	MAR	MAR	MAR	MAR	FEB	MAR	MAR	MAR

## PUBLICATIONS

HUD and the Census Bureau publish 200-500 page books of results from each survey. There is one basic book for each national survey from 1985 on (series H-150), and a second book published some years later on supplementary topics like second homes and commuting (series H-151). There were six books for each national survey from 1973-83 (series H-150).

There is one book for each metropolitan area whenever it is surveyed (series H-170). There are also metropolitan summary books in some years (series H-171), which include extracts of the other books and sometimes other topics: housing and neighborhood quality (1975) and commuting (1984+).

All books are available from: HUD USER, Box 280, Germantown, MD 20874, (800) 245-2961 or (301) 251-5154. They have recent books for a handling charge of \$3 each. For older books, chapters or whole books can be photocopied for \$5-\$36, depending on length. They accept credit cards.

The most recent national book is also available from the U.S. Government Printing Office, Washington, DC 20402, (202) 783-3238 for about \$28. This *Codebook*, recent Metropolitan books and *microfiche* of all books are available from Data User Services Division, Bureau of the Census, Washington, DC 20233, (301) 763-4100, fax (301) 763-4794.

Each National Book shows data for the U.S., four Census regions, Blacks and Hispanics. Starting in 1985, most of the information is contained in a single book.

Topics	Breakdown	Identifier	Years Available
General	By all topics	-	1985-Present
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 Part F	1978-1983 1973-1977
Energy	Summary (Equipment, Fuels, Utility Costs, Commuting)	Part F	1978-1983

The metropolitan publications up through 1983 showed data for the total of all suburbs in an area and the total of all central cities. From 1984 on, publications show brief data (total units, renters, hispanics, movers, poor, elderly, etc.) on each county where sample size permits. They also have very detailed data on three major subareas, listed below.

<b>Anaheim, 86</b> Santa Ana Garden Grove	<b>Cleveland, 84</b> Bal. Cuyahoga Co. Lake Co.	<b>Indianapolis, 84</b> Hamilton Co. Johnson Co.	<b>New York, 87</b> Nassau Co. Suffolk Co.	<b>Providence, 84</b> Warwick Cranston	<b>San Jose, 84</b> Sunnyvale Bal. Santa Clara Co.
<b>Atlanta, 87</b> Bal. DeKalb Co. Cobb Co.	<b>Columbus, 87</b> Franklin Co. Licking Co.	<b>Kansas City, MO, 86</b> Kansas City, KS Bal. Jackson Co.	<b>Newark, 87</b> Bergen Co. Middlesex Co.	<b>Riverside, 86</b> Bal. Riverside Co. San Bernardino City	<b>Seattle, 87</b> Balance King Co. Pierce Co.
<b>Baltimore City, 87</b> Baltimore Co. Anne Arundel Co.	<b>Dallas City, 85</b> Balance Dallas Co. Collin Co.	<b>Los Angeles City, 85</b> Long Beach Bal. Los Angeles Co.	<b>Norfolk, 84</b> Virginia Beach Newport News	<b>Rochester, 86</b> Bal. Monroe Co. Ontario Co.	<b>Tampa, 85</b> St. Petersburg Balance Pinellas Co.
<b>Birmingham, 84</b> Bal. Jefferson Co. Walker Co.	<b>Denver, 86</b> Jefferson Co. Arapahoe Co.	<b>Memphis, 84</b> Balance Shelby Co. De Soto Co.	<b>Oklahoma City, 84</b> Bal. Oklahoma Co. Bal. Cleveland Co.	<b>St. Louis City, 87</b> St. Louis Co. St. Clair Co.	<b>Washington, 85</b> Prince George's Co. Fairfax Co.
<b>Boston, 85</b> Cambridge Brockton	<b>Detroit, 84</b> Balance Wayne Co. Oakland Co.	<b>Miami, 86</b> Balance Dade Co. Ft. Lauderdale	<b>Philadelphia, 85</b> Montgomery Co. Delaware Co.	<b>Salt Lake City, 84</b> Bal. Salt Lake Co. Davis Co.	
<b>Buffalo, 84</b> Balance Erie Co. Niagara Falls	<b>Ft. Worth, 85</b> Arlington Balance Tarrant Co.	<b>Milwaukee City, 84</b> Bal. Milwaukee Co. Waukesha Co.	<b>Phoenix, 85</b> Mesa Bal. Maricopa Co.	<b>San Antonio, 86</b> Balance Bexar Co. Guadalupe Co.	
<b>Chicago, 87</b> Balance Cook Co. DuPage Co.	<b>Hartford, 87</b> New Britain Bristol	<b>Minneapolis, 85</b> St. Paul Bal. Hennepin Co.	<b>Pittsburgh, 86</b> Bal. Allegheny Co. Westmoreland Co.	<b>San Diego City, 87</b> Bal. San Diego Co.	
<b>Cincinnati, 86</b> Bal. Hamilton Co. Kenton Co.	<b>Houston, 87</b> Balance Harris Co. Brazoria Co.	<b>New Orleans, 86</b> Jefferson Parish St. Tammany Parish	<b>Portland, 86</b> Bal. Multnomah Co. Washington Co.	<b>San Francisco, 85</b> Oakland Balance Alameda Co.	

In addition to this *Codebook*, Abt Associates 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. Contact: AHS Data Project, Abt Associates Inc., 55 Wheeler Street, Cambridge, MA 02138, (617) 497-7182.

Other detailed tables and analysis not normally published can be prepared by the organizations listed below. First are listed private organizations that are known to have at least some of the AHS tapes. Then we list State Data Centers, which cooperate with the Census Bureau to make data more available. Those which are known to have at least some of the AHS tapes are starred. Costs vary widely, but even a simple tabulation may cost \$200 or more, especially from a private organization. However extra tables using the same input file would probably then cost only a few dollars each. In addition anyone able to process computer tapes may buy them, as explained below under Data Files, and prepare their own tables. The files are usually too large to put on floppy disks. The file sizes are shown in Table 2 above.

## Private Organizations and State Data Centers

National Association of Home  
Builders  
15th and M Street, NW  
Washington, DC 20005  
Mr. David Crowe  
(202) 822-0383

Abt Associates, Inc.  
AHS Data Project  
55 Wheeler Street  
Cambridge, MA 02138  
(617) 497-7182

The Urban Institute  
2100 M Street, NW  
Washington, DC 20037  
(202) 833-7200

Inter-University Consortium for  
Political & Social Research  
University of Michigan  
Ann Arbor, MI 48106  
(313) 764-2570

Claritas Corporation  
Att: Jonathon E. Robbin  
201 North Union Street  
Alexandria, VA 22314  
(703) 683-8300

Donnelley Marketing Information  
Service  
Attn: Gary Hill  
70 Seaview Avenue  
Stamford, CN 06904  
(203) 353-7474

### Alabama

Center for Business and Economic  
Research  
University of Alabama  
Box 870221  
Tuscaloosa, AL 35487-0221  
Ms. Annette Watters  
(205) 348-6191

### Alaska

Alaska State Data Center  
Research & Analysis  
Department of Labor  
P.O. Box 25504  
Juneau, AK 99802-5504  
Ms. Kathryn Lizik  
(907) 465-4500

### Arizona

Arizona Department of Economic  
Security  
1300 West Washington  
P.O. Box 6123-045Z  
Phoenix, AZ 85005  
Ms. Betty Jeffries  
(602) 542-5984

### Arkansas

State Data Center  
University of Arkansas-Little Rock  
2801 South University  
Little Rock, AR 72204  
Ms. Sarah Breshears  
(501) 569-8530

### California\*

State Census Data Center  
Department of Finance  
915 L Street  
Sacramento, CA 95814  
Ms. Linda Gage, Director  
(916) 322-4651

### Colorado

Division of Local Government  
Colorado Department of Local Affairs  
1313 Sherman Street, Room 521  
Denver, CO 80203  
Mr. Reid Reynolds  
(303) 866-2156

### Connecticut

Comprehensive Planning Division  
Connecticut Office of Policy and  
Management  
80 Washington Street  
Hartford, CT 06106  
Mr. Theron Schnure  
(203) 566-8285

### Delaware

Delaware Development Office  
99 Kings Highway  
P.O. Box 1401  
Dover, DE 19903  
Ms. Judy McKinney-Cherry  
(302) 736-4271

### District of Columbia

Data Services Division  
Mayor's Office of Planning  
Room 314, Presidential Bldg.  
415 12th Street, N.W.  
Washington, DC 20004  
Mr. Gan Ahuja  
(202) 727-6533

### Florida

Florida State Data Center  
Executive Office of the Governor  
Office of Planning & Budgeting  
The Capitol  
Tallahassee, FL 32399-0001  
Mr. Steve Kimble  
(904) 487-2814

### Georgia\*

Division of Demographic & Statistical  
Services  
Georgia Office of Planning and  
Budget  
270 Washington Street, S.W.,  
Room 608  
Atlanta, GA 30334  
Ms. Robin Kirkpatrick  
(404) 656-0911

### Guam

Guam Department of Commerce  
590 South Marine Drive  
Suite 601, 6th Floor GITC Building  
Tamuning, Guam 96911  
Mr. Peter R. Barcinas  
(671) 646-5841

**Hawaii**

Hawaii State Data Center  
State Department of Business &  
Economic Development  
Kamamalu Building, Room 602A  
250 S. King Street  
Honolulu, HI 96813

(Mailing Address)  
P.O. Box 2359  
Honolulu, HI 96804  
Ms. Sharon Nishi  
(808) 548-3067

**Idaho**

Idaho Department of Commerce  
700 West State Street  
Boise, ID 83720  
Mr. Alan Porter  
(208) 334-2470

**Illinois**

Division of Planning and Financial  
Analysis  
Illinois Bureau of the Budget  
William Stratton Building, Rm. 605  
Springfield, IL 62706  
Ms. Suzanne Ebetsch  
(217) 782-1381

**Indiana\***

Indiana State Library  
Indiana State Data Center  
140 North Senate Avenue  
Indianapolis, IN 46204  
Ms. Roberta Eads  
(317) 232-3733

**Iowa**

State Library of Iowa  
East 12th and Grand  
Des Moines, IA 50319  
Ms. Beth Henning  
(515) 281-4105

**Kansas**

State Library  
Room 343-N  
State Capitol Building  
Topeka, KS 66612  
Mr. Marc Galbraith  
(800) 432-3919

**Kentucky\***

Urban Studies Center  
College of Urban & Public Affairs  
University of Louisville  
Louisville, KY 40292  
Mr. Ron Crouch  
(502) 588-7990

**Louisiana\***

Louisiana State Planning Office  
Division of Administration  
P.O. Box 94095  
Baton Rouge, LA 70804  
Ms. Karen Paterson  
(504) 342-7410

**Maine**

Division of Economic Analysis and  
Research  
Maine Department of Labor  
20 Union Street  
Augusta, ME 04330  
Ms. Jean Martin  
(207) 289-2271

**Maryland**

Maryland Department of State Plan-  
ning  
301 West Preston Street  
Baltimore, MD 21201  
Mr. Michel Lettre  
(301) 225-4450

**Massachusetts\***

Massachusetts Institute for Social and  
Economic Research  
128 Thompson Hall  
University of Massachusetts  
Amherst, MA 01003  
Mr. Roy Williams  
(413) 545-0176

**Michigan\***

Michigan Information Center  
Department of Management & Budget  
Office of Revenue and Tax Analysis  
P.O. Box 30026  
Lansing, MI 48909  
Dr. Laurence Rosen  
(517) 373-2697

**Minnesota**

State Demographer's Office  
Minnesota State Planning Agency  
300 Centennial Office Building  
658 Cedar Street  
St. Paul, MN 55155  
Mr. David Birkholz  
(612) 297-2360

**Mississippi**

Center for Population Studies  
The University of Mississippi  
Bondurant Bldg., Rm. 3W  
University, MS 38677  
Ms. Pattie Byrd, Manager  
(601) 232-7288

**Missouri**

Missouri State Library  
2002 Missouri Boulevard  
Jefferson City, MO 65102  
Ms. Marlys Davis  
(314) 751-3615

**Montana**

Census and Economic Information  
Center  
Montana Department of Commerce  
1424 9th Avenue  
Capitol Station  
Helena, MT 59620-0401  
Ms. Patricia Roberts  
(406) 444-2896

**Nebraska**

Center for Applied Urban Research  
The University of Nebraska-Omaha  
Peter Kiewit Conference Center  
1313 Farnam-on-the-Mall  
Omaha, NE 68182  
Mr. Jerome Deichert  
(402) 595-2311

**Nevada**

Nevada State Library  
Capitol Complex  
401 North Carson  
Carson City, NV 89710  
Ms. Betty McNeal  
(702) 885-5160

**New Hampshire\***

Office of State Planning  
2-1/2 Beacon Street  
Concord, NH 03301  
Mr. Tom Duffy  
(603) 271-2155

**New Jersey**

New Jersey Department of Labor  
Division of Labor Market and Demographic Research  
CN 388-John Fitch Plaza  
Trenton, NJ 08625-0388  
Ms. Connie O. Hughes, Asst. Dir.  
(609) 984-2593

**New Mexico**

Economic Development and Tourism Department  
1100 St. Francis Drive  
Santa Fe, NM 87503  
Ms. Carol Selleck  
(505) 827-0276

**New York**

Division of Policy & Research  
Department of Economic Development  
1 Commerce Plaza, Room 905  
99 Washington Avenue  
Albany, NY 12245  
Mr. Robert Scardamalia  
(518) 474-6005

**North Carolina\***

North Carolina Office of State Budget and Management  
116 West Jones Street  
Raleigh, NC 27603-8005  
Ms. Francine Stephenson,  
Director of State Data Center  
(919) 733-7061

**North Dakota**

Department of Agricultural Economics  
North Dakota State University  
Morrill Hall, Room 224  
P.O. Box 5636  
Fargo, ND 58105  
Dr. Richard Rathge  
(701) 237-8621

**Ohio\***

Ohio Data Users Center  
Ohio Department of Development  
P.O.Box 1001  
Columbus, OH 43266-0101  
Mr. Barry Bennett  
(614) 466-2115

**Oklahoma**

Oklahoma State Data Center  
Oklahoma Department of Commerce  
6601 Broadway Extension  
Oklahoma City, OK 73116-8214  
Ms. Karen Selland  
(405) 841-5184

**Oregon**

Center for Population Research and Census  
Portland State University  
P.O. Box 751  
Portland, OR 97207-0751  
Mr. Ed Shafer  
(503) 464-3922

**Pennsylvania**

Pennsylvania State Data Center  
Institute of State and Regional Affairs  
Pennsylvania State University at Harrisburg  
Middletown, PA 17057-4898  
Mr. Michael Beheny  
(717) 948-6336

**Puerto Rico**

Puerto Rico Planning Board  
Minillas Government Center  
North Bldg., Avenida De Diego  
P. O. Box 41119  
San Juan, PR 00940  
Sra. Lillian Torres Aguirre  
(809) 728-4430

**Rhode Island**

Rhode Island Department of Administration  
Office of Municipal Affairs  
One Capitol Hill  
Providence, RI 02908-5873  
Mr. Paul Egan  
(401) 277-6493

**South Carolina**

Division of Research and Statistical Services  
South Carolina Budget and Control Board  
Rembert Dennis Bldg. Room 425  
Columbia, SC 29201  
Mr. Mike Macfarlane  
(803) 734-3780

**South Dakota\***

Business Research Bureau  
School of Business  
University of South Dakota  
414 East Clark  
Vermillion, SD 57069  
Ms. DeVee Dykstra  
(605) 677-5287

**Tennessee**

Tennessee State Planning Office  
John Sevier State Office Bldg.  
500 Charlotte Ave. Suite 307  
Nashville, TN 37219  
Mr. Charles Brown  
(615) 741-1676

**Texas**

State Data Center  
Texas Department of Commerce  
9th and Congress Streets  
Austin, TX 78711  
(mailing address)  
P.O. Box 12728  
Capitol Station  
Austin, TX 78711  
Ms. Susan Tully  
(512) 472-5059

**Utah**

Office of Planning & Budget  
State Capitol, Rm. 116  
Salt Lake City, UT 84114  
Ms. Linda Smith  
(801) 538-1036

**Vermont**

Office of Policy Research and Coordination  
Pavilion Office Building  
109 State Street  
Montpelier, VT 05602  
Mr. Ken Jones  
(802) 828-3326

**Virginia**

Virginia Employment Commission  
703 East Main Street  
Richmond, VA 23219  
Mr. Larry Robinson  
(804) 786-8624

**Virgin Islands**

University of the Virgin Islands  
Caribbean Research Institute  
Charlotte Amalie  
St. Thomas, VI 00802  
Dr. Frank Mills  
(809) 776-9200

**Washington\***

Estimation & Forecasting Unit  
Office of Financial Management  
Insurance Bldg., AQ-44  
Olympia, WA 98504-0202  
Mr. Michael Knight  
(206) 586-2504

**West Virginia**

Community Development Division  
Governor's Office of Community and  
Industrial Development  
Capitol Complex  
Building 6, Room 553  
Charleston, WV 25305  
Ms. Mary C. Harless  
(304) 348-4010

**Wisconsin\***

Demographic Services Center  
Department of Administration  
101 S. Webster St., 6th Floor  
P.O. Box 7868  
Madison, WI 53707-7868  
Mr. Robert Naylor  
(608) 266-1927

**Wyoming**

Department of Administration and  
Fiscal Control  
Research & Statistics Division  
Emerson Building  
Cheyenne, WY 82002-0060  
Ms. Mary Byrnes, Director  
(307) 777-7505

## 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, (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, contact: ICPSR, University of Michigan, Ann Arbor, Michigan 48106, (313) 764-2570. When this book was going to press, a file was being prepared which is expected to be available from ICPSR: it is a single tape containing 9 years of data, 1974-83, for an 8% sample of AHS homes, about 7,000 homes.
- A variety of standard files are available from Abt Associates. Others can be prepared according to user specifications. Prices vary from \$150 to \$2,400 (for a 9 tape file, 1974-83, of all AHS homes). 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. Contact: AHS Data Project, Abt Associates Inc., 55 Wheeler Street, Cambridge, MA 02138, (617) 497-7182.

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

- If you want to measure change in individual homes, like how many poor households rise in income, you can merge successive files from Census or ICPSR or buy them already merged at Abt. The merging is done by using each home's unique control number, which is on the tapes from all three sources.
- Abt files are available in a common layout (fixed field lengths and order of variables) from year to year. Census and ICPSR file layouts are different each year until 1984, when they also start using a standard layout. Thus, the record length of Census/ICPSR files before 1984 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 1980 Mobile Home questions). These are avail-



able by special order from Abt while they are usually included in standard Census/ICPSR files.

- Abt files are available with a fixed number of records from year to year, while Census and ICPSR 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 can have these dummy records 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 and ICPSR files. We encourage researchers who do not need data linked across years or standardized formats to buy Census or ICPSR 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 statistical packages may be expensive to use. A more efficient table-producing package, the BOAT Package, is available from Abt or HUD User (addresses in Publications section) with appropriate documentation. Both the Fortran source code and the documentation are on a floppy disk. This package is easy to use and can handle any data on computers from micros to super-computers. A sample table prepared with this package is shown below.

NUMBER OF PEOPLE IN THE U. S.

	Total	0-14 YEARS OLD	15-29 YEARS OLD	30-44 YEARS OLD	45-59 YEARS OLD	60-74 YEARS OLD	75+ YEARS OLD
Total	238,585K	52,897,000	57,323,000	54,563,000	34,165,000	28,648,000	10,989,000
% Cum % of row	100	22	24 46	23 69	14 83	12 95	5 100
% of column	100	100	100	100	100	100	100
Conf.Int, inc.nonsam	237-240M	49-57M	53-62M	50-59M	30-37M	25-32M	8-12M
AVG HOUSEHOLD INCOM	35,023	33,255	35,611	39,994	42,072	25,933	17,389
% BUILT BEFORE 1930	16	15	15	15	15	12	24
IN POVERTY	31,038,000	10,512,000	7,434,000	4,811,000	2,738,000	3,368,000	2,175,000
% Cum % of row	100	34	24 58	16 73	9 82	11 93	7 100
% of column	13	20	13	9	8	12	20
Conf.Int, inc.nonsam	27-34M	8-12M	4.7-8.4M	2.2-5.5M	.3-3.1M	.9-3.9M	.0-2.5M
AVG HOUSEHOLD INCOM	6,331	7,224	6,462	6,650	5,632	4,583	4,449
% BUILT BEFORE 1930	21	20	20	19	22	23	26
ABOVE POVERTY	207,547K	42,384,000	49,889,000	49,752,000	31,427,000	25,280,000	8,814,000
% Cum % of row	100	20	24 44	24 68	15 84	12 96	4 100
% Cum % of column	87 100	80 100	87 100	91 100	92 100	88 100	80 100
Conf.Int, inc.nonsam	204-212M	38-46M	46-54M	45-54M	28-35M	22-28M	6-10M
AVG HOUSEHOLD INCOM	39,314	39,712	39,955	43,219	45,247	28,850	20,582
% BUILT BEFORE 1930	15	14	14	14	14	18	23

## MISSING DATA

Missing data are the scourge of most surveys. There are three sources of missing data: omitted units, questions that did not apply to the unit, and unanswered questions that did apply to the unit. The combination of omitted units and unanswered questions usually totals at least 10% of the sample, and sometimes 30%.

Units are **Omitted** for several reasons. Only about 3% of households refuse the interview outright. These are present on the tapes with code 3 in the variable NOINT, zero weight, and minimal data such as geographic location, descriptions of the exterior, and 1980 Census characteristics if available. There are also a few units with language barriers, no one ever home, etc; present on the tapes with NOINT = 5 or less and zero weight. More important are units that simply do not show up in Census Bureau sample surveys, though we believe they exist, based on population estimates. Such units are not present on the data files, though the variable WEIGHT is increased to represent them. In total, 8%-36% of various kinds of units are omitted (Table 1.0 on page 1-2 at the back of this book). We increase the variable WEIGHT on other units to account for all these omissions. This is an imperfect correction, so confidence intervals need to be widened as shown on page 1-2.

There are also homes where particular questions which apply to the home are **Not Answered**, because the respondents refuse or don't know the answer or the interviewer forgets to ask. People are particularly unwilling or unable to answer questions on income, mortgages, house value, and utilities (Table 3 in this section).

When people do not answer, the data base takes two approaches.. For many questions the data base includes a code for "not answered" (usually "8", "98"). For other questions, the Census Bureau assigns, or "allocates," responses to unanswered questions by copying the responses of the last similar unit processed. 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 owner-occupied unit, it will be changed to "Not Applicable." Where the correct answer cannot be determined, the question will be treated as not answered.

When an answer is allocated, then an 'allocation flag' is given in another variable, so you can see which answers were real and which were allocated. These variables and the number of

allocated cases are shown for 1973-83 in Chapter 4. For surveys from 1984 on, allocation variables can be found on the record layout: their variable names have A (for Allocation) followed by 4 digits. (There is sometimes a 5th digit to distinguish the questions posed to different people in the household, using the same source code.) The same 4 digit number appears again in the record layout next to the variable being allocated. Thus you can see which allocation variable applies to which question. In the allocation variable, a one means the question's answer was allocated, and a two means the answer was edited. (In case you are interested the 4 digit number following the A is a sequential number printed on the questionnaire. Thus it also helps you find each question on the questionnaire.)

When an answer is allocated, it is always taken from a 'similar' unit. Groups of units considered "similar" are shown at the end of Chapter 4. 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.

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.

Recoded variables may exhibit even more allocations, since all variables used in their computation may be subject to allocation. For example about 20% of household interviews have some or all of their income allocated. (Even worse, up to 30% of household interviews have some or all of their income allocated in the longer questionnaires used by other Census Bureau surveys with a special interest in income, and by the AHS up through 1983.) The missing data that are allocated are in addition to the 8%-36% of households which are omitted in the first place, as discussed above, because of refusals, weaknesses in the sample design, etc.

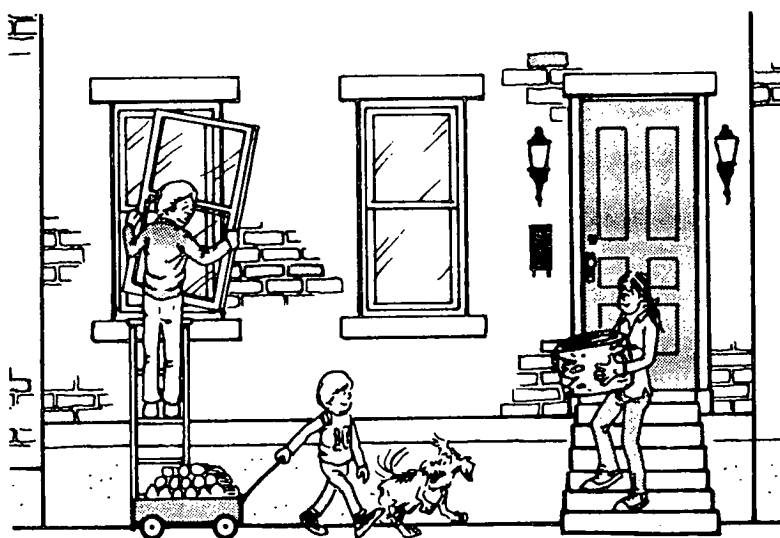
Thus **weights and allocations** let you work with a full file of data, even though many interviews and answers are missing in this as in other surveys and censuses. Do not treat results as if they were highly precise. For example Crystal and Shea adjusted each source of income for under-reporting and found the elderly were significantly better off, compared to the non-elderly, than they appear to be based on unadjusted data (Census, *5th Annual Research Conference Proceedings*, 1989, GPO, pages 467-482). A similar problem is that when surveys or censuses miss young minority men from families, the apparent number of single mothers goes up artificially.

Unfortunately there are also people who lie or make a mistake rather than overtly refusing to answer a question, for example

people who understate their income to hide their prosperity (or vice versa). One indication of this problem is the large number of people who report annual incomes lower than their annual housing costs. This is rarely likely to be true, but may reflect under-reporting of income. Those cases remain on the tapes, and researchers may choose to omit them. It is usually not possible to identify all false answers, so they stay to infect this and most other surveys and censuses.

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. For example many questions are not asked on vacant units or non-interviews. Mortgage questions are not asked of renters, etc. In three sections of this *Codebook* the skip patterns are complex, and the introductions to these sections have explanatory tables: Utilities, Housing Cost and Mobile Homes. Researchers may also trace the precise skip instructions in the questionnaire.

In using this *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 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 which 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.



**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%	60	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	**

\* In 1983 there were individual variables, such as income from business (3% allocated), income from interest (32%), income from dividends (47%), etc.

\*\* Less than 1%.

## ACKNOWLEDGMENTS

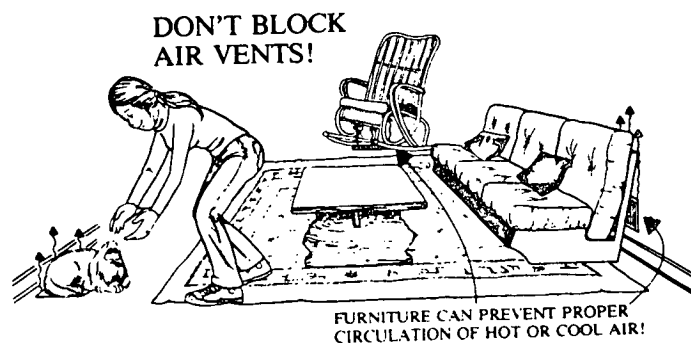
This Codebook was prepared by the AHS Data Project staff at Abt Associates, Cambridge, Massachusetts, under the supervision of Mireille L. Leger, Project Director. It was slightly revised and corrected by HUD and the Census Bureau in 1990. Special thanks go to Louise Hadden, who is primarily responsible for the documentation material, Elizabeth Griffin, Renee Tynes, and the data processing staff, especially James McIntosh, who participated in the production of the document. Cathy Joseph contributed to previous versions of the Codebook and provided helpful comments for this version.

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Illustrations are reprinted from: Analytech, *Conserving Energy in Older Homes*, HUD, 1982, Franklin Research Center, *Energy-Conserving Passive Solar Multi-Family Retrofit Projects, Cycle 5, Category 1*, HUD, 1979, NAHB National Research Center, *Affordable Residential Land Development*, HUD, July 1987, The Synectics Group, Inc., *Energy Conserving Features Inherent in Older Homes*, HUD, 1982, Steven Winter Associates, Inc. *Building Value into Housing 1980 Awards*, HUD, 1980, and Steven Winter Associates, *Home Building Cost Cuts*, HUD. All are available from HUD User (800 245-2961).

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## QUESTIONNAIRE

Data in the data base come from three separate forms, completed by interviewers: **(A)** a **control card** for each home, which is a card listing the members of the household (the same card stays in use as long as any of the people listed still lives there), **(B)** a questionnaire for **occupied homes**, which has 3 sections: (B1) core questions asked in all surveys at all permanently occupied homes, (B2) nearly identical questions asked when the home is found occupied by people who usually reside elsewhere (these are called 'URE' and are not counted as occupied, since people are counted at their primary home only), (B3) supplemental questions asked in occasional surveys, and **(C)** a questionnaire for **vacant homes** and units which have been torn down or converted to non-housing purposes. All of these are reproduced here except B2 since it is largely duplicative. Every question is numbered in the questionnaire, and questions in parts B and C also have sequential numbers like 0030, 2010, 2020, etc. The same sequential numbers appear on the record layout and the index to the record layout, to help you match the record layout with the questionnaire. We have also printed on the questionnaire the name and reference number of each question as found in this *Codebook*, for easy reference.

FORM AHS-21 (5-14-85)  
 OMB No. 2528-0018  
**INTRODUCTION**  
**OCCUPIED HOUSEHOLD:** Hello, I am... from the United States Bureau of the Census. Here is my identification card. We are asking you some questions about the 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?  
**VACANT INTERVIEW:** 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 about (Read address). Here is a letter which provides some information about the survey.

**LAND USE** - Follow instructions for box that is marked.  
 1  URBAN - Go to item 7a  
 2  RURAL - Reg. units and SP. PL. units coded 85 - 88 in item 31 - Mark "No" - SP. PL. units not coded 85 - 88 in item 31 - Mark "No" in item 5b without asking, then go to item 7a.  
**5b** 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...  
 1 1 1 1 1  
 2 2 2 2 2

**3b CHECK ITEM** (Ask every survey.)  
**3c** What is the exact address? (Make corrections to address above.)  
 OFFICE USE ONLY 1 2 3 4 5 6  
 Special place name 3f Type code 3g Sample number  
**6** OFFICE USE ONLY  
 Control number preassigned  
 Control number assigned this enumeration period  
 OFFICE USE ONLY

**7a** CHECK ITEM  
 Unit NOT in a special place  
 Unit in a special place - Renter  
 Unit in a special place - Owner  
 Special place (C of manual, appropriate box)  
**7b** ACCESS - Mark or ask:  
 Does (Address in item 3a) have direct access either from the outside or through a common hall?  
 Yes, direct  
 No, through another unit - Not a separate unit; combine with unit through which access is provided, except 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?  
 HOUSE, APARTMENT, 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  
 OTHER UNIT (Treat as Type B noninterview. Mark and go to AHS-23.)  
 Quarters not HU in rooming or boarding house  
 Student quarters in college dormitory  
 Unoccupied site for mobile home, trailer, or tent  
 Unit not permanent in transient hotel, motel, etc.  
 OTHER UNIT not described above - Specify in notes

**8a** CHECK ITEM  
 Occupied - Go to item 8b  
 Not occupied - Go to AHS-23  
**8b** TENURE  
 Is this (house/apartment) owned or being bought by you or your household?  
 Rented for cash?  
 Occupied without payment of cash rent?  
 SKIP TO ITEM 11 (If Type A, go to AHS-22.)

Survey year	Date completed	Interviewer code	Interview status	Line number of respondent	What is the best time to reach you?		Area code	Number	Mark (X) if unusable/ref.	REG./URE INTERVIEW	NOTES
					9h	9i					
1	DATE 1519	Reg. Occ.	1 2 3 4	DLIN 1033	1	9h	9i	9j	9k	9l	
2		Reg. Occ.	1 2 3 4		2						
3		Reg. Occ.	1 2 3 4		1						
4		Reg. Occ.	1 2 3 4		1						
5		Reg. Occ.	1 2 3 4		1						





**FORM AHS-22**  
13-25-85  
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** 1515 CONTROL

PSU Segment Serial Sample Check digit

~ 4 1 0 ~

F

**2a. Date of first visit** 1519 DATE

0010 Month Day Year

1	5	1	9
---	---	---	---

**b. Interviewer name**

**c. Interview method** 1542 PERSINT

0015  Personal visit

**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  Review not required  
 Review required

Notes

**3. Check item (See Control Card item 8.)**

Control number in sample last enumeration period - Fill item 6

Control number in sample for first time this enumeration period - Skip to item 6

**4. (See Control Card items 14 and 19.) Are any household members the same this time as last enumeration period?**

URE household

0020  Yes  
 No  
 Don't know

**b. OFFICE USE ONLY**

0139  Review completed

**5. Is this the same (house/apartment/mobile home) as last enumeration period? Mark if house/apartment. Ask if mobile home.**

0020  Yes  
 No (for example, replacement mobile home, wrong unit interviewed last time, etc.)

**15. OFFICE USE ONLY**

**a. EDIT FOLLOWUP REQUIRED**

0136 Page  Item

0137 Page  Item

0138 Page  Item

**6. Type of interview** 0022 ISTATUS

0040  Regular occupied - (One or more "1's" in Control Card item 14) - Go to item 20, page 3  
 URE occupied - (All "2's" in Control Card item 14) - Go to item 124, page 32  
 Type A noninterview

**b. SOURCE OF RESOLUTION**

0140  Respondent  
 Interviewer  
 Regional Office staff  
 Washington  
 Other - Specify \_\_\_\_\_

**7. Type A noninterview reason** 1549 NOINT

0050  No one home  
 Temporarily absent  
 Refused  
 Unable to locate  
 Other occupied - Specify \_\_\_\_\_

**c. OFFICE USE ONLY**

0141  Editor's code

0142

**8. Occupancy status for Type A noninterviews** STATUA 1545

0080  Occupied as a usual residence by at least one person  
 All occupants have a usual residence elsewhere  
 Don't know - Go to Control Card item 9a

**16. Mobility Supplement (See item 175, page 44.)**

0145  Mobility information not required OR callback not required 1477A MOCALL  
 Callback required  
 Information obtained  
 Unable to obtain information - Explain \_\_\_\_\_

**9. Mortgage (See item 94, page 19.)** MRCOMP

0070  Mortgage information not required OR callback not required  
 Callback required  
 Information obtained  
 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

**10. Unit measurement (See item 215, page 56.)** UNCOMP

0125  Unit measurement not required OR callback not required  
 Callback required  
 Information obtained  
 Unable to obtain information - Explain \_\_\_\_\_

**18-19. WASHINGTON USE ONLY**



**REGULAR OCCUPIED**

<p><b>MARK OR ASK -</b></p> <p><b>20. Are your living quarters in a -</b> (Read all answer categories.)</p>	<p align="right">0050 TYPE</p> <p>1120</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 align="right">OTHLO 0048</p>
<p><b>b. How many apartments are in the (building/mobile home)?</b></p>	<p>1140</p> <p align="right">0047 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">0047 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">0047 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">0047 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 align="right">0046 NUNITS</p> <p>1210</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 align="right">0055 CELLAR</p> <p>1220</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 align="right">0034 CONDO</p> <p>1230</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**

<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>	
(1) Bedrooms? .....	1240 _____ Number <sup>0015</sup> BEDRMS <input type="checkbox"/> None
(2) Full bathrooms? <i>(Hot and cold piped water AND sink AND flush toilet AND bathtub or shower)</i> .....	1250 _____ Number <sup>0011</sup> BATHS <input type="checkbox"/> None
(3) Half bathrooms? <i>(Toilet OR bathtub OR shower)</i> .....	1260 _____ Number <sup>0017</sup> HALFB <input type="checkbox"/> None
(4) Kitchens? .....	1270 _____ Number <sup>008</sup> KITCH <input type="checkbox"/> None
(5) Living rooms? .....	1280 _____ Number <sup>0019</sup> LIVING <input type="checkbox"/> None
(6) Dining rooms? .....	1290 _____ Number <sup>0081</sup> DINING <input type="checkbox"/> None
	1295 _____ <b>Is it a separate room?</b> $\downarrow$ 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Correct entry for number of dining rooms
<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>	1300 _____ 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 27. <sup>0085</sup> OTHRMS
<b>c. What are they?</b>	1310 _____ <sup>0012</sup> DENS Number of family rooms, dens, recreation rooms and/or libraries <input type="checkbox"/> None
	1320 _____ <sup>0083</sup> OFFICE Number of rooms that are business space with direct access to outside <input type="checkbox"/> None
	1330 _____ <sup>0084</sup> NOTHRM Number of other rooms, finished or unfinished <input type="checkbox"/> None
<b>27. Does the (house/apartment) have a kitchen sink?</b> <i>(For this household's use only)</i>	1340 _____ 1 <input type="checkbox"/> Yes <sup>0120</sup> SINK 2 <input type="checkbox"/> No
<b>28. Check item (See item 26a.)</b> <input type="checkbox"/> One or more full bathrooms - Skip to item 30a <input type="checkbox"/> No full bathrooms - Ask item 29a	
<b>29a. Does the (house/apartment) have a bathtub or shower for this household's use only?</b>	1350 _____ 1 <input type="checkbox"/> Yes <sup>0158</sup> TUB 2 <input type="checkbox"/> No
<b>b. Does the (house/apartment) have a flush toilet for this household's use only?</b>	1360 _____ 1 <input type="checkbox"/> Yes <sup>0139</sup> TOILET 2 <input type="checkbox"/> No - Skip to item 31a, page 5
<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>	1370 _____ 1 <input type="checkbox"/> Yes <sup>0215</sup> IFTLT 2 <input type="checkbox"/> No toilet breakdowns - Skip to item 31a, page 5
<b>b. How many of these breakdowns lasted 6 hours or more?</b>	1380 _____ Number of toilet breakdowns lasting 6 hours or more <input type="checkbox"/> No toilet breakdowns lasting 6 hours

**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>	<p>1390 <input type="checkbox"/> Yes, concealed C273 NOWIRE  <input type="checkbox"/> No  <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>	<p>1400 <input type="checkbox"/> Yes C272 PLUGS  <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>	<p>1410 <input type="checkbox"/> Yes  <input type="checkbox"/> No  <input type="checkbox"/> Don't know } Skip to item 32a  C274 IFBLOW</p>
<p><b>d. How many times in the last 3 months?</b></p>	<p>1420 _____ Number C275 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>	<p>1430 <input type="checkbox"/> Yes C245 LEAK  <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>	<p>1440 <input type="checkbox"/> Roof C253 RLEAK  <input type="checkbox"/> Basement C25A BLEAK  <input type="checkbox"/> Walls or around closed windows or closed doors WLEAK C247  <input type="checkbox"/> Other - Specify _____ OTLEAK C248</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>	<p>1450 <input type="checkbox"/> Yes C244 ILEAK  <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>	<p>1460 <input type="checkbox"/> Own plumbing fixtures backed up and/or overflowed C247 PLEAK  <input type="checkbox"/> Pipes leaked (include pipe leaks from other apartments.) PILEAK C250  <input type="checkbox"/> Other or unknown - Specify _____ C251 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>	<p>1470 <input type="checkbox"/> Yes C145 HOTPIP  <input type="checkbox"/> No - Skip to item 34a</p>
<p><b>b. What fuel is used MOST to heat the water?</b></p>	<p>1480 <input type="checkbox"/> Electricity C244 WFUEL  <input type="checkbox"/> Gas  <input type="checkbox"/> Fuel oil  <input type="checkbox"/> Kerosene or other liquid fuel  <input type="checkbox"/> Coal or coke  <input type="checkbox"/> Wood  <input type="checkbox"/> Solar energy  <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>	<p>1490 <input type="checkbox"/> Yes C261 IFDRY  <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>	<p>1500 _____ Water stoppages lasting 6 hours or more  <input type="checkbox"/> None lasted 6 hours C265 NUMDRY</p>
<p><b>34a. Does water for your home come from a public or private water system, an individual well, or some other source?</b> <i>(Source used for drinking and cooking.)</i></p>	<p>1510 <input type="checkbox"/> Public or private water system - Skip to item 35a, page 6 C140 WATER  <input type="checkbox"/> Individual well - Ask item 34b  <input type="checkbox"/> Spring  <input type="checkbox"/> Cistern  <input type="checkbox"/> Stream or lake  <input type="checkbox"/> Bottled water  <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>	<p>1520 <input type="checkbox"/> Only this house/apartment C143 WELDUS  <input type="checkbox"/> 2 to 5  <input type="checkbox"/> 6 or more</p>
<p><b>c. Is the well drilled or dug?</b></p>	<p>1530 <input type="checkbox"/> Drilled C142 WELL  <input type="checkbox"/> Dug</p>

**REGULAR OCCUPIED - Continued**

<b>35a.</b> Is the (house/apartment) connected to a public sewer?	1540 1 <input type="checkbox"/> Yes -- Skip to item 35d 0147 PUBSEW 2 <input type="checkbox"/> No
<b>b.</b> What means of sewage disposal does the (house/apartment) have?	1550 1 <input type="checkbox"/> Septic tank or cesspool -- Ask item 35c SEWDIS OK-18 2 <input type="checkbox"/> Chemical toilet 3 <input type="checkbox"/> Outhouse or privy 4 <input type="checkbox"/> Other -- Specify _____ } Skip to item 36a 5 <input type="checkbox"/> None
<b>c.</b> How many (houses/apartments) are connected to the (septic tank/cesspool)?	1560 1 <input type="checkbox"/> One 0149 SEWDUS 2 <input type="checkbox"/> 2 to 5 3 <input type="checkbox"/> 6 or more
<b>d.</b> Did the sewage system break down in the last 3 months? (So that it was completely unusable) (While household was living here if less than 3 months)	1570 1 <input type="checkbox"/> Yes 0269 IFSEW 2 <input type="checkbox"/> No sewage breakdowns -- Skip to item 36a
<b>e.</b> How many of these breakdowns lasted 6 hours or more?	1580 _____ Sewage breakdowns lasting 6 hours or more 0271 NUMSEW 0 <input type="checkbox"/> None lasted 6 hours
<b>36a.</b> Does your (house/apartment) have a refrigerator? (For this household's use only) (Exclude ice boxes.)	1590 1 <input type="checkbox"/> Yes 0121 REFR 2 <input type="checkbox"/> No -- Skip to item 37a
<b>b.</b> Is it more than 5 years old? (Age of newest if two or more)	1600 1 <input type="checkbox"/> Yes 0129 REFR5 2 <input type="checkbox"/> No
<b>37a.</b> Does your (house/apartment) have a garbage disposal in the sink?	1610 1 <input type="checkbox"/> Yes 0122 DISPL 2 <input type="checkbox"/> No -- Skip to item 38a
<b>b.</b> Is it more than 5 years old?	1620 1 <input type="checkbox"/> Yes 0130 DISPS 2 <input type="checkbox"/> No
<b>38a.</b> Does your (house/apartment) have a cookstove or range with an oven? (For this household's use only) (Include microwaves. Exclude toaster-ovens and portable burners.)	1630 1 <input type="checkbox"/> Yes -- Skip to item 38c 0123 COOK 2 <input type="checkbox"/> No
<b>b.</b> Does your (house/apartment) have -- (For this household's use only) (1) an oven? (Include microwaves.) (Exclude toaster-ovens.) (2) cooking burners? (Exclude portable burners.)	0124 OVEN 1640 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 1650 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No } If both are "No," skip to item 39a 0125 BURNER
<b>c.</b> (Is it/Are they) more than 5 years old? (Age of newest if two or more)	1660 1 <input type="checkbox"/> Yes 0131 COOK5 2 <input type="checkbox"/> No
<b>d.</b> What fuel is used MOST for cooking?	1670 1 <input type="checkbox"/> Electricity 0943 FUEL 2 <input type="checkbox"/> Gas 3 <input type="checkbox"/> Kerosene or other liquid fuel 4 <input type="checkbox"/> Coal or coke 5 <input type="checkbox"/> Wood 6 <input type="checkbox"/> Other -- Specify _____ 7 <input type="checkbox"/> No fuel used
<b>39a.</b> Does your (house/apartment) have a dishwasher?	1690 1 <input type="checkbox"/> Yes 0126 DISH 2 <input type="checkbox"/> No -- Skip to item 40a, page 7
<b>b.</b> Is it more than 5 years old?	1700 1 <input type="checkbox"/> Yes 0132 DISH5 2 <input type="checkbox"/> No

**REGULAR OCCUPIED - Continued**

<p><b>40a.</b> Does your (house/apartment) have a washing machine (----/ in the apartment)?</p>	1710	<input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to item 41a	0127 WASH
<p><b>b.</b> Is it more than 5 years old?</p>	1720	<input type="checkbox"/> Yes <input type="checkbox"/> No	0133 WASH5
<p><b>41a.</b> Does your (house/apartment) have a clothes dryer (----/ in the apartment)?</p>	1730	<input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to item 42a	0128 DRY
<p><b>b.</b> Is it more than 5 years old?</p>	1740	<input type="checkbox"/> Yes <input type="checkbox"/> No	0134 DRY5
<p><b>c.</b> What kind of fuel does the dryer use?</p>	1750	<input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Other - Specify _____	0847 DFUEL
<p><b>42a.</b> Does your (house/apartment) have central air conditioning?</p>	1760	<input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to item 42c	0152 AIRSYS
<p><b>b.</b> What kind of fuel does it use?</p>	1770	<input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Other - Specify _____	APUEL 0846 Skip to item 43a
<p><b>c.</b> Do you use any room air conditioners?</p>	1780	<input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to item 43a	0151 AIR
<p><b>d.</b> How many?</p>	1790	_____ Number	0153 NUMAIR
<p><b>43a.</b> What fuel is used MOST for heating the (house/apartment)?</p>	1800	<input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Fuel oil <input type="checkbox"/> Kerosene or other liquid fuel <input type="checkbox"/> Coal or coke <input type="checkbox"/> Wood <input type="checkbox"/> Solar energy <input type="checkbox"/> Other - Specify _____ <input type="checkbox"/> None - Skip to item 44, page 8	0840 HFUEL
<p><b>b.</b> Besides (Fuel marked in item 43a), what other fuel is used for heating the (house/apartment)? <i>(Mark all that apply.)</i></p>	1810	<input type="checkbox"/> Electricity 0851 SJUCE <input type="checkbox"/> Gas 0851 SGAS <input type="checkbox"/> Fuel oil 0852 SOIL <input type="checkbox"/> Kerosene or other liquid fuel SKERO 0853 <input type="checkbox"/> Coal or coke SCOAL 0854 <input type="checkbox"/> Wood 0855 WOOD <input type="checkbox"/> Solar energy 0856 SSUN <input type="checkbox"/> Other - Specify 0857 SOTHER <input type="checkbox"/> None SNO 0858	

Notes



**REGULAR OCCUPIED - Continued**

**44. Does the (house/apartment) have a usable fireplace?** 0178 FPLWK

1830 1  Yes  
2  No

**PLEASE LOOK AT THIS CARD.** 0102 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?

7  UNVENTED gas, oil, or kerosene heaters?

8  Portable electric heaters?

9  Stove(s)

10  Fireplace(s) WITH inserts (installed equipment designed to circulate more heat into the room)

11  Fireplace(s) with NO inserts

12  Other - Specify \_\_\_\_\_

13  None - Skip to item 48a, page 9

**46a. What other kinds of heating equipment does the (house/apartment) have or use?** SAFUR 0104

(Mark all that apply.)

**b. Anything else?**

Yes - Mark appropriate box(es), then go to item 47a

No

1850 1  A central warm-air furnace (with air vents or ducts to the individual rooms) SFLAN 0106

2  Steam or hot-water system (radiators or other system using steam or hot water) SHPMP 0105

3  Electric heat pump

4  Other built-in electric units (permanently installed in wall, ceiling, or baseboards) SELECT 0107

5  Floor, wall, or other built-in, hot-air heater without ducts SPLE 0108

Room heaters - (Is it /Are they) -

6  Kerosene, gas, or oil heaters, VENTED to the outside through a chimney, flue, or pipes? SFL0T 0170

7  UNVENTED gas, oil, or kerosene heaters? 0109 SFLIN

8  Portable electric heaters? 0173 SPORH

9  Stove(s) 0172 SSTOVE

1870 10  Fireplace(s) WITH inserts (installed equipment designed to circulate more heat into the room) SFRPLI 0170

11  Fireplace(s) with NO inserts 0171 SFRPL

12  Other - Specify \_\_\_\_\_ 0174 SHOTH

13  None 0175 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	0274 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	0277 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	0279 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	0279 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 _____	0280 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	0286 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	0254 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	0255 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	0257 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	0258 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	_____	0225 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	_____	0291 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	0310 NPROBS
<p><b>c.</b> What? <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 7 <input type="checkbox"/> Undesirable commercial, institutional, or industrial property 8 <input type="checkbox"/> People 9 <input type="checkbox"/> Other	0311 NOPROB 0312 NUCRIM 0313 NOISE 0314 NUTRAF 0315 LITTER 0316 BADSRV 0317 BADPRP 0318 BADPER 0319 OTHNHD

**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. 1353 WMPRIV
- 2 Forced to leave by the government. WMGOVT 1354
- 3 Disaster loss (fire, flood, etc.) 1355 WMDISL
- 4 New job or job transfer 1356 WMJOBS
- 5 To be closer to work/school/other WMCLOS 1357
- 6 Other, financial/employment related WMFEMP 1358
- 7 To establish own household 1359 WMONHH
- 8 Needed larger house or apartment WMLARG 1360
- 9 Married, widowed, divorced, or separated WMARR 1361
- 10 Other, family/personal related 1362 WMFAML
- 11 Wanted better quality house (apartment) WMQUAL 1363
- 12 Change from owner to renter OR renter to owner WMCHTN 1364
- 13 Wanted lower rent or less expensive house to maintain 1365 WMCHEP
- 14 Other housing related reasons 1366 WMHOUS
- 15 Other - Specify 1367 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 1352
- 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 1 Yes - Skip to item 55a, page 11
- 2 No

(2) Because that unit was going to become a condominium or cooperative?

- 2090 1 Yes - Skip to item 55a, page 11
- 2 No

(3) Because that residence was closed for repairs?

- 2100 1 Yes } Skip to item 55a, page 11
- 2 No }

**b. Did you leave -**

(1) Because the government wanted to use the land or building for some other purpose?

- 2110 1 Yes - Skip to item 55a, page 11
- 2 No

(2) Because that residence was condemned by the government as unfit for occupancy?

- 2120 1 Yes } Skip to item 55a, page 11
- 2 No }

**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 1 Yes - Ask (2)
- 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 1 Yes - Skip to item 55a, page 11
- 2 No - Ask (3)

(3) Because it was going to be a condominium or cooperative?

- 2150 1 Yes - Skip to item 55a, page 11
- 2 No - Ask (4)

(4) Because it was closed for repairs?

- 2160 1 Yes } Skip to item 55a, page 11
- 2 No }

(5) Because the government forced you to leave?

- 2170 1 Yes - Ask (6)
- 2 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 1 Yes - Skip to item 55a, page 11
- 2 No - Ask (7)

(7) Because it was condemned by the government as unfit for occupancy?

- 2190 1 Yes
- 2 No

**REGULAR OCCUPIED - Continued**

**55a. When you were going to move, did you look for a (house/apartment) in any neighborhood other than this?** 1419 LOOKNS  
 2200 1  Yes  
 2  No

**b. Why did you choose this NEIGHBORHOOD?**

*(Write exact words and mark all that apply.)*

- 2210 1  Convenient to job 1420WNJOB
- \* 2  Convenient to friends or relatives 1421WNPEPL
- 3  Convenient to leisure activities 1422WNFUN
- 4  Convenient to public transportation 1423WNTRAN
- 5  Good schools 1424WNSCH
- 6  Other public services 1425WNSRV
- 2220 7  Looks/design of neighborhood 1426WNLOOK
- \* 8  House was most important consideration 1427WNHOME
- 9  Other 1428WNOTHR

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 1429WHYTON  
 0  All reasons of equal importance

**56a. Before you moved, did you look at both (houses/mobile homes) and apartments?** 1431 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  Financial reasons 1432WHFIN
- \* 2  Room layout/design 1433WHDSN
- 3  Kitchen 1434WHKIT
- 4  Size 1435WHSIZ
- 5  Exterior appearance 1436WHEXT
- 6  Yard/trees/view 1437WHYRD
- 2260 7  Quality of construction WHQUL 1438
- \* 8  Only one available 1440WHAVL
- 9  Other - Specify 1439WHOTH

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 1441WHYTOH  
 0  All reasons of equal importance

**57. Is this neighborhood better, worse, or about the same as your last neighborhood?** 1430 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?** 1442 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?** 1213ALMV79  
 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.</i></p> <p><i>Then ask items 61b - m for each mover group.</i></p>	<p align="center">~ 6 1 4 ~      <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> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></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 align="right">1271 XAINUS</p>	<p>2340    <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><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><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><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><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 align="right">ZIP Code</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td> </tr> </table>																														
<p><b>d. Did (you/they) live inside the incorporated limits of (City above)?</b></p>	<p>2350      <b>Office use only</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td> </tr> </table> <p>2360    <input type="checkbox"/> Yes  <input type="checkbox"/> No or not incorporated place  <input type="checkbox"/> Don't know</p>																														
<p><b>e. OFFICE USE ONLY</b></p> <p align="right">1282 XAZON</p>	<p>2370</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td><td style="width:10%;"></td> </tr> </table> <p align="right">Zone code</p> <p align="right">Zone alpha (if any)</p> <p><input type="checkbox"/> Off map</p>																														
<p><b>f. Was that residence -</b> <i>(Read all answer categories.)</i></p> <p align="right">1301 XAUNIT</p>	<p align="center">~ 6 1 4 ~</p> <p>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.</p>																														
<p><b>g. Was that home -</b> <i>(Read all answer categories.)</i></p> <p align="right">1291 XATEN</p>	<p>2390    <input type="checkbox"/> Owned or being bought by someone in that household  <input type="checkbox"/> Rented for cash  <input type="checkbox"/> Occupied without payment of cash rent?</p>																														
<p><b>h. Was that part of a condominium or cooperative?</b></p> <p align="right">1295 XACOND</p>	<p>2400    <input type="checkbox"/> No . . . . . } Skip to item 61j  <input type="checkbox"/> Yes, condominium }  <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 align="right">134 XAPER</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 align="right">1260 XAHEAD</p>	<p>2420</p> <p><input type="checkbox"/> Yes - Skip to item 61m  <input type="checkbox"/> No</p>																														
<p><b>l. Was it (owned/rented) by a relative?</b></p> <p align="right">1271 XAREL</p>	<p>2430</p> <p><input type="checkbox"/> Yes  <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 align="right">1310 XACOST</p>	<p>2440</p> <p><input type="checkbox"/> Increased  <input type="checkbox"/> Stayed about same  <input type="checkbox"/> Decreased  <input type="checkbox"/> Don't know</p>																														
<p><b>n.</b></p>	<p align="center">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	2310	2310
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 Office use only	2350 Office use only	2350 Office use only
2380 <input type="checkbox"/> Yes <input type="checkbox"/> No or not incorporated place <input type="checkbox"/> Don't know	2380 <input type="checkbox"/> Yes <input type="checkbox"/> No or not incorporated place <input type="checkbox"/> Don't know	2380 <input type="checkbox"/> Yes <input type="checkbox"/> No or not incorporated place <input type="checkbox"/> Don't know
2370 Zone code Zone alpha (if any) <input type="checkbox"/> Off map	2370 Zone code Zone alpha (if any) <input type="checkbox"/> Off map	2370 Zone code Zone alpha (if any) <input type="checkbox"/> Off map
~ 6 15 ~	~ 6 16 ~	~ 6 17 ~
1302 XBUNIT	1303 XCUNIT	1304 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 } 1292 XBTTEN <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 } 1293 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 } 1294 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 } 1296 XBCOND	2400 <input type="checkbox"/> No } Skip to item 61j <input type="checkbox"/> Yes, condominium } <input type="checkbox"/> Yes, cooperative } 1297 XCCOND	2400 <input type="checkbox"/> No } Skip to item 61j <input type="checkbox"/> Yes, condominium } <input type="checkbox"/> Yes, cooperative } 1298 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 1307 XBPER	2410 _____ - If one, skip to item 61m; if more than one, ask item 61k 1308 XCPER	2410 _____ - If one, skip to item 61m; if more than one, ask item 61k 1309 XDPER
2420 <input type="checkbox"/> Yes - Skip to item 61m <input type="checkbox"/> No } 1267 XBHEAD	2420 <input type="checkbox"/> Yes - Skip to item 61m <input type="checkbox"/> No } 1268 XHEAD	2420 <input type="checkbox"/> Yes - Skip to item 61m <input type="checkbox"/> No } 1269 XHEAD
2430 <input type="checkbox"/> Yes } 1272 XBREL <input type="checkbox"/> No	2430 <input type="checkbox"/> Yes } 1273 XCREL <input type="checkbox"/> No	2430 <input type="checkbox"/> Yes } 1274 XDREL <input type="checkbox"/> No
2440 <input type="checkbox"/> Increased <input type="checkbox"/> Stayed about same <input type="checkbox"/> Decreased <input type="checkbox"/> Don't know } 1317 XBCOST	2440 <input type="checkbox"/> Increased <input type="checkbox"/> Stayed about same <input type="checkbox"/> Decreased <input type="checkbox"/> Don't know } 1318 XCCOST	2440 <input type="checkbox"/> Increased <input type="checkbox"/> Stayed about same <input type="checkbox"/> Decreased <input type="checkbox"/> Don't know } 1319 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>	<input type="checkbox"/> 2500 _____ Times per year	1066 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>	<input type="checkbox"/> 2510 \$ _____	1067 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>	<input type="checkbox"/> 2511 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – Skip to item 64g	1191 INCS
<b>e. How many times a year is the (land/site) rent due?</b>	<input type="checkbox"/> 2512 _____ Times per year	1066 FRENT
	12 <input type="checkbox"/> Monthly	
<b>f. What is the cost each . . . (Billing period)?</b>	<input type="checkbox"/> 2513 \$ _____	1193 LRENT
	0 <input type="checkbox"/> No cash rent 9997 <input type="checkbox"/> Included in mobile home park fee	
<b>g. (---/In addition to the land rent), do you pay any (---/additional) mobile home park fee?</b>	<input type="checkbox"/> 3550 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – Skip to item 64j	1196 IFPFE
<b>h. How many times a year is the fee due?</b>	<input type="checkbox"/> 3555 _____ Times per year	1197 CAMP
	12 <input type="checkbox"/> Monthly	
<b>i. What is the cost each . . . (Billing period)?</b>	<input type="checkbox"/> 3600 \$ _____	1198 CONFEE
	0 <input type="checkbox"/> Included in mobile home rent	
<b>j. Are there any (---/other) required fees for utility hookups, mobile home association fees, and so forth?</b>	<input type="checkbox"/> 2517 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No – Skip to item 64m	1209 IFOTFH
<b>k. How many times a year are the fees due?</b>	<input type="checkbox"/> 2518 _____ Times per year	1210 FMHOTF
	12 <input type="checkbox"/> Monthly	
<b>l. What is the average cost each . . . (Billing period) for those fees?</b>	<input type="checkbox"/> 2519 \$ _____	1211 MHOTFE
		ASKED OF ALL
<b>m. Is a garage or carport included (in the rent/with the home)?</b>	<input type="checkbox"/> 2520 1 <input type="checkbox"/> Yes – Skip to item 65a, page 15 2 <input type="checkbox"/> No	0066 GARAGE
<b>n. Is an offstreet parking space included?</b>	<input type="checkbox"/> 2530 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	0062 INCP

Notes

**REGULAR OCCUPIED - Continued**

<b>65a.</b> Is the building owned by a public housing authority?	<b>2540</b>	<input type="checkbox"/> Yes - Skip to item 66 <input type="checkbox"/> No	0823 PROJ
<b>b.</b> Does the Federal Government pay some of the cost of the unit?	<b>2550</b>	<input type="checkbox"/> Yes - Skip to item 66 <input type="checkbox"/> No	0824 SUB
<b>c.</b> Does the State or local government pay some of the cost of the unit?	<b>2580</b>	<input type="checkbox"/> Yes - Skip to item 66 <input type="checkbox"/> No	0825 SUBLGC
<b>d.</b> Do (you/the people living here) have to report the household's income to someone every year so they can set the rent?	<b>2570</b>	<input type="checkbox"/> Yes - Skip to item 66 <input type="checkbox"/> No	0826 SUBINC
<b>e.</b> Is there rent control on the unit?	<b>2580</b>	<input type="checkbox"/> Yes - Skip to item 66 <input type="checkbox"/> No	0831 RCNTRL
<b>f.</b> Is the rent adjusted because someone in the household works for or is related to the owner?	<b>2590</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	0830 RNTADJ

**66.** Check Item (See item 23, page 3.)

<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
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**67.** About when was the building originally built?

<p><b>2910</b> <input type="checkbox"/> 1980 or later</p> <p style="margin-left: 20px;">Month      Year</p> <p style="margin-left: 20px;"> <input type="text"/> <input type="text"/>      <input type="text"/> <input type="text"/> </p>	0044 BUILT } Skip to item 70
<p><b>2910</b></p> <p>1 <input type="checkbox"/> 1979</p> <p>2 <input type="checkbox"/> 75-78</p> <p>3 <input type="checkbox"/> 70-74</p> <p>4 <input type="checkbox"/> 60-69</p> <p>5 <input type="checkbox"/> 50-59</p> <p>6 <input type="checkbox"/> 40-49</p> <p>7 <input type="checkbox"/> 30-39</p> <p>8 <input type="checkbox"/> 20-29</p> <p>9 <input type="checkbox"/> 1919 or earlier</p>	} Skip to item 71, page 16

ASKED OF MOBILE HOMES (RENTED)

**68.** Excluding the dealer's lot, is this the first site on which this mobile home was placed?

<p><b>2900</b></p> <p>1 <input type="checkbox"/> Yes, first site</p> <p>2 <input type="checkbox"/> No, moved from another site</p> <p>3 <input type="checkbox"/> Don't know</p>	0031 FRSTIT
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**69.** What is the model year of the mobile home?

<p><b>2910</b> <input type="checkbox"/> 1980 or later</p> <p style="margin-left: 20px;">Year</p> <p style="margin-left: 20px;"> <input type="text"/> <input type="text"/> </p>	0044 BUILT } Ask item 70
<p><b>2910</b></p> <p>1 <input type="checkbox"/> 1979</p> <p>2 <input type="checkbox"/> 75-78</p> <p>3 <input type="checkbox"/> 70-74</p> <p>4 <input type="checkbox"/> 60-69</p> <p>5 <input type="checkbox"/> 50-59</p> <p>6 <input type="checkbox"/> 40-49</p> <p>7 <input type="checkbox"/> 1939 or earlier</p>	} Skip to item 71, page 16

**70.** Were you the first (person/people) to occupy this home or did someone else live here before you?

<p><b>2920</b></p> <p>1 <input type="checkbox"/> First occupants</p> <p>2 <input type="checkbox"/> Previously occupied</p>	0030 FRSTOC
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(never homes after 1980)

Notes

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**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 00 07 LOT

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 1  Yes } Skip to item 109a, page 24  
 2  No } 00 07 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?

2650 1  Yes, all  
 2  Yes, part  
 3  No  
 NEWROF 0093

2655 1  Yes } Ask c  
 2  No }

2660 \$ 0106 CSTROF 00  
 No cost

(2) Were any additions built?

2670 1  Yes  
 2  No  
 NEWADD 0095

3  Yes } Ask c  
 4  No }

2680 \$ 0109 CSTADD 00  
 No cost

(3) Was the kitchen remodeled or a kitchen added?

2690 1  Yes  
 2  No  
 NEWKIT 0096

3  Yes } Ask c  
 4  No }

2700 \$ 0110 CSTKIT 00  
 No cost

(4) Were any bathrooms remodeled or added?

2710 1  Yes  
 2  No  
 NEWBTH 0097

3  Yes } Ask c  
 4  No }

2720 \$ 0111 CSTBTH 00  
 No cost

(5) Was any siding replaced or added in the last 2 years?

2730 1  Yes  
 2  No  
 NEWSID 0098

3  Yes } Ask c  
 4  No }

2740 \$ 0112 CSTSID 00  
 No cost

(6) Were any new storm doors or storm windows bought and installed?

2750 1  Yes  
 2  No  
 NEWSDW 0209

3  Yes } Ask c  
 4  No }

2760 \$ 0210 CSTSDW 00  
 No cost

(7) Was any major equipment, such as a furnace or central air conditioning replaced or added?

2770 1  Yes  
 2  No  
 NEWMEQ 0204

3  Yes } Ask c  
 4  No }

2780 \$ 0205 CSTMEQ 00  
 No cost

(8) Was insulation added?

2790 1  Yes  
 2  No  
 NEWIN 0210

3  Yes } Ask c  
 4  No }

2800 \$ 0223 NEWICG 00  
 No cost

(9) Were any (---/other) major repairs, or improvements, over \$500 each done in the last 2 years?

2810 1  Yes  
 2  No  
 OTHFIX 0099

3  Yes } Ask c  
 4  No }

2820 \$ 0113 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 1  Yes  
 2  No

0114 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 0227 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 → oc44 BUILT

Month Year } Skip to item 81

2910 1  1979

2  75-78

3  70-74

4  60-69

5  50-59

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

0031 FR5IT

**80. What is the model year of the mobile home?**

2910  1980 or later → 0044 BUILT

Year } Ask item 81

2910 1  1979

2  75-78

3  70-74

4  60-69

5  50-59

6  40-49

7  1939 or earlier

Skip to item 82a

**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

0030 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 1081 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 1084 WHNRCV

**c. What was the price? (Exclude closing costs.) (For mobile homes, exclude value of the land.)**

2950 \$ \_\_\_\_\_ 00 1074 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 - Skip to item 83a, page 18 1015 DWNPAY

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

0029 FRSTHO

**REGULAR OCCUPIED - Continued**

**83. Check item**

a. (See item 25a, page 3.)

- Condominium or cooperative - Skip to item 87a
- Not a condominium or cooperative - Go to item 83b

b. (See item 23, page 3.)

- One-unit building - Ask item 84a
- One-unit mobile home - Skip to item 88a, page 19
- Two-or-more-unit building or two-or-more-unit mobile home - Skip to item 86e

ASKED IF OWNED  
1 UNIT ON < 10 ACRES  
↓

**84a. How large is the (lot/slots)?**

(Include all connecting land that is owned or that is rented with the home.)

2990 \_\_\_\_\_ Square feet 0007 LOT

OR

(If over 1 acre, drop any fractions, don't round up. If under one acre, convert to approximate square feet.)

2990 \_\_\_\_\_ Feet by

One-eighth acre = 5500 sq. ft.

3000 \_\_\_\_\_ feet

Quarter acre = 11000 sq. ft.

OR

One-third acre = 14000 sq. ft.

3010 \_\_\_\_\_ Whole acres

Half acre = 22000 sq. ft.

Three-quarters acre = 33000 sq. ft.

One acre = 44000 sq. ft.

Don't know - Ask item 84b

**b. MARK OR ASK -**

Is it more than 10 acres?

3020 1  Yes - Skip to item 86a  
2  No 0007 LOT

c. Is there a commercial establishment on the property?

3030 1  Yes - Skip to item 85a  
2  No 0056 SHOPS

d. Is there a medical or dental office on the property?

3040 1  Yes - Skip to item 85b  
2  No 0057 DOCS

e. How much do you think the house and lot would sell for on today's market?

3100 \$ \_\_\_\_\_ 00 1009 VALUE  
Skip to item 89a, page 19

**85a. Is there a medical or dental office on the property?**

3040 1  Yes  
2  No 0057 DOCS

b. How much do you think the house, (business/medical office) and lot would sell for on today's market?

3080 \$ \_\_\_\_\_ 00 1070 PVALUE

c. What is the value of the residential portion of this property?

3100 \$ \_\_\_\_\_ 00 1009 VALUE  
Skip to item 89a, page 19

**86a. Is there a commercial establishment on the property?**

3030 1  Yes  
2  No 1 UNIT > 10 ACRES 0056 SHOPS

b. Is there a medical or dental office on the property?

3040 1  Yes  
2  No 0057 DOCS

c. How much do you think the house and (Acreage from item 84a/all the land) would sell for on today's market?

3080 \$ \_\_\_\_\_ 00 1070 PVALUE

d. How much do you think the house and its (lot/yard) would sell for on today's market?

3100 \$ \_\_\_\_\_ 00 1009 VALUE  
Skip to item 89a, page 19

e. Is there a commercial establishment on the property?

3030 1  Yes  
2  No MULTIFAMILY 0056 SHOPS

f. Is there a medical or dental office on the property?

3040 1  Yes  
2  No 0057 DOCS

g. How much do you think the entire building and property would sell for on today's market?

3080 \$ \_\_\_\_\_ 00 1070 PVALUE

h. How much of that would apply to the apartment only?

3100 \$ \_\_\_\_\_ 00 1009 VALUE  
Skip to item 89a, page 19

**87a. Is there a commercial establishment on the property?**

3030 1  Yes  
2  No CONDOS 0056 SHOPS

b. Is there a medical or dental office on the property?

3040 1  Yes  
2  No 0057 DOCS

c. How much do you think the apartment would sell for on today's market?

3100 \$ \_\_\_\_\_ 00 1009 VALUE  
Skip to item 89a, page 19

**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 <b>0007</b> LOT                  OR                  2990 _____ Feet by                  3000 _____ feet                  OR                  3010 _____ Whole acres                  0 <input type="checkbox"/> Don't know – Ask item 88b</p>
<p>MARK OR ASK –</p>	
<p><b>b. Is it more than 10 acres?</b></p>	<p>3020 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No <b>0007</b> 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 <b>0056</b> 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 <b>0057</b> 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 \$ _____ <b>00</b> <b>1008</b> 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 <b>1187</b> OWNLOT</p>
<p><b>g. How much do you think the land would sell for on today's market?</b></p>	<p>3150 \$ _____ <b>00</b> <b>1071</b> LVALUE                  ALL OWNERS</p>
<p style="text-align: right;">↓</p>	
<p><b>89a. Is a garage or carport included with your home?</b></p>	<p>611 <b>2520</b> 1 <input type="checkbox"/> Yes – Skip to item 90                  2 <input type="checkbox"/> No <b>0000</b> GARAGE</p>
<p><b>b. Is an offstreet parking space included?</b></p>	<p><b>2530</b> 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No <b>0002</b> INCP</p>
<p><b>90. Is the ownership of the (house/apartment) shared with anyone NOT living here?</b></p>	<p><b>3180</b> 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No <b>1091</b> NROWNR</p>
<p><b>91. Does anyone not living here pay some of the mortgage or utility costs?</b></p>	<p><b>3190</b> 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No <b>1144</b> 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><b>3200</b> 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 <b>1092</b> 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><b>3210</b> 1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No <b>0827</b> 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>	<b>3220</b> _____ Number of mortgages	1095 NUMMOR
<b>96a. Did you get the current (first/second) mortgage the same year you bought your home?</b>	<b>FIRST (MORTGAGE/LOAN)</b> ~618~ <b>3230</b> 1 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> MATBUY 2 <input type="checkbox"/> No - Skip to item 96e	<b>SECOND (MORTGAGE/LOAN)</b> ~619~ <b>3230</b> 1 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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>	<b>3240</b> 1 <input type="checkbox"/> New - Skip to item 96f 2 <input type="checkbox"/> Assumed 3 <input type="checkbox"/> Wrap-around - Skip to item 96f 1099 NEWMOR	<b>3240</b> 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 1100
<b>c. How much was left to pay off when you assumed it?</b>	<b>AMMORT</b> 1101 <b>3250</b> \$ _____ .00	<b>AMMRT2</b> 1102 <b>3250</b> \$ _____ .00
<b>d. How many years remained on the mortgage then?</b>	<b>TERM</b> 1100 <b>3260</b> _____ Years - Skip to item 96i	<b>TERM2</b> 1107 <b>3260</b> _____ Years - Skip to item 96i
<b>e. What year did you get the mortgage?</b>	<b>YRMOR</b> 1104 <b>3280</b> 1 9 _____ Year	<b>YRMOR2</b> 1105 <b>3280</b> 1 9 _____ Year
<b>f. When you first obtained THIS mortgage, how many years was it for?</b>	<b>TERM</b> 1106 <b>3290</b> _____ 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>TERM2</b> 1107 <b>3290</b> _____ 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>	<b>AMRTZ</b> 1108 <b>3300</b> _____ Years	<b>AMRTZ2</b> 1109 <b>3300</b> _____ Years
<b>h. How much was borrowed?</b>	<b>AMMORT</b> 1101 <b>3310</b> \$ _____ .00	<b>AMMRT2</b> 1102 <b>3310</b> \$ _____ .00
<b>i. Does this mortgage cover -</b>	<b>PINCOP</b> 1134 <b>3320</b> 1 <input type="checkbox"/> Yes - Skip to item 96j 2 <input type="checkbox"/> No	<b>PINCO2</b> 1135 <b>3320</b> 1 <input type="checkbox"/> Yes - Skip to item 96j 2 <input type="checkbox"/> No
<b>(1) Other homes or apartments besides this one?</b>	<b>3330</b> 1 <input type="checkbox"/> Yes - Skip to item 96j 2 <input type="checkbox"/> No	<b>3330</b> 1 <input type="checkbox"/> Yes - Skip to item 96j 2 <input type="checkbox"/> No
<b>(2) Farm land?</b>	<b>MFARM</b> 1136 <b>3340</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 96k	<b>MFARM2</b> 1137 <b>3340</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 96k
<b>(3) A business on this property?</b>	<b>MCOM</b> 1138 <b>3350</b> \$ _____ .00	<b>MCOM2</b> 1139 <b>3350</b> \$ _____ .00
<b>j. How much of the ... (Amount in item 96c or h) applies just to your home?</b>	<b>RESMOR</b> 1140 <b>3360</b> \$ _____ .00	<b>RESMR2</b> 1141 <b>3360</b> \$ _____ .00
<b>k. What is the current interest rate on the mortgage?</b> (Annual percentage rate) (Round down to nearest 1/4)	<b>INT</b> 1142 <b>3370</b> _____ Plus Fraction 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>INT2</b> 1143 <b>3370</b> _____ Plus Fraction 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>	<b>PMT</b> 1145 <b>3380</b> \$ _____ .00	<b>PMT2</b> 1146 <b>3380</b> \$ _____ .00
<b>m. Besides principal and interest, does this payment include -</b>	<b>TAXPMT</b> 1150 <b>3390</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	<b>TXPMT2</b> 1151 <b>3390</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
<b>(1) Property taxes?</b>	<b>INSPMT</b> 1171 <b>3400</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	<b>INPMT2</b> 1172 <b>3400</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
<b>(2) Homeowner's insurance?</b>	<b>OTHPMT</b> 1205 <b>3410</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 96n, page 21	<b>OTPMT2</b> 1206 <b>3410</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 96n, page 21
<b>(3) Anything else?</b>	<b>AMTM</b> 1207 <b>3420</b> \$ _____ .00	<b>AMTM2</b> 1208 <b>3420</b> \$ _____ .00
<b>(4) How much were the other charges last year?</b> (Do not include property taxes or homeowner's insurance.)		

**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 3430	~619 3430	
	1 <input type="checkbox"/> FHA (Federal Housing Administration) } Skip to item 96a 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	1 <input type="checkbox"/> FHA (Federal Housing Administration) } Skip to item 96a 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 1114 BANK 2 <input type="checkbox"/> Individual	3440 1 <input type="checkbox"/> Bank or other organization - Skip to item 96q 1115 BANK2 2 <input type="checkbox"/> Individual
	<b>p. Was that the former owner of the home?</b>	3450 1 <input type="checkbox"/> Yes 1116 SELL 2 <input type="checkbox"/> No	3450 1 <input type="checkbox"/> Yes 1117 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 1118 VARY 2 <input type="checkbox"/> No	3460 1 <input type="checkbox"/> Yes - Skip to item 96s 1119 VARY2 2 <input type="checkbox"/> No
	<b>r. How do they change? (Mark all that apply.)</b>	3470 1 <input type="checkbox"/> Change in taxes or insurance, or due to decline in principal balance 1122 ARM 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 1130 VARM 1124 GPM 3 <input type="checkbox"/> Rise at fixed schedule during part of loan 4 <input type="checkbox"/> Rise at fixed schedule during whole length of loan 1126 GPMW BLOON 5 <input type="checkbox"/> Last payment biggest 1127 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 1132 3 <input type="checkbox"/> 51-75 4 <input type="checkbox"/> 76-100	3470 1 <input type="checkbox"/> Change in taxes or insurance, or due to decline in principal balance 1123 ARM2 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 1131 VARM2 1125 GPM2 3 <input type="checkbox"/> Rise at fixed schedule during part of loan 4 <input type="checkbox"/> Rise at fixed schedule during whole length of loan 1127 GPMW2 BLOON2 5 <input type="checkbox"/> Last payment biggest 1128 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 1133 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	1103 AMRT3
<b>b. What is your current monthly payment for the (third mortgage/other mortgages)?</b>	3500 \$ _____ 00	1147 PMT3	
<b>Notes</b>  			

**REGULAR OCCUPIED - Continued**

**98. Check item**

**a.** (See item 23, page 3.)

- One-unit mobile home or two-or-more-unit mobile home - Skip to item 101a
- Not a mobile home - Go to item 98b

**b.** (See item 25a, page 3.)

- Condominium or cooperative - Ask item 99a
- All others - Skip to item 103a, page 23

CONDOS



**99a. What were the real estate taxes last year for the (condominium/cooperative) unit?**

(Include school taxes, special assessments, and any other real estate taxes.)  
(Exclude taxes past due from other years.)  
(Subtract any rebates.)

3520 \$ \_\_\_\_\_ 00

1162 AMTX

**b. Did you receive a real estate property tax rebate last year?**

- 3524 1  Yes  
2  No - Skip to item 100a

**c. What was the amount of the property tax rebate?**

3528 \$ \_\_\_\_\_ 00

**100a. Is there a required (condominium/cooperative) association fee?**

- 3570 1  Yes  
2  No - Skip to item 109a, page 24 IFFEE 1-96

**b. How many times a year is the fee due?**

3580 \_\_\_\_\_ Times per year 1197 CAMF  
12  Monthly

**c. What is the average cost each . . . (Billing period)?**

3590 \$ \_\_\_\_\_ 00 - Skip to item 109a, page 24 MOBILE HOME

1197 CONFEE

**101a. On the mobile home (---/and its lot) last year, what was the total cost of - property and real estate taxes, registration fees, and license fees?**

(Include all connecting land. Include school taxes, special assessment, and any other real estate taxes.)  
(Exclude taxes past due from other years.)  
(Subtract any rebates.)

3520 \$ \_\_\_\_\_ 00

1162 AMTX

**b. Did you receive a real estate property tax rebate last year?**

- 3524 1  Yes  
2  No - Skip to item 102a

**c. What was the amount of the property tax rebate?**

3528 \$ \_\_\_\_\_ 00

Notes

**REGULAR OCCUPIED - Continued**

**102. Check item**

a. (See item 88f, page 19.)

- Land is owned - Skip to item 102f
- Land is NOT owned - Go to item 102b

b. (See item 92, page 19.)

- Yes, mortgage - Ask item 102c
- No mortgage - Skip to item 102d

MOBILE HOME OWNED  
LAND RENTED  
↓

c. Earlier you told me you do not own the land. Do you pay separate rent for the land?

~611 v  
2511 1  Yes 1191 INCS  
2  No - Skip to item 102f

d. How many times a year is the land rent due?

2512 \_\_\_\_\_ Times per year FLRENT 1192  
12  Monthly

e. What is the cost each billing period?

2513 \$ \_\_\_\_\_ 00 1193 LRENT  
0  No cash rent  
9997  Included in mobile home park fee or association fee

f. (----/In addition to the land rent), do you pay any (----/additional) mobile home park fee?

3550 1  Yes 1196 IFFEE  
2  No - Skip to item 102i

g. How many times a year is the fee due?

3555 \_\_\_\_\_ Times per year CAMF 1197  
12  Monthly

h. What is the average cost each ... (Billing period)?

3800 \$ \_\_\_\_\_ 00 1198 CONFEE

i. Are there (any/any other) required fees for utility hookups, mobile home association fees, and so forth?

~611 v  
2517 1  Yes 1209 IFOTHF  
2  No - Skip to item 109a, page 24

j. How many times a year are the fees due?

2518 \_\_\_\_\_ Times per year 1210 FMHOTF  
12  Monthly

k. What is the average cost each ... (Billing period) for those fees?

2519 \$ \_\_\_\_\_ 00 1211 MHOTFE  
- Skip to item 109a, page 24

**103a. What were the real estate taxes last year for this home and its land?**

(Include all connecting owned land. If multi-unit building, estimate share for sample unit. Include school taxes, special assessments, and any other real estate taxes.)  
(Exclude taxes past due from other years.)  
(Subtract any rebates.)

3520 \$ \_\_\_\_\_ 00 1162 AMTX

b. Did you receive a real estate property tax rebate last year?

3524 1  Yes  
2  No - Skip to item 105a

c. What was the amount of the property tax rebate?

3525 \$ \_\_\_\_\_ 00

**104. WASHINGTON USE ONLY**

**105a. Is there a required homeowner's association fee?**

3570 1  Yes IFEE 1194  
2  No - Skip to item 106, page 24

b. How many times a year is the fee due?

3580 \_\_\_\_\_ Times 1197 CAMF  
12  Monthly

c. What is the average cost each ... (Billing period)?

3590 \$ \_\_\_\_\_ 00 1198 CONFEE  
- Skip to item 109a, page 24



**REGULAR OCCUPIED - Continued**

<p><b>106.</b> In some parts of the country people own their homes but rent the land. Do you pay rent for the land?</p>	<p><b>3810</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 109a</p> <p align="right">1187 OWNLOT</p>		
<p><b>107.</b> Check item (See item 92, page 19.) <input type="checkbox"/> Yes, mortgage - Ask item 108a <input type="checkbox"/> No mortgage - Skip to item 108b</p>			
<p><b>108a.</b> Is the land rent included with the mortgage payment?</p>	<p><b>3820</b> 1 <input type="checkbox"/> Yes - Skip to item 109a 2 <input type="checkbox"/> No</p> <p align="right">1190 LANPMT</p>		
<p><b>b.</b> How many times a year is the land rent due?</p>	<p><b>3830</b> _____ Times per year 12 <input type="checkbox"/> Monthly</p> <p align="right">1192 FLRENT</p>		
<p><b>c.</b> What does it cost each time?</p>	<p><b>3840</b> \$ _____ <b>00</b></p> <p align="right">1193 LRENT</p>		
<p><b>109a.</b> Does this household have (homeowner's/household property) insurance?</p>	<p><b>3850</b> 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 110a</p> <p align="right">1167 BUYI</p>		
<p><b>b.</b> In the past 12 months what was the total cost?</p>	<p><b>3860</b> \$ _____ <b>00</b></p> <p align="right">1174 AMTI</p>		
<p align="center"><b>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.</b></p>			
<p><b>110a.</b> In the past 12 months what was the average MONTHLY cost for electricity?</p>	<p><b>3870</b> <u>0912</u> AMTE \$ _____ <b>00</b> per month - If "All electric home," mark "Not used" in items 110b and d without asking</p> <p><b>3880</b> 1 <input type="checkbox"/> Not used 2 <input type="checkbox"/> Included in rent, site rent, condominium or other fee, etc. 3 <input type="checkbox"/> Obtained free BUYE</p>		
<p><b>b.</b> In the past 12 months what was the average MONTHLY cost for gas?</p>	<table border="0" style="width:100%;"> <tr> <td style="width:50%; vertical-align: top;"> <p><b>3890</b> <u>0913</u> AMTG \$ _____ <b>00</b> per month, OR →</p> <p><b>3700</b> 1 <input type="checkbox"/> Not used - Skip to item 110d 2 <input type="checkbox"/> Included in rent, site rent, condominium, or other fee, etc. 3 <input type="checkbox"/> Obtained free BUYG <u>0961</u></p> </td> <td style="width:50%; vertical-align: top;"> <p><b>3710</b> Billed with - (Mark all that apply.)</p> <p>1 <input type="checkbox"/> Electricity BILLGE 1033 2 <input type="checkbox"/> Fuel oil BILLGF 1035 3 <input type="checkbox"/> Other fuel BILLGO 1034 4 <input type="checkbox"/> Garbage and trash BILLGW 5 <input type="checkbox"/> Water and sewage</p> <p align="right">1036 BILLGT BILLGW 1037</p> </td> </tr> </table>	<p><b>3890</b> <u>0913</u> AMTG \$ _____ <b>00</b> per month, OR →</p> <p><b>3700</b> 1 <input type="checkbox"/> Not used - Skip to item 110d 2 <input type="checkbox"/> Included in rent, site rent, condominium, or other fee, etc. 3 <input type="checkbox"/> Obtained free BUYG <u>0961</u></p>	<p><b>3710</b> Billed with - (Mark all that apply.)</p> <p>1 <input type="checkbox"/> Electricity BILLGE 1033 2 <input type="checkbox"/> Fuel oil BILLGF 1035 3 <input type="checkbox"/> Other fuel BILLGO 1034 4 <input type="checkbox"/> Garbage and trash BILLGW 5 <input type="checkbox"/> Water and sewage</p> <p align="right">1036 BILLGT BILLGW 1037</p>
<p><b>3890</b> <u>0913</u> AMTG \$ _____ <b>00</b> per month, OR →</p> <p><b>3700</b> 1 <input type="checkbox"/> Not used - Skip to item 110d 2 <input type="checkbox"/> Included in rent, site rent, condominium, or other fee, etc. 3 <input type="checkbox"/> Obtained free BUYG <u>0961</u></p>	<p><b>3710</b> Billed with - (Mark all that apply.)</p> <p>1 <input type="checkbox"/> Electricity BILLGE 1033 2 <input type="checkbox"/> Fuel oil BILLGF 1035 3 <input type="checkbox"/> Other fuel BILLGO 1034 4 <input type="checkbox"/> Garbage and trash BILLGW 5 <input type="checkbox"/> Water and sewage</p> <p align="right">1036 BILLGT BILLGW 1037</p>		
<p><b>c.</b> Is the gas from underground pipes or bottled gas?</p>	<p><b>3720</b> 1 <input type="checkbox"/> Underground pipes serving neighborhood <u>0848</u> GASPIP 2 <input type="checkbox"/> Bottled gas</p>		
<p><b>d.</b> In the past 12 months what was the total ANNUAL cost for fuel oil?</p>	<p><b>3730</b> <u>0915</u> AMTO \$ _____ <b>00</b> per year, OR →</p> <p><b>3740</b> 1 <input type="checkbox"/> Not used 2 <input type="checkbox"/> Included in rent, site rent, condominium, or other fee 3 <input type="checkbox"/> Obtained free <u>0962</u> BUYO</p>		
<p><b>e.</b> In the past 12 months what was the total ANNUAL cost for wood, coal, kerosene, or any other fuel?</p>	<p><b>3760</b> <u>0917</u> AMTF \$ _____ <b>00</b> per year, OR →</p> <p><b>3770</b> 1 <input type="checkbox"/> Not used 2 <input type="checkbox"/> Included in rent, site rent, condominium, or other fee 3 <input type="checkbox"/> Obtained free <u>0965</u> BUYF</p>		
<p><b>f.</b> In the past 12 months what was the total ANNUAL cost for garbage and trash collection?</p>	<p><b>3780</b> <u>0914</u> AMTT \$ _____ <b>00</b> per year, OR →</p> <p><b>3800</b> 1 <input type="checkbox"/> Not used 2 <input type="checkbox"/> Included in real estate taxes, rent, site rent, condominium, or other fee 3 <input type="checkbox"/> Obtained free <u>0964</u> BUYT</p>		
<p><b>g.</b> In the past 12 months what was the total ANNUAL cost for water supply and sewage disposal?</p>	<p><b>3820</b> <u>0916</u> AMTW \$ _____ <b>00</b> per year, OR →</p> <p><b>3830</b> 2 <input type="checkbox"/> Included in real estate taxes, rent, site rent, condominium, or other fee 3 <input type="checkbox"/> Obtained free</p>		
	<p><b>3840</b> Billed with - (Mark all that apply.)</p> <p>1 <input type="checkbox"/> Electricity BILLWE 1053 2 <input type="checkbox"/> Gas BILLWG 1054 3 <input type="checkbox"/> Fuel oil BILLWO 1055 4 <input type="checkbox"/> Other fuel BILLWF 1056 5 <input type="checkbox"/> Garbage and trash</p> <p align="right">1057 BILLWT</p>		

**REGULAR OCCUPIED - Continued**

**111a.** How many automobiles are kept at home for use by members of your household? (Exclude vans or trucks.) 0058 CARS  
 Number  
 None

---

**111b.** How many vans or trucks of one-ton capacity or less are kept at home for use by members of your household? 0059 TRUCKS  
 Number  
 None

**112.** Check Item

**a.** (See Control Card items 13, 14, and 18.)  
 No nonrelative household members age 14 + in household - Skip to item 114, page 26  
 Nonrelative household members age 14 + in household - Go to item 112b

---

**b.** (See Control Card items 13, 17, and 18.)  
 All nonrelatives age 14 + are co-owners/co-renters (in Control Card item 17) - Skip to item 114, page 26  
 All others - Go to item 112c

---

**c.** (See Control Card items 13, 17, and 18.)  
 Remaining nonrelatives age 14 + are spouse or child(ren) of co-owner or co-renter - Skip to item 114, page 26  
 All others - Ask item 113a-d for each nonrelative age 14+ who is not a co-owner or co-renter

	~620~	~621~	~622~	~623~
<b>113.</b> Enter line number	3880 Line number 0058 NRLIN1	3880 Line number 0059 NRLIN2	3880 Line number 0058 NRLIN3	3880 Line number 0058 NRLIN4
<b>a.</b> Does ... pay a regular fixed rent as a lodger to someone in this household?	3890 LODGE1 0717 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 26.	3890 LODGE2 0718 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 26.	3890 LODGE3 0719 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 26.	3890 LODGE4 0720 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 26.
<b>b.</b> How often is ...'s rent due?	3900 FRENT1 0725 ____ Times/year 12 <input type="checkbox"/> Monthly	3900 FRENT2 0726 ____ Times/year 12 <input type="checkbox"/> Monthly	3900 FRENT3 0727 ____ Times/year 12 <input type="checkbox"/> Monthly	3900 FRENT4 0728 ____ Times/year 12 <input type="checkbox"/> Monthly
<b>c.</b> How much is the rent?	3910 RENT1 0733 \$ _____ 00	3910 RENT2 0734 \$ _____ 00	3910 RENT3 0735 \$ _____ 00	3910 RENT4 0736 \$ _____ 00
<b>d.</b> Does that include food?	3920 FOOD1 0741 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	3920 FOOD2 0742 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	3920 FOOD3 0743 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	3920 FOOD4 0744 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No

Notes

**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="checkbox"/> <input type="checkbox"/> 0384 PLINE	3950 \$ 0655 SAL1 00
3980 <input type="checkbox"/> <input type="checkbox"/> 0385 PLINE2	3970 \$ 0656 SAL2 00
3980 <input type="checkbox"/> <input type="checkbox"/> 0386 PLINE3	3990 \$ 0657 SAL3 00
4000 <input type="checkbox"/> <input type="checkbox"/> 0587 PLINE4	4010 \$ 0658 SAL4 00
4020 <input type="checkbox"/> <input type="checkbox"/> 0388 PLINE5	4030 \$ 0659 SAL5 00
4040 <input type="checkbox"/> <input type="checkbox"/> 0389 PLINE6	4050 \$ 0660 SAL6 00
4060 <input type="checkbox"/> <input type="checkbox"/> 0390 PLINE7	4070 \$ 0661 SAL7 00
4080 <input type="checkbox"/> <input type="checkbox"/> 0391 PLINE8	4090 \$ 0662 SAL8 00
4100 <input type="checkbox"/> <input type="checkbox"/> 0392 PLINE9	4110 \$ 0663 SAL9 00
4120 <input type="checkbox"/> <input type="checkbox"/> 0394 PLINE10	4130 \$ 0664 SAL10 00

**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?	4140 <input type="checkbox"/>	2 <input type="checkbox"/>	0678 QBUS	
(2) Receive social security or pensions? (Social security checks are green. Do not count pale gold SSI checks as social security.)	4160 <input type="checkbox"/>	2 <input type="checkbox"/>	0680 QSS	
(3) Receive any interest or dividend income of \$400 or more?	4170 <input type="checkbox"/>	2 <input type="checkbox"/>	If all "No," QINT skip to item 116	
(4) Receive rental income?	4180 <input type="checkbox"/>	2 <input type="checkbox"/>		0682 QRENT
(5) Receive welfare or SSI?	4190 <input type="checkbox"/>	2 <input type="checkbox"/>		0683 QWELF
(6) Receive alimony or child support?	4210 <input type="checkbox"/>	2 <input type="checkbox"/>		0684 QALIM
(7) Receive unemployment or worker's compensation or any other income?	4220 <input type="checkbox"/>	2 <input type="checkbox"/>	0685 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 \$ 0704 VOTHER	00	Total income after deducting expenses and losses
OR		
4240 \$ 0704 VOTHER	00	Amount of total net loss
OR		
o <input type="checkbox"/> 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**

**120a. Did . . . (Specify names of all household members age 14 +) work at any time last week? If "Yes," list line number.**

(Do NOT count persons who were absent from work all last week due to illness, vacation, strike, layoff, etc., as having worked.)

**~6 25+** 1805 WLINE1

4440  No workers - Skip to item 121a, page 30

4440  Line number

**b. Did . . . usually report to the same location to begin work each day?**

4445  Yes 1913 HJOB1  
 No

**c. In what city, county, and State did . . . work last week?**  
(Enter 2-character State code from flashcard.) 1921 WINUS1

4450  Outside USA - Skip to item 120t

**~7 25+**

City or place

County

State

1929 WMETR1

1937 WCNTY1

1947 WKST1

**d. What is the ZIP Code?**

4480  ZIP Code

4470 OFFICE USE ONLY

**e. Is . . . 's place of work inside the incorporated limits of (City above)?**

4480  Yes  
 No or not incorporated place  
 Don't know

**f. OFFICE USE ONLY**

1903 WKST1

4490  Zone code  
 Zone alpha (if any)  
4490  Off map

**g. How did . . . usually get to work last week?**  
(Mark item that accounted for greatest distance to location of job at which person worked most hours last week.) 1822 TRAN1  
1831 VEHCL1

**~8 25+**

4500  Car, truck, van -  
**Did . . . drive alone or go with others?**  
4510  Alone - Skip to item 120i  
 Go with others - Ask item 120h  
4500  Bus or streetcar . . .  
 Subway or elevated  
 Railroad . . . . . } Skip to item 120i  
 Taxicab . . . . .  
 Motorcycle . . . . .  
 Bicycle . . . . .  
 Other vehicle . . . . .  
 Walked only . . . . .  
 Works at home - Skip to item 120t

**h. How many people including . . . usually ride in the (car/truck/van)?** 1850 PASS1

4520 \_\_\_\_\_ Number

**i. How many minutes did it usually take . . . to get to work?** TIMES1 2008

4530 \_\_\_\_\_ Minutes  
 Work place varies

**j. What time did . . . usually leave for work?** 1987 WTIME1

4540 Hours Minutes

1995 AMPM1

4550  a.m.  p.m.

**k. How many miles was . . . 's trip to work?** 2021 DISTJ1

4560 \_\_\_\_\_ Miles  
 Less than 1 mile

Go to next worker; if none, go to item 121a, page 30

**REGULAR OCCUPIED - Continued**

<p><b>~6 26~</b></p> <p>4440 <input type="text"/> Line number</p> <p>4445 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p>4450 0 <input type="checkbox"/> Outside USA - Skip to item 120i</p> <p><b>~7 26~</b></p> <p>City or place <input type="text"/></p> <p>County <input type="text"/></p> <p>State <input type="text"/></p> <p>4460 <input type="text"/> ZIP Code</p> <p>4470 OFFICE USE ONLY <input type="text"/></p> <p>4480 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No or not incorporated place 3 <input type="checkbox"/> Don't know</p> <p>4490 <input type="text"/> Zone code <input type="text"/> Zone alpha (if any)</p> <p>4490 00 <input type="checkbox"/> Off map</p> <p><b>~6 26~</b></p> <p>4500 1 <input type="checkbox"/> Car, truck, van - Did ... drive alone or go with others?</p> <p>4510 2 <input type="checkbox"/> Alone - Skip to item 120i 3 <input type="checkbox"/> Go with others - Ask item 120h</p> <p>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</p> <p>4520 _____ Number</p> <p>4530 _____ Minutes 00 <input type="checkbox"/> Work place varies</p> <p>4540 Hours Minutes <input type="text"/> <input type="text"/></p> <p>4550 1 <input type="checkbox"/> a.m. 2 <input type="checkbox"/> p.m.</p> <p>4560 _____ Miles 0 <input type="checkbox"/> Less than 1 mile</p> <p>Go to next worker; if none, go to item 121a, page 30</p>	<p><b>~6 27~</b></p> <p>4440 <input type="text"/> Line number</p> <p>4445 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p>4450 0 <input type="checkbox"/> Outside USA - Skip to item 120i</p> <p><b>~7 27~</b></p> <p>City or place <input type="text"/></p> <p>County <input type="text"/></p> <p>State <input type="text"/></p> <p>4460 <input type="text"/> ZIP Code</p> <p>4470 OFFICE USE ONLY <input type="text"/></p> <p>4480 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No or not incorporated place 3 <input type="checkbox"/> Don't know</p> <p>4490 <input type="text"/> Zone code <input type="text"/> Zone alpha (if any)</p> <p>4490 00 <input type="checkbox"/> Off map</p> <p><b>~6 27~</b></p> <p>4500 1 <input type="checkbox"/> Car, truck, van - Did ... drive alone or go with others?</p> <p>4510 2 <input type="checkbox"/> Alone - Skip to item 120i 3 <input type="checkbox"/> Go with others - Ask item 120h</p> <p>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</p> <p>4520 _____ Number</p> <p>4530 _____ Minutes 00 <input type="checkbox"/> Work place varies</p> <p>4540 Hours Minutes <input type="text"/> <input type="text"/></p> <p>4550 1 <input type="checkbox"/> a.m. 2 <input type="checkbox"/> p.m.</p> <p>4560 _____ Miles 0 <input type="checkbox"/> Less than 1 mile</p> <p>Go to next worker; if none, go to item 121a, page 30</p>	<p><b>~6 28~</b></p> <p>4440 <input type="text"/> Line number</p> <p>4445 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p>4450 0 <input type="checkbox"/> Outside USA - Skip to item 120i</p> <p><b>~7 28~</b></p> <p>City or place <input type="text"/></p> <p>County <input type="text"/></p> <p>State <input type="text"/></p> <p>4460 <input type="text"/> ZIP Code</p> <p>4470 OFFICE USE ONLY <input type="text"/></p> <p>4480 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No or not incorporated place 3 <input type="checkbox"/> Don't know</p> <p>4490 <input type="text"/> Zone code <input type="text"/> Zone alpha (if any)</p> <p>4490 00 <input type="checkbox"/> Off map</p> <p><b>~6 28~</b></p> <p>4500 1 <input type="checkbox"/> Car, truck, van - Did ... drive alone or go with others?</p> <p>4510 2 <input type="checkbox"/> Alone - Skip to item 120i 3 <input type="checkbox"/> Go with others - Ask item 120h</p> <p>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</p> <p>4520 _____ Number</p> <p>4530 _____ Minutes 00 <input type="checkbox"/> Work place varies</p> <p>4540 Hours Minutes <input type="text"/> <input type="text"/></p> <p>4550 1 <input type="checkbox"/> a.m. 2 <input type="checkbox"/> p.m.</p> <p>4560 _____ Miles 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**

**121a. Housing size is important for analysis of other information from this survey.**  811 0069 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.)**  
 4800 \_\_\_\_\_ 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.)**  4810 \_\_\_\_\_ Number 0054 FLOORS

**c. MARK OR ASK –**  4820  Yes 0053A SLEVEL  
**Is the (house/apartment) a split level?**  
 2 No

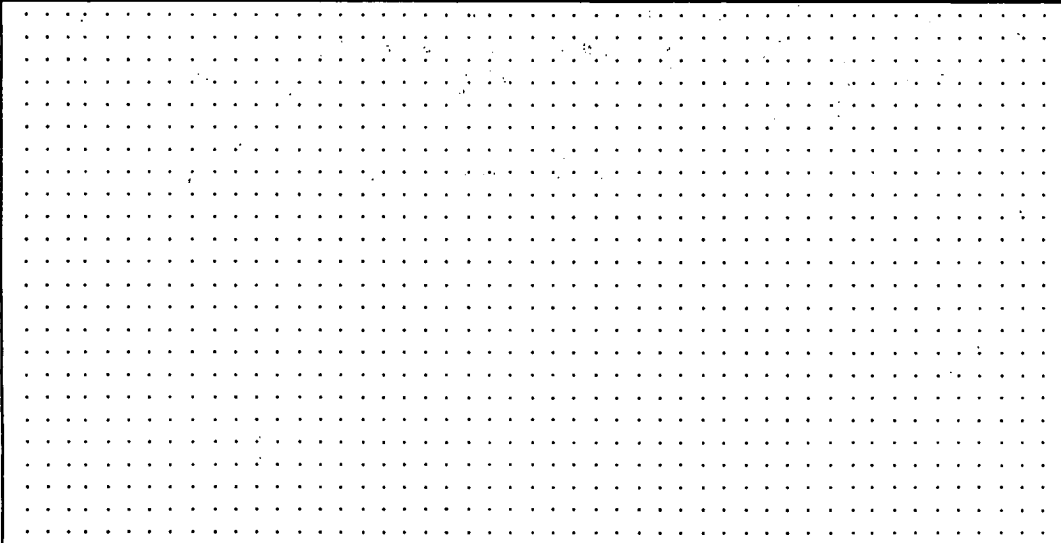
**d. What is the length and width of each floor of the (house/apartment)? (Include basements and finished attics. Exclude unfinished attics, carports, and attached garages. Also exclude porches that are not protected from the elements/-----) (-----/Exclude the mobile home hitch.)**

*(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								

4840  Don't know – Skip to item 121h

**e. SKETCH** *(If enough information is available, draw sketch of sample unit below.)* **OFFICE USE ONLY**  4840 0069 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?**  4850  Yes MEASUR  
0072  
 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

	~629~	~630~	~631~	~632~
<b>123a. 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?</b>	4660 Line number 0631 NRLIN1	4660 Line number 0632 NRLIN2	4660 Line number 0633 NRLIN3	4660 Line number 0634 NRLIN4
	4670 HERE1 0639	4670 HERE2 0640	4670 HERE3 0641	4670 HERE4 0642
	1 <input type="checkbox"/> Yes -- Skip to item 123c 2 <input type="checkbox"/> No -- Ask item 123b	1 <input type="checkbox"/> Yes -- Skip to item 123c 2 <input type="checkbox"/> No -- Ask item 123b	1 <input type="checkbox"/> Yes -- Skip to item 123c 2 <input type="checkbox"/> No -- Ask item 123b	1 <input type="checkbox"/> Yes -- Skip to item 123c 2 <input type="checkbox"/> No -- Ask item 123b
<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?</b>	4680 SAL1 0655	4680 SAL2 0656	4680 SAL3 0657	4680 SAL4 0658
	\$ _____ 00 <input type="checkbox"/> None <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>	\$ _____ 00 <input type="checkbox"/> None <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>	\$ _____ 00 <input type="checkbox"/> None <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>	\$ _____ 00 <input type="checkbox"/> None <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>
<b>c. (Introduce yourself, then say:)</b>  <b>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?</b>	4680 SAL1 0655	4680 SAL2 0656	4680 SAL3 0657	4680 SAL4 0658
	\$ _____ 00 <input type="checkbox"/> None Go to next nonrelative. If none, skip to item 175, page 44	\$ _____ 00 <input type="checkbox"/> None Go to next nonrelative. If none, skip to item 175, page 44	\$ _____ 00 <input type="checkbox"/> None Go to next nonrelative. If none, skip to item 175, page 44	\$ _____ 00 <input type="checkbox"/> None Go to next nonrelative. If none, skip to item 175, page 44

Notes



U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
ACTING AS COLLECTING AGENT FOR  
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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.

**AMERICAN HOUSING SURVEY  
NATIONAL SAMPLE  
1985  
UNOCCUPIED UNITS**

**1. CONTROL NUMBER**

~480+

PSU	Segment	Serial	Sample	Check digit
				F

**2a. Date of first visit**

Month	Day	Year

1519 DATE

0010

**b. Interviewer name**

**c. Interview method**

0015

1  Personal visit

2

1542 PERSINT

**3. Check item (See Control Card item B.)**

- Control number in sample last enumeration period - Skip to item 5
- Control number in sample for first time this enumeration period - Skip to item 6

**4. WASHINGTON USE ONLY**

**5. Is this the same (house/apartment/mobile home) as last enumeration period?**

- (Mark if house/apartment. Ask if mobile home.)
- 0020
- 1  Yes
- 2  No; for example, replacement mobile home, wrong unit interviewed last time, etc.

**6. Type of interview**

- 0040
- 3  Vacant interview - Go to item 37, page 8
- 4  Type B noninterview - Go to item 7
- 4  Type C noninterview - Go to item 11

0022 I STATUS

**7. Type B**

- 0050
- 10  Permit granted, construction not started - Go to item 20
- 11  Under construction, not ready - Go to item 21
- 12  Permanent or temporary business or commercial storage - Go to item 22
- 13  Unoccupied site for mobile home or tent - Go to item 23
- 14  OTHER unit or converted to nonstaff - Go to item 24
- 15  Occupancy prohibited - Go to item 25
- 16  Interior exposed to the elements - Go to item 26
- 17  Type B, not classified above - Specify 7 } Go to item 27
- 19  Updating code 2, 3, or 5. - Go to Control Card item 9a.

1549 NOINT

**8. Fill for Type B-12, B-14, and B-15 only.**

- 0080
- 1  Interior exposed to the elements
- 2  Interior not exposed to the elements

**9. In ADDITION to the unit that is being classified as a Type B -**

- 0090
- 1  Building contains at least one housing unit - either occupied or vacant
- Building does NOT contain any housing units -
- 2  Unit being classified as Type B is the only unit in the building
- 3  All units would qualify for a Type B or C noninterview

**10. Is the unit boarded up?**

- 0100
- 1  Yes } Go to Control Card item 9a
- 2  No }

**11. Type C**

- 0050
- 30  Demolished or disaster loss - Go to item 28
- 31  House or mobile home moved - Go to item 29
- 33  Merged not in current sample - Go to item 31
- 36  Permit abandoned - Go to item 32
- 37  Type C, not classified above - Specify 7 } Go to item 33

1549 NOINT

**12. Was that (house/mobile home) demolished, moved, or considered a disaster loss, because it was severely damaged by -**

- (1) Fire?
- 0110 1  Yes
- 2  No
- (2) Other natural disaster?
- 0115 1  Yes } Go to Control Card item 9a
- 2  No }

**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

**16. OFFICE USE ONLY**

0141 Editor's code

0142

**17. Address correction/address addition**

~580+

First address line

Second address line

Place or city

State | ZIP Code

**18-19. WASHINGTON USE ONLY**

**TYPE B OR C NONINTERVIEW CATEGORIES**

**20.  PERMIT GRANTED – CONSTRUCTION NOT STARTED**  
(Type B – 10)

698

a. Type of segment

- Permit segment – Go to item 20b
- All others – This classification is incorrect; determine correct classification.

b. Enter date permit issued

Month	Day	Year
5000		

Skip to item 34, page 7

**21.  UNDER CONSTRUCTION – NOT READY**  
(Type B – 11)

- Multiunit – Go to 21a
- Single unit – Skip to 21b

a. Was any part of this structure built before April 1, 1980?

5020

- 1  Yes – This classification is incorrect; determine correct classification.
- 2  No

b. Type of segment

- Address, Unit, or Neighbor – This classification is incorrect; determine correct classification.
- All others

c. Are all exterior windows and doors and the usable floors in place?

5040

- 1  Yes – This classification is incorrect; conduct Vacant interview.
- 2  No – Skip to item 34, page 7

**22.  PERMANENT OR TEMPORARY BUSINESS OR COMMERCIAL STORAGE**  
(Type B – 12)

a. Mark the box which best describes the current use of the unit.

5050

- 1  Commercial – Specify type of business
- 2  School
- 3  Storage

Skip to item 34, page 7

b. What kind of articles are being stored?

5060

- 1  Personal household furniture only – This classification is incorrect; conduct Vacant interview.
- 2  Commercial storage
- 3  Farm equipment or crops
- 4  Other – Specify

Skip to item 34, page 7

**23.  UNOCCUPIED SITE FOR MOBILE HOME OR TENT**  
(Type B – 13)

a. Is this site (or location description) in a place that has or intends to have five or more sites for mobile homes or tents?

5070

- 1  Yes
- 2  No – This classification is incorrect; determine correct classification.

b. Is the site in a recreational, educational, or religious type park?

5080

- 1  Yes
- 2  No – Skip to item 34, page 7

c. Is this site usually occupied by persons who made arrangements to stay for 30 days or more?

5090

- 1  Yes – Skip to item 34, page 7
- 2  No – This classification is incorrect. This should be Type C, not classified above, "listed in error."

**TYPE B OR C NONINTERVIEW CATEGORIES – Continued**

**24.  OTHER UNIT, OR CONVERTED TO NONSTAFF**  
(Type B-14)

**5094**

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**a. Code type of special place (Refer to Table A in Part C of the manual.)**

Description

---



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**5094**  Not a special place — This classification is incorrect; determine correct classification.

**b. Categorize the type of occupants.**

Type of occupant:

(Give a specific description; for example, college students, nurses; staff at children's camp, inmates, patients, etc.)

- 5097**  Noninstitutional  
 Institutional — Staff  
 Institutional — Inmates or patients

Specify

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Skip to item 34, page 7

**25.  OCCUPANCY PROHIBITED**  
(Type B-15)

**5110**  Yes — This classification is incorrect; determine correct classification.  
 No

**a. Is the unit for nonresidential use?**

**b. Specify reason for occupancy prohibited.**

- 5120**  Scheduled to be demolished — Go to item 25c  
 Severely damaged by fire — Skip to item 25d  
 Condemned or occupancy prohibited by law — Skip to item 25e

**c. Has demolition of the unit begun?**

- 5130**  Yes — This classification is incorrect; determine correct classification.  
 No — Skip to item 25e

**d. Is interior exposed to the elements?**

- 5140**  Yes — This classification is incorrect; determine correct classification.  
 No — Skip to item 34, page 7

**e. Is there a sign or notice indicating that the unit is condemned, or to be demolished, or occupancy is prohibited by law?**

- 5150**  Yes — Skip to item 34, page 7  
 No

**f. Was a public agency contacted to confirm the status?**

**5160**  Yes — Specify the agency

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Skip to item 34, page 7.

- No — This classification is incorrect (unless confirmed by a public agency); determine correct classification.

**TYPE B OR C NONINTERVIEW CATEGORIES – Continued**

**26.  INTERIOR EXPOSED TO THE ELEMENTS**  
(Type B-16)

**a.** Does this unit fit the definition of any of the previous noninterview categories? **5170** 1  Yes – *This classification is incorrect; determine correct classification.*  
2  No

**b.** Mark the box that best describes the condition of the unit's doors and/or windows. **5180** 1  All in good condition  
2  Some missing or broken  
3  Most missing or broken  
4  Unobservable – Explain ↴

**c.** Mark the box that best describes the condition of the unit's roof (exclude porch roofs). **5190** 1  In good condition  
2  Leaky, has missing shingles or small holes  
3  Entirely or partially missing  
4  Unobservable – Explain ↴

**d.** Mark the box that best describes the condition of the unit's exterior walls. **5200** 1  In good condition  
2  Cracked (exclude minor damage which does not expose the interior) or broken  
3  Entirely or partially missing  
4  Unobservable – Explain ↴

**e.** Only boxes 1 or 4 marked for items b, c, and d. **5210** 1  Yes – *This classification is incorrect; determine correct classification.*  
2  No – *Skip to item 34, page 7*

**27.  TYPE B, NOT CLASSIFIED ABOVE**  
(Type B-17)

Reason \_\_\_\_\_

**a.** Specify the reason.  
\_\_\_\_\_

**b.** Did you call the Regional Office? **5215** 1  Yes – *Go to item 27c*  
2  No – *This classification is incorrect; determine correct classification.*

**c.** Give the title and name of the person in the Regional Office who authorized this classification. Title \_\_\_\_\_ } *Skip to item 34, page 7*  
Name \_\_\_\_\_ }

**28.  DEMOLISHED OR DISASTER LOSS**  
(Type C-30)

**a.** Mark the appropriate category. **5220** 1  Demolished – *Go to item 28b*  
2  Disaster loss – *Skip to item 28c*

**b.** How much of the unit has been demolished? **5230** 1  All } *Skip to item 34, page 7*  
2  Part – Demolition proceeding }  
3  Part – Demolition discontinued } *This classification is incorrect; determine correct classification.*  
4  None }

**c.** Are all the exterior walls standing? **5240** 1  Yes – *This classification is incorrect; determine correct classification.*  
2  No – *Skip to item 34, page 7*

**29.  HOUSE OR MOBILE HOME MOVED**  
(Type C-31)

Is this a site (or location description) in a place that has or intends to have five or more sites for mobile homes or tents?

**5250** 1  Yes – *This classification is incorrect; determine correct classification.*  
2  No – *Skip to item 34, page 7*

**30.  UNIT ELIMINATED IN STRUCTURAL CONVERSION**  
(Type C-32)

**a.** Did you call the office? **5255** 1  Yes – *Go to item 30b*  
2  No – *This classification is incorrect; determine correct classification.*

**b.** Give the title and name of the person in the Regional Office who authorized this classification. Title \_\_\_\_\_ } *Skip to item 34, page 7*  
Name \_\_\_\_\_ }

**TYPE B OR C NONINTERVIEW CATEGORIES – Continued**

**31.  MERGED – NOT IN CURRENT SAMPLE**  
(Type C – 33)

**a.** Type of listing sheet

- 5285** 1  AHS-211 – This classification is incorrect; determine correct classification
- 2  11-211 – Go to item 31b
- 3  11-213 – This classification is incorrect; determine correct classification

**b.** How many units were involved in the merger?

**5290** \_\_\_\_\_ Number

**c.** Does the resulting unit use the same address as this sample unit?

- 5300** 1  Yes – This classification is incorrect; conduct an interview
- 2  No – Skip to item 34, page 7

**d.** Is this an EXTRA unit which has merged with another AHS-NATIONAL sample unit?

- 5310** 1  Yes – Skip to item 34, page 7
- 2  No

**e.** Is the resulting merged unit occupied by a household for which you have a completed control card from the previous enumeration period?

- 5320** 1  Yes
- 2  No – Skip to item 31g

**f.** Is this questionnaire for the household which occupies the merger?

- 5330** 1  Yes – This classification is incorrect; interview the merged unit using this control card.
- 2  No

**g.** Does this questionnaire contain the control number of the first of the merged units listed?

- 5340** 1  Yes – This classification is incorrect; interview the merged unit using this control card.
- 2  No – Skip to item 34, page 7

**32.  PERMIT ABANDONED**  
(Type C – 36)

Mark source(s) with whom you have verified the status of the permit.

(Call Regional Office before contacting permit office.)

- 5350** \*
- 1  Builder or contractor
- 2  Sales or rental office
- 3  Development corporation
- 4  Owner
- 5  Regional Office
- 6  Permit office
- 5360** 7  Other – Specify \_\_\_\_\_

Skip to item 34, page 7

**33.  NOT CLASSIFIED ABOVE**  
(Type C – 37)

**a.** Specify the reason.

Reason

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**b.** Mark ALL that apply.

- 5370** \*
- 1  Listing problem
- 2  Sampling problem
- 3  Other
- Go to item 34, page 7, and explain each box marked



### VACANT INTERVIEWS

MARK OR ASK - <span style="float: right;">0050TYPE</span> ~681+	
<b>37. Is that living quarters in a -</b> (Read all answer categories.)	1120 <input type="checkbox"/> Mobile home 2 <input type="checkbox"/> One-unit building, detached from any other building 3 <input type="checkbox"/> One-unit building, attached to one or more buildings - Skip to item 39a 4 <input type="checkbox"/> Building with two or more apartments - Skip to item 38b
<b>38a. Are there any occupied or vacant apartments besides that one in the (building/mobile home)?</b>	1130 <input type="checkbox"/> Yes - Fill Table X on Control Card; then go to item 38b. <span style="float: right;">0048 OTHER</span> 2 <input type="checkbox"/> No - Skip to item 40 and mark box 1 or 4
<b>b. How many apartments are in the (building/mobile home)?</b>	1140 _____ Number - Skip to item 40 and mark box 3 or 5 <span style="float: right;">0047 UNITS</span>
<b>39a. Does that (house/apartment) share an attic or basement with the (house/apartment) next door?</b>	1150 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No ..... } Skip to item 39c 3 <input type="checkbox"/> Don't know
<b>b. How many (houses/apartments) including this one share the attic or basement?</b>	1160 _____ Number - If one, reask item 39a and correct entry. If more than one, skip to item 40 and mark box 3. <span style="float: right;">0047 UNITS</span>
<b>c. Does that (house/apartment) share a furnace or boiler with the (house/apartment) next door?</b>	1170 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No ..... } Skip to item 39e 3 <input type="checkbox"/> Don't know
<b>d. How many (houses/apartments) including this one share the furnace or boiler?</b>	1180 _____ Number - If one, reask item 39c and correct entry. If more than one, skip to item 40 and mark box 3. <span style="float: right;">0047 UNITS</span>
<b>e. Are there any occupied or vacant apartments besides that one in the building?</b>	1190 <input type="checkbox"/> Yes - Fill Table X on Control Card; then go to item 39f 2 <input type="checkbox"/> No - Skip to item 40 and mark box 2
<b>f. How many apartments including this one are in the building?</b>	1200 _____ Number - If one, reask item 39e and correct entry. If more than one, go to item 40 and mark box 3. <span style="float: right;">0047 UNITS</span>
<b>40. Check Item</b> Final structure type classification based on entries in items 37-39.	1210 <input type="checkbox"/> One-unit building - detached <span style="float: right;">0046 UNIT 2</span> 2 <input type="checkbox"/> One-unit building - attached 3 <input type="checkbox"/> Two-or-more-unit building 4 <input type="checkbox"/> Mobile home - one-unit 5 <input type="checkbox"/> Mobile home - two-or-more-unit } Skip to item 42a
<b>41. Is that house built -</b> (Read answer categories until a "yes" reply is received.)	1220 <input type="checkbox"/> With a basement under all the building? <span style="float: right;">0055 CELLAR</span> 2 <input type="checkbox"/> With a basement under part of the building? 3 <input type="checkbox"/> With a crawl space? 4 <input type="checkbox"/> On a concrete slab? 5 <input type="checkbox"/> In some other way? - Specify ?
<b>42a. Is the (house/apartment) part of a condominium or cooperative?</b>	1230 <input type="checkbox"/> No ..... } <span style="float: right;">0034 CONDO</span> 2 <input type="checkbox"/> Yes, condominium } SKIP to item 43, page 9 1 <input type="checkbox"/> Yes, cooperative
<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>	<input type="checkbox"/> Yes <input type="checkbox"/> No - Reask item 42a and correct entry
Notes	

**VACANT INTERVIEWS - Continued**

**43a. How many of each of the following rooms does that (house/apartment) have?**  
*(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.)*

(1) Bedrooms? ..... 1240 \_\_\_\_\_ Number **0075 BEDRMS**  
 None

(2) Full bathrooms? ..... 1250 \_\_\_\_\_ Number **0077 BATHS**  
*(Hot and cold piped water, AND sink AND flush toilet AND bathtub or shower)*  
 None

(3) Half bathrooms? ..... 1260 \_\_\_\_\_ Number **0078 HALFB**  
*(Toilet OR bathtub OR shower)*  
 None

(4) Kitchens? ..... 1270 \_\_\_\_\_ Number **0080 KITCH**  
 None

(5) Living rooms? ..... 1280 \_\_\_\_\_ Number **0079 LIVING**  
 None

(6) Dining rooms? ..... 1290 \_\_\_\_\_ Number **0081 DINING**  
 None

Is it a separate room?  
1295  Yes  
 No - Correct entry for number of dining rooms

---

**b. Are there any other rooms?**  
*(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.)*

1300  Yes **0085 OTHRMS**  
 No - Skip to item 44

---

**c. What are they?**

1310 \_\_\_\_\_ Number of family rooms, dens, recreation rooms and/or libraries **0082 DEN S**  
 None

1320 \_\_\_\_\_ Number of rooms that are business space with direct access to outside **0083 OFFICE**  
 None

1330 \_\_\_\_\_ Number of other rooms, finished or unfinished **0084 NDRM**  
 None

---

**44. Does that (house/apartment) have a kitchen sink?** **0120 SINK**  
*(Exclude sink used on a regular basis by someone living outside the unit.)*  
1340  Yes  
 No

---

**45. Check Item (See item 43a.)**  
 One or more full bathrooms - Skip to item 47a, page 10  
 No full bathrooms - Ask item 46a

---

**46a. Does that (house/apartment) have a bathtub or shower which is NOT used on a regular basis by someone living outside the unit?** **0138 TUB**  
1350  Yes  
 No

---

**b. Does that (house/apartment) have a flush toilet which is NOT used on a regular basis by someone living outside the unit?** **0139 TOILET**  
1360  Yes  
 No



**VACANT INTERVIEWS - Continued**

<p><b>47a.</b> Is all the wiring in the finished areas of that (house/apartment) concealed either in walls or metal coverings? <i>(Exclude appliance cords, extension cords, chandelier cords, telephone or antenna wires.)</i></p>	<p align="right">0273 NOWIRE</p> <p>1390 1 <input type="checkbox"/> Yes, concealed 2 <input type="checkbox"/> No 3 <input type="checkbox"/> No electrical wiring - Skip to item 48a</p>
<p><b>b.</b> Does every room have an electric outlet or wall plug that works?</p>	<p align="right">0272 PLUGS</p> <p>1400 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>
<p><b>48a.</b> Does that (house/apartment) have hot and cold piped water? <i>(Not used on a regular basis by someone outside the unit.)</i></p>	<p align="right">0145 HOTPIR</p> <p>1470 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 48c</p>
<p><b>b.</b> What fuel is used MOST to heat the water?</p>	<p align="right">0844 WFUEL</p> <p>1480 1 <input type="checkbox"/> Electricity 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.</b> Does water for that (house/apartment) come from a public or private system, an individual well, or some other source? <i>(Source used for drinking and cooking.)</i></p>	<p align="right">0140 WATER</p> <p>1510 1 <input type="checkbox"/> Public or private water system - Skip to item 49a 2 <input type="checkbox"/> Individual well - Ask item 48d 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 49a</p>
<p><b>d.</b> How many (houses/apartments) does the well serve?</p>	<p align="right">0143 WELDS</p> <p>1520 1 <input type="checkbox"/> Only this house/apartment 2 <input type="checkbox"/> 2 to 5 3 <input type="checkbox"/> 6 or more</p>
<p><b>e.</b> Is the well drilled or dug?</p>	<p align="right">0142 WELL</p> <p>1530 1 <input type="checkbox"/> Drilled 2 <input type="checkbox"/> Dug</p>
<p><b>49a.</b> Is that (house/apartment) connected to a public sewer?</p>	<p align="right">0147 PUBSEW</p> <p>1540 1 <input type="checkbox"/> Yes - Skip to item 50a 2 <input type="checkbox"/> No</p>
<p><b>b.</b> What means of sewage disposal does that (house/apartment) have?</p>	<p align="right">0148 SEWDIS</p> <p>1550 1 <input type="checkbox"/> Septic tank or cesspool - Ask item 49c 2 <input type="checkbox"/> Chemical toilet 3 <input type="checkbox"/> Outhouse or privy 4 <input type="checkbox"/> Other - Specify _____ } Skip to item 50a 5 <input type="checkbox"/> None</p>
<p><b>c.</b> How many (houses/apartments) are connected to the (septic tank/cesspool)?</p>	<p align="right">0149 SEWJUS</p> <p>1560 1 <input type="checkbox"/> One 2 <input type="checkbox"/> 2 to 5 3 <input type="checkbox"/> 6 or more</p>
<p><b>50a.</b> Does that (house/apartment) have a refrigerator? <i>(Exclude ice boxes.)</i> <i>(Exclude refrigerators used on a regular basis by someone living outside the unit.)</i></p>	<p align="right">0121 REFR</p> <p>1590 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 51a</p>
<p><b>b.</b> Is it more than 5 years old? <i>(Age of newest if two or more.)</i></p>	<p align="right">0129 REFR5</p> <p>1600 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>
<p><b>51a.</b> Does that (house/apartment) have a garbage disposal in the sink?</p>	<p align="right">0122 DISPL</p> <p>1610 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to item 52a, page 11</p>
<p><b>b.</b> Is it more than 5 years old?</p>	<p align="right">0130 DISF5</p> <p>1620 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>

VACANT INTERVIEWS - Continued

<p><b>52a. Does that (house/apartment) have a cookstove or range with an oven?</b>  <i>(Include microwaves. Exclude toaster-ovens and portable burners.)</i>  <i>(Exclude stove or oven used on a regular basis by someone living outside the unit.)</i></p>	<p>1630 <input type="checkbox"/> Yes - Skip to item 52c  <input type="checkbox"/> No</p>	<p>0123 COOK</p>
<p><b>b. Does that (house/apartment) have -</b></p> <p>(1) an oven? <i>(Include microwaves. Exclude toaster ovens.)</i></p> <p>(2) cooking burners? <i>(Exclude portable burners.)</i></p>	<p>1640 <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p>1650 <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>	<p>0124 OVEN          0125 BURNER  <i>If both are "No," skip to item 53a</i></p>
<p><b>c. (Is it/Are they) more than 5 years old?</b>  <i>(Age of newest if two or more)</i></p>	<p>1660 <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>	<p>0131 COOKS</p>
<p><b>d. What fuel is used MOST for cooking?</b></p>	<p>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</p>	<p>0843 CFUEL</p>
<p><b>53a. Does that (house/apartment) have a dishwasher?</b></p>	<p>1690 <input type="checkbox"/> Yes  <input type="checkbox"/> No - Skip to item 54a</p>	<p>0126 DISH</p>
<p><b>b. Is it more than 5 years old?</b></p>	<p>1700 <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>	<p>0132 DISHS</p>
<p><b>54a. Does that (house/apartment) have a washing machine (---- /in the apartment)?</b></p>	<p>1710 <input type="checkbox"/> Yes  <input type="checkbox"/> No - Skip to item 55a</p>	<p>0127 WASH</p>
<p><b>b. Is it more than 5 years old?</b></p>	<p>1720 <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>	<p>0133 WASH5</p>
<p><b>55a. Does that (house/apartment) have a clothes dryer (---- /in the apartment)?</b></p>	<p>1730 <input type="checkbox"/> Yes  <input type="checkbox"/> No - Skip to item 56a</p>	<p>0128 DRY</p>
<p><b>b. Is it more than 5 years old?</b></p>	<p>1740 <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>	<p>0134 DRY5</p>
<p><b>c. What kind of fuel does the dryer use?</b></p>	<p>1750 <input type="checkbox"/> Electricity  <input type="checkbox"/> Gas  <input type="checkbox"/> Other - Specify _____</p>	<p>0847 DFUEL</p>
<p><b>56a. Does that (house/apartment) have central air conditioning?</b></p>	<p>1760 <input type="checkbox"/> Yes  <input type="checkbox"/> No - Skip to item 56c</p>	<p>0152 AIRSYS</p>
<p><b>b. What kind of fuel does it use?</b></p>	<p>1770 <input type="checkbox"/> Electricity  <input type="checkbox"/> Gas  <input type="checkbox"/> Other - Specify _____</p>	<p>0846 AFUEL          Skip to item 57a</p>
<p><b>c. Does that (house/apartment) have room air conditioners?</b></p>	<p>1780 <input type="checkbox"/> Yes  <input type="checkbox"/> No - Skip to item 57a</p>	<p>0151 AIR</p>
<p><b>d. How many?</b></p>	<p>1790 _____ Number</p>	<p>0153 NUMAIR</p>
<p><b>57a. What fuel is used MOST for heating that (house/apartment)?</b></p>	<p>1800 <input type="checkbox"/> Electricity - Skip to item 58, page 12  <input type="checkbox"/> Gas - Ask item 57b  <input type="checkbox"/> Fuel oil  <input type="checkbox"/> Kerosene or other liquid fuel  <input type="checkbox"/> Coal or coke  <input type="checkbox"/> Wood  <input type="checkbox"/> Solar energy  <input type="checkbox"/> Other - Specify _____  <input type="checkbox"/> None</p>	<p>0840 HFUEL          Skip to item 58, page 12</p>
<p><b>b. Is it from underground pipes or bottled gas?</b></p>	<p>1805 <input type="checkbox"/> Underground pipes serving the neighborhood  <input type="checkbox"/> Bottled gas</p>	

VACANT INTERVIEWS - Continued

<p><b>58. Does that (house/apartment) have a usable fireplace?</b></p>	<p>1830</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>0178 FPLWK</p>
<p><b>59. PLEASE LOOK AT THIS CARD.</b> What type of heating equipment is used MOST to heat that (house/apartment)?</p>	<p>1840</p>	<p>1 <input type="checkbox"/> A central warm-air furnace (with air vents or ducts to the individual rooms) 2 <input type="checkbox"/> Steam or hot-water system (radiators or other system using steam or hot water) 3 <input type="checkbox"/> Electric heat pump 4 <input type="checkbox"/> Other built-in electric units (permanently installed in wall, ceiling, or baseboards) 5 <input type="checkbox"/> Floor, wall, or other built-in, hot-air heater without ducts 6 <input type="checkbox"/> Room heaters - (Is it / Are they) - 6 <input type="checkbox"/> Kerosene, gas, or oil heaters VENTED to the outside through a chimney, flue, or pipes? 7 <input type="checkbox"/> UNVENTED gas, oil, or kerosene heaters? 8 <input type="checkbox"/> Portable electric heaters? 9 <input type="checkbox"/> Stove(s) 10 <input type="checkbox"/> Fireplace(s) WITH inserts (installed equipment designed to circulate more heat into the room) 11 <input type="checkbox"/> Fireplace(s) with NO inserts 12 <input type="checkbox"/> Other - Specify _____ 13 <input type="checkbox"/> None - Skip to item 61a</p>	<p>0162 HEQUIP</p>
<p><b>60a. What other kinds of heating equipment does that (house/apartment) have or use?</b> (Mark all that apply.)</p> <p><b>b. Anything else?</b> <input type="checkbox"/> Yes - Mark appropriate box(es), then go to item 61a <input type="checkbox"/> No</p>	<p>1850</p>	<p>1 <input type="checkbox"/> A central warm-air furnace (with air vents or ducts to the individual rooms) 2 <input type="checkbox"/> Steam or hot-water system (radiators or other system using steam or hot water) 3 <input type="checkbox"/> Electric heat pump 4 <input type="checkbox"/> Other built-in electric units (permanently installed in wall, ceiling, or baseboards) 5 <input type="checkbox"/> Floor, wall, or other built-in, hot-air heater without ducts 6 <input type="checkbox"/> Room heaters - (Is it / Are they) - 6 <input type="checkbox"/> Kerosene, gas, or oil heaters, VENTED to the outside through a chimney, flue, or pipes? 7 <input type="checkbox"/> UNVENTED gas, oil, or kerosene heaters? 8 <input type="checkbox"/> Portable electric heaters? 9 <input type="checkbox"/> Stove(s) 10 <input type="checkbox"/> Fireplace(s) WITH inserts (installed equipment designed to circulate more heat into the room) 11 <input type="checkbox"/> Fireplace(s) with NO inserts 12 <input type="checkbox"/> Other - Specify _____ 13 <input type="checkbox"/> None</p>	<p>0164 SAFUR SSTEAM 0166 0165 SHPMP SELECT 0167 0168 SPLF 0169 SFLIN 0173 SPORTH 0172 SSTOVE SFAPL 0171 0174 SHOTH 0175 SNONE</p>
<p><b>61a. Does that (house/apartment) have a porch, deck, balcony, or patio?</b> (Measuring at least four feet by four feet) (Exclude if already counted as a room.)</p>	<p>1830</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>0086 PORCH</p>
<p><b>b. Does that (house/apartment) have open cracks or holes in the inside walls or ceilings?</b> (Cracks thicker than a dime)</p>	<p>1840</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>0254 CRACKS</p>
<p><b>c. Does that (house/apartment) have holes in the floors?</b> (Big enough for someone to trip in)</p>	<p>1850</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>0255 HOLES</p>
<p><b>d. Does that (house/apartment) have any area of peeling paint or broken plaster bigger than 8 inches by 11 inches?</b> (The size of a weekly news magazine or standard letter)</p>	<p>1860</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>0257 BIGP</p>
<p>Notes</p>			

VACANT INTERVIEWS - Continued

**62a. How many months has that (house/apartment) been vacant?**

2450 \_\_\_\_\_ Months (if 1 to 24 months)

2450  00 Less than 1 month  
 25 Over 2 years  
 26 NEVER OCCUPIED  
 27 Don't know

---

**b. Is that (house/apartment) INTENDED for year-round use, for occupancy only on a seasonal basis, or for use by migrant workers?**

2460  Year round — SKIP TO ITEM 65 VACANCY  
 8 Seasonal — Summer only  
 9 Seasonal — Winter only  
 10 Other seasonal — Specify in notes  
 11 Migratory

Notes \_\_\_\_\_

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**c. How many months has it been since the (house/apartment) was occupied as a permanent home?**

2470 \_\_\_\_\_ Months (if 1 to 24 months)

2470  00 Less than 1 month  
 25 Over 2 years  
 26 NEVER OCCUPIED AS A PERMANENT HOME  
 27 Don't know

---

**63. Does the construction and heating of that (house/apartment) make it suitable for year-round use?**

2480  1 Yes  
 2 No

---

**64a. Is a garage or carport included with that (house/apartment)?**

2520  1 Yes — Skip to item 64c 0060 GARAGE  
 2 No

---

**b. Is an offstreet parking space included?**

2530  1 Yes 0062 INCLP  
 2 No

---

**c. Is the ownership of the (house/apartment) time-shared?**

3070  1 Yes } Skip to item 69, page 14  
 2 No }

---

**65. Is that (house/apartment) —**  
*(Read all answer categories.)*

2460  1 For rent only } 1546 VACANCY } Go to item 66a  
 2 For rent or for sale }  
 3 For sale only — Skip to item 69, page 14  
 4 Rented, but not yet occupied — Go to item 66a  
 5 Sold, but not yet occupied }  
 6 Held for occasional use throughout the year? } Skip to item 69, page 14  
 7 Other — Specify →

---

**66a. How often is the rent on that (house/apartment) due?**

2500 \_\_\_\_\_ Times per year 1066 FRENT  
 12 Monthly

---

**b. What is the asking rent?**  
*(If parking priced separately, exclude it here and mark "No" to items 67a-b.)*

2510 \$ \_\_\_\_\_ 00 1067 RENT  
 1 Rent depends on the income of the occupants, such as public housing or some military housing

Notes \_\_\_\_\_

**VACANT INTERVIEWS - Continued**

**66c.** Check Item (See item 40, page 8)

- One-unit mobile home or two-or-more-unit mobile home - Ask 66d  
 Not a mobile home - Skip to 67a

<b>d. Will the occupants pay separate rent for the land?</b>	2511	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to 66g	1191 INCS
<b>e. How many times a year is the (land/site) rent due?</b>	2512	_____ Times per year 12 <input type="checkbox"/> Monthly	1062 FARENT
<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	1193 LARENT
<b>g. (-/-/In addition to the rent), will the occupants pay any (-/-/additional) mobile home park fee?</b>	3550	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to 66j	1196 IFFEE
<b>h. How many times a year is the fee due?</b>	3555	_____ Times per year 12 <input type="checkbox"/> Monthly	1197 CAMF
<b>i. What is the cost each . . . (Billing period)?</b>	3600	\$ _____ 00 0 <input type="checkbox"/> Included in mobile home rent	1198 CONFEE
<b>j. Are there any (-/-/other) required fees for utility hookups, mobile home association fees, and so forth?</b>	~681+ 2517	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to 67a	1209 IFOTHF
<b>k. How many times a year are the fees due?</b>	2518	_____ Times per year 12 <input type="checkbox"/> Monthly	1210 FMHOTF
<b>l. What is the average cost each . . . (Billing period) for those fees?</b>	2519	\$ _____ 00	1211 MHOTFE

<b>67a. Is a garage or carport included in the rent?</b>	2520	1 <input type="checkbox"/> Yes - Skip to item 68a 2 <input type="checkbox"/> No	0060 GARAGE
<b>b. Is an offstreet parking space included?</b>	2530	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	0062 INCP

<b>68a. Is the building owned by the public housing authority?</b>	2540	1 <input type="checkbox"/> Yes - Skip to item 69 2 <input type="checkbox"/> No	0823 PROJ
<b>b. Does the Federal Government pay some of the cost of the unit?</b>	2550	1 <input type="checkbox"/> Yes - Skip to item 69 2 <input type="checkbox"/> No	0824 SUB
<b>c. Does the State or local government pay some of the cost of the unit?</b>	2560	1 <input type="checkbox"/> Yes - Skip to item 69 2 <input type="checkbox"/> No	0825 SUBLOC
<b>d. Is there rent control on the unit?</b>	2580	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	0831 RCNTRL

**69.** Check Item (See item 40, page 8)  
 One-unit mobile home or two-or-more-unit mobile home - Skip to item 72  
 Not a mobile home - Ask item 70

<b>70. About when was the building originally built?</b>	~681+ 2910	<input type="checkbox"/> 1980 or later →	Month Year 00 44	<b>BUILT</b>
	2910	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 74a, page 15	

**71. WASHINGTON USE ONLY**

<b>72. Excluding the dealer's lot, is this the first site on which that mobile home was placed?</b>	2900	1 <input type="checkbox"/> Yes, first site 2 <input type="checkbox"/> No, moved from another site 3 <input type="checkbox"/> Don't know	0031 FRASIT
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**VACANT INTERVIEWS - Continued**

**73. What is the model year of the mobile home?**

2910  1980 or later → Year **0044 BUILT**

2910 1  1979  
 2  75-78  
 3  70-74  
 4  60-69  
 5  50-59  
 6  40-49  
 7  1939 or earlier

**74. Check Item**

- a.** (See item 62b, page 13.)  
 Year round - Go to item 74b  
 Not year round - Skip to item 98a, page 19
- b.** (See item 65, page 13.)  
 Held for occasional use throughout the year - Skip to item 98a, page 19  
 Other vacant - Skip to item 98a, page 19  
 For rent, for sale, rented but not yet occupied, sold but not yet occupied - Go to item 74c
- c.** (See item 40, page 8.)  
 Two-or-more-unit building or two-or-more-unit mobile home - Skip to item 76  
 All others - Ask item 75a

**75a. How large is the (lot/site)?**

(Include all connecting land that is owned or rented with the home.)

2990 \_\_\_\_\_ Square feet **0007 LOT**  
 OR  
 2990 \_\_\_\_\_ feet by **0007 LOT**  
 If over one acre, drop any fractions, don't round up.  
 If under one acre, convert to approximate square feet. 3000 \_\_\_\_\_ feet **0007 LOT**  
 OR  
 3010 \_\_\_\_\_ Whole acres **0007 LOT**  
 OR  
 Don't know - Ask item 75b

One-eighth acre = 5500 sq. ft.  
 One 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.

MARK OR ASK - 3020 1  Yes **0007 LOT**  
 2  No

**76. Check Item** (See item 65, page 13.)

- For rent only; For rent or for sale; or rented but not yet occupied - Skip to item 95, page 17  
 All others - Ask item 77a

**77a. Is there a commercial establishment on the property?**

3030 1  Yes **0056 SHOPS**  
 2  No

**b. Is there a medical or dental office on the property?**

3040 1  Yes **0057 DOCS**  
 2  No

**78. Check Item** (See item 65, page 13.)

- For sale only - Ask item 79  
 Sold but not yet occupied - Skip to item 81

**79. Is the ownership of that (house/apartment) time-shared?**

3070 1  Yes - Skip to item 83a **0026 TIMSHR**  
 2  No

**80. What is the sales price asked for that property?**

(Include all connecting land that is for sale; if multiunit building, ask for estimate of share of value applicable to sample unit.)

3100 \$ \_\_\_\_\_ **00** **1068 VALUE** - Skip to item 83a

**81. Is the ownership of that (house/apartment) time-shared?**

3070 1  Yes - Skip to item 83a **0026 TIMSHR**  
 2  No

**82. What was the purchase price?**

3100 \$ \_\_\_\_\_ **00** **1068 VALUE**  
 Don't know

**83a. Is a garage or carport included with the (house/apartment)?**

**00681**  
 2520 1  Yes - Skip to item 84a, page 16 **0060 GARAGE**  
 2  No

**b. Is an offstreet parking space included?**

2530 1  Yes **0062 INCP**  
 2  No

**VACANT INTERVIEWS - Continued**

**84. Check item**

a. (See item 40, page 8.)

- One-unit mobile home or two-or-more-unit mobile home - Skip to item 87  
 Not a mobile home - Go to item 84b

b. (See item 42a, page 8.)

- Condominium or cooperative - Ask item 85  
 All others - Skip to item 89, page 17

**85. What were the real estate taxes last year for that (condominium/cooperative) unit?**

(Include school taxes, special assessments, and any other real estate taxes. Exclude taxes past due from other years.)

3520 \$ \_\_\_\_\_ 00

1162 AMTX

**86a. Is there a required (condominium/cooperative) association fee?**

- 3570 1  Yes  
 2  No - Skip to item 95, page 17

1196 IFFEE

b. How many times a year is the fee due?

3580 \_\_\_\_\_ Times per year  
 12  Monthly

1197 CAMF

c. What is the average cost each . . . (Billing period)?

3590 \$ \_\_\_\_\_ 00 - Skip to item 95, page 17

1198 CONFEE

**87. On that mobile home ( . . . /and its lot) last year, what was the total cost of -**

**Property and real estate taxes, registration fees, and license fees?**

3520 \$ \_\_\_\_\_ 00

1162 AMTX

(Include school taxes, special assessments, and any other real estate taxes.)

(Exclude taxes past due from other years.)

**88a. Is the mobile home to remain where it is or is it to be moved?**

~681~

- 2506 1  Remain  
 2  To be moved - Skip to item 93, page 17

b. Will the occupants own the land?

- 2507 1  Yes - Skip to item 88f  
 2  No

c. Will the occupants pay separate rent for the land?

- 2511 1  Yes  
 2  No - Skip to item 88f

1191 INCS

d. How many times a year is the (land/site) rent due?

2512 \_\_\_\_\_ Times per year  
 12  Monthly

1192 FLRENT

e. What is the cost each billing period?

2513 \$ \_\_\_\_\_ 00  
 0  No cash rent  
 9997  Included in mobile home park fee or association fee

1193 LRENT

f. ( . . . /In addition to the land rent)/is the owner/are you required to pay any ( . . . /additional) mobile home park fee?

- 3550 1  Yes  
 2  No - Skip to item 88i

1196 IFFEE

g. How many times a year is the fee due?

3555 \_\_\_\_\_ Times per year  
 12  Monthly

1197 CAMF

h. What is the average cost each . . . (Billing period)?

3600 \$ \_\_\_\_\_ 00

1198 CONFEE

i. Are there any ( . . . /other) required fees for utility hook-ups, mobile home association fees, and so forth?

~681~

- 2517 1  Yes  
 2  No - Skip to item 93, page 17

1209 IFOTHF

j. How many times a year are the fees due?

2518 \_\_\_\_\_ Times per year  
 12  Monthly

1210 FMHOTF

k. What is the average cost each . . . (Billing period) for those fees?

2519 \$ \_\_\_\_\_ 00 - Skip to item 93, page 17

1211 MHOTFE

**VACANT INTERVIEWS – Continued**

**89.** What were the real estate taxes last year for that (house/apartment) and its land?  
 (Include all connecting land. If multiunit building, estimate share for sample unit. Include school taxes, special assessments, and any other real estate taxes.)  
 (Exclude taxes past due from other years.)

3520 \$ \_\_\_\_\_ 00 – Skip to item 91a 1162 AMTX

**90. WASHINGTON USE ONLY**

**91a.** (Is the owner/Are you) required to pay a homeowner's association fee?  
 3570 1  Yes  
 2  No – Skip to item 92a 1196 IFFEE

**b.** How many times a year is the fee due?  
 3580 \_\_\_\_\_ Times per year 1197 CAMF  
 12  Monthly

**c.** What is the average cost each . . . (Billing period)?  
 3590 \$ \_\_\_\_\_ 00 – Skip to item 93 1198 CONFEE

**92a.** In some parts of the country, people own their homes but rent the land. (Does the owner of the unit/Do you) pay separate rent for the land?  
 3610 1  Yes 1191 INCS  
 2  No – Skip to item 93

**b.** How many times a year is the land rent due?  
 3630 \_\_\_\_\_ Times per year 1192 FLRENT  
 12  Monthly

**c.** What does it cost each time?  
 3640 \$ \_\_\_\_\_ 00 1193 LRENT

**93.** Check Item (See item 42a, page 8.)  
 Not a condominium – Ask item 94  
 Condominium – Skip to item 95

**94.** Would the owner of that (house/apartment) be billed for –

(1) Garbage and trash collection? 4320 1  Yes  
 2  No

(2) Water and sewage disposal? 4330 1  Yes } Skip to item 96a, page 18  
 2  No }

**95.** Would the occupant of that (house/apartment) pay separately for –

(1) Electricity? 4340 1  Yes  
 2  No, included in rent, condominium fee, etc.  
 3  Not used

(2) Gas? 4350 1  Yes  
 2  No, included in rent, condominium fee, etc.  
 3  Not used

(3) Fuel oil? 4360 1  Yes  
 2  No, included in rent, condominium fee, etc.  
 3  Not used

(4) Any other fuel? 4370 1  Yes  
 2  No, included in rent, condominium fee, etc.  
 3  Not used

(5) Garbage and trash collection? 4380 1  Yes  
 2  No, included in rent, condominium fee, etc.  
 3  Not used

(6) Water supply and sewage disposal? 4390 1  Yes  
 2  No, included in rent, condominium fee, etc.  
 3  Not used

NOTES



**VACANT INTERVIEWS – Continued**

**96. Check Item**

**a.** (See item 65, page 13.)

- For sale only, Sold but not yet occupied – Skip to item 98a, page 19
- For rent only, For rent or for sale, Rented but not yet occupied – Go to item 96b

**b.** (See item 40, page 8.)

- One-unit building or one-unit mobile home – Skip to item 97b
- Two-or-more-unit building or two-or-more-unit mobile home – Ask item 97a

**97a. Does either the owner or a resident manager live in the (building/complex)?**

(Exclude staff who do only maintenance.)

4400 1  Yes  
2  No

0042OWNHERE

**b. What is the owner's name and address?**

If don't know, ask –

Where is the rent sent?

~887~

Name (Please print)

\_\_\_\_\_

Address (Number, street)

\_\_\_\_\_

City

\_\_\_\_\_

State

\_\_\_\_\_

ZIP code

\_\_\_\_\_

Title

- 1  Owner
- 2  Other

Location

- 1  Home
- 2  Office

**c. What is the (owner's/office's) telephone number?**

Area code, number, extension

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_

- 1  Home
- 2  Business

Notes

**VACANT INTERVIEWS – Continued**

**98a.** Housing size is important for analysis of other information from this survey. How many square feet are there in that (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.)

~681~

0069 UNITSF

4600

\_\_\_\_\_ Square feet – Go to item 98f

o  Don't know – Ask item 98b

**b.** How many (stories/floors) are there in that (house/apartment)? (Include basements and finished attics/----.) (In apartments, floors refer only to the apartment itself.)

4610

\_\_\_\_\_ Number

0054 FLOORS

MARK OR ASK –

**c.** Is that (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.)

4640

o  Don't know – Skip to item 99

	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								

**e. SKETCH**  
(If enough information is available, draw sketch of sample unit below.)

**OFFICE USE ONLY**

4640

\_\_\_\_\_ 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

**99. INSTRUCTION – GO TO CONTROL CARD, ITEM 9a.**

**INTERVIEWER OBSERVATION**

<p><b>100a.</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"><i>0054 FLOORS</i></p> <p><b>4780</b> _____ Stories in building (if 1 to 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><b>4780</b> 1 <input type="checkbox"/> No public halls <i>0242 LTSOK</i>                  2 <input type="checkbox"/> All in working order                  3 <input type="checkbox"/> Some in working order                  4 <input type="checkbox"/> None in working order                  5 <input type="checkbox"/> No light fixtures                  6 <input type="checkbox"/> Fixtures turned off, unable to determine if working, not obviously broken</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"><i>0053 CLIMB</i></p> <p><b>4800</b> _____ 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 align="right"><i>0052 ELEV</i></p> <p><b>4810</b> 1 <input type="checkbox"/> No elevator                  2 <input type="checkbox"/> At least one working elevator                  3 <input type="checkbox"/> All elevators not working</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 align="right"><i>0243 BADSTEP</i></p> <p><b>4820</b> 1 <input type="checkbox"/> No common stairways — Skip to item 100g                  2 <input type="checkbox"/> Yes                  3 <input type="checkbox"/> No</p>
<p><b>f.</b> Are all railings on the common stairways firmly attached?</p>	<p align="right"><i>0244 RAILOK</i></p> <p><b>4830</b> 1 <input type="checkbox"/> No stair railings                  2 <input type="checkbox"/> Yes                  3 <input type="checkbox"/> No</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><b>4840</b> 1 <input type="checkbox"/> Sagging roof <i>0229 ESAGR</i>                  2 <input type="checkbox"/> Missing roofing material } <i>0230 EMISSR</i>                  3 <input type="checkbox"/> Hole in roof } <i>0231 EHOLDER</i>                  4 <input type="checkbox"/> Could not see roof } <i>0232 ENOR</i>                  5 <input type="checkbox"/> Missing bricks, siding, or other outside wall material } <i>0233 EMISSW</i>                  6 <input type="checkbox"/> Sloping outside walls } <i>0234 ESLOPW</i>                  7 <input type="checkbox"/> Boarded up window(s) } <i>0228 BOARD</i>                  8 <input type="checkbox"/> Broken window(s) } <i>0235 EBROKE</i>                  9 <input type="checkbox"/> Bars on window(s) } <i>0236 EBAR</i>                  10 <input type="checkbox"/> Foundation crumbling or has open crack or hole } <i>0237 ECRUMB</i>                  11 <input type="checkbox"/> Could not see foundation } <i>0238 ENOF</i>                  12 <input type="checkbox"/> Observed, but no listed conditions for roofs, walls, windows, or foundations <i>0239 EGOOD</i>  <b>OR</b>                  13 <input type="checkbox"/> Unable to observe <i>0240 ENOB</i></p>
<p><b>h.</b> How many mobile homes are in the group?  <i>(Including sample mobile home!)</i></p>	<p align="right"><i>0320 TPARK</i></p> <p><b>4880</b> _____ Exact number (if 1 to 20)</p> <p align="center"><b>OR</b></p> <p>21 <input type="checkbox"/> 21 or more                  0 <input type="checkbox"/> Sample unit not a mobile home</p>

Notes

**INTERVIEWER OBSERVATION - Continued**

This page concerns the area within 300 feet of the building in which sample unit is located:

- 101a.** Which of these are within 300 feet of building containing the sample unit?  
 (Exclude this building.)  
 (Mark all that apply.)
- 0282 ESFD
  - 0293 ELOW
  - 0294 EMTD
  - 0295 EHGH
  - 0296 EMOBIL
  - 0297 ECOM
  - 0298 EPRKG
  - 0300 EGREEN
  - 0301 ECL
  - 0303 ENOLL

- 1 Single family detached house(s)
- 2 Single family attached house(s) or low rise (1-3 story) multiunit building(s)
- 3 Mid rise (4-6 story) residential multiunit building(s)
- 4 High rise (7+ story) residential multiunit building(s)
- 5 Mobile home(s) (exclude campers)
- 6 Commercial, institutional, industrial building(s)
- 7 Residential parking lot(s)
- 8 Body of water
- 9 Open space, park, woods, farm, or ranch
- 10 Other - Specify ↴
- 11 Could not observe

- b.** What is the predominant age of residential buildings in area?  
 (Exclude this building.)
- 0304 EAGE

- 1 Older than sample unit
- 2 About the same
- 3 Newer than sample unit
- 4 Very mixed
- 5 No other residential buildings

- c.** Are any buildings vandalized, or interior exposed to the elements?  
 (Exclude this building.)
- 0305 EABAN

- 1 Yes, only one vandalized or exposed
- 2 Yes, more than one
- 3 None vandalized or exposed
- 4 No other buildings within 300 feet - Skip to item 101e

- d.** Are there bars on windows of buildings in area?  
 (Exclude this building.)
- 0306 EBARCL

- 1 Yes, only one building with bars
- 2 Yes, more than one
- 3 No bars on windows

- e.** What is the condition of streets?  
 0308 EROAD

- 1 Major repairs needed
- 2 Minor repairs needed
- 3 No repairs needed
- 4 No streets within 300 feet

- f.** Is there trash, litter, or junk in streets, roads, empty lots, or on any properties?  
 (Include this building.)
- 0309 EJUNK

- 1 Major accumulation
- 2 Minor accumulation
- 3 None

Notes

**MOBILITY SUPPLEMENT**

<p><b>175.</b> Check Item (See item 6, page 1 and Control Card items 14 and 18.) (Mark first box that applies.)</p> <p><input type="checkbox"/> URE interview — Skip to item 184a, page 46</p> <p><input type="checkbox"/> No household members 18+ — Skip to item 184a, page 46</p> <p><input type="checkbox"/> Any household members 18+ — Enter line numbers, then ask items 176–183 for each</p>	<p align="center">~034~      1467 XLIN1</p> <p>5510    <input type="checkbox"/> <input type="checkbox"/> Line number</p> <p><input type="checkbox"/> Callback required, household member 18+ not present — Mark item 16, page 1</p>
<p>NOTE: Husbands and wives may respond for each other. All other household members 18+ must be asked these questions individually.</p> <p><b>176.</b> In what State (was . . . /were you) born? (Enter 2-character State code from flashcard.)</p>	<p align="center">1471 STBRN1</p> <p>5520    <input type="checkbox"/> <input type="checkbox"/> State code</p> <p align="center">OR</p> <p>00 <input type="checkbox"/> Outside the United States</p>
<p><b>177a.</b> At age 16, did . . . live in this area or a different place? (Area is city, suburb, town or rural area where sample unit located.)</p> <p><b>b.</b> In what State was that place located? (Enter 2-character State code from flashcard.)</p> <p><b>c.</b> Which of these categories best describes (this area/that place) AT THAT TIME? (Read all answer categories.)</p>	<p>5530    1 <input type="checkbox"/> This area — Skip to item 177c</p> <p>          2 <input type="checkbox"/> Different place</p> <p align="center">1470 HERIG1 1483 ST 161</p> <p>5540    <input type="checkbox"/> <input type="checkbox"/> State code</p> <p align="center">OR</p> <p>00 <input type="checkbox"/> Outside the United States</p> <p>5550    1 <input type="checkbox"/> A large city      1487 PLC161</p> <p>          2 <input type="checkbox"/> A suburb near a large city</p> <p>          3 <input type="checkbox"/> A medium-sized city or its suburbs</p> <p>          4 <input type="checkbox"/> A small city</p> <p>          5 <input type="checkbox"/> A town or village</p> <p>          6 <input type="checkbox"/> Open country, but not a farm</p> <p>          7 <input type="checkbox"/> A farm</p> <p>          8 <input type="checkbox"/> Other — Specify _____</p>
<p><b>178.</b> Five years from now, would . . . PREFER to be living in this (house/apartment) or someplace else?</p>	<p>5560    1 <input type="checkbox"/> Same house/apartment      1492 HIN51</p> <p>          2 <input type="checkbox"/> Someplace else — Skip to item 180</p>
<p><b>179.</b> Five years from now, how LIKELY (is . . . /are you) still to be living in this unit—very likely, likely, not very likely, or no chance at all?</p>	<p>5570    1 <input type="checkbox"/> Very likely      1496 STAY51</p> <p>          2 <input type="checkbox"/> Likely</p> <p>          3 <input type="checkbox"/> Not very likely</p> <p>          4 <input type="checkbox"/> No chance at all</p> <p>          5 <input type="checkbox"/> Don't know</p> <p style="font-size: small;">Go to next household member 18+; if none, go to item 184a, page 46</p>
<p><b>180.</b> Five years from now, would . . . prefer to be living in another home in this area, or outside this area?</p>	<p>5580    1 <input type="checkbox"/> Another home in this area — Skip to item 183</p> <p>          2 <input type="checkbox"/> Outside the area</p> <p align="center">1500 WHRN51</p>
<p><b>181.</b> Which of these categories best describes the area in which . . . would prefer to live 5 years from now? (Read all answer categories.)</p>	<p>5590    1 <input type="checkbox"/> A large city      1505 PLCN51</p> <p>          2 <input type="checkbox"/> A suburb near a large city</p> <p>          3 <input type="checkbox"/> A medium-sized city or its suburbs</p> <p>          4 <input type="checkbox"/> A small city</p> <p>          5 <input type="checkbox"/> A town or village</p> <p>          6 <input type="checkbox"/> Open country, but not a farm</p> <p>          7 <input type="checkbox"/> A farm</p> <p>          8 <input type="checkbox"/> Other — Specify _____</p>
<p><b>182.</b> In what State would . . . prefer to be living 5 years from now? (Enter 2-character State code from flashcard.)</p>	<p>5600    <input type="checkbox"/> <input type="checkbox"/> State code</p> <p align="center">OR</p> <p>00 <input type="checkbox"/> Outside the United States</p>
<p><b>183.</b> Within the next 5 years, how LIKELY (is . . . /are you) to move to the place just indicated—very likely, likely, not very likely, or no chance at all?</p>	<p>5610    1 <input type="checkbox"/> Very likely      1510 IRLN51</p> <p>          2 <input type="checkbox"/> Likely</p> <p>          3 <input type="checkbox"/> Not very likely</p> <p>          4 <input type="checkbox"/> No chance at all</p> <p>          5 <input type="checkbox"/> Don't know</p> <p style="font-size: small;">Go to next household member 18+; if none, go to item 184a, page 46</p>
<p>Notes</p>	

**MOBILITY SUPPLEMENT - Continued**

~035~ 1468 XLINE2	~036~ 1469 XLINE3	~037~ 1470 XLINE4
5510: <input type="checkbox"/> Line number	5510: <input type="checkbox"/> Line number	5510: <input type="checkbox"/> Line number
<input type="checkbox"/> Callback required, household member 18+ not present - Mark item 16, page 1	<input type="checkbox"/> Callback required, household member 18+ not present - Mark item 16, page 1	<input type="checkbox"/> Callback required, household member 18+ not present - Mark item 16, page 1
5520: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States	5520: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States	5520: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States
5530: 1 <input type="checkbox"/> This area - Skip to item 177c 2 <input type="checkbox"/> Different place	5530: 1 <input type="checkbox"/> This area - Skip to item 177c 2 <input type="checkbox"/> Different place	5530: 1 <input type="checkbox"/> This area - Skip to item 177c 2 <input type="checkbox"/> Different place
1479 HER 162 1484 ST 162	1480 HER 163 1485 ST 163	1481 HER 164 1486 ST 164
5540: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States	5540: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States	5540: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States
5550: 1 <input type="checkbox"/> A large city 2 <input type="checkbox"/> A suburb near a large city 3 <input type="checkbox"/> A medium-sized city or its suburbs 4 <input type="checkbox"/> A small city 5 <input type="checkbox"/> A town or village 6 <input type="checkbox"/> Open country, but not a farm 7 <input type="checkbox"/> A farm 8 <input type="checkbox"/> Other - Specify	5550: 1 <input type="checkbox"/> A large city 2 <input type="checkbox"/> A suburb near a large city 3 <input type="checkbox"/> A medium-sized city or its suburbs 4 <input type="checkbox"/> A small city 5 <input type="checkbox"/> A town or village 6 <input type="checkbox"/> Open country, but not a farm 7 <input type="checkbox"/> A farm 8 <input type="checkbox"/> Other - Specify	5550: 1 <input type="checkbox"/> A large city 2 <input type="checkbox"/> A suburb near a large city 3 <input type="checkbox"/> A medium-sized city or its suburbs 4 <input type="checkbox"/> A small city 5 <input type="checkbox"/> A town or village 6 <input type="checkbox"/> Open country, but not a farm 7 <input type="checkbox"/> A farm 8 <input type="checkbox"/> Other - Specify
1488 PLC 162	1489 PLC 163	1490 PLC 164
5560: 1 <input type="checkbox"/> Same house/apartment 2 <input type="checkbox"/> Someplace else - Skip to item 180	5560: 1 <input type="checkbox"/> Same house/apartment 2 <input type="checkbox"/> Someplace else - Skip to item 180	5560: 1 <input type="checkbox"/> Same house/apartment 2 <input type="checkbox"/> Someplace else - Skip to item 180
1493 HIN 52	1494 HIN 53	1495 HIN 54
5570: 1 <input type="checkbox"/> Very likely 2 <input type="checkbox"/> Likely 3 <input type="checkbox"/> Not very likely 4 <input type="checkbox"/> No chance at all 5 <input type="checkbox"/> Don't know	5570: 1 <input type="checkbox"/> Very likely 2 <input type="checkbox"/> Likely 3 <input type="checkbox"/> Not very likely 4 <input type="checkbox"/> No chance at all 5 <input type="checkbox"/> Don't know	5570: 1 <input type="checkbox"/> Very likely 2 <input type="checkbox"/> Likely 3 <input type="checkbox"/> Not very likely 4 <input type="checkbox"/> No chance at all 5 <input type="checkbox"/> Don't know
1497 STAY 52 <i>Go to next household member 18+ if none, go to item 184a, page 46</i>	1498 STAY 53 <i>Go to next household member 18+ if none, go to item 184a, page 46</i>	1499 STAY 54 <i>Go to next household member 18+ if none, go to item 184a, page 46</i>
5580: 1 <input type="checkbox"/> Another home in this area - Skip to item 183 2 <input type="checkbox"/> Outside the area	5580: 1 <input type="checkbox"/> Another home in this area - Skip to item 183 2 <input type="checkbox"/> Outside the area	5580: 1 <input type="checkbox"/> Another home in this area - Skip to item 183 2 <input type="checkbox"/> Outside the area
1501 WHRN 52	1502 WHRN 53	1503 WHRN 54
5590: 1 <input type="checkbox"/> A large city 2 <input type="checkbox"/> A suburb near a large city 3 <input type="checkbox"/> A medium-sized city or its suburbs 4 <input type="checkbox"/> A small city 5 <input type="checkbox"/> A town or village 6 <input type="checkbox"/> Open country, but not a farm 7 <input type="checkbox"/> A farm 8 <input type="checkbox"/> Other - Specify	5590: 1 <input type="checkbox"/> A large city 2 <input type="checkbox"/> A suburb near a large city 3 <input type="checkbox"/> A medium-sized city or its suburbs 4 <input type="checkbox"/> A small city 5 <input type="checkbox"/> A town or village 6 <input type="checkbox"/> Open country, but not a farm 7 <input type="checkbox"/> A farm 8 <input type="checkbox"/> Other - Specify	5590: 1 <input type="checkbox"/> A large city 2 <input type="checkbox"/> A suburb near a large city 3 <input type="checkbox"/> A medium-sized city or its suburbs 4 <input type="checkbox"/> A small city 5 <input type="checkbox"/> A town or village 6 <input type="checkbox"/> Open country, but not a farm 7 <input type="checkbox"/> A farm 8 <input type="checkbox"/> Other - Specify
1506 PLCN 52	1507 PLCN 53	1508 PLCN 54
5600: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States	5600: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States	5600: <input type="checkbox"/> State code OR 00 <input type="checkbox"/> Outside the United States
5610: 1 <input type="checkbox"/> Very likely 2 <input type="checkbox"/> Likely 3 <input type="checkbox"/> Not very likely 4 <input type="checkbox"/> No chance at all 5 <input type="checkbox"/> Don't know	5610: 1 <input type="checkbox"/> Very likely 2 <input type="checkbox"/> Likely 3 <input type="checkbox"/> Not very likely 4 <input type="checkbox"/> No chance at all 5 <input type="checkbox"/> Don't know	5610: 1 <input type="checkbox"/> Very likely 2 <input type="checkbox"/> Likely 3 <input type="checkbox"/> Not very likely 4 <input type="checkbox"/> No chance at all 5 <input type="checkbox"/> Don't know
1511 LKLN 52 <i>Go to next household member 18+ if none, go to item 184a, page 46</i>	1512 LKLN 53 <i>Go to next household member 18+ if none, go to item 184a, page 46</i>	1513 LKLN 54 <i>Go to next household member 18+ if none, go to item 184a, page 46</i>
Notes		

**NEIGHBORHOOD QUALITY SUPPLEMENT**

**NOTE** — Ask all categories in item 184a before proceeding to item 184b.

**NOTE** — Ask item 184b only for those categories in item 184a which were answered "Yes."

**184a.** The following questions are concerned with specific aspects of your **PRESENT** neighborhood. Here is a list of conditions.

**184b.** Does the (Condition) bother you?

**184c.** Is it so objectionable that you would like to move from the neighborhood?

Which, if any, does it have?

(1) Street noise or heavy street traffic? .....

0326 STRN  
641 STRN  
5640 1  Yes  
2  No

0333 STRND  
3  Yes — Ask c →  
4  No

0344 STRNM  
5  Yes  
6  No

(2) Streets or roads continually in need of repair, or open ditches? .....

0328 ROAD  
5650 1  Yes  
2  No

0335 RCADD  
3  Yes — Ask c →  
4  No

0346 ROADM  
5  Yes  
6  No

(3) Neighborhood crime? .....

0327 CRIME  
5680 1  Yes  
2  No

0337 CRIMED  
3  Yes — Ask c →  
4  No

0348 CRIMEM  
5  Yes  
6  No

(4) Trash, litter, or junk in the (streets/roads), or on empty lots, or on properties in the neighborhood? .....

0329 JUNK  
5670 1  Yes  
2  No

0338 JUNKD  
3  Yes — Ask c →  
4  No

0349 JUNKM  
5  Yes  
6  No

(5) Houses or buildings in rundown condition? .....

0330 ABAN  
5680 1  Yes  
2  No

0339 ABAND  
3  Yes — Ask c →  
4  No

0350 ABANM  
5  Yes  
6  No

(6) Industries, businesses, stores, or other non-residential activities? .....

0331 NONRES  
5690 1  Yes  
2  No

0341 NONRESO  
3  Yes — Ask c →  
4  No

0352 NONRESM  
5  Yes  
6  No

(7) Odors, smoke, or gas? .....

0332 ODOR  
5700 1  Yes  
2  No

0342 ODORD  
3  Yes — Ask c →  
4  No

0353 ODORM  
5  Yes  
6  No

**NOTE** — If "Yes" was answered for one or more categories in item 184a, ask item 184b.

**NOTE** — Ask ALL categories in item 185a before proceeding to item 185b.

**NOTE** — Ask item 185b only for those categories in item 185a which were answered "No."

**185a.** The following questions are concerned with neighborhood services.

**185b.** Is the (Service) so unsatisfactory that you would like to move from the neighborhood?

Do you have —

(1) Satisfactory police protection? .....

0355 FUZZ  
5710 1  Yes  
2  No  
3  Don't know

0356 FUZZM  
4  Yes  
5  No

(2) Satisfactory hospitals or health clinics? .....

0370 HOSP  
5720 1  Yes  
2  No  
3  Don't know

0371 HOSPM  
4  Yes  
5  No

**NOTE** — If "No" was answered for one or more categories in item 185a, ask item 185b.

**NEIGHBORHOOD QUALITY SUPPLEMENT — Continued**

**186a.** Is there public transportation for this area? 0374 NEWTRN  
 5730 Yes  
 2 No — Skip to item 187a

---

**b.** Is it satisfactory? 0376 TRN  
 5740 Yes  
 2 No  
 3 Do not use

---

**c.** (Does anyone in the household /Do you) use public transportation at least once a week? 0375 USETRN  
 5750 Yes  
 2 No

**187a.** Do you have satisfactory neighborhood shopping, that is, grocery stores or drug stores? 0357 SHP  
 5760 Yes  
 2 No  
 3 Don't know } Skip to item 188

---

**b.** Are any of these stores within one mile of here? 0359 SHPCLS  
 5770 Yes  
 2 No

**188.** Check Item (See Control Card items 11, 14, and 18.) (Mark first box that applies.)  
 URE interview — Go to Control Card item 9a  
 No household member 16 years of age or less — Skip to item 190, page 48  
 Household member 4 to 16 years of age — Ask item 189a  
 Household members 3 years old or younger. — Skip to item 189b

**189a.** (Does the child/Do the children) attend a public school or a private school? 0360 SCHPUB  
 (Mark all that apply.)  
 5780 Public school (K-12)  
 2 Private school (K-12) 0361 SCHPRI  
 3 Other school (ungraded schools, special schools, preschools, early learning centers, etc.) 0362 SCHOTH  
 4 Does not attend school 0363 SCHNO

---

**b.** Is the public elementary school that children living at this address (attend/would attend) satisfactory? 0365 SCH  
 5790 Yes — Skip to item 189d  
 2 No  
 3 Don't know — Skip to item 189d  
 (If more than one public elementary school, ask about the closest one to the sample unit.)

---

**c.** Is it so unsatisfactory that you would like to move from the neighborhood? 0366 SCHM  
 6800 Yes  
 2 No

---

**d.** Is that public elementary school within one mile of here? 0367 SCHCLS  
 6810 Yes  
 2 No

Notes



**ENERGY SUPPLEMENT**

**190.** Check Item (See items 114 and 115b, page 26)

Sum of income entered in these items is \$30,000 or more — Skip to item 199, page 50

All others — Ask item 191

---

**191.** Now I have some additional questions about home energy costs. Between October 1984 and April 1985 was your home without heat for one or more days because your household was unable to pay the utility or fuel bill? ~ 041 ~ 1059 NHBILL

5910:  Yes  
 No

---

**192.** Is this household now paying the utility company, oil dealer or other home energy supplier on an installment plan — 1060 EVEN

**a.** To even out the heating and/or cooling costs? 5920  Yes  
 No

**b.** To pay off overdue energy bills? 5930  Yes  
 No

---

**193.** In the past 12 months did any household member receive — 0697 QAFDC

**a.** Aid to Families with Dependent Children? 5940  Yes  
 No

**b.** Supplemental Security Income? 5950  Yes  
 No

**c.** General assistance or other public assistance? 5960  Yes  
 No

**d.** Food stamps? 5970  Yes  
 No

---

**194.** The government has an energy assistance program which helps to pay home heating and cooling costs. This assistance can be received directly by the household or it can be paid directly to the electric or gas company or fuel dealer. Between October 1984 and September 1985 did your household receive government energy assistance either directly or through the fuel dealer for — 0832 HTASST

**a.** Help in paying home HEATING costs? 5980  Yes  
 No

**b.** Help in paying home COOLING costs? 5990  Yes — Skip to item 195 0833 CLASST  
 No

**c.** Check item (see item 194a)

"Yes" in item 194a — Skip to item 195

"No" in item 194a — Ask item 194d

**d.** Any government help in paying home energy costs? 6000  Yes  
 No 0836 HEASST

---

**195.** Between October 1984 and September 1985 because of loss of heat in your home, did your household receive government energy assistance in the form of blankets, space heaters, temporary shelter, heating equipment repairs or minor home repairs? 6010  Yes  
 No 0834 EEASST

---

**196a.** Check Item — (See Control Card items 14, 25, and 26)

Any household member moved in since October 1984 — Fill item 196b

No household member moved in since October 1984 — Skip to item 198

**b.** (See item 194a)

"Yes" in item 194a — Ask item 197

"No" in item 194a — Skip to item 198

---

**197.** Was the heating assistance received at this address, a previous address, or both? 6020  Current 0837 WRHTAS  
 Previous  
 Both

---

**198.** Between October 1984 and September 1985 did anyone in your household receive help from the Federal, state, or local government for obtaining or installing such things as insulation, storm windows, storm doors, weather stripping and caulking, furnace tuneups, or for repairing broken doors and windows? 6030  Yes } Go to item 199, page 50  
 No }

**SECOND HOME SUPPLEMENT**

**199. INTRODUCTION:** Now I have some questions about second homes.

**200. (Do/Does) . . . (Specify names with "X" in Control Card item 17) own or co-own (any residential property/any other residential property, not counting this home)?** 0033 SECOND

6040 1  Yes  
2  No - Go to Control Card item 9a

**201. How many (-/other) residential units (do/does) . . . (Specify names with "X" in Control Card item 17) own or co-own?** 2084 MADDUS

(In a multi-unit building, count each unit owned.)

6050 \_\_\_\_\_ Number

**202a. Where (is this unit/are these units) located?**  
(Enter multi-unit properties only once.)

For residential units listed ask -

Property	Location		202b. Who in this household owns or co-owns the residential unit(s) located in . . . (location information in item 202a)  (Enter line numbers)	202c. Was this unit ever . . . (Specify names for line numbers in item 202b) usual residence?  (4)	202d. How many units (do/does) . . . (Specify names for line numbers in item 202b) own or co-own in . . . (location information in item 202a)?  (5)
	(1) (If needed, enter location information to uniquely identify residential units)	(2) (Enter 2-character State code from flashcard)			
1	2091 SLIN 11	6080 2085 SSTAT1	6070	2103 SURE1	2109 SUNIT1
	2092 SLIN 21	State code		1 <input type="checkbox"/> Yes	6085
	2092ASLIN 31	OR	6080	2 <input type="checkbox"/> No	_____ Number
	2092BSLIN 41	00 <input type="checkbox"/> Outside the United States			
2	2093 SLIN 12	6100 2086 SSTAT2	6110	2104 SURE2	2110 SUNIT2
	2094 SLIN 22	State code		1 <input type="checkbox"/> Yes	6105
	2094ASLIN 32	OR	6120	2 <input type="checkbox"/> No	_____ Number
	2094BSLIN 42	00 <input type="checkbox"/> Outside the United States			
3	2095 SLIN 13	6140 2087 SSTAT3	6150	2105 SURE3	2111 SUNIT3
	2096 SLIN 23	State code		1 <input type="checkbox"/> Yes	6145
	2096ASLIN 33	OR	6160	2 <input type="checkbox"/> No	_____ Number
	2096BSLIN 43	00 <input type="checkbox"/> Outside the United States			
4	2097 SLIN 14	6180 2088 SSTAT4	6190	2106 SURE4	2112 SUNIT4
	2098 SLIN 24	State code		1 <input type="checkbox"/> Yes	6185
	2098ASLIN 34	OR	6200	2 <input type="checkbox"/> No	_____ Number
	2098BSLIN 44	00 <input type="checkbox"/> Outside the United States			
5	2099 SLIN 15	6220 2089 SSTAT5	6230	2107 SURE5	2113 SUNIT5
	2100 SLIN 25	State code		1 <input type="checkbox"/> Yes	6225
	2100ASLIN 35	OR	6240	2 <input type="checkbox"/> No	_____ Number
	2100BSLIN 45	00 <input type="checkbox"/> Outside the United States			
6	2101 SLIN 16	6260 2090 SSTAT6	6270	2108 SURE6	2114 SUNIT6
	2102 SLIN 26	State code		1 <input type="checkbox"/> Yes	6265
	2102ASLIN 36	OR	6280	2 <input type="checkbox"/> No	_____ Number
	2102BSLIN 46	00 <input type="checkbox"/> Outside the United States			

Notes

**SECOND HOME SUPPLEMENT - Continued**

**203a. INTERVIEWERS INSTRUCTIONS** - Transcribe property number from item 202a for up to three properties in the following priority: Any previous usual residence; then one per person; then any others. TREAT OWNERSHIP OF A MULTIUNIT BUILDING AS ONE. Then ask items 204 - 212 for each property.

~ 6 42 ~ Column A	~ 6 43 ~ Column B	~ 6 44 ~ Column C
<b>203b. Property number</b> 6300 <input type="checkbox"/> 2115 SNUM1	<b>203b. Property number</b> 6300 <input type="checkbox"/> 2116 SNUM2	<b>203b. Property number</b> 6300 <input type="checkbox"/> 2117 SNUM3
<b>204a. Now I have a few questions to ask about the property in ...</b> (location information in item 202a)	<b>204a. Now I have a few questions to ask about the property in ...</b> (location information in item 202a)	<b>204a. Now I have a few questions to ask about the property in ...</b> (location information in item 202a)
<b>b. Is that property in a rural area or is it in an urban area?</b> 6310 1 <input type="checkbox"/> Rural 2118 SURB1 2 <input type="checkbox"/> Urban	<b>b. Is that property in a rural area or is it in an urban area?</b> 6310 1 <input type="checkbox"/> Rural 2119 SURB2 2 <input type="checkbox"/> Urban	<b>b. Is that property in a rural area or is it in an urban area?</b> 6310 1 <input type="checkbox"/> Rural 2120 SURB3 2 <input type="checkbox"/> Urban
<b>c. Is that property in what YOU would call a recreational or resort area?</b> 6320 1 <input type="checkbox"/> Yes 2121 SRSRT1 2 <input type="checkbox"/> No	<b>c. Is that property in what YOU would call a recreational or resort area?</b> 6320 1 <input type="checkbox"/> Yes 2122 SRSRT2 2 <input type="checkbox"/> No	<b>c. Is that property in what YOU would call a recreational or resort area?</b> 6320 1 <input type="checkbox"/> Yes 2123 SRSRT3 2 <input type="checkbox"/> No
<b>205. Is it -</b> (Read all answer categories) 6330 1 <input type="checkbox"/> A single family house 2124 STYPE1 2 <input type="checkbox"/> A multi-unit building 3 <input type="checkbox"/> An apartment in a multi-unit building 4 <input type="checkbox"/> A mobile home 5 <input type="checkbox"/> Or some other type of residence?	<b>205. Is it -</b> (Read all answer categories) 6330 1 <input type="checkbox"/> A single family house 2125 STYPE2 2 <input type="checkbox"/> A multi-unit building 3 <input type="checkbox"/> An apartment in a multi-unit building 4 <input type="checkbox"/> A mobile home 5 <input type="checkbox"/> Or some other type of residence?	<b>205. Is it -</b> (Read all answer categories) 6330 1 <input type="checkbox"/> A single family house 2126 STYPE3 2 <input type="checkbox"/> A multi-unit building 3 <input type="checkbox"/> An apartment in a multi-unit building 4 <input type="checkbox"/> A mobile home 5 <input type="checkbox"/> Or some other type of residence?
<b>206. Do the construction and heating of the (house/apartment/mobile home/building) make it SUITABLE FOR year-round use?</b> 6340 1 <input type="checkbox"/> Yes 2127 SYRND1 2 <input type="checkbox"/> No	<b>206. Do the construction and heating of the (house/apartment/mobile home/building) make it SUITABLE FOR year-round use?</b> 6340 1 <input type="checkbox"/> Yes 2128 SYRND2 2 <input type="checkbox"/> No	<b>206. Do the construction and heating of the (house/apartment/mobile home/building) make it SUITABLE FOR year-round use?</b> 6340 1 <input type="checkbox"/> Yes 2129 SYRND3 2 <input type="checkbox"/> No
<b>207. MARK OR ASK -</b> Is it within 150 miles of here? 6350 1 <input type="checkbox"/> Yes 2130 S150M1 2 <input type="checkbox"/> No	<b>207. MARK OR ASK -</b> Is it within 150 miles of here? 6350 1 <input type="checkbox"/> Yes 2131 S150M2 2 <input type="checkbox"/> No	<b>207. MARK OR ASK -</b> Is it within 150 miles of here? 6350 1 <input type="checkbox"/> Yes 2132 S150M3 2 <input type="checkbox"/> No
<b>208a. Is the ownership of the (house/apartment/mobile home/building) shared with anyone living outside this household?</b> 6360 1 <input type="checkbox"/> Yes 2133 SSHRD1 2 <input type="checkbox"/> No - Skip to item 209	<b>208a. Is the ownership of the (house/apartment/mobile home/building) shared with anyone living outside this household?</b> 6360 1 <input type="checkbox"/> Yes 2134 SSHRD2 2 <input type="checkbox"/> No - Skip to item 209	<b>208a. Is the ownership of the (house/apartment/mobile home/building) shared with anyone living outside this household?</b> 6360 1 <input type="checkbox"/> Yes 2135 SSHRD3 2 <input type="checkbox"/> No - Skip to item 209
<b>b. What is (your/...) share?</b> 6370 _____ Percent 2136 SPCT1  OR 6380 _____ Weeks 2139 SWKS1	<b>b. What is (your/...) share?</b> 6370 _____ Percent 2137 SPCT2  OR 6380 _____ Weeks 2140 SWKS2	<b>b. What is (your/...) share?</b> 6370 _____ Percent 2138 SPCT3  OR 6380 _____ Weeks 2141 SWKS3
<b>209. How much do you think (it/your share of it/... share of it) would sell for on today's market?</b> 6390 \$ _____ .00 2142 SVAL1 Go to item 210	<b>209. How much do you think (it/your share of it/... share of it) would sell for on today's market?</b> 6390 \$ _____ .00 2143 SVAL2 Go to item 210	<b>209. How much do you think (it/your share of it/... share of it) would sell for on today's market?</b> 6390 \$ _____ .00 2144 SVAL3 Go to item 210



**INTERVIEWER OBSERVATION**

**213a.** How many stories are in the building, including the basement?  
(If split level, count greatest number of stories on top of each other.)

**4780** ~ 6 09 0054 FLOORS  
 Stories in building (If 1 - 20)  
 OR  
 21  21 or more

**b.** What is the condition of the light fixtures in the public halls?

**4790** 0242 LTSOK  
 1  No public halls  
 2  All in working order  
 3  Some in working order  
 4  None in working order  
 5  No light fixtures  
 6  Fixtures turned off, unable to determine if working, not obviously broken

**c.** How many stories are there from main entrance of building to main entrance of sample unit?

**4800** 0053 CLIMB  
 Stories up or down to home  
 0  Same floor

**d.** Is there a passenger elevator on this floor?

**4810** 0052 ELEV  
 1  No elevator  
 2  At least one working elevator  
 3  All elevators not working

**e.** Are there loose, broken, or missing steps on any common stairways inside this building or attached to this building?

**4820** 0243 BADSTEP  
 1  No common stairways - Skip to item 213g  
 2  Yes  
 3  No

**f.** Are all railings on the common stairways firmly attached?

**4830** 0244 RAILOK  
 1  No stair railings  
 2  Yes  
 3  No

**g.** What is the external condition of the building that contains the sample unit, as visible from front of building or roadway?  
  
(Mark all that apply.)

**4840** 0226 ESAGR  
 1  Sagging roof  
 2  Missing roofing material  
 3  Hole in roof  
 4  Could not see roof  
 5  Missing bricks, siding, or other outside wall material  
 6  Sloping outside walls  
 7  Boarded up window(s)  
 8  Broken window(s)  
 9  Bars on window(s)  
 10  Foundation crumbling or has open crack or hole  
 11  Could not see foundation  
 12  Observed, but no listed conditions for roofs, walls, windows, or foundations  
 OR  
 13  Unable to observe

Roof 0230 EMISSR  
 0231 EHOLER  
 0232 ENOR  
 0233 EMISSW  
 Walls 0234 ESLOPW  
 0228 BOARD  
 Windows EBROKE 0235  
 0236 EBAR  
 0237 ECRUMB  
 Foundation  
 0238 ENOF  
 EGOOD 0239  
 0240 ENOB

**h.** How many mobile homes are in the group?

(Including sample mobile home)

**4880** \_\_\_\_\_ Exact number (If 1 - 20)  
 OR  
 21  21 or more 0320 TPARK  
 0  Sample unit not a mobile home

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. Which of these are within 300 feet of building containing the sample unit?</b>                  (Exclude this building.)                  (Mark all that apply.)</p> <p>0292 ESFD                  0293 ELOW                  0294 EMID                  0295 EHIGH                  0296 EMOBIL                  0297 ECOM                  0298 EPRKG                  0299 EWATER                  0300 EGREEN                  0301 ECL                  0303 ENOCL</p>	<p>4890 1 <input type="checkbox"/> Single-family, detached house(s)                  2 <input type="checkbox"/> Single-family, attached house(s) or low-rise (1-3 story) residential multiunit building(s)                  3 <input type="checkbox"/> Mid-rise (4-6 story) residential multiunit building(s)                  4 <input type="checkbox"/> High-rise (7+ story) residential multiunit building(s)                  5 <input type="checkbox"/> Mobile home(s) (exclude campers)                  6 <input type="checkbox"/> Commercial, institutional, industrial building(s)                  7 <input type="checkbox"/> Residential parking lot(s)                  8 <input type="checkbox"/> Body of water                  9 <input type="checkbox"/> Open space, park, woods, farm, or ranch                  10 <input type="checkbox"/> Other - Specify <u>      </u>                  11 <input type="checkbox"/> Could not observe</p>
<p><b>b. What is the predominant age of residential buildings within 300 feet?</b>                  (Exclude this building.)</p> <p>0304 EAGE</p>	<p>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</p>
<p><b>c. Are any buildings vandalized, or interior exposed to the elements?</b>                  (Exclude this building.)</p> <p>0305 EABAN</p>	<p>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</p>
<p><b>d. Are there bars on windows of buildings in area?</b>                  (Exclude this building.)</p> <p>0306 EBARCL</p>	<p>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</p>
<p><b>e. What is the condition of streets?</b></p> <p>0308 EROAD</p>	<p>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</p>
<p><b>f. Is there trash, litter, or junk in streets, roads, empty lots, or on any properties?</b>                  (Include this building.)</p> <p>0309 EJUNK</p>	<p>4960 1 <input type="checkbox"/> Major accumulation                  2 <input type="checkbox"/> Minor accumulation                  3 <input type="checkbox"/> None</p>

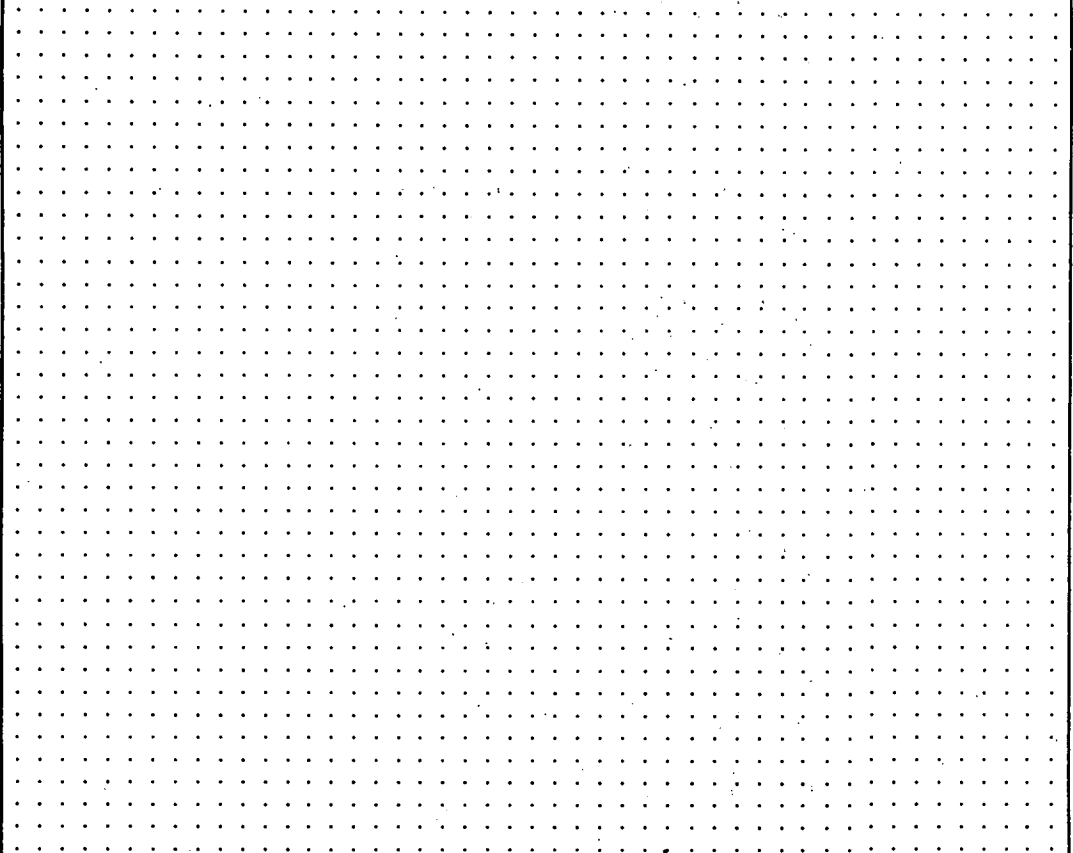
**INTERVIEW COMPLETED**

**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   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.**

RECORD LAYOUT FOR FILES FROM 1984 ON, Prepared May 30, 1990

These pages show the starting column for each item, the variable name, the width if it is more than one column wide, and the 'source code' (printed on the questionnaire in a small box next to each question, a 'C' means the item comes from the control card). The source code is omitted for items that are computer-generated. A decimal place is added for sub-questions within a source code, for example different kinds of water leaks or neighborhood problems. 'Blank' means an unused field; these are usually all 9s. Columns that are different in different surveys are noted.

NATIONAL FILES:	95 NUMTLT 1380	170 SNONE 1850.13	251 FRENT 2 2500
1 CONTROL 12	96 NOWIRE 1390	171 FREEZE 1880	253 MHSTAY 2506
13 blank	97 PLUGS 1400	172 IFCOLD 1890	254 blank
14 REGION	98 IFBLOW 1410	173 NUMCOLD 1900	255 RENT 4 2510-
15 METRO	99 NUMBLOW 1420	174 DTHCLD 1910	in cols256-8 on845+85N
16 DEGREE	100 LEAK 1430	175 WHYCLD 1920	259 IFOTHF 2517
17 blank	101 SAMEHH 0020-	176 PORCH 1930	260 FMHOTF 2 2518
18 CMSA 2	blank on84-85	177 CRACKS 1940	262 MHOTFE 3 2519
20 SMSA 4	102 RLEAK 1440.1	178 HOLES 1950	265 GARAGE 2520
24 YEAR 2	103 BLEAK 1440.2	179 BIGP 1960	266 INCP 2530
26 blank 9	104 WLEAK 1440.3	180 RATS 1970	267 PROJ 2540
35 RURREC	105 OTLEAK 1440.4	181 HOWH 2 1980	268 SUB 2550
36 blank	106 ILEAK 1450	183 HOWN 2 1990	269 SUBLOC 2560
37 NEIGH 4	107 PLEAK 1460.1	185 NPROBS 2000	270 SUBINC 2570
41 PWT 7	108 PILEAK 1460.2	186 NOPROB 2010.1	271 RCNTRL 2580
48 WEIGHT 7	109 NLEAK 1460.3	187 NUCRIM 2010.2	272 RNTADJ 2590
55 blank	110 HOTPIP 1470	188 NOISE 2010.3	273 NEWROF 2650
56 CROPSL C5B	111 WFUEL 2 1480	189 NUTRAF 2010.4	274 HHROF 2655
	113 IFDRY 1490	190 LITTER 2010.5	275 CSTROF 4 2660
	114 NUMDRY 1500	191 BADSRV 2010.6	279 NEWADD 2670
	115 WATER 1510	192 BADPRP 2010.7	280 CSTADD 4 2680
	116 WELDUS 1520	193 BADPER 2010.8	284 NEWKIT 2690
	117 WELL 1530	194 OTHNHD 2010.9	285 CSTKIT 4 2700
METROPOLITAN FILES:	118 PUBSEW 1540	195 WMPRIV 2030.1/2130	289 NEWBTH 2710
1 CONTROL 12	119 SEWDIS 1550	196 WMGOVT 2030.2/2170	290 CSTBTH 4 2720
13 LONGIT 3	120 SEWDUS 1560	197 WMDISL 2030.3	294 NEWSID 2730
16 SMSA 4	121 IFSEW 1570	198 WMJOBS 2030.4	295 CSTSID 4 2740
20 PMSA 4	122 NUMSEW 1580	199 WMCLOS 2030.5	299 NEWSDW 2750
24 YEAR 2	123 REFR 1590	200 WMFEMP 2030.6	300 CSTSDW 4 2760
26 IMONTH 2	124 REFR5 1600	201 WMONHH 2030.7	304 NEWMEQ 2770
28 STATE 2	125 DISPL 1610	202 WMLARG 2030.8	305 CSTMEQ 4 2780
30 COUNTY 3	126 DISP5 1620	203 WMMARR 2030.9	309 NEWIN 2790
33 ZONE 3	127 COOK 1630	204 WMFAML 2030.10	310 NEWICST 4 2800
36 METRO	128 OVEN 1640	205 WMQUAL 2030.11	314 OTHFIX 2810
37 TRACT 4	129 BURNER 1650	206 WMCHTN 2030.12	315 CSTFIX 4 2820
41 PWT 7	130 COOK5 1660	207 WMCHEP 2030.13	319 SUBFIX 2830
48 WEIGHT 7	131 CFUEL 1670	208 WMHOUS 2030.14	320 CSTMNT 4 2840
55 RACE70	132 DISH 1690	209 WMOTHR 2030.15	324 FR5IT 2900
56 blank	133 DISH5 1700	210 WHYMOVE 2 2070	325 BUILT 2 2910-Y
	134 WASH 1710	212 WMOWNR 2080/2140	327 FRSTOC 2920
	135 WASH5 1720	213 WMCNDO 2090/2150	328 BUYR 2 2930
	136 DRY 1730	214 WMREPR 2100/2160	330 WHNRCV 2 2940
	137 DRY5 1740	215 WMGOVP 2110/2180	332 LPRICE 6 2950
	138 DFUEL 1750	216 WMNFIT 2120/2190	338 DWNPAY 2 2960
ALL FILES:	139 AIRSYS 1760	217 LOOKNS 2200	340 FRSTHO 2970
57 DATE 4 0010	140 AFUEL 1770	218 WNJOB 2210.1	341 LOTSF 6 2980
61 PERSINT 0015	141 AIR 1780	219 WNPEPL 2210.2	347 PRENT 4 2595-
62 SAMEDU 0030	142 NUMAIR 1790	220 WNFUN 2210.3	blank on84-8,895
63 ISTATUS 0040	143 HFUEL 2 1800	221 WNTRAN 2210.4	351 MARKET -
64 NOINT 2 0050	145 GASPI2 1805	222 WNSCH 2210.5	blank on84-90
66 STATUA 0060	146 SJUICE 1810.1	223 WNSRV 2210.6	352 SHOPS 3030
67 EXPOSE 0080	147 SGAS 1810.2	224 WNLOOK 2210.7	353 DOCS 3040
68 BBLDG 0090	148 SOIL 1810.3	225 WNHOME 2210.8	354 TIMSHR 3070
69 BOARDU 0100	149 SKERO 1810.4	226 WNOTHR 2210.9	355 PVALUE 6 3080
70 DFIRE 0110	150 SCOAL 1810.5	227 WHYTON 2 2230	361 VALJE 6 3100
71 DISAS 0115	151 SWOOD 1810.6	229 LOOKHS 2240	367 OWNLOT 3140/2507
72 NUNITS 3 1140/60/80/1200	152 SSUN 1810.7	230 WHFIN 2250.1	368 blank
75 NUNIT2 1210	153 SOTHER 1810.8	231 WHDSN 2250.2	369 LVALUE 5 3150
76 CELLAR 1220	154 SNO 1810.9	232 WHKIT 2250.3	374 NROWN 3180
77 CONDO 1230	155 FPLWK 1830	233 WHSIZ 2250.4	375 NRPAYM 3190
78 BEDRMS 2 1240	156 HEQUIP 2 1840	234 WHEXT 2250.5	376 MORT 3200
80 BATHS 2 1250	158 SAFUR 1850.1	235 WHYRD 2250.6	377 SUBMOR 3210
82 HALFB 2 1260	159 SSTEAM 1850.2	236 WHOUL 2250.7	378 NUMMOR 3220
84 KITCH 1270	160 SHPMP 1850.3	237 WHONE 2250.8	379 AMMRT3 6 3490
85 LIVING 1280	161 SELECT 1850.4	238 WHOTH 2250.9	385 PMT3 4 3500
86 DINING 1290	162 SPLF 1850.5	239 WHYTOH 2 2270	389 blank 2
87 OTHRMS 1300	163 SFLIN 1850.6	241 XNRATE 2280	391 AMTX 2 3520
88 DENS 1310	164 SFLOT 1850.7	242 XHRATE 2290	393 REBATE 3524
89 OFFICE 1320	165 SPORTH 1850.8	243 ALMV79 2300	394 REBAMT 4 3526
90 NOTHRM 1330	166 SSTOVE 1850.9	244 MOVAC 2 2450	398 POOR 4 -
91 SINK 1340	167 SFRPLI 1850.10	246 VACANCY 2 2460	blank on84-8,895
92 TUB 1350	168 SFRPL 1850.11	248 MOPERM 2 2470	402 IFFEE1 3550/3570
93 TOILET 1360	169 SHOTH 1850.12	250 YRRND 2480	403 CAMF1 2 3555/3580
94 IFTLT 1370			



RECORD LAYOUT (Continued)

405 CONFEE 4 3590/3600-	507 A1350	593 EGREEN 4890.9	711 HERE4 4670
in cols407-8 on84-5	508 A1360	594 ETRANS 4890.10-	712 FAM4
409 INCS 3610/2511	509 A1370	ECL on84-5	713 MVG4
410 LANPMT 3620	510 A1380	595 ECL 4890.11-	714 SUBF4
411 FLRENT 2 3630	511 A1390	ENOCL on84-5	715 PLINE5 2 C10
413 blank	512 A1400	596 ENOCL 4890.12-	717 REL5 2 C13
414 LRENT 3 3640	513 A1410	EAGE 4920 on84-5	719 PAR5 2 C16
417 BUYI 3650	514 A1420	597 EABAN 4930	721 TEN5 C17
418 AMTI 4 3660-	515 A1430	598 EBARCL 4940	722 AGE5 2 C18B
in cols419-21 on84S+85N	516 A1440	599 EROAD 4950	724 SEX5 C19
422 AMTE 3 3670	517 A1450	600 EJUNK 4960	725 RACE5 C20
425 BUYE 3680	518 A1460	601 HISTRY 2 C6	726 SPAN5 C21
426 AMTG 3 3690	519 A1470	603 ACCESS C7B	727 MAR5 C22
429 BUYG 3700	520 A1480	604 TYPE 2 C7C	728 SPOS5 2 C23
430 BILLGE 3710.1	521 A1490	606 STATUS C8A	730 GRAD5 2 C24
431 BILLGF 3710.2	522 A1500	607 TENURE C8B	732 MOVE5 3 C25
432 BILLGO 3710.3	523 A1510	608 DLINE1 2 C9D	735 MOVMS 2 C26
433 BILLGT 3710.4	524 A1520	610 PHONE C9G	737 HERE5 4670
434 BILLGW 3710.5	525 A1530	611 PLINE 2 C10	738 FAM5
435 GASPIP 3720	526 A1540	613 REL 2 C13	739 MVG5
436 blank	527 A1550	615 PAR 2 C16	740 SUBF5
437 AMTO 4 3730	528 A1560	617 TEN C17	741 PLINE6 2 C10
441 BUYO 3740	529 QBUS 4140	618 AGE 2 C18B	743 REL6 2 C13
442 BILLOE 3750.1	530 MHEX 4885-	620 SEX C19	745 PAR6 2 C16
443 BILLOF 3750.2	blank on85-8,89S,QFARM 4150 on84	621 RACE C20	747 TEN6 C17
444 BILLOG 3750.3	531 QSS 4160	622 SPAN C21	748 AGE6 2 C18B
445 BILLOT 3750.4	532 QINT 4170	623 MAR C22	750 SEX6 C19
446 BILLOW 3750.5	533 QRENT 4180	624 SPOS 2 C23	751 RACE6 C20
447 AMTF 4 3760	534 QWELF 4190	626 GRADE1 2 C24	752 SPAN6 C21
451 BUYF 3770	535 EAGE 4920-	628 MOVED 3 C25	753 MAR6 C22
452 BILLFE 3780.1	QUNEMP 4200 on84,blank on85-6	631 MOVMI 2 C26	754 SPOS6 2 C23
453 BILLFG 3780.2	536 QALIM 4210	633 HERE1 4670	756 GRAD6 2 C24
454 BILLFO 3780.3	537 QOTHER 4220	634 FAM1	758 MOVE6 3 C25
455 BILLFT 3780.4	538 SLEVEL 4620-	635 MVG1	761 MOVMI 2 C26
456 BILLFW 3780.5	blank on84S+85N	636 SUBF	763 HERE6 4670
457 AMTT 3 3790	539 VOTHER 6 4230	637 PLINE2 2 C10	764 FAM6
460 BUYT 3800	545 MEASU1 4650-	639 REL2 2 C13	765 MVG6
461 BILLTE 3810.1	blank on88S+,87N+	641 PAR2 2 C16	766 SUBF6
462 BILLTF 3810.2	546 QFS1 4260	643 TEN2 C17	767 PLINE7 2 C10
463 BILLTG 3810.3	547 QSAVNG 4270	644 AGE2 2 C18B	769 REL7 2 C13
464 BILLTO 3810.4	548 QBINV 4280	646 SEX2 C19	771 PAR7 2 C16
465 BILLTW 3810.5	549 QOINV 4290	647 RACE2 C20	773 TEN7 C17
466 blank	550 INV2OK 4300	648 SPAN2 C21	774 AGE7 2 C18B
467 AMTW 3 3820	551 BUYT2 4320/4380	649 MAR2 C22	776 SEX7 C19
470 BUYW 3830	552 BUYW2 4330/4390	650 SPOS2 2 C23	777 RACE7 C20
471 BILLWE 3840.1	553 BUYE2 4340	652 GRAD2 2 C24	778 SPAN7 C21
472 BILLWF 3840.2	554 BUYG2 4350	654 MOVE2 3 C25	779 MAR7 C22
473 BILLWG 3840.3	555 BUYO2 4360	657 MOVMI 2 C26	780 SPOS7 2 C23
474 BILLWO 3840.4	556 BUYF2 4370	659 HERE2 4670	782 GRAD7 2 C24
475 BILLWT 3840.5	557 OWNHERE 4400	660 FAM2	784 MOVE7 3 C25
476 CARS 3850	558 UNITSF 4 4600/40/4970	661 MVG2	787 MOVMI 2 C26
477 TRUCKS 3860	562 MEASUR	662 SUBF2	789 HERE7 4670
478 blank 3	563 FLOORS 2 4780	663 PLINE3 2 C10	790 FAM7
481 A10M	565 LTSOK 4790	665 REL3 2 C13	791 MVG7
482 A10Y	566 CLIMB 2 4800	667 PAR3 2 C16	792 SUBF7
483 A0015	568 ELEV 4810	669 TEN3 C17	793 PLINE8 2 C10
484 A0030	569 BADSTEP 4820	670 AGE3 2 C18B	795 REL8 2 C13
485 A0040	570 RAILOK 4830	672 SEX3 C19	797 PAR8 2 C16
486 A0050	571 ESAGR 4840.1	673 RACE3 C20	799 TEN8 C17
487 A0060	572 EMISSR 4840.2	674 SPAN3 C21	800 AGE8 2 C18B
488 A0080	573 EHOLER 4840.3	675 MAR3 C22	802 SEX8 C19
489 A0090	574 ENOR 4840.4	676 SPOS3 2 C23	803 RACE8 C20
490 A0100	575 EMISSW 4840.5	678 GRAD3 2 C24	804 SPAN8 C21
491 A0115	576 ESLOPW 4840.6	680 MOVE3 3 C25	805 MAR8 C22
492 A1140	577 BOARD 4840.7	683 MOVMI 2 C26	806 SPOS8 2 C23
493 A1210	578 EBROKE 4840.8	685 HERE3 4670	808 GRAD8 2 C24
494 A1220	579 EBAR 4840.9	686 FAM3	810 MOVE8 3 C25
495 A1230	580 ECRUMB 4840.10	687 MVG3	813 MOVMI 2 C26
496 A1240	581 ENOF 4840.11	688 SUBF3	815 HERE8 4670
497 A1250	582 EGOOD 4840.12	689 PLINE4 2 C10	816 FAM8
498 A1260	583 ENOB 4840.13	691 REL4 2 C13	817 MVG8
499 A1270	584 TPARK 4880	693 PAR4 2 C16	818 SUBF8
500 A1280	585 ESFD 4890.1	695 TEN4 C17	819 PLINE9 2 C10
	586 ELOW 4890.2	696 AGE4 2 C18B	821 REL9 2 C13
	587 EMID 4890.3	698 SEX4 C19	823 PAR9 2 C16
501 A1290	588 EHIGH 4890.4	699 RACE4 C20	825 TEN9 C17
502 A1300	589 EMOBIL 4890.5	700 SPAN4 C21	826 AGE9 2 C18B
503 A1310	590 ECOM 4890.6	701 MAR4 C22	828 SEX9 C19
504 A1320	591 EPRKG 4890.7	702 SPOS4 2 C23	829 RACE9 C20
505 A1330	592 EWATER 4890.8	704 GRAD4 2 C24	830 SPAN9 C21
506 A1340		706 MOVE4 3 C25	831 MAR9 C22
		709 MOVMI 2 C26	832 SPOS9 2 C23

## RECORD LAYOUT (Continued)

834 GRAD9 2 C24	958 SEX14 C19	1073 A23702	blank in 84s
836 MOVE9 3 C25	959 RACE14 C20	1074 A23802	1198 LOON2 3480
839 MOV9 2 C26	960 SPAN14 C21	1075 A23902	1199 blank 2
841 HERE9 4670	961 MAR14 C22	1076 A24002	1201 NRLIN1 2 3880
842 FAM9	962 SPOS14 2 C23	1077 A24102	1203 LODGE1 3890
843 MVG9	964 GRAD14 2 C24	1078 A24202	1204 FRENT1 2 3900
844 SUBF9	966 MOVE14 3 C25	1079 A24302	1206 RENT1 3 3910
845 PLINE10 2 C10	969 MOV14 2 C26	1080 A24402	1209 FOOD1 3920
847 REL10 2 C13	971 HERE14 4670	1081 A23403	1210 NRLIN2 2 3880
849 PAR10 2 C16	972 FAM14	1082 A23703	1212 LODGE2 3890
851 TEN10 C17	973 MVG14	1083 A23803	1213 FRENT2 2 3900
852 AGE10 2 C18B	974 SUBF14	1084 A23903	1215 RENT2 3 3910
854 SEX10 C19	975 PLINE15 2 C10	1085 A24003	1218 FOOD2 3920
855 RACE10 C20	977 REL15 2 C13	1086 A24103	1219 NRLIN3 2 3880
856 SPAN10 C21	979 PAR15 2 C16	1087 A24203	1221 LODGE3 3890
857 MAR10 C22	981 TEN15 C17	1088 A24303	1222 FRENT3 2 3900
858 SPOS10 2 C23	982 AGE15 2 C18B	1089 A24403	1224 RENT3 3 3920
860 GRAD10 2 C24	984 SEX15 C19	1090 A23404	1227 FOOD3 3920
862 MOVE10 3 C25	985 RACE15 C20	1091 A23704	1228 NRLIN4 2 3880
865 MOV10 2 C26	986 SPAN15 C21	1092 A23804	1230 LODGE4 3890
867 HERE10 4670	987 MAR15 C22	1093 A23904	1231 FRENT4 2 3900
868 FAM10	988 SPOS15 2 C23	1094 A24004	1233 RENT4 3 3910
869 MVG10	990 GRAD15 2 C24	1095 A24104	1236 FOOD4 3920
870 SUBF10	992 MOVE15 3 C25	1096 A24204	1237 NRLIN5 2 3880
871 PLINE11 2 C10	995 MOV15 2 C26	1097 A24304	1239 LODGE5 3890
873 REL11 2 C13	997 HERE15 4670	1098 A24404	1240 FRENT5 2 3900
875 PAR11 2 C16	998 FAM15	1099 MATBUY 3230	1242 RENT5 3 3910
877 TEN11 C17	999 MVG15	1100 NEWMOR 3240	1245 FOOD5 3920
878 AGE11 2 C18B	1000 SUBF15	1101 AMMORT 6 3250/3310	1246 NRLIN6 2 3880
880 SEX11 C19	1001 OTH6 2	1107 TERM 2 3260/3290	1248 LODGE6 3890
881 RACE11 C20	1003 OTHT 2	1109 YRMOR 2 3280	1249 FRENT6 2 3900
882 SPAN11 C21	1005 OTHN 2	1111 AMRTZ 2 3300	1251 RENT6 3 3910
883 MAR11 C22	1007 blank 3	1113 PINCP 3320	1254 FOOD6 3920
884 SPOS11 2 C23	1010 XAINUS 2340	1114 MFARM 3330	1255 NRLIN7 2 3880
886 GRAD11 2 C24	1011 XAZON 3 2370	1115 MCOM 3340	1257 LODGE7 3890
888 MOVE11 3 C25	1014 XAUNIT 2380	1116 RESMOR 6 3350	1258 FRENT7 2 3900
891 MOV11 2 C26	1015 XATEN 2390	1122 INT 4 3360/3370	1260 RENT7 3 3910
893 HERE11 4670	1016 XACOND 2400	1126 PMT 4 3380	1263 FOOD7 3920
894 FAM11	1017 XAPER 2 2410	1130 TAXPMT 3390	1264 NRLIN8 2 3880
895 MVG11	1019 XAHEAD 2420	1131 INSPMT 3400	1266 LODGE8 3890
896 SUBF11	1020 XAREL 2430	1132 OTHPMT 3410	1267 FRENT8 2 3900
897 PLINE12 2 C10	1021 XACOST 2440	1133 AMT 4 3420	1269 RENT8 3 3910
899 REL12 2 C13	1022 XBINUS 2340	1137 MORTINS 3430	1272 FOOD8 3920
901 PAR12 2 C16	1023 XBZON 3 2370	1138 BANK 3440	1273 SAL1 6 3950/4680
903 TEN12 C17	1026 XBUNIT 2380	1139 SELL 3450	1279 A46801 3950
904 AGE12 2 C18B	1027 XBTEN 2390	1140 VARY 3460	1280 A46701
906 SEX12 C19	1028 XBCOND 2400	1141 FIXED 3470.1	1281 SAL2 6 3970/4680
907 RACE12 C20	1029 XBPER 2 2410	1142 ARM 3470.2	1287 A46802 3970
908 SPAN12 C21	1031 XBHEAD 2420	1143 GPM 3470.3	1288 A46702
909 MAR12 C22	1032 XBREL 2430	1144 GPMW 3470.4	1289 SAL3 6 3990/4680
910 SPOS12 2 C23	1033 XBCDST 2440	1145 BLOON 3470.5	1295 A46803 3990
912 GRAD12 2 C24	1034 XCINUS 2340	1146 blank	1296 A46703
914 MOVE12 3 C25	1035 XCZON 3 2370	1147 VARM 3470.7-	1297 SAL4 6 4010/4680
917 MOV12 2 C26	1038 XCUNIT 2380	blank in 84s	1303 A46804 4010
919 HERE12 4670	1039 XCTEN 2390	1148 LOON 3480	1304 A46704
920 FAM12	1040 XCCOND 2400	1149 MATBY2 3230	1305 SAL5 6 4030/4680
921 MVG12	1041 XCPER 2 2410	1150 NEWMR2 3240	1311 A46805 4030
922 SUBF12	1043 XCHEAD 2420	1151 AMMRT2 6 3250/3310	1312 A46705
923 PLINE13 2 C10	1044 XCREL 2430	1157 TERM2 2 3260/3290	1313 SAL6 6 4050/4680
925 REL13 2 C13	1045 XCCOST 2440	1159 YRMOR2 2 3280	1319 A46806 4050
927 PAR13 2 C16	1046 XDINUS 2340	1161 AMRTZ2 2 3300	1320 A46706
929 TEN13 C17	1047 XDZON 3 2370	1163 PINCO2 3320	1321 SAL7 6 4070/4680
930 AGE13 2 C18B	1050 XDUNIT 2380	1164 MFARM2 3330	1327 A46807 4070
932 SEX13 C19	1051 XDTEEN 2390	1165 MCOM2 3340	1328 A46707
933 RACE13 C20	1052 XDCOND 2400	1166 RESMR2 6 3350	1329 SAL8 6 4090/4680
934 SPAN13 C21	1053 XDPER 2 2410	1172 INT2 4 3360/70	1335 A46808 4090
935 MAR13 C22	1055 XDHEAD 2420	1176 PMT2 4 3380	1336 A46708
936 SPOS13 2 C23	1056 XDREL 2430	1180 TXPMT2 3390	1337 SAL9 6 4110/4680
938 GRAD13 2 C24	1057 XDCDST 2440	1181 INPMT2 3400	1343 A46809 4110
940 MOVE13 3 C25	1058 blank 5	1182 OTPMT2 3410	1344 A46709
943 MOV13 2 C26	1063 A23401	1183 AMTM2 4 3420	1345 SAL10 6 4130/4680
945 HERE13 4670	1064 A23701	1187 MORTN2 3430	1351 A46810 4130
946 FAM13	1065 A23801	1188 BANK2 3440	1352 A46710
947 MVG13	1066 A23901	1189 SELL2 3450	1353 SAL11 6 4130/4680
948 SUBF13	1067 A24001	1190 VARY2 3460	1359 A46811 4130
949 PLINE14 2 C10	1068 A24101	1191 FIXED2 3470.1	1360 A46711
951 REL14 2 C13	1069 A24201	1192 ARM2 3470.2	1361 SAL12 6 4130/4680
953 PAR14 2 C16	1070 A24301	1193 GPM2 3470.3	1367 A46812 4130
955 TEN14 C17	1071 A24401	1194 GPMW2 3470.4	1368 A46712
956 AGE14 2 C18B	1072 A23402	1195 BLOON2 3470.5	1369 SAL13 6 4130/4680
		1196 blank	1375 A46813 4130
		1197 VARM2 3470.7-	1376 A46713

RECORD LAYOUT (Continued)

1377 SAL14 6 4130/4680	1468 A2550	1550 A3810	1627 AC252	1709 AC169
1383 A46814 4130	1469 A2560	1551 A3820	1628 AC262	1710 AC179
1384 A46714	1470 A2570	1552 A3830	1629 AC103	1711 AC189
1385 SAL15 6 4130/4680	1471 A2580	1553 A3840	1630 AC133	1712 AC199
1391 A46815 4130	1472 A2590	1554 A3850	1631 AC163	1713 AC209
1392 A46715	1473 A2650	1555 A3860	1632 AC173	1714 AC219
1393 A1570	1474 A2655	1556 A4140	1633 AC183	1715 AC229
1394 A1580	1475 A2660	1557 A4150	1634 AC193	1716 AC239
1395 A1590	1476 A2670	1558 A4160	1635 AC203	1717 AC249
1396 A1600	1477 A2680	1559 A4170	1636 AC213	1718 AC259
1397 A1610	1478 A2690	1560 A4180	1637 AC223	1719 AC269
1398 A1620	1479 A2700	1561 A4190	1638 AC233	1720 AC1010
1399 A1630	1480 A2710	1562 A4244 -	1639 AC243	1721 AC1310
1400 A1640	1481 A2720	blank on85-8,89S,A4200 on84	1640 AC253	1722 AC1610
1401 A1650	1482 A2730	1563 A4210	1641 AC263	1723 AC1710
1402 A1660	1483 A2740	1564 A4220	1642 AC104	1724 AC1810
1403 A1670	1484 A2750	1565 A4230	1643 AC134	1725 AC1910
1404 A1690	1485 A2760	1566 A4246 -	1644 AC164	1726 AC2010
1405 A1700	1486 A2770	blank on84-8,89S	1645 AC174	1727 AC2110
1406 A1710	1487 A2780	1567 A4260	1646 AC184	1728 AC2210
1407 A1720	1488 A2790	1568 A4270	1647 AC194	1729 AC2310
1408 A1730	1489 A2800	1569 A4280	1648 AC204	1730 AC2410
1409 A1740	1490 A2810	1570 A4290	1649 AC214	1731 AC2510
1410 A1750	1491 A2820	1571 A4300	1650 AC224	1732 AC2610
1411 A1760	1492 A2830	1572 A4320	1651 AC234	1733 AC1011
1412 A1770	1493 A2840	1573 A4330	1652 AC244	1734 AC1311
1413 A1780	1494 blank 2	1574 A4340	1653 AC254	1735 AC1611
1414 A1790	1496 A2900	1575 A4350	1654 AC264	1736 AC1711
1415 A1800	1497 A2910	1576 A4360	1655 AC105	1737 AC1811
1416 A1805	1498 A2920	1577 A4370	1656 AC135	1738 AC1911
1417 A1810	1499 A2930	1578 A4400	1657 AC165	1739 AC2011
1418 A1830	1500 A2940	1579 A4600	1658 AC175	1740 AC2111
1419 A1840	1501 A2950	1580 A4780	1659 AC185	1741 AC2211
1420 A1850	1502 A2960	1581 A4790	1660 AC195	1742 AC2311
1421 A1880	1503 A2970	1582 A4800	1661 AC205	1743 AC2411
1422 A1890	1504 A2980	1583 A481C	1662 AC215	1744 AC2511
1423 A1900	1505 A3010	1584 A4820	1663 AC225	1745 AC2611
1424 A1910	1506 blank	1585 A4830	1664 AC235	1746 AC1012
1425 A1920	1507 A3030	1586 A4840	1665 AC245	1747 AC1312
1426 A1930	1508 A3040	1587 A4890	1666 AC255	1748 AC1612
1427 A1940	1509 A3070	1588 A4920	1667 AC265	1749 AC1712
1428 A1950	1510 A3080	1589 A4930	1668 AC106	1750 AC1812
1429 A1960	1511 A3100	1590 A4940	1669 AC136	1751 AC1912
1430 A1970	1512 A3140	1591 A4950	1670 AC166	1752 AC2012
1431 A1980	1513 A3150	1592 A4960	1671 AC176	1753 AC2112
1432 A1990	1514 A3180	1593 A4570 -	1672 AC186	1754 AC2212
1433 A2000	1515 A3190	blank on84-6,87s	1673 AC196	1755 AC2312
1434 A2010	1516 A3200	1594 A4580 -	1674 AC206	1756 AC2412
1435 A2030	1517 A3210	blank on84-6,87s	1675 AC216	1757 AC2512
1436 A2070	1518 A3220	1595 AC6	1676 AC226	1758 AC2612
1437 A2080	1519 A3490	1596 AC7B	1677 AC236	1759 AC1013
1438 A2090	1520 A3500	1597 AC7C	1678 AC246	1760 AC1313
1439 A2100	1521 A3520	1598 AC8A	1679 AC256	1761 AC1613
1440 A2595	1522 A3524	1599 AC8B	1680 AC266	1762 AC1713
1441 A2110	1523 A3526	1600 AC9D	1681 AC107	1763 AC1813
1442 A2120	1524 A3540	1601 AC9G	1682 AC137	1764 AC1913
1443 A2200	1525 A3550	1602 A4885 -	1683 AC167	1765 AC2013
1444 A2210	1526 A3555	blank on84-8,89S	1684 AC177	1766 AC2113
1445 A2230	1527 blank 2	1603 AC101	1685 AC187	1767 AC2213
1446 A2240	1529 A3590	1604 AC131	1686 AC197	1768 AC2313
1447 A2250	1530 A3610	1605 AC161	1687 AC207	1769 AC2413
1448 A2270	1531 A3620	1606 AC171	1688 AC217	1770 AC2513
1449 A2280	1532 A3630	1607 AC181	1689 AC227	1771 AC2613
1450 A2290	1533 A3640	1608 AC191	1690 AC237	1772 AC1014
1451 A2300	1534 A3650	1609 AC201	1691 AC247	1773 AC1314
1452 blank 2	1535 A3660	1610 AC211	1692 AC257	1774 AC1614
1454 A2450	1536 A3670	1611 AC221	1693 AC267	1775 AC1714
1455 A2460	1537 A3680	1612 AC231	1694 AC108	1776 AC1814
1456 A2470	1538 A3690	1613 AC241	1695 AC138	1777 AC1914
1457 A2480	1539 A3700	1614 AC251	1696 AC168	1778 AC2014
1458 A2500	1540 A3710	1615 AC261	1697 AC178	1779 AC2114
1459 A2506	1541 A3720	1616 AC102	1698 AC188	1780 AC2214
1460 blank	1542 A3730	1617 AC132	1699 AC198	1781 AC2314
1461 A2510	1543 A3740	1618 AC162	1700 AC208	1782 AC2414
1462 A2517	1544 A3750	1619 AC172	1701 AC218	1783 AC2514
1463 A2518	1545 A3760	1620 AC182	1702 AC228	1784 AC2614
1464 A2519	1546 A3770	1621 AC192	1703 AC238	1785 AC1015
1465 A2520	1547 A3780	1622 AC202	1704 AC248	1786 AC1315
1466 A2530	1548 A3790	1623 AC212	1705 AC258	1787 AC1615
1467 A2540	1549 A3800	1624 AC222	1706 AC268	1788 AC1715
		1625 AC232	1707 AC109	1789 AC1815
		1626 AC242	1708 AC139	1790 AC1915

RECORD LAYOUT (Continued)

1791 AC2015	1874 A38806	2022 WTIME3 4 4340	2171 A44453	2250 NEWTRN 5730
1792 AC2115	1875 A38906	2026 AMPM3 4550	2172 A44503	2251 TRN 5740
1793 AC2215	1876 A39006	2027 DISTJ3 3 4560	2173 A44903	2252 USETRN 5750
1794 AC2315	1877 A39106	2030 WLINE4 2 4440	2174 A45003	2253 SHP 5760
1795 AC2415	1878 A39206	2032 HJOB4 4445	2175 A45103	2254 SHPCLS 5770
1796 AC2515	1879 A38807	2033 WINUS4 4450	2176 A45203	2255 blank
1797 AC2615	1880 A38907	2034 WKSTZ4 3 4490	2177 A45303	2256 SCHNO 5780.1
1798 blank 3	1881 A39007	2037 TRAN4 2 4500	2178 A45403	2257 SCHOTH 5780.2
1801 A3230	1882 A39107	2039 VEHCL4 4510	2179 A45503	2258 SCHPRI 5780.3
1802 A3240	1883 A39207	2040 PASS4 2 4520	2180 A45603	2259 SCHPUB 5780.4
1803 A3250	1884 A38808	2042 TIMEJ4 3 4530	2181 A44404	2260 SCH 5790
1804 A3260	1885 A38908	2045 WTIME4 4 4340	2182 A44454	2261 SCHM 5800
1805 A3280	1886 A39008	2049 AMPM4 4550	2183 A44504	2262 SCHCLS 5810
1806 A3300	1887 A39108	2050 DISTJ4 3 4560	2184 A44904	2263 blank 4
1807 A3320	1888 A39208	2053 WLINE5 2 4440	2185 A45004	2267 A5640
1808 A3330	1889 blank 2	2055 HJOB5 4445	2186 A45104	2268 A5650
1809 A3340	1891 PER 2	2056 WINUS5 4450	2187 A45204	2269 A5660
1810 A3350	1893 ROOMS 2	2057 WKSTZ5 3 4490	2188 A45304	2270 A5670
1811 A3360	1895 KITCHEN	2060 TRANS 2 4500	2189 A45404	2271 A5680
1812 A3370	1896 PLUMB	2062 VEHCL5 4510	2190 A45504	2272 A5690
1813 A3380	1897 ZINC 6	2063 PASS5 2 4520	2191 A45604	2273 A5700
1814 A3390	1903 ZINCA	2065 TIMEJ5 3 4530	2192 A44405	2274 A5710
1815 A3400	1904 ZINC2 6	2068 WTIME5 4 4340	2193 A44455	2275 A5720
1816 A3410	1910 ZINCB	2072 AMPM5 4550	2194 A44505	2276 A5730
1817 A3420	1911 blank 2	2073 DISTJ5 3 4560	2195 A44905	2277 A5740
1818 A3430	1913 VACVAC 2485-	2076 WLINE6 2 4440	2196 A45005	2278 A5750
1819 A3440	blank on84-6	2078 HJOB6 4445	2197 A45105	2279 A5760
1820 A3450	1914 USFCHG 4570-	2079 WINUS6 4450	2198 A45205	2280 A5770
1821 A3460	blank on84-6,87s	2080 WKSTZ6 3 4490	2199 A45305	2281 A5780
1822 A3470	1915 USFCAM 6 4580/90-	2083 TRAN6 2 4500	2200 A45405	2282 A5790
1823 A3480	blank on84-6,87s	2085 VEHCL6 4510	2201 A45505	2283 A5800
1824 A32302	1921 RMR	2086 PASS6 2 4520	2202 A45605	2284 A5810
1825 A32402	1922 RMYEAR	2088 TIMEJ6 3 4530	2203 A44406	2285 blank 4
1826 A32502	1923 ZSMHC 5	2091 WTIME6 4 4340	2204 A44456	2289 SECOND 6040
1827 A32602	1928 ZADEQ	2095 AMPM6 4550	2205 A44506	2290 NADDUS 5 6050
1828 A32802	1929 XLOC 2	2096 DISTJ6 3 4560	2206 A44906	2295 blank 2
1829 A33002	1931 ZINCH 4244-	2099 WLINE7 2 4440	2207 A45006	2297 SECADD 6055-
1830 A33202	blank on84-8,89S	2101 HJOB7 4445	2208 A45106	blank on85
1831 A33302	1932 ZSPEC	2102 WINUS7 4450	2209 A45206	2298 blank
1832 A33402	1933 ZADULT 2	2103 WKSTZ7 3 4490	2210 A45306	2299 SSTAT1 2 6060
1833 A33502	1935 ZINCN 6 4246-	2106 TRAN7 2 4500	2211 A45406	2301 blank
1834 A33602	blank on84-8,89S	2108 VEHCL7 4510	2212 A45506	2302 SLIN11 2 6070.1
1835 A33702	1941 blank 20	2109 PASS7 2 4520	2213 A45606	2304 SLIN21 2 6070.2
1836 A33802		2111 TIMEJ7 3 4530	2214 A44407	2306 SLIN31 2 6070.3
1837 A33902	ON METRO FILES	2114 WTIME7 4 4340	2215 A44457	2308 SLIN41 2 6070.4
1838 A34002	WLINE1 STARTS IN COL	2118 AMPM7 4550	2216 A44507	2310 SURE1 6090
1839 A34102	1941 & ALL FOLLOWING	2119 DISTJ7 3 4560	2217 A44907	2311 SUNIT1 5 6095
1840 A34202	ITEMS START 20 COLS	2122 WLINE8 2 4440	2218 A45007	2316 blank 3
1841 A34302	EARLIER THAN SHOWN	2124 HJOB8 4445	2219 A45107	2319 SURB1 6310
1842 A34402		2125 WINUS8 4450	2220 A45207	2320 SRSRT1 6320
1843 A34502	1961 WLINE1 2 4440	2126 WKSTZ8 3 4490	2221 A45307	2321 STYPE1 6330
1844 A34602	1963 HJOB1 4445	2129 TRAN8 2 4500	2222 A45407	2322 SYRND1 6340
1845 A34702	1964 WINUS1 4450	2131 VEHCL8 4510	2223 A45507	2323 S150M1 6350
1846 A34802	1965 WKSTZ1 3 4490	2132 PASS8 2 4520	2224 A45607	2324 SSHRD1 6360
1847 blank 2	1968 TRAN1 2 4500	2134 TIMEJ8 3 4530	2225 A44408	2325 SPCT1 3 6370
1849 A38801	1970 VEHCL1 4510	2137 WTIME8 4 4340	2226 A44458	2328 SWKS1 2 6380
1850 A38901	1971 PASS1 2 4520	2141 AMPM8 4550	2227 A44508	2330 SVAL1 6 6390
1851 A39001	1973 TIMEJ1 3 4530	2142 DISTJ8 3 4560	2228 A44908	2336 blank 2
1852 A39101	1976 WTIME1 4 4340	2145 blank 3	2229 A45008	2338 SMORT1 6400
1853 A39201	1980 AMPM1 4550	2148 A44401	2230 A45108	2339 SNITE1 3 6410
1854 A38802	1981 DISTJ1 3 4560	2149 A44451	2231 A45208	2342 blank
1855 A38902	1984 WLINE2 2 4440	2150 A44501	2232 A45308	2343 SINH1 6420.1
1856 A39002	1986 HJOB2 4445	2151 A44901	2233 A45408	2344 SINV1 6420.2
1857 A39102	1987 WINUS2 4450	2152 A45001	2234 A45508	2345 SREC1 6420.3
1858 A39202	1988 WKSTZ2 3 4490	2153 A45101	2235 A45608	2346 SSEL1 6420.4
1859 A38803	1991 TRAN2 2 4500	2154 A45201	2236 blank 5	2347 SXURE1 6420.5
1860 A38903	1993 VEHCL2 4510	2155 A45301		2348 SOTH1 6420.6
1861 A39003	1994 PASS2 2 4520	2156 A45401	ON SOME FILES THE	2349 blank 4
1862 A39103	1996 TIMEJ2 3 4530	2157 A45501	FOLLOWING SUPPLE-	2353 A60401
1863 A39203	1999 WTIME2 4 4340	2158 A45601	MENTS START EARLIER	2354 A60501
1864 A38804	2003 AMPM2 4550	2159 A44402	THAN SHOWN HERE OR	2355 A60551
1865 A38904	2004 DISTJ2 3 4560	2160 A44452	THEY'RE OMITTED	2356 A60601
1866 A39004	2007 WLINE3 2 4440	2161 A44502		2357 A60701
1867 A39104	2009 HJOB3 4445	2162 A44902	2241 STRN 5640	2358 A60901
1868 A39204	2010 WINUS3 4450	2163 A45002	2242 ROAD 5650	2359 A60951
1869 A38805	2011 WKSTZ3 3 4490	2164 A45102	2243 CRIME 5660	2360 A63001
1870 A38905	2014 TRAN3 2 4500	2165 A45202	2244 JUNK 5670	2361 A63101
1871 A39005	2016 VEHCL3 4510	2166 A45302	2245 ABAN 5680	2362 A63201
1872 A39105	2017 PASS3 2 4520	2167 A45402	2246 NONRES 5690	2363 A63301
1873 A39205	2019 TIMEJ3 3 4530	2168 A45502	2247 ODR 5700	2364 A63401
		2169 A45602	2248 FUZZM 5710	2365 A63501
		2170 A44403	2249 HOSPM 5720	2366 A63601

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2367 A63701	2520 SINV3 6420.2	2656 SLIN25 2 6230.2	2799 A60956
2368 A63801	2521 SREC3 6420.3	2658 SLIN35 2 6230.3	2800 A63006
2369 A63901	2522 SSEL3 6420.4	2660 SLIN45 2 6230.4	2801 A63106
2370 A64001	2523 SXURE3 6420.5	2662 SURE5 6250	2802 A63206
2371 A64101	2524 SOTH3 6420.6	2663 SUNIT5 5 6225	2803 A63306
2372 A64201	2525 blank 4	2668 blank 3	2804 A63406
2373 blank 14	2529 A60403	2671 SURB5 6310	2805 A63506
2387 SSTAT2 2 6100	2530 A60503	2672 SRSRT5 6320	2806 A63606
2389 blank	2531 A60553	2673 STYPE5 6330	2807 A63706
2390 SLIN12 2 6110.1	2532 A60603	2674 SYRND5 6340	2808 A63806
2392 SLIN22 2 6110.2	2533 A60703	2675 S150M5 6350	2809 A63906
2394 SLIN32 2 6110.3	2534 A60903	2676 SSHRD5 6360	2810 A64006
2396 SLIN42 2 6110.4	2535 A60953	2677 SPCT5 3 6370	2811 A64106
2398 SURE2 6130	2536 A63003	2680 SWKS5 2 6380	2812 A64206
2399 SUNIT2 5 6105	2537 A63103	2682 SVAL5 6 6390	2813 blank 4
2404 blank 3	2538 A63203	2688 blank 2	2817 NHBILL 5910
2407 SURB2 6310	2539 A63303	2690 SMORT5 6400	2818 EVEN 5920
2408 SRSRT2 6320	2540 A63403	2691 SNITE5 3 6410	2819 OVER 5930
2409 STYPE2 6330	2541 A63503	2694 blank	2820 QAFDC 5940
2410 SYRND2 6340	2542 A63603	2695 SINH5 6420.1	2821 QSSI 5950
2411 S150M2 6350	2543 A63703	2696 SINV5 6420.2	2822 QGAPA 5960
2412 SSHRD2 6360	2544 A63803	2697 SREC5 6420.3	2823 QFS 5970
2413 SPCT2 3 6370	2545 A63903	2698 SSEL5 6420.4	2824 HTASST 5980
2416 SWKS2 2 6380	2546 A64003	2699 SXURE5 6420.5	2825 CLASST 5990
2418 SVAL2 6 6390	2547 A64103	2700 SOTH5 6420.6	2826 HEASST 6000
2424 blank 2	2548 A64203	2701 blank 4	2827 EEASST 6010
2426 SMORT2 6400	2549 blank 14	2705 A60405	2828 WRHTAS 6020
2427 SNITE2 3 6410	2563 SSTAT4 2 6180	2706 A60505	2829 ECASST 6030
2430 blank	2565 blank	2707 A60555	2830 blank 3
2431 SINH2 6420.1	2566 SLIN14 2 6190.1	2708 A60605	2833 A5910
2432 SINV2 6420.2	2568 SLIN24 2 6190.2	2709 A60705	2834 A5920
2433 SREC2 6420.3	2570 SLIN34 2 6190.3	2710 A60905	2835 A5930
2434 SSEL2 6420.4	2572 SLIN44 2 6190.4	2711 A60955	2836 A5940
2435 SXURE2 6420.5	2574 SURE4 6210	2712 A63005	2837 A5950
2436 SOTH2 6420.6	2575 SUNIT4 5 6185	2713 A63105	2838 A5960
2437 blank 4	2580 blank 3	2714 A63205	2839 A5970
2441 A60402	2583 SURB4 6310	2715 A63305	2840 A5980
2442 A60502	2584 SRSRT4 6320	2716 A63405	2841 A5990
2443 A60552	2585 STYPE4 6330	2717 A63505	2842 A6000
2444 A60602	2586 SYRND4 6340	2718 A63605	2843 A6010
2445 A60702	2587 S150M4 6350	2719 A63705	2844 A6020
2446 A60902	2588 SSHRD4 6360	2720 A63805	2845 A6030
2447 A60952	2589 SPCT4 3 6370	2721 A63905	2846 blank 2
2448 A63002	2592 SWKS4 2 6380	2722 A64005	2848 MOCALL 0145
2449 A63102	2594 SVAL4 6 6390	2723 A64105	2849 blank
2450 A63202	2600 blank 2	2724 A64205	2850 XLINE1 2 5510
2451 A63302	2602 SMORT4 6400	2725 blank 14	2852 STBRN1 2 5520
2452 A63402	2603 SNITE4 3 6410	2739 SSTAT6 2 6260	2854 HER161 5530
2453 A63502	2606 blank	2741 blank	2855 ST161 2 5540
2454 A63602	2607 SINH4 6420.1	2742 SLIN16 2 6270.1	2857 PLC161 2 5550
2455 A63702	2608 SINV4 6420.2	2744 SLIN26 2 6270.2	2859 HIN51 5560
2456 A63802	2609 SREC4 6420.3	2746 SLIN36 2 6270.3	2860 STAY51 5570
2457 A63902	2610 SSEL4 6420.4	2748 SLIN46 2 6270.4	2861 WHRN51 5580
2458 A64002	2611 SXURE4 6420.5	2750 SURE6 6290	2862 PLCN51 2 5590
2459 A64102	2612 SOTH4 6420.6	2751 SUNIT6 5 6265	2864 STIN51 2 5600
2460 A64202	2613 blank 4	2756 blank 3	2866 LKLN51 5610
2461 blank 14	2617 A60404	2759 SURB6 6310	2867 blank 3
2475 SSTAT3 2 6140	2618 A60504	2760 SRSRT6 6320	2870 A55101
2477 blank	2619 A60554	2761 STYPE6 6330	2871 A55201
2478 SLIN13 2 6150.1	2620 A60604	2762 SYRND6 6340	2872 A55301
2480 SLIN23 2 6150.2	2621 A60704	2763 S150M6 6350	2873 A55401
2482 SLIN33 2 6150.3	2622 A60904	2764 SSHRD6 6360	2874 A55501
2484 SLIN43 2 6150.4	2623 A60954	2765 SPCT6 3 6370	2875 A55601
2486 SURE3 6170	2624 A63004	2768 SWKS6 2 6380	2876 A55701
2487 SUNIT3 5 6145	2625 A63104	2770 SVAL6 6 6390	2877 A55801
2492 blank 3	2626 A63204	2776 blank 2	2878 A55901
2495 SURB3 6310	2627 A63304	2778 SMORT6 6400	2879 A56001
2496 SRSRT3 6320	2628 A63404	2779 SNITE6 3 6410	2880 A56101
2497 STYPE3 6330	2629 A63504	2782 blank	2881 blank 5
2498 SYRND3 6340	2630 A63604	2783 SINH6 6420.1	2886 XLINE2 2 5510
2499 S150M3 6350	2631 A63704	2784 SINV6 6420.2	2888 STBRN2 2 5520
2500 SSHRD3 6360	2632 A63804	2785 SREC6 6420.3	2890 HER162 5530
2501 SPCT3 3 6370	2633 A63904	2786 SSEL6 6420.4	2891 ST162 2 5540
2504 SWKS3 2 6380	2634 A64004	2787 SXURE6 6420.5	2893 PLC162 2 5550
2506 SVAL3 6 6390	2635 A64104	2788 SOTH6 6420.6	2895 HIN52 5560
2512 blank 2	2636 A64204	2789 blank 4	2896 STAY52 5570
2514 SMORT3 6400	2637 blank 14	2793 A60406	2897 WHRN52 5580
2515 SNITE3 3 6410	2651 SSTAT5 2 6220	2794 A60506	2898 PLCN52 2 5590
2518 blank	2653 blank	2795 A60556	2900 STIN52 2 5600
2519 SINH3 6420.1	2654 SLIN15 2 6230.1	2796 A60606	2902 LKLN52 5610
		2797 A60706	2903 blank 3
		2798 A60906	2906 A55102

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 2908 A55302  
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 2910 A55502  
 2911 A55602  
 2912 A55702  
 2913 A55802  
 2914 A55902  
 2915 A56002  
 2916 A56102  
 2917 blank 5  
 2922 XLINE3 2 5510  
 2924 STBRN3 2 5520  
 2926 HER163 5530  
 2927 ST163 2 5540  
 2929 PLC163 2 5550  
 2931 HIN53 5560  
 2932 STAY53 5570  
 2933 WHRN53 5580  
 2934 PLCN53 2 5590  
 2936 STIN53 2 5600  
 2938 LKLN53 5610  
 2939 blank 3  
 2942 A55103  
 2943 A55203  
 2944 A55303  
 2945 A55403  
 2946 A55503  
 2947 A55603  
 2948 A55703  
 2949 A55803  
 2950 A55903  
 2951 A56003  
 2952 A56103  
 2953 blank 5  
 2958 XLINE4 2 5510  
 2960 STBRN4 2 5520  
 2962 HER164 5530  
 2963 ST164 2 5540  
 2965 PLC164 2 5550  
 2967 HIN54 5560  
 2968 STAY54 5570  
 2969 WHRN54 5580  
 2970 PLCN54 2 5590  
 2972 STIN54 2 5600  
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 2979 A55204  
 2980 A55304  
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 2983 A55604  
 2984 A55704  
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 2986 A55904  
 2987 A56004  
 2988 A56104  
 2989 blank 5  
 2994 XLINE5 2 5510  
 2996 STBRN5 2 5520  
 2998 HER165 5530  
 2999 ST165 2 5540  
 3001 PLC165 2 5550  
 3003 HIN55 5560  
 3004 STAY55 5570  
 3005 WHRN55 5580  
 3006 PLCN55 2 5590  
 3008 STIN55 2 5600  
 3010 LKLN55 5610  
 3011 blank 3  
 3014 A55105  
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 3017 A55405  
 3018 A55505  
 3019 A55605  
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 3021 A55805  
 3022 A55905

3023 A56005  
 3024 A56105  
 3025 blank 5  
 3030 XLINE6 2 5510  
 3032 STBRN6 2 5520  
 3034 HER166 5530  
 3035 ST166 2 5540  
 3037 PLC166 2 5550  
 3039 HIN56 5560  
 3040 STAY56 5570  
 3041 WHRN56 5580  
 3042 PLCN56 2 5590  
 3044 STIN56 2 5600  
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 3047 blank 3  
 3050 A55106  
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 3052 A55306  
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 3056 A55706  
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 3059 A56006  
 3060 A56106  
 3061 blank 5  
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 3070 HER167 5530  
 3071 ST167 2 5540  
 3073 PLC167 2 5550  
 3075 HIN57 5560  
 3076 STAY57 5570  
 3077 WHRN57 5580  
 3078 PLCN57 2 5590  
 3080 STIN57 2 5600  
 3082 LKLN57 5610  
 3083 blank 3  
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 3094 A55907  
 3095 A56007  
 3096 A56107  
 3097 blank 5  
 3102 XLINE8 2 5510  
 3104 STBRN8 2 5520  
 3106 HER168 5530  
 3107 ST168 2 5540  
 3109 PLC168 2 5550  
 3111 HIN58 5560  
 3112 STAY58 5570  
 3113 WHRN58 5580  
 3114 PLCN58 2 5590  
 3116 STIN58 2 5600  
 3118 LKLN58 5610  
 3119 blank 3  
 3122 A55108  
 3123 A55208  
 3124 A55308  
 3125 A55408  
 3126 A55508  
 3127 A55608  
 3128 A55708  
 3129 A55808  
 3130 A55908  
 3131 A56008  
 3132 A56108  
 3133 blank 99

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 EACH SOURCE CODE IS  
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101	0020	158	1850
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63	0040	172	1890
64	0050	173	1900
66	0060	174	1910
67	0080	175	1920
68	0090	176	1930
69	0100	177	1940
70	0110	178	1950
71	0115	179	1960
2848	0145	180	1970
72	1140	181	1980
72	1160	183	1990
72	1180	185	2000
72	1200	186	2010
75	1210	195	2030
76	1220	210	2070
77	1230	212	2080
78	1240	213	2090
80	1250	214	2100
82	1260	215	2110
84	1270	216	2120
85	1280	195	2130
86	1290	212	2140
87	1300	213	2150
88	1310	214	2160
89	1320	196	2170
90	1330	215	2180
91	1340	216	2190
92	1350	217	2200
93	1360	218	2210
94	1370	227	2230
95	1380	229	2240
96	1390	230	2250
97	1400	239	2270
98	1410	241	2280
99	1420	242	2290
100	1430	243	2300
102	1440	1010	2340
106	1450	1011	2370
107	1460	1014	2380
110	1470	1015	2390
111	1480	1016	2400
113	1490	1017	2410
114	1500	1019	2420
115	1510	1020	2430
116	1520	1021	2440
117	1530	244	2450
118	1540	246	2460
119	1550	248	2470
120	1560	250	2480
121	1570	1913	2485
122	1580	251	2500
123	1590	253	2506
124	1600	367	2507
125	1610	255	2510
126	1620	409	2511
127	1630	259	2517
128	1640	260	2518
129	1650	262	2519
130	1660	265	2520
131	1670	266	2530
132	1690	267	2540
133	1700	268	2550
134	1710	269	2560
135	1720	270	2570
136	1730	271	2580
137	1740	272	2590
138	1750	347	2595
139	1760	273	2650
140	1770	274	2655
141	1780	275	2660
142	1790	279	2670
143	1800	280	2680
145	1805	284	2690
146	1810	285	2700

Col #	Source code	Col #	Source code	Col #	Source code
289	2710	435	3720	2855	5540
290	2720	437	3730	2857	5550
294	2730	441	3740	2859	5560
295	2740	447	3760	2860	5570
299	2750	451	3770	2861	5580
300	2760	457	3790	2862	5590
304	2770	460	3800	2864	5600
305	2780	467	3820	2866	5610
309	2790	470	3830	2241	5640
310	2800	476	3850	2242	5650
314	2810	477	3860	2243	5660
315	2820	1201	3880	2244	5670
319	2830	1203	3890	2245	5680
320	2840	1204	3900	2246	5690
324	2900	1206	3910	2247	5700
325	2910	1209	3920	2248	5710
327	2920	1273	3950	2249	5720
328	2930	529	4140	2250	5730
330	2940	530	4150	2251	5740
332	2950	531	4160	2252	5750
338	2960	532	4170	2253	5760
340	2970	533	4180	2254	5770
341	2980	534	4190	2256	5780
352	3030	1562	4200	2260	5790
353	3040	536	4210	2261	5800
354	3070	537	4220	2262	5810
355	3080	539	4230	2817	5910
361	3100	1931	4244	2818	5920
367	3140	1935	4246	2819	5930
369	3150	546	4260	2820	5940
374	3180	547	4270	2821	5950
375	3190	548	4280	2822	5960
376	3200	549	4290	2823	5970
377	3210	550	4300	2824	5980
378	3220	551	4320	2825	5990
1099	3230	552	4330	2826	6000
1100	3240	553	4340	2827	6010
1101	3250	554	4350	2828	6020
1107	3260	555	4360	2829	6030
1109	3280	556	4370	2289	6040
1107	3290	551	4380	2290	6050
1111	3300	552	4390	2297	6055
1101	3310	557	4400	2299	6060
1113	3320	1961	4440	2302	6070
1114	3330	1963	4445	2310	6090
1115	3340	1964	4450	2311	6095
1116	3350	1965	4490	2319	6310
1122	3360	1968	4500	2320	6320
1122	3370	1970	4510	2321	6330
1126	3380	1971	4520	2322	6340
1130	3390	1973	4530	2323	6350
1131	3400	1980	4550	2324	6360
1132	3410	1981	4560	2325	6370
1133	3420	1914	4570	2328	6380
1137	3430	1915	4580	2330	6390
1138	3440	1915	4590	2338	6400
1139	3450	558	4600	2339	6410
1140	3460	538	4620	2343	6420
1141	3470	558	4640	611	C10
1148	3480	545	4650	613	C13
379	3490	633	4670	615	C16
385	3500	1273	4680	617	C17
391	3520	563	4780	618	C18B
393	3524	565	4790	620	C19
394	3526	566	4800	621	C20
402	3550	568	4810	622	C21
403	3555	569	4820	623	C22
402	3570	570	4830	624	C23
403	3580	571	4840	626	C24
405	3590	584	4880	628	C25
405	3600	530	4885	631	C26
409	3610	585	4890	56	C5B
410	3620	535	4920	601	C6
411	3630	596	4920	603	C7B
414	3640	597	4930	604	C7C
417	3650	598	4940	606	C8A
418	3660	599	4950	607	C8B
422	3670	600	4960	608	C9D
425	3680	558	4970	610	C9G
426	3690	2850	5510		
429	3700	2852	5520		
430	3710	2854	5530		

INDEX TO LAYOUT (Continued)

Col #	Var name	Col #	Var name	Col #	Var name	Col #	Var name
INDEX TO SHOW WHERE	1479 A2700	1541 A3720	2879 A56001	1980 AMPM1	137 DRY5		
EACH VARIABLE IS ON	1480 A2710	1542 A3730	2880 A56101	1111 AMRTZ	338 DWNPAY		
RECORD LAYOUT.	1481 A2720	1543 A3740	2267 A5640	422 AMTE	597 EABAN		
SIMILAR VARIABLES ARE	1482 A2730	1544 A3750	2268 A5650	447 AMTF	535 EAGE		
INDEXED ONCE: EG, AMONG	1483 A2740	1545 A3760	2269 A5660	426 AMTG	596 EAGE		
SEX-SEX15 ONLY SEX IS	1484 A2750	1546 A3770	2270 A5670	418 AMTI	579 EBAR		
INDEXED; OTHERS ARE	1485 A2760	1547 A3780	2271 A5680	1133 AMTM	598 EBARCL		
SLIGHTLY AFTER SEX IN	1486 A2770	1548 A3790	2272 A5690	437 AMTO	578 EBROKE		
THE LAYOUT.	1487 A2780	1549 A3800	2273 A5700	457 AMTT	2829 ECASST		
Col # Var name	1488 A2790	1550 A3810	2274 A5710	467 AMTW	595 ECL		
483 A0015	1415 A1800	1551 A3820	2275 A5720	391 AMTX	590 ECOM		
484 A0030	1416 A1805	1488 A2790	2276 A5730	1142 ARM	580 ECRUMB		
485 A0040	1417 A1810	1489 A2800	2277 A5740	193 BADPER	2827 EASST		
486 A0050	1418 A1830	1490 A2810	2278 A5750	192 BADPRP	582 EGOOD		
487 A0060	1419 A1840	1491 A2820	2279 A5760	191 BADSRV	593 EGREEN		
488 A0080	1420 A1850	1492 A2830	2280 A5770	569 BADSTEP	588 EHIGH		
489 A0090	1421 A1880	1493 A2840	2281 A5780	1138 BANK	573 EHOLER		
490 A0100	1422 A1890	1496 A2900	2282 A5790	80 BATHS	600 EUJUNK		
491 A0115	1423 A1900	1497 A2910	2283 A5800	68 BBLDG	568 ELEV		
481 A10M	1424 A1910	1498 A2920	2284 A5810	78 BEDRMS	586 ELOW		
482 A10Y	1425 A1920	1499 A2930	2833 A5910	179 BIGP	587 EMID		
492 A1140	1426 A1930	1500 A2940	2834 A5920	430 BILLGE	572 EMISSR		
493 A1210	1427 A1940	1501 A2950	2835 A5930	103 BLEAK	575 EMISSW		
494 A1220	1428 A1950	1502 A2960	2836 A5940	1145 BLOON	589 EMOBIL		
495 A1230	1429 A1960	1503 A2970	2837 A5950	577 BOARD	583 ENOB		
496 A1240	1430 A1970	1504 A2980	2838 A5960	69 BOARDU	596 ENOCL		
497 A1250	1431 A1980	1505 A3010	2839 A5970	325 BUILT	581 ENOF		
498 A1260	1432 A1990	1507 A3030	2840 A5980	129 BURNER	574 ENOR		
499 A1270	1433 A2000	1508 A3040	2841 A5990	425 BUYE	591 EPRKG		
500 A1280	1434 A2010	1509 A3070	2842 A6000	553 BUYE2	599 EROAD		
501 A1290	1435 A2030	1511 A3080	2843 A6010	451 BUYF	571 ESAGR		
502 A1300	1436 A2070	1512 A3100	2844 A6020	556 BUYF2	585 ESFD		
503 A1310	1437 A2080	1513 A3140	2845 A6030	429 BUYG	576 ESLOPW		
504 A1320	1438 A2090	1514 A3150	2353 A60401	554 BUYG2	594 ETRANS		
505 A1330	1439 A2100	1515 A3180	2354 A60501	417 BUYI	2818 EVEN		
506 A1340	1441 A2110	1515 A3190	2355 A60551	441 BUYO	592 EWATER		
507 A1350	1442 A2120	1516 A3200	2356 A60601	555 BUYO2	67 EXPOSE		
508 A1360	1443 A2200	1517 A3210	2357 A60701	460 BUYT	634 FAM1		
509 A1370	1444 A2210	1518 A3220	2358 A60901	551 BUYT2	1141 FIXED		
510 A1380	1445 A2230	1801 A3230	2359 A60951	470 BUYW	563 FLOORS		
511 A1390	1446 A2240	1802 A3240	2360 A63001	552 BUYW2	411 FLRENT		
512 A1400	1447 A2250	1803 A3250	2361 A63101	328 BUYR	260 FMHOTF		
513 A1410	1448 A2270	1804 A3260	2362 A63201	403 CAMF1	1209 FOOD1		
514 A1420	1449 A2280	1805 A3280	2363 A63301	476 CARS	155 FPLWK		
515 A1430	1450 A2290	1806 A3300	2364 A63401	76 CELLAR	171 FREEZE		
516 A1440	1451 A2300	1807 A3320	2365 A63501	131 CFUEL	251 FRENT		
517 A1450	1063 A23401	1808 A3330	2366 A63601	2825 CLASST	1204 FRENT1		
518 A1460	1064 A23701	1809 A3340	2367 A63701	566 CLIMB	324 FR5IT		
519 A1470	1065 A23801	1810 A3350	2368 A63801	18 CMSA	340 FR5THO		
520 A1480	1066 A23901	1811 A3360	2369 A63901	77 CONDO	327 FR5TOC		
521 A1490	1067 A24001	1812 A3370	2370 A64001	405 CONFEE	2248 FUZZM		
522 A1500	1068 A24101	1813 A3380	2371 A64101	1 CONTROL	265 GARAGE		
523 A1510	1069 A24201	1814 A3390	2372 A64201	127 COOK	145 GASPI2		
524 A1520	1070 A24301	1815 A3400	2245 ABAN	130 COOK5	435 GASPIP		
525 A1530	1071 A24401	1816 A3410	1603 AC101	30 COUNTY	1143 GPM		
526 A1540	1454 A2450	1817 A3420	1604 AC131	177 CRACKS	1144 GPMW		
527 A1550	1455 A2460	1818 A3430	1605 AC161	2243 CRIME	626 GRADE1		
528 A1560	1456 A2470	1819 A3440	1606 AC171	56 CROPSL	82 HALFB		
1393 A1570	1457 A2480	1820 A3450	1607 AC181	280 CSTADD	2826 HEASST		
1394 A1580	1458 A2500	1821 A3460	1608 AC191	290 CSTBTH	156 HEQUIP		
1395 A1590	1459 A2506	1822 A3470	1609 AC201	315 CSTFIX	2854 HER161		
1396 A1600	1461 A2510	1823 A3480	1610 AC211	285 CSTKIT	633 HERE1		
1397 A1610	1462 A2517	1519 A3490	1611 AC221	305 CSTMQO	143 HFUEL		
1398 A1620	1463 A2518	1520 A3500	1612 AC231	320 CSTMNT	274 HHROF		
1399 A1630	1464 A2519	1521 A3520	1613 AC241	275 CSTROF	2859 HIN51		
1400 A1640	1465 A2520	1522 A3524	1614 AC251	300 CSTSDW	601 HISTRY		
1401 A1650	1466 A2530	1523 A3526	1615 AC261	295 CSTSID	1963 HJOB1		
1402 A1660	1467 A2540	1524 A3540	1595 AC6	57 DATE	178 HOLES		
1403 A1670	1468 A2550	1525 A3550	1596 AC7B	16 DEGREE	2249 HOSPM		
1404 A1690	1469 A2560	1526 A3555	1597 AC7C	88 DENS	110 HOTPIP		
1405 A1700	1470 A2570	1529 A3590	1598 AC8A	70 DFIRE	181 HOWH		
1406 A1710	1471 A2580	1530 A3610	1599 AC8B	138 DFUEL	183 HOWN		
1407 A1720	1472 A2590	1531 A3620	1600 AC9D	86 DINING	2824 HTASST		
1408 A1730	1440 A2595	1532 A3630	1601 AC9G	71 DISAS	98 IFBLOW		
1409 A1740	1473 A2650	1533 A3640	603 ACCESS	132 DISH	172 IFCOLD		
1410 A1750	1474 A2655	1534 A3650	140 AFUEL	133 DISH5	113 IFDRY		
1411 A1760	1475 A2660	1535 A3660	618 AGE	126 DISP5	402 IFFEE1		
1412 A1770	1476 A2670	1536 A3670	141 AIR	125 DISPL	259 IFOTHF		
1413 A1780	1477 A2680	1537 A3680	2875 A55601	139 AIRSYS	1981 DISTJ1		
1414 A1790	1478 A2690	1538 A3690	2876 A55701	243 ALMV79	608 DLINE1		
		1539 A3700	2877 A55801	1101 AMMORT	353 DOCS		
		1540 A3710	2878 A55901	379 AMMRT3	136 DRY		
					26 IMONTH		

INDEX TO LAYOUT (Continued)

Col #	Var name	Col #	Var name	Col #	Var name	Col #	Var name	Col #	Var name
266	INCP	2247	ODOR	101	SAMEHH	2322	SYRND1	1976	WTIME1
409	INCS	89	OFFICE	2260	SCH	617	TEN	1016	XACOND
1131	INSPMT	1001	OTH6	2262	SCHCLS	607	TENURE	1021	XACOST
1122	INT	174	OTHCLD	2261	SCHM	1107	TERM	1019	XAHEAD
550	INV2OK	314	OTHFIX	2256	SCHNO	1973	TIMEJ1	1010	XAINUS
63	ISTATUS	1005	OTHN	2257	SCHOTH	354	TIMSHR	1017	XAPER
2244	JUNK	194	OTHNHD	2258	SCHPRI	93	TOILET	1020	XAREL
84	KITCH	1132	OTHPMT	2259	SCHPUB	584	TPARK	1015	XATEN
1895	KITCHEN	87	OTHRMS	150	SCOAL	37	TRACT	1014	XAUNIT
410	LANPMT	1003	OTHT	2297	SECADD	1968	TRAN1	1011	XAZON
100	LEAK	105	OTLEAK	2289	SECOND	2251	TRN	242	XHRATE
190	LITTER	128	OVEN	161	SELECT	477	TRUCKS	2850	XLINE1
85	LIVING	2819	OVER	1139	SELL	92	TUB	1929	XLOC
2866	LKLN51	557	OWNHERE	119	SEWDIS	604	TYPE	241	XNRATE
1203	LDGE1	367	OWNLOT	120	SEWDUS	558	UNITSF	24	YEAR
13	LONGIT	615	PAR	620	SEX	2252	USETRN	1109	YRMOR
229	LOOKHS	1971	PASS1	163	SFLIN	1915	USFCAM	250	YRRND
217	LOOKNS	1891	PER	164	SFLOT	1914	USFCHG	1928	ZADEQ
1148	LOON	61	PERSINT	168	SFRPL	1914	USFCHG	1933	ZADULT
341	LOTSF	610	PHONE	167	SFRPLI	246	VACANCY	1897	ZINC
332	LPRICE	108	PILEAK	147	SGAS	1913	VACVAC	1904	ZINC2
414	LRENT	1113	PINCOP	352	SHOPS	361	VALUE	1903	ZINCA
565	LTSOK	2857	PLC161	169	SHOTH	1147	VARM	1910	ZINCB
369	LVALUE	2862	PLCN51	2253	SHP	1140	VARY	1931	ZINCH
623	MAR	107	PLEAK	2254	SHPCLS	1970	VEHCL1	1935	ZINCN
351	MARKET	611	PLINE	160	SHPMP	539	VOTHER	33	ZONE
1099	MATBUY	97	PLUGS	2343	SINH1	134	WASH	1923	ZSMHC
1115	MCOM	1896	PLUMB	91	SINK	135	WASH5	1932	ZSPEC
545	MEASU1	20	PMSA	2344	SINV1	115	WATER		
562	MEASUR	1126	PMT	146	SJUICE	48	WEIGHT		
15	METRO	385	PMT3	149	SKERO	116	WELDUS		
36	METRO	398	POOR	538	SLEVEL	117	WELL		
1114	MFARM	176	PORCH	2302	SLIN11	111	WFUEL		
530	MHEX	347	PRENT	2304	SLIN21	231	WHDSN		
262	MHOTFE	267	PROJ	2306	SLIN31	234	WHEXT		
253	MHSTAY	118	PUBSEW	2308	SLIN41	230	WHFIN		
2848	MOCALL	355	PVALUE	2338	SMORT1	232	WHKIT		
248	MOPERM	41	PWT	20	SMSA	237	WHNRCV		
376	MORT	2820	QAFDC	16	SMSA	237	WHONE		
1137	MORTINS	536	QALIM	2339	SNITE1	238	WHOTH		
244	MOVAC	548	QBINV	154	SNO	236	WHQUL		
628	MOVED	529	QBUS	170	SNONE	2861	WHRN51		
631	MOVMI	530	QFARM	148	SOIL	233	WHSIZ		
635	MVG1	2823	QFS	2348	SOTH1	175	WHYCLD		
2290	NADDUS	546	QFS1	153	SOTHER	210	WHYMOVE		
37	NEIGH	2822	QGAPA	622	SPAN	235	WHYRD		
279	NEWADD	532	QINT	2325	SPCT1	239	WHYTOH		
289	NEWBTH	549	QQINV	162	SPLF	227	WHYTON		
310	NEWICST	537	QOTHER	165	SPORTH	1964	WINUS1		
309	NEWIN	533	QRENT	624	SPOS	1965	WKSTZ1		
284	NEWKIT	547	QSAVNG	2345	SREC1	104	WLEAK		
304	NEWMEQ	531	QSS	2320	SRSRT1	1961	WLINE1		
1100	NEWMOR	2821	QSSI	2346	SSEL1	207	WMCHEP		
273	NEWROF	535	QUNEMP	2324	SSHRD1	206	WMCHTN		
299	NEWSOW	534	QWELF	2299	SSTAT1	199	WMCLOS		
294	NEWSID	621	RACE	159	SSTEAM	213	WMCNDO		
2250	NEWTRN	55	RACE70	166	SSTOVE	197	WMDISL		
2817	NHBILL	570	RAILOK	152	SSUN	204	WMFAML		
109	NLEAK	180	RATS	2855	ST161	200	WMFEMP		
64	NOINT	271	RCNTRL	28	STATE	215	WMGOVP		
188	NOISE	394	REBAMT	66	STATUA	196	WMGOVT		
2246	NONRES	393	REBATE	606	STATUS	208	WMHOUS		
186	NOPROB	123	REFR	2860	STAY51	198	WMJOBS		
90	NOTHRM	124	REFR5	2852	STBRN1	202	WMLARG		
96	NOWIRE	14	REGION	2864	STIN51	203	WMMARR		
185	NPROBS	613	REL	2241	STRN	216	WMNFIT		
1201	NRLIN1	255	RENT	2321	STYPE1	201	WMONHH		
374	NROWN	1206	RENT1	268	SUB	209	WMOTHR		
375	NRPAYM	1116	RESMOR	636	SUBF	212	WMOWNR		
187	NUCRIM	102	RLEAK	319	SUBFIX	195	WMPRIV		
142	NUMAIR	1921	RMR	270	SUBINC	205	WMQUAL		
99	NUMBLOW	1922	RMYEAR	269	SUBLOC	214	WMREPR		
173	NUMCOLD	272	RNTADJ	377	SUBMOR	220	WNFUN		
114	NUMDRY	2242	ROAD	2311	SUNIT1	225	WNHOME		
378	NUMMOR	1893	ROOMS	2319	SURB1	218	WNJOB		
122	NUMSEW	35	RURREC	2310	SURE1	224	WNLOOK		
95	NUMTLT	2323	S150M1	2330	SVAL1	226	WNOTHR		
75	NUNIT2	158	SAFUR	2328	SWKS1	219	WNPEPL		
72	NUNITS	1273	SAL1	151	SWOOD	222	WNSCH		
189	NUTRAF	62	SAMEDU	2347	SXURE1	223	WNSRV		
						221	WNTRAN		
						2828	WRHTAS		



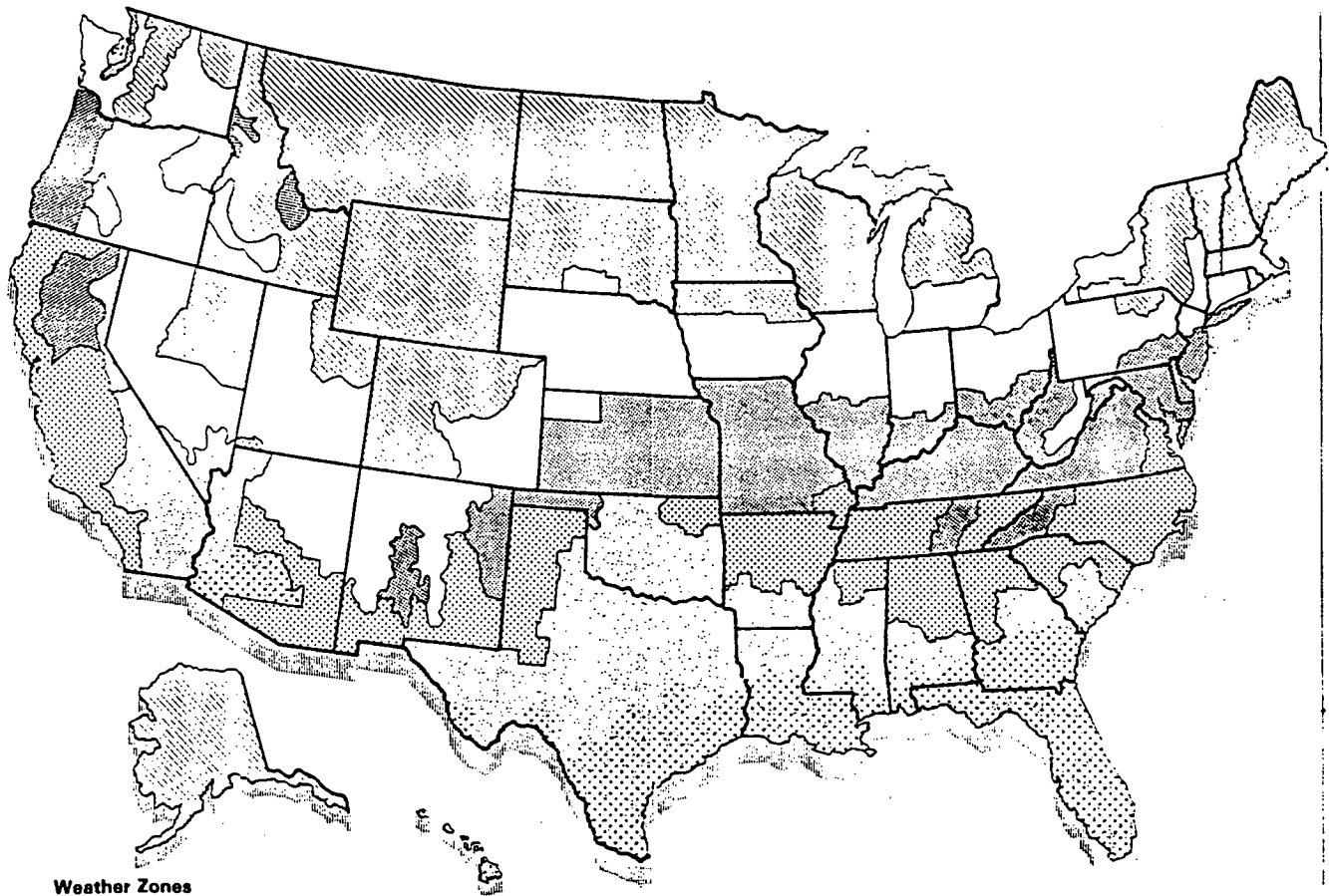
Data on geography describe where each home is (which of the 4 Census regions, sometimes which metro area, and on the metropolitan files sometimes state, county, and city). From 1985 on, the national files also show climate severity to help analyze utility costs. A map is provided on the next page. The data also describe the type of surroundings (e.g. central city/ suburb/ urbanized/ rural/ farm, and up through 1983 place size).

On the 1974N-83N national files, normally you must only use cases where the variable RURREC equals 1. These form the 'basic national sample.' Add cases where RURREC=2 only for the specialized purpose of analyzing all rural areas (codes 2-5 in URBAN), since these RURREC=2 cases double-count certain rural units in metro areas whose rural code is suppressed (URBAN=9) in the 'basic national sample.' (From 1985N on, the RURREC codes are different, and you should NOT exclude cases with RURREC=2. You may exclude neighbor cases, where RURREC=3, to save computer processing time, but you do not need to do so in weighted analyses, since neighbor cases have zero in the variables WEIGHT and PWT, so they will not affect your results.)







Users should be aware that changes in some geographic boundaries and coding conventions have occurred between 1983 and 1984. These changes are documented in the listing for each variable in this section. The variables REGION, STATE, COUNTY, LOT (size) and CROPSL (to identify farms) are consistent from 1973-1993. More counties are identified on the metropolitan files from 1984 on.

The variables SMSA, ZMETRO, METRO and URBAN 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, and 1980 populations (except on 84S-93S metropolitan surveys METRO is still based on 1971 boundaries).

An important change is the introduction of new codes in the variable METRO on the 1985N-93N national files that distinguish between urbanized and non-urbanized areas. For some purposes, comparing urbanized and non-urbanized areas may be preferable to comparing 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



**Weather Zones**

-  Zone 1 needs a lot of heat (7,000+ heating degree days/year) and modest air conditioning (0-2,000 cooling degree days/year)
-  Zone 2 needs much heat (5,500-7,000 heating degree days) and modest air conditioning (0-2,000 cooling degree days)
-  Zone 3 needs moderate heat (4,000-5,500 heating degree days) and modest air conditioning (0-2,000 cooling degree days)
-  Zone 4 needs some or little heat (0-4,000 heating degree days) and modest air conditioning (0-2,000 cooling degree days)
-  Zone 5 needs some heat (2,000-4,000 heating degree days) and strong air conditioning (2,000+ cooling degree days)
-  Zone 6 needs little heat (0-2,000 heating degree days) and strong air conditioning (2,000+ cooling degree days)

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

The regions include the following states:

Northeast Region  
 Connecticut  
 Maine  
 Massachusetts  
 New Hampshire  
 Rhode Island  
 Vermont  
 New Jersey  
 New York  
 Pennsylvania

South Region  
 Delaware  
 District of Columbia  
 Florida  
 Georgia  
 Maryland  
 North Carolina  
 South Carolina  
 Virginia  
 West Virginia  
 Alabama  
 Kentucky  
 Mississippi  
 Tennessee  
 Arkansas  
 Louisiana  
 Oklahoma  
 Texas

West Region  
 Arizona  
 Colorado  
 Idaho  
 Montana  
 Nevada  
 New Mexico  
 Utah  
 Wyoming  
 Alaska  
 California  
 Hawaii  
 Oregon  
 Washington

(Midwest)  
 Illinois  
 Indiana  
 Michigan  
 Ohio  
 Wisconsin  
 Iowa  
 Kansas  
 Minnesota  
 Missouri  
 Nebraska  
 North Dakota  
 South Dakota

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 national data.

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 people per acre. "Other urban" means places outside an urbanized area that have more than 2,500 people. Housing units not classified as urbanized or other urban are defined as rural housing.

Identification of MSAs and Central Cities in the AHS files--Up through 1983N, SMSAs were identified in the AHS National data files if the SMSA population exceeded 250,000 people. 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 people.

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 central city cases. Similarly if the urbanized suburbs in a metropolitan area have over 100,000 people, then metropolitan area is identified for urbanized suburbs. 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) for a comparison of the geographic variables on national files before and after 1984.

See Table 4 on pages 15-23 of this section for a comparison of the geographic variables on Metropolitan files.

Starting in 1984, the AHS uses the terms 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 area is a county or group of counties of 50,000 people 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 a metro area according to commuting patterns. In New England, states, metro areas 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 people. 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 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--Up through 1983, 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 value of the mid-point of the range 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 before 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 before 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.

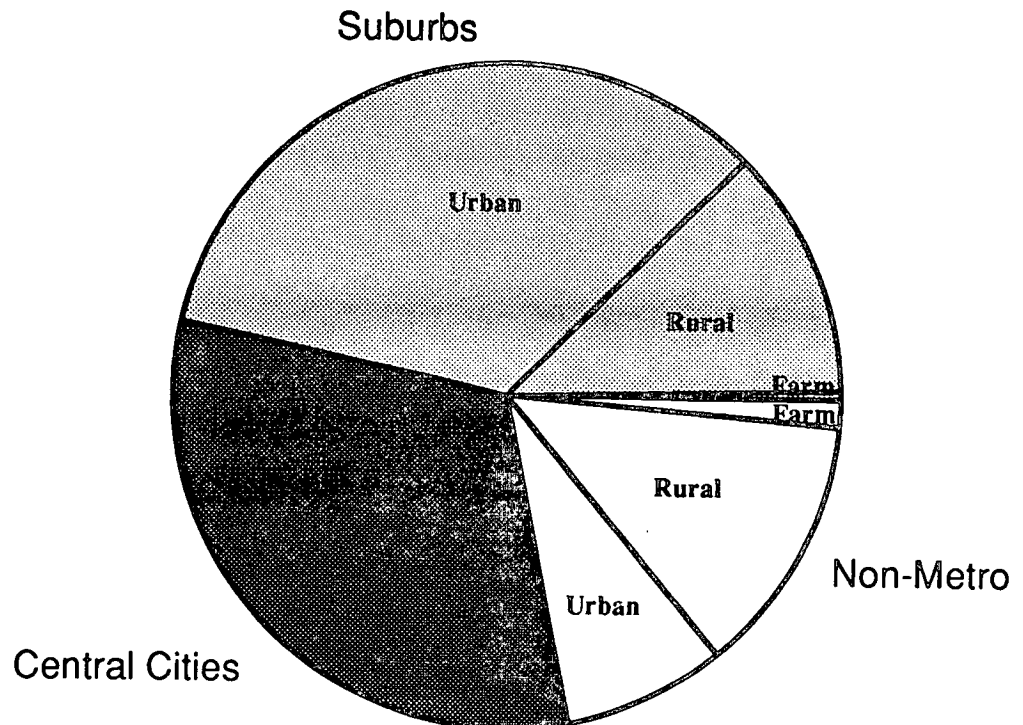
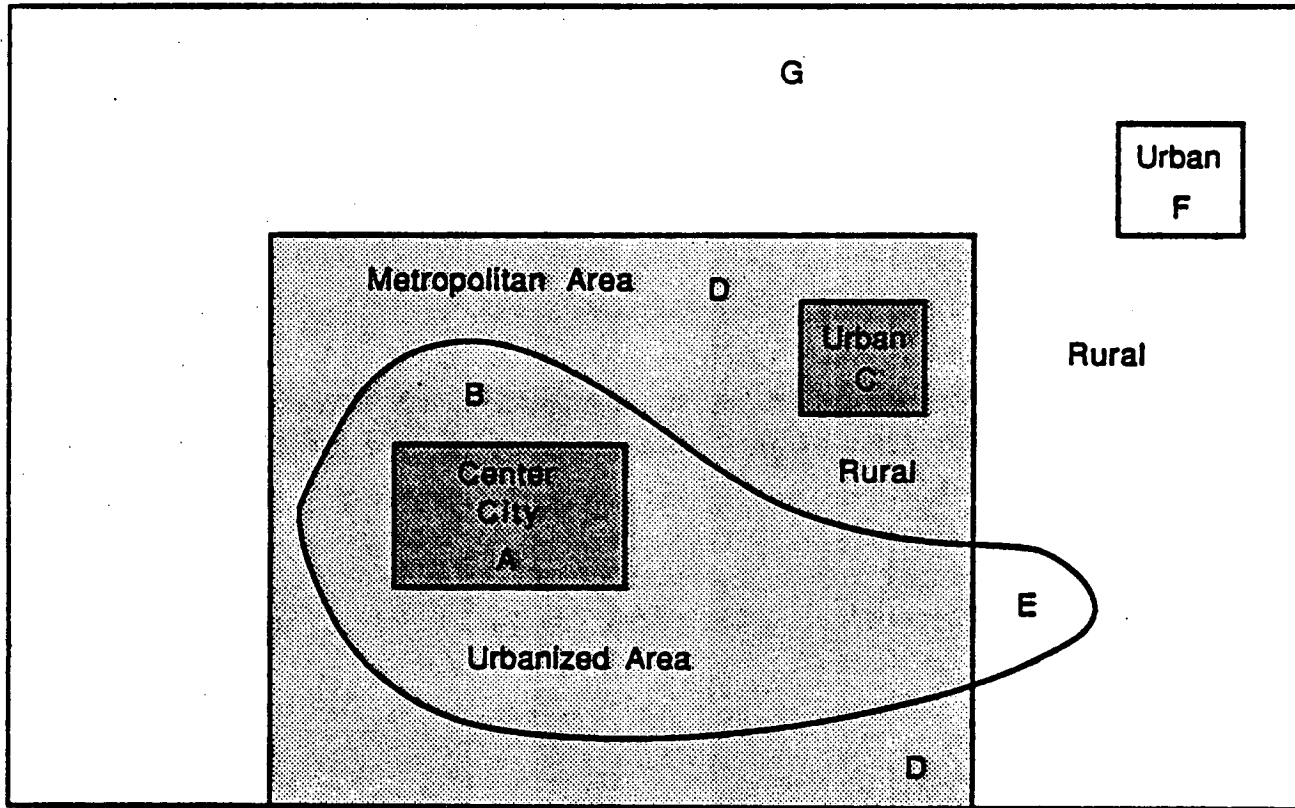


Figure 1: COMPARISON OF NATIONAL GEOGRAPHIC VARIABLES

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

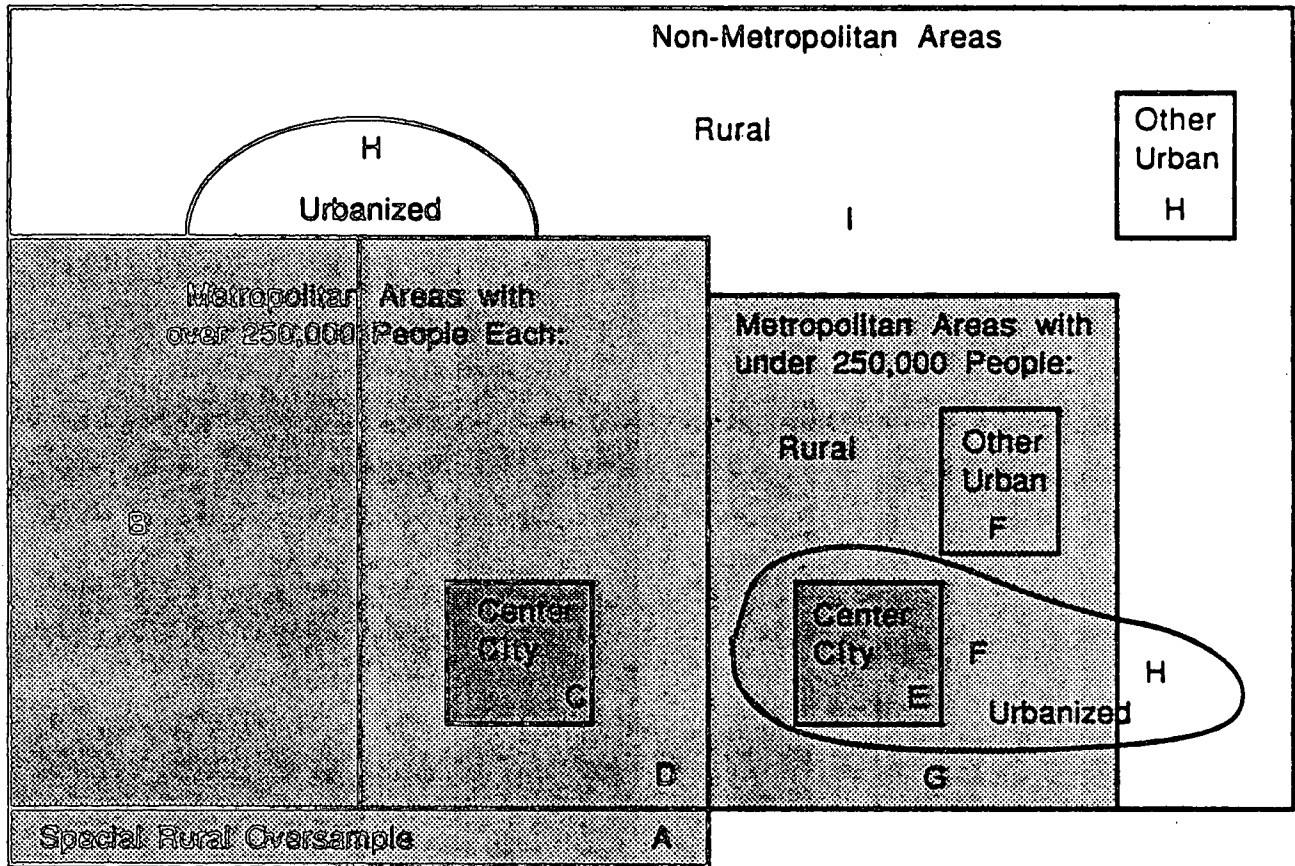


		METRO	SMSA	
CENTER CITIES	A	1	XXXX	The 4-digit numeric Code is given on central city cases as long as central cities total over 100,000 people.
			9999	Otherwise
SUBURBS				
Urbanized Areas	B	2	XXXX	The 4-digit numeric Code is given on urbanized suburb cases as long as urbanized suburbs total over 100,000 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
Area where Each has over 250,000 People						
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	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.





Variables that identify these areas: NAMES OF AREAS	COUNTY										NUMBER OF CASES			
	S M		P M		T A		to83 84+		Z O		FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
	S A	M A	T A	E	METRO to83	N 84+	E							
Baltimore, MD MSA											(76)	(79)	(83)	(87)
Baltimore City	720	720	24	510	510	1	1	001-006	2,092	2,027	1,626	1,182		
Baltimore County	720	720	24	5	5	3	7	102-106	1,573	1,641	1,307	978		
Anne Arundel, Carroll, Harford, Howard Counties	720		24	999				3	1,605	1,768	1,354	Below		
Carroll & Howard Cos.	720	720	24		964	7	101,108	Above	Above	Above	355			
Harford County	720	720	24		25	7	107	Above	Above	Above	215			
Anne Arundel & Queen Anne's Cos.	720	720	24		965	7	109-111	Partly	Partly	Partly	587			
We publish: Baltimore City & Co, Anne Arundel Co.														
Birmingham, AL MSA									(76)	(80)	(84)	(88)		
Birmingham in Jefferson County	1000	1000	1	999	73	1	1	1-2	2,037	2,028	1,508	1,295		
Balance Jefferson County; Shelby, Walker Counties	1000		1	999				3	3,198	3,380	Below	Below		
Balance Jefferson County	1000	1000	1		73	7	101-103	Above	Above	1,702	1,567			
Blount, St. Clair, Shelby, Walker Counties	1000	1000	1		993	7	104	Partly	Partly	974	912			
We publish: Birmingham, bal. Jefferson Co, Walker Co.														
Boston-Lawrence-Lowell, MA-NH CMSA									(74)	(77)	(81)	(85)		
Boston in Suffolk County	1120	9998	25*	25	999	1	1	001-005	15,970	15,245	5,701	4,017		
Balance Suffolk Co; parts of Essex, Middlesex, Norfolk, & Plymouth Cos.	1120		25	999				3	7,983	7,552	2,757	724		
Balance Suffolk Co, MA; Essex Co; parts of Bristol, Middlesex, Norfolk, Plymouth, Worcester Cos, MA; parts of Hillsborough, Rockingham Cos, NH; see map in publication	1120	9998	99		999	7	101-126	Partly	Partly	Partly	3,293			
* State code is 99 from 1985 on.														
We publish: Boston, Cambridge, Brockton														
Buffalo, NY CMSA									(76)	(79)	(84)	(88)		
Buffalo in Erie County	1280	1280	36	999	29	1	1	001-003	5,287	5,240	4,267	3,800		
Balance Erie Co; Niagara Co.	1280		36	999				3	1,871	1,766	1,501	1,276		
Balance Erie County	1280	1280	36		29	7	103-107	Above	Above	2,021	1,853			
Niagara County	1280	5700	36		63	7	101-102	Above	Above	745	671			
We publish: Buffalo, bal. Erie Co, Niagara Falls														
Chicago, IL									(75)	(79)	(83)	(87)		
Chicago in Cook County	1600	1600	17	31	31	1	1	001-022	15,494	16,256	8,570	3,388		
Balance Cook County	1600	1600	17	31	31	3	7	106-108	7,700	7,508	4,036	1,499		
								110-114	4,581	4,932	2,555	996		
								121-125						
								128-132						
Du Page County	1600	1600	17	43	43	3	7	115-116	1,076	1,359	708	347		
								118-120						
								126						
Kane County	1600	9999	17	89	89	3	7	109,117	555	614	305	121		
Lake County	1600	3965	17	97	97	3	7	102-105	761	880	467	186		
McHenry & Will Counties	1600		17	999				3	821	963	499	Below		
McHenry Co.	1600	1600	17		111	7	101	Above	Above	Above	79			
Grundy, Kendall & Will Cos.	1600	9999	17		963	7	127	Partly	Partly	Partly	160			
Note: part of Chicago, O'Hare Airport, is in Du Page County; no one lives there, so it is not shown separately here.								133-134						
We publish: Chicago, bal. Cook Co, DuPage Co.														
Cincinnati, Oh-KY-IN									(75)	(78)	(82)	(86)		
Cincinnati in Hamilton Co; OH	1640	1640	39	999	61	1	1	001-004	5,129	5,423	4,228	3,303		
Balance Hamilton Co; Clermont, Warren Counties, OH	1640		39	999				3	1,798	1,773	1,332	1,105		
Dearborn Co, IN; Boone, Campbell, Kenton Counties, KY	1640	1640	88	999	978	3	7	107-108	2,247	2,497	1,978	Below		
Balance Hamilton County	1640	1640	39		61	7	101-104	1,084	1,153	918	708			
Clermont & Warren Counties, OH	1640	1640	39		979	7	105-106	Above	Above	Above	1,000			
We publish: Cincinnati, bal. Hamilton Co, Kenton Co.									Above	Above	Above	490		

Variables that identify these areas: NAMES OF AREAS	S P T COUNTY Z										NUMBER OF CASES			
	M		M		A		to83 84+		METRO N		FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
	S	A	S	A	T	E	to83	84+	E	O				
											(76)	(79)	(84)	(88)
Cleveland, OH											5,229	5,215	4,203	3,744
Cleveland in Cuyahoga County	1680	1680	39	35	35	1	1	001-005			1,895	1,751	1,447	1,205
Balance Cuyahoga County	1680	1680	39	35	35	3	7	101-108			2,457	2,498	1,988	1,816
Geauga, Lake, and Medina Cos.	1680		39	999	992	3	7	109-111			877	966	768	723
We publish: Cleveland, bal. Cuyahoga Co, Lake Co.														
											(75)	(78)		
Colorado Springs, CO											5,204	5,477		
El Paso Co. incl. Colorado Springs	1720			8	999		9				5,204	5,477		
											(75)	(78)	(82)	(87)
Columbus, OH											5,213	5,476	4,250	3,285
Columbus in Franklin County	1840	1840	39	999	962	1	1	001-004			3,252	3,290	2,505	1,611
Balance Franklin County	1840		39	999			3				1,961	2,186	1,745	Below
Delaware, Franklin & Pickaway Cos.	1840	1840	39		962		7	101			Partly	Partly	Partly	1,060
								103-104						
Fairfield & Madison Cos.	1840	1840	39		961		7	105			NA	NA	NA	273
Licking & Union Cos.	1840	1840	39		960		7	102			NA	NA	NA	341
We publish: Columbus, Franklin & Licking Cos.														
											(74)	(77)	(81)	(85)
Dallas, TX											5,135	5,166	4,802	3,276
Dallas City in Dallas County	1920	1920	48	999	113	1	1	1-7, 99			2,838	2,734	2,416	1,538
Irving in Dallas County	1920	1920	48	999	113	3	2	008			Below	Below	Below	161
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		7	103-106			Above	Above	Above	938
Collin County	1920	1920	48		85		7	102			Above	Above	Above	232
Denton County	1920	1920	48		121		7	101			Above	Above	Above	254
Ellis, Kaufman & Rockwell Cos.	1920	1920	48		987		7	107			Above	Above	Above	153
We publish: Dallas City, bal. Dallas Co, Collin Co.														
											(76)	(79)	(83)	(86)
Denver, CO											5,318	5,891	4,304	3,233
Denver City/County	2080	2080	8	31	31	1	1	001-004			2,069	2,092	1,477	1,033
Adams & Arapahoe Counties	2080		8	777			3				1,521	1,835	1,393	Below
Boulder & Jefferson Counties	2080		8	888			3				1,728	1,964	1,434	Below
Adams County	2080	2080	8		1		7	103			Above	Above	Above	405
Arapahoe County	2080	2080	8		5		7	104			Above	Above	Above	666
Boulder County	2080	1125	8		13		7	105			Above	Above	Above	339
Douglas & Jefferson Counties	2080	2080	8		977		7	101-102			Partly	Partly	Partly	790
We publish: Denver, Jefferson & Arapahoe Cos.														
											(74)	(77)	(81)	(85)
Detroit, MI											15,273	14,286	5,299	6,516
Detroit in Wayne County	2160	2160	26	163	163	1	1	001-007			7,626	6,767	2,386	2,127
Balance Wayne County	2160	2160	26	163	163	3	7	112-119			3,207	3,038	1,144	1,478
Macomb County	2160	2160	26	99	99	3	7	109-111			1,702	1,715	669	865
Oakland County	2160	2160	26	125	125	3	7	103-108			2,738	2,766	1,100	1,496
Livingston County	2160	2160	26		93		7	102			NA	NA	NA	133
Monroe County	2160	2160	26		115		7	120			NA	NA	NA	159
Lapeer & St. Clair Counties	2160	2160	26		986		7	101			NA	NA	NA	258
We publish: Detroit, bal. Wayne Co, Oakland Co.														
											(74)	(77)	(81)	(85)
Ft. Worth-Arlington, TX PMSA											5,311	5,443	5,137	3,218
Ft. Worth in Tarrant County	2800	2800	48	999	985	1	1	1-3, 99			2,670	2,556	2,179	1,202
Balance Tarrant Co; Johnson Co.	2800		48	999			3				2,641	2,887	2,958	Below
Arlington in Tarrant County	2800	2800	48		985		1	004			Above	Above	Above	325
Bal. Tarrant Co; Johnson+Parker Cos.	2800	2800	48		985		7	101-102			Partly	Partly	Partly	1,691
We publish: Ft. Worth, Arlington, bal. Tarrant Co.														
											(76)	(80)		
Grand Rapids, MI											5,145	5,441		
Ken County incl. Grand Rapids; Ottawa County	3000		26	999			9				5,145	5,441		

NAMES OF AREAS	S M P T A A E				COUNTY to83 84+		Z N E	NUMBER OF CASES			
					METRO			FIRST	SECOND	THIRD	FOURTH
					to83	84+		WAVE	WAVE	WAVE	WAVE
Hartford, CT								(75)	(79)	(83)	(87)
Hartford County incl. Hartford City; 3280 parts of Middlesex, Tolland Cos.			9	999		9		5,248	5,494	4,287	3,381
Hartford City in Hartford County	3280	9999	9		959	1	001	Above	Above	Above	561
Balance Hartford County, parts of Litchfield, Middlesex, New London, Tolland Cos; see map in publication	3280	9999	9		959	7	101-106	Partly	Partly	Partly	2,820
We publish: Hartford, New Britain, Bristol											
Honolulu, HI								(76)	(79)	(83)	
Honolulu City in Honolulu County	3320		15	999		1		5,047	5,155	4,274	
Balance Honolulu County (Oahu Is.)	3320		15	999		3		2,717	2,748	2,150	
								2,330	2,407	2,124	
Houston, TX								(76)	(79)	(83)	(87)
Houston in Harris County	3360	3360	48	999	958	1	1 001-010	17,383	19,360	4,165	3,085
Balance Harris Co, Brazoria, Fort, Bend, Liberty, Montgomery Cos.	3360		48	999		3		7,905	8,375	2,329	1,690
Brazoria County	3360	1145	48		39	7	106	9,478	10,985	1,836	Below
Balance Harris Co, Fort Bend, Liberty, Montgomery, Walker Cos.	3360	3360	48		958	7	101-105	Above	Above	Above	127
We publish: Houston, bal. Harris Co, Brazoria Co.								Partly	Partly	Partly	1,268
Indianapolis, IN								(76)	(80)	(84)	(88)
Indianapolis in Marion County	3480	3480	18	997	997	1	1 001-005	5,224	5,363	4,128	3,901
Balance Marion County; Boone, Hamilton, Hancock, Hendricks, Johnson, Morgan, & Shelby Cos.	3480		18	999		3		3,479	3,489	2,728	2,574
Boone+Hendricks Cos.+part of Marion	3480	3480	18		996	7	101	1,745	1,874	Below	Below
Hamilton+Hancock Cos.+pt.of Marion	3480	3480	18		995	7	102	Above	Above	348	334
Balance Marion Co; Johnson, Morgan, Shelby Counties	3480	3480	18		994	7	103	Above	Above	426	415
We publish: Indianapolis, Hamilton & Johnson Cos.								Above	Above	626	578
Kansas City, MO-KS								(75)	(78)	(82)	(86)
Kansas City in Clay, Jackson & Platte Counties, MO	3760		29	999		1		5,146	5,374	4,085	3,411
Balance Clay, Jackson, Platte Cos; Cass Co, MO	3760		29	999		3		2,186	2,136	1,563	Below
Johnson, Wyandotte Counties, KS	3760		20	999		3		1,420	1,563	1,218	Below
Balance Jackson Co, MO	3760	3760	29		95	7	102-103	1,540	1,675	1,304	Below
Kansas City in Jackson County, MO	3760	3760	29		95	1	1-2	Above	Above	Above	525
Kansas City in Clay+Platte Cos, MO	3760	3760	29		976	1	3	Above	Above	Above	1,023
Balance Clay & Platte Cos; Cass, Lafayette, Ray Cos, MO	3760	3760	29		976	7	101	Above	Above	Above	202
Johnson, Leavenworth, Miami & Wyandotte Cos, KS	3760	3760	20		975	7	104-106	Partly	Partly	Partly	452
We publish: Kansas City MO & KS, bal. Jackson Co.								Partly	Partly	Partly	1,209
Las Vegas, NV								(76)	(79)		
Clark Co, incl. Las Vegas	4120		32	999		9		5,400	6,983		
								5,400	6,983		
Los Angeles-Long Beach, CA								(74)	(77)	(80)	(85)
Los Angeles City in Los Angeles Co.	4480	4480	6	37	37	1	1 001-020	15,561	14,538	14,918	6,572
Long Beach in Los Angeles County	4480	4480	6	37	37	2	2 021-023	6,818	6,370	6,537	2,703
Balance Los Angeles County	4480	4480	6	37	37	3	7 101-121	967	889	903	372
Pasadena in Los Angeles Co.	4480	4480	6		37	4	012	7,776	7,279	7,478	3,241
Burbank & Pomona Cities in LA Co.	4480	4480	6		37	7	009	Above	Above	Above	109
We publish: Los Angeles City, Long Beach, bal. LA Co.								Above	Above	Above	147
Louisville, KY-IN								(76)	(80)	(83)	
Louisville in Jefferson Co, KY	4520		99	999		1		5,258	5,352	4,276	
Balance Jefferson Co, KY; Clark & Floyd Counties, IN	4520		99	999		3		2,276	2,203	1,779	
								2,982	3,149	2,497	

Variables that identify these areas: NAMES OF AREAS	S P T COUNTY Z										NUMBER OF CASES				
	M M A to83 84+ O										FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE	
	S A	S A	T E	METRO to83 84+			N E								
Madison, WI											(75)	(77)	(81)		
Dane County incl. Madison	4720		55	999		9					5,394	5,258	4,604		
Memphis, TN-AR											(74)	(77)	(80)	(84)	(88)
Shelby Co. incl. Memphis, TN;	4920		99	999		9					4,462	4,936	5,452	4,311	4,123
Crittenden County, AR											4,462	4,936	5,452	Below	Below
Memphis in Shelby County, TN	4920	4920	99		999	1	001-005				Above	Above	Above	2,827	2,499
Balance Shelby Co.; Tipton Co, TN;	4920	4920	99		999	7	101				Partly	Partly	Partly	1,484	1,624
Crittenden Co, AR; DeSoto Co, MS															
We publish: Memphis, Bal. Shelby Co, DeSoto Co.															
Miami-Fort Lauderdale, FL CMSA											(75)	(79)	(83)	(86)	
Miami in Dade County	5000	5000	12	999	25	1	1	001-003			5,010	5,575	4,258	3,222	
Balance Dade County	5000	5000	12	25	25	3	7	101-108			1,215	1,243	915	432	
Fort Lauderdale in Broward Co.	5000	2680	12		11	2	004				3,795	4,332	3,343	1,523	
Hollywood in Broward Co.	5000	2680	12		11	3	005				NA	NA	NA	203	
Balance Broward County	5000	2680	12		11	7	109				NA	NA	NA	136	
We publish: Miami, bal. Dade Co, Ft. Lauderdale											NA	NA	NA	928	
Milwaukee, WI											(75)	(79)	(84)	(88)	
Milwaukee City in Milwaukee County	5080	5080	55	79	79	1	1	001-006			5,235	5,541	4,222	3,839	
Balance Milwaukee County	5080	5080	55	79	79	3	7	101,102			2,709	2,712	2,144	1,887	
Ozaukee, Washington, Waukesha Cos.	5080		55	999		3					1,218	1,301	959	887	
Waukesha County	5080	5080	55		133	7	104				1,308	1,528	Below	Below	
Washington & Ozaukee Cos.	5080	5080	55		991	7	103				Above	Above	708	696	
We publish: Milwaukee City, bal. Milwaukee Co, Waukesha Co.											Above	Above	411	369	
Minneapolis-St. Paul, MI											(74)	(77)	(81)	(85)	
Minneapolis in Hennepin County	5120	5120	27	53	53	1	1	001-003			5,040	4,827	4,330	3,762	
Balance Hennepin County	5120	5120	27	53	53	3	7	101-104			1,357	1,194	989	826	
St. Paul in Ramsey County	5120	5120	27	999	123	2	2	004-005			1,338	1,363	1,254	920	
Balance Ramsey County; Anoka,	5120		27	999		3					909	799	671	559	
Dakota, Washington Cos.											1,436	1,471	1,416	Below	
Balance Ramsey County	5120	5120	27		123	7	105				Above	Above	Above	312	
Anoka Co, MN	5120	5120	27		3	7	106				Above	Above	Above	353	
Dakota Co, MN	5120	5120	27		37	7	107				Above	Above	Above	325	
Washington Co, MN	5120	5120	27		163	7	108				Above	Above	Above	137	
Carver, Chisago, Isanti, Scott,	5120	5120	99		984	7	109				Above	Above	Above	137	
Wright Cos, MN; St. Croix Co, WI											NA	NA	NA	330	
We publish: Minneapolis, St. Paul, Bal. Hennepin Co.															
New Orleans, LA											(75)	(78)	(82)	(86)	
New Orleans in Orleans Parish	5560		22	71		1					5,168	5,550	4,281	3,319	
Balance Orleans Parish; Jefferson,	5560		22	999		3					2,769	2,762	2,059	Below	
St. Bernard, Tammany Parishes											2,399	2,788	2,222	Below	
Orleans Parish	5560	5560	22		71	1	001-005				Above	Above	Above	1,520	
St. Tammany Parish	5560	5560	22		103	7	101				Above	Above	Above	313	
Jefferson, St. Bernard, St. Charles,	5560	5560	22		974	7	102-104				Partly	Partly	Partly	1,486	
St. John the Baptist Parishes															
We publish: New Orleans, Jefferson & St. Tammany Parishes															
New York-Nassau-Suffolk, NY PMSAs											(76)	(80)	(83)	(87)	
Bronx County in New York City	5600	9999	36	5	5	1	1	001-010			16,137	14,823	8,573	3,380	
Kings Co. (Brooklyn) in NYC	5600	9999	36	47	47	1	1	035-052			1,389	1,243	994	349	
New York Co. (Manhattan) in NYC	5600	9999	36	61	61	1	1	011-020			2,387	2,159	1,759	651	
Queens County in New York City	5600	9999	36	81	81	1	1	021-034			2,013	1,833	1,522	572	
Richmond County (Staten Is.) NYC	5600	9999	36	85	85	1	1	053-055			1,892	1,681	1,402	533	
Nassau County	5600	5380	36	59	59	3	7	107-118			272	262	217	106	
Suffolk County	5600	5380	36	103	103	3	7	119-128			2,833	2,616	922	349	
Rockland & Westchester Counties	5600		36	999		3					2,727	2,633	936	395	
Rockland County	5600	9999	36		87	7	102				2,624	2,396	821	Below	
Westchester County	5600	9999	36		119	7	103-106				Above	Above	Above	58	
Orange & Putnam Cos.	5600	9999	36	999	958	3	7	101			Above	Above	Above	262	
We publish: New York, Nassau & Suffolk Cos.											NA	NA	NA	105	

NAMES OF AREAS	Variables that identify these areas:										NUMBER OF CASES						
	S		P		T		COUNTY		Z		FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE			
	M	S	M	S	A	T	to83	84+	METRO	N							
Newark, NJ--Northeastern NJ											(74)	(77)	(81)	(87)			
Newark in Essex County	5640	5640	34	13	13	1	1	001-003	1,006	928	723	214					
Balance Essex County	5640	5640	34	13	13	3	7	116-120	1,581	1,511	1,218	307					
Morris County	5640	5640	34	27	27	3	7	102-105	1,046	1,042	902	246					
Union County	5640	5640	34	39	39	3	7	121-124	1,467	1,338	1,103	273					
Paterson in Passaic Co.	5640	0875	34	31	31	1	3	005	**	**	**	73					
Balance Passaic County	5640	0875	34	31	31	3	7	106-107	**	**	**	205					
Bergen Co.	5640	0875	34	3	3	3	7	108-113	**	**	**	480					
Sussex Co.	5640	5640	34					101	NA	NA	NA	71					
Jersey City in Hudson Co.	5640	3640	34					004	NA	NA	NA	155					
Balance Hudson County	5640	3640	34					114-115	NA	NA	NA	227					
Middlesex Co.	5640	5015	34					126-129	NA	NA	NA	352					
Hunterdon & Somerset Cos.	5640	5015	34					125	NA	NA	NA	169					
Monmouth Co.	5640	5190	34					130-133	NA	NA	NA	304					
Ocean Co.	5640	5190	34					134-135	NA	NA	NA	292					
** Formerly included in the Paterson area.																	
We publish: Newark, Bergen & Middlesex Cos.																	
Norfolk-VA Beach-Newport News, VA MSA											(75)	(78)	(84)	(88)			
Hampton, Newport News Cities; York County	5680		51	999				9	4,597	4,615	4,323	4,321					
Newport News City	5680	5720	51					700	1 003	Above	Above	540	549				
Hampton, James, Poquoson, Williamsburg Cities; Gloucester, York Cos.	5680	5720	51					990	7 102	Partly	Partly	799	374				
Norfolk City	5680	5720	51					710	1 001	NA	NA	996	863				
Virginia Beach City	5680	5720	51					810	1 002	NA	NA	1,068	1,167				
Portsmouth City	5680	5720	51					740	1 004	NA	NA	380	347				
Chesapeake & Suffolk Cities	5680	5720	51					989	7 101	NA	NA	540	1,021				
We publish: Norfolk, Virginia Beach, Newport News																	
Oklahoma City, OK											(76)	(80)	(84)	(88)			
Oklahoma City in Oklahoma, Canadian & Cleveland Counties	5880	5880	40	999	988	1	1	001-003	3,109	3,208	2,315	2,062					
Balance Oklahoma, Canadian & Cleveland Counties	5880		40	999				3		2,219	2,490	Below	Below				
Balance Oklahoma, Canadian & Cleveland Counties; Logan, McClain & Pottawatomie Cos.	5880	5880	40		988			7	101-103	Partly	Partly	2,182	1,949				
We publish: Oklahoma City, bal. Oklahoma & Cleveland Cos.																	
Omaha, NB											(76)	(79)					
Douglas Co. incl. Omaha; Pottawattamie & Sarpy Cos.	5920		99	999				9		5,218	5,323						
Orlando, FL											(74)	(77)	(81)				
Orange County incl. Orlando; Seminole County	5960		12	999				9		5,136	5,118	4,659					
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, Bergen Co.	6040		34	999				3		1,120	1,115	1,100					
*** Starting in 1987, Paterson-Clifton-Passaic is included in Newark-Northern New Jersey.																	
Philadelphia, PA-NJ											(75)	(78)	(82)	(85)			
Philadelphia City/County, PA	6160	6160	42	101	101	1	1	1-13,99	15,659	16,327	4,246	6,306					
Bucks County, PA	6160	6160	42	17	17	3	7	105-107*	1,174	1,305	447	664					
Chester County, PA	6160	6160	42	29	29	3	7	108-110*	769	919	303	449					
Delaware County, PA	6160	6160	42	45	45	3	7	111-114*	1,553	1,584	464	201					
Montgomery County, PA	6160	6160	42	91	91	3	7	101-104*	1,787	1,872	567	918					
Camden County, NJ	6160	6160	34	7	7	3	7	118-121*	1,280	1,352	389	627					
Gloucester & Burlington Cos, NJ	6160		34	999				3		1,351	1,468	463	Below				
Burlington Co, NJ	6160	6160	34					5	7 115-117	Above	Above	Above	417				
Gloucester Co, NJ	6160	6160	34					15	7 122	Above	Above	Above	239				
* Some zones = 199, missing data.																	
We publish: Philadelphia, Montgomery & Delaware Cos.																	

NAMES OF AREAS	S M P T COUNTY Z Identify these areas: M S A to83 84+ METRO N O S S T A E to83 84+ E										NUMBER OF CASES			
											FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
											(74)	(77)	(81)	(85)
Phoenix, AZ											5,270	5,565	5,612	3,645
Phoenix in Maricopa County	6200	6200	4	999	13	1	1	1-6,	99		2,936	2,767	2,551	1,539
Balance Maricopa County	6200	6200	4	999	13	3	7	101-103*			2,334	2,798	3,061	1,442
Tempe in Maricopa County	6200	6200	4		13	2	007				Above	Above	Above	230
Mesa in Maricopa County	6200	6200	4		13	3	008				Above	Above	Above	434
* Some zones = 199, missing data.														
We publish: Phoenix, Mesa, bal. Maricopa Co.														
Pittsburgh, PA											(74)	(77)	(81)	(86)
Pittsburgh in Allegheny County	6280	6280	42	3	3	1	1	001-004			5,301	4,902	4,150	3,185
Balance Allegheny County	6280	6280	42	3	3	3	7	102-107			1,231	1,107	896	713
Beaver & Washington Counties	6280		42	999			3				2,323	2,148	1,837	1,283
Westmoreland County	6280	6280	42	129	129	3	7	109			909	843	713	Below
Beaver Co.	6280	0845	42		7	7	101				838	804	704	509
Washington Co.	6280	6280	42		125	7	108				Above	Above	Above	241
Fayette Co.	6280	6280	42		51	7	110				Above	Above	Above	249
We publish: Pittsburgh, bal. Allegheny Co, Westmoreland Co.														
Portland, OR											(75)	(79)	(83)	(86)
Portland in Multnomah County	6440	6440	99	999	973	1	1	001-003			5,237	6,097	4,214	3,248
Balance Multnomah Co; Clackamas, Clark & Washington Cos.	6440		99	999			3				1,932	1,979	1,367	1,022
Clark County	6440	8725	41		11	7	101				3,305	4,118	2,847	Below
Balance Multnomah Co; Clackamas Co.	6440	6440	41		973	7	103-104				Above	Above	Above	479
Washington & Yamhill Counties	6440	6440	41		972	7	102				Above	Above	Above	992
We publish: Portland, bal. Multnomah Co, Washington Co.														
Providence-Warwick-Pawtucket, RI-MA											(76)	(80)	(84)	(88)
Providence City & Pawtucket in Providence Co; Warwick in Kent Co, RI	6480	9999	99	999	999	1	1	001-003			5,345	5,408	4,456	4,163
Parts of Providence, Kent Cos; all Washington, Bristol Cos, RI; parts of Bristol, Norfolk, Worcester Cos, MA; see map in publication.	6480	9999	99	999	999	3	7	101-105			2,094	2,048	1,622	1,441
We publish: Providence, Warwick, Cranston														
Raleigh, NC											(76)	(79)		
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	55	1	1	001			5,352	5,550	4,210	3,283
Balance Monroe County, Livingston, & Orleans Cos.	6840		36	999			3				1,837	1,789	1,324	990
Balance Monroe County	6840	6840	36		55	7	101-104				3,515	3,761	2,886	Below
Livingston, Ontario, Orleans & Wayne Counties	6840	6840	36		971	7	105				Above	Above	Above	1,436
We publish: Rochester, bal. Monroe Co, Ontario Co.														
Sacramento, CA											(76)	(80)	(83)	
Sacramento City in Sacramento Co.	6920		6	999			1				5,277	6,112	4,308	
Balance Sacramento County; Placer & Yolo Counties	6920		6	999			3				1,606	1,763	1,253	
											3,671	4,349	3,055	
Saginaw, MI											(74)	(77)	(80)	
Saginaw County incl. Saginaw City	6960		26	999			9					4,951	5,481	
												4,951	5,481	

NAMES OF AREAS	Variables that identify these areas:										NUMBER OF CASES				
	S		P		T		COUNTY		Z		FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE	
	M	A	M	A	M	A	to83	84+	to83	84+					
St. Louis, MO-IL											(76)	(80)	(83)	(87)	
St. Louis City, MO	7040	9999	29	510	510	1	1	001-004			15,809	14,138	4,301	3,309	
St. Louis County, MO	7040	9999	29	189	189	3	7	102-108			7,730	6,326	1,164	843	
Jefferson, St. Charles, Franklin Counties, MO	7040		29	999			3				4,262	4,115	1,602	1,214	
Madison County, IL	7040		17	119			3				1,443	1,487	615	Below	
St. Clair County, IL	7040		17	163			3				1,126	1,063	413	Below	
Jefferson Co., MO	7040	9999	29		99	7	109				1,248	1,147	507	Below	
Franklin & St. Charles Cos., MO	7040	9999	29		954	7	101				Above	Above	Above	150	
Clinton, Monroe, St. Clair Cos., IL	7040	9999	17		955	7	110-111				Above	Above	Above	342	
Jersey & Madison Counties, IL	7040	0275	17		956	7	112-113				Partly	Partly	Partly	426	
We publish: St. Louis City & Co., St. Clair Co.											Partly	Partly	Partly	334	
Salt Lake City, UT											(74)	(77)	(80)	(84)	(88)
Salt Lake County, incl. Salt Lake City; Davis County	7160		49	999			9				5,210	5,491	6,705	3,049	4,105
Salt Lake City	7160	7160	49		35	1	001				5,210	5,491	6,705	Below	Below
Balance Salt Lake County	7160	7160	49		35	7	101-102				Above	Above	Above	1,073	937
Davis County	7160	7160	49		11	7	103				Above	Above	Above	1,418	1,901
Weber County	7160	7160	49		57	7	104				Above	Above	Above	402	624
We publish: Salt Lake City, bal. Salt Lake Co., Davis Co.											NA	NA	NA	156	643
San Antonio, TX											(75)	(78)	(82)	(86)	
Bexar County, incl. San Antonio; Guadalupe County	7240		48	999			9				5,303	5,579	4,285	3,340	
San Antonio in Bexar County	7240	7240	48		970	1	1-7				5,303	5,579	4,285	Below	
Bal. Bexar Co; Comal, Guadalupe Cos.	7240	7240	48		970	7	101-102				Above	Above	Above	2,256	
We publish: San Antonio, bal. Bexar Co., Guadalupe Co.											Partly	Partly	Partly	1,084	
San Bernardino-Riverside-Ontario, CA											(75)	(78)	(82)	(86)	
San Bernardino & Ontario Cities in San Bernardino County, Riverside City in Riverside County	7280		6	999			1				5,310	6,398	4,131	3,320	
Bal. San Bernardino, Riverside Cos.	7280		6	999			3				1,269	1,415	1,030	Below	
Balance San Bernardino County	7280	6780	6		71	7	101-104*				4,041	4,983	3,101	Below	
Balance Riverside County	7280	6780	6		65	7	105-107*				Above	Above	Above	1,452	
San Bernardino & Ontario Cities in San Bernardino County	7280	6780	6		71	2	2				Above	Above	Above	1,201	
Riverside City in Riverside County	7280	6780	6		65	1	1				Above	Above	Above	327	
* Some zones = 199, missing data.											Above	Above	Above	340	
We publish: Riverside City, bal. Riverside Co., San Bernardino City															
San Diego, CA											(75)	(78)	(82)	(87)	
San Diego City in San Diego County	7320	7320	6	999	73	1	1	001-005			4,908	5,841	4,215	3,232	
Balance San Diego County	7320	7320	6	999	73	3	7	101-105			2,453	2,749	1,978	1,547	
We publish: San Diego City, bal San Diego Co.											2,455	3,092	2,237	1,685	
San Francisco-Oakland, CA											(75)	(78)	(82)	(85)	
San Francisco City/County	7360	7360	6	75	75	1	1	001-006			15,458	16,169	4,251	6,656	
Oakland in Alameda County	7360	5775	6	1	1	2	2	007			5,225	5,293	880	1,628	
Balance Alameda County	7360	5775	6	1	1	3	7	108-111*			2,456	2,445	386	744	
San Mateo County	7360	7360	6	81	81	3	7	112-115			2,660	2,874	1,092	1,520	
Contra Costa & Marin Counties	7360		6	999			3				2,133	2,243	764	1,075	
Contra Costa County	7360	5775	6		13	7	103-107				2,984	3,314	1,129	Below	
Marin County	7360	7360	6		41	7	101-102				Above	Above	Above	1,277	
* Some zones = 199, missing data.											Above	Above	Above	412	
We publish: San Francisco, Oakland, bal. Alameda Co.															
San Jose, CA											(84)	(88)			
San Jose in Santa Clara County	7400	7400	6		85	1	1-5						4,333	4,095	
Balance Santa Clara County	7400	7400	6		85	7	101-105						1,985	1,908	
We publish: San Jose, Sunnyvale, bal. Santa Clara Co.													2,348	2,187	

Variables that identify these areas: NAMES OF AREAS	COUNTY										NUMBER OF CASES				
	S	P	T	A	to83	84+	Z	O	METRO		N	FIRST WAVE	SECOND WAVE	THIRD WAVE	FOURTH WAVE
	M	M	S	T	A	E	to83	84+	E			(76)	(79)	(83)	(87)
Seattle-Everett-Tacoma CMSA												15,909	17,656	4,236	3,206
Seattle in King County; Everett in Snohomish County	7600	7600	53	999	953	1	1	001-005				7,673	7,668	1,654	942
Balance King and Snohomish Cos.	7600	7600	53	999	953	3	7	101-108				8,236	9,988	2,582	1,547
Tacoma in Pierce County	7600	8200	53		53		2	006				**	**	**	270
Balance Pierce County	7600	8200	53		53		7	109-110				**	**	**	447
** Formerly included in the Tacoma area. We publish: Seattle, bal. King Co, Pierce Co.															
Spokane, WA												5,242	5,213	4,746	
Spokane Co. incl. Spokane City	7840		53	999			9					5,242	5,213	4,746	
Springfield-Chicopee-Holyoke, MA												5,743	5,811		
Springfield, Chicopee, & Holyoke in Hampden Co; parts of Hampden, Hampshire, Worcester, Tolland Cos; see map in publication				99	999		9					5,743	5,811		
Tacoma, WA												5,395	5,389	4,863	***
Pierce County, incl. Tacoma	8200		53	999			9					5,395	5,389	4,863	
*** Tacoma is now included in Seattle-Everett-Tacoma.															
Tampa-St. Petersburg, FL															(85)
Tampa in Hillsborough Co.	8280	8280	12		57	1	001-002								3,755
St. Petersburg in Pinellas Co.	8280	8280	12		103	2	003-004								593
Balance Pinellas County	8280	8280	12		103	7	102-105								559
Balance Hillsborough County	8280	8280	12		57	7	106-108								1,221
Hernando & Pasco Counties	8280	8280	12		983	7	101								815
We publish: Tampa, St. Petersburg, bal. Pinellas Co.															567
Washington, DC-MD-VA												15,687	14,991	5,798	6,684
Washington, DC	8840	8840	11	1	1	1	001-005					7,900	7,335	2,723	1,478
Arlington Co. & Alexandria City	8840		51	1		3						1,270	1,225	472	Below
Fairfax & Falls Church Cities; Fairfax, Prince William, Loudoun Cos, VA	8840		51	2		3						2,399	2,469	1,043	Below
Montgomery County, MD	8840	8840	24	31	31	3	7	102-105				1,952	1,881	771	1,153
Prince George's County, MD	8840	8840	24	33	33	3	7	106-110				2,166	2,081	789	1,207
Arlington County, VA	8840	8840	51		13	7	006					Above	Above	Above	395
Alexandria City, VA	8840	8840	51		510	7	112					Above	Above	Above	335
Fairfax, Falls Church Cities; Fairfax Co, VA	8840	8840	51		981	7	113-116					Above	Above	Above	1,214
Manassas, Manassas Park Cities; Loudoun, Pr. William, Stafford Cos, VA	8840	8840	51		980	7	117					Partly	Partly	Partly	478
Frederick County, MD	8840	8840	24		21	7	101					NA	NA	NA	215
Calvert & Charles Cos, MD	8840	8840	24		982	7	111					NA	NA	NA	209
We publish: Washington, Prince George's & Fairfax Cos.															
Wichita, KS												5,343	5,343	4,587	
Sedgwick Co. incl. Wichita; Butler County	9040		20	999			9					5,343	5,343	4,587	



**GEOGRAPHY (Continued)**

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0001	REGION	73N-93N	Census Region				
			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				
			1 Inside 1971 boundaries of SMSAs				
			2 Outside 1971 boundaries of SMSAs				
0003	METRO	73N-93N 74S-93S	Central City/Suburban Status				
			<u>73N</u> <u>74S-83S</u> <u>74N-83N</u> <u>85N-93N</u> <u>84S-93S</u>	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
			1 1 1 1 1	G	G	G	G
			2 2 4 1 1				
			3 2 2 1 2-6				
			4 2 3 2 7				
			5 2 3 2 7				
			6 3 9 9				
			7 9 9				
			Central City of SMSA Additional Central City, e.g., St. Paul, MN Urbanized Suburb Other Urban Suburb Rural Suburbs Suburb Urbanized Area, Non-metro Other Urban, Non-metro Rural, Non-metro Nonmetropolitan or in one of the SMSA's listed under the variable SMSA without a 1983 breakdown of central city and suburbs.				
			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				
			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 Mixed: 2,000-4,000 heating degree days and over 2,000 cooling degree days				
			6 Hot: Under 2,000 heating degree days and over 2,000 cooling degree days				
0005	URBAN	73N-83N	Urban Status				
			73N 74N 76N 78N-				
			<u>75N</u> <u>77N</u> <u>83N</u>				
			1 1 1 1				
			2 2				
			1 Urban (Population 2500+)				
			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 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				
			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 <u>74S-83S 84S-86S 87S-93S</u> 3 1-217799 1-435999 217800 2 1 435600 999998 9 999999 999999	Don't Know Number of Square Feet 5 Acres or More Less Than 10 Acres 10 Acres Or More Not Answered Not Applicable	<u>83N</u> 6	<u>83S</u> 6	<u>84S</u> 15	<u>85N</u> 16
0008	CROPSL	76N-93N 77S-93S	Crop Sales \$1000 Or More In The Last 12 Months 76N-83N 77S-93S <u>85N-93N</u> 1 1 Yes 2 2 No 8 8 Not Answered 9 9 Not Applicable		<u>83N</u> 12	<u>83S</u> 12	<u>84S</u> C1	<u>85N</u> C1
0009	CROP5	78N-83N	Crop Sales \$50 Or More In The Last 12 Months		<u>83N</u> 12	<u>83S</u> 12		
0010	CRDP25	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 <u>93N</u> 1 1 1 2 2 3 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.		<u>83N</u> G		<u>85N</u> G	
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	

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.

GEOGRAPHY (Continued)

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

REF#	NAME	SURVEYS	Place Size		DESCRIPTION
			73N	74N-83N	
0013	POP	73N-83N			
			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

83N  
G

0014 PLACE 73N Place Code of Central City

73N  
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  
G G G G  
74S-93S

This variable has SMSA codes, except that in 85N-93N it has PMSA codes (often the same). 1971 boundaries are used through 1983, thereafter 1983 boundaries. Cases in 85N-93N that are identified as being in a metropolitan area, may be in central cities (where the variable METRO=1) or urbanized suburbs (METRO=2); each sample size is shown below, excluding non-interviews. Cases in 74N-83N may be coded as central city (METRO=1 or 4), any suburb, not just urbanized (METRO=2), or total metro, with no central city/suburb distinction (METRO=9); sample sizes below include non-interviews.

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	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		105	304	0520	0520	Atlanta, GA
				30		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, LA
				29		0845	Beaver, PA
			23	208		0875	Bergen-Passaic, NJ
	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	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	Eugene-Springfield, OR
			25			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-Carlisle

MISSING FROM RS W TAPE

(Continued On Next Page)

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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
		165	29	3280
66		115	77	3320
392		267	398	183 3360
		71		3400
194		95	158	26 3480
		67	35	3560
		163	120	3600
60		81	45	77 3640
			27	31 3660
		69		3680
141		214	122	143 3760
		135	56	35 3840
			17	44
				37
		78		18 4000
		96	41	4040
		171	45	73 4120
			20	17 4160
			47	4280
		112	66	4400
		65		4440
860		1023	802	712 4480
93		109		4520
		90	41	4720
			38	4880
				4900
		207	146	27 4920
95		353	143	233 5000
				135 5015
170		193	132	90 5080
184		281	198	219 5120
		127	70	5160
			26	5170
				158 5190
			31	5240
		174	103	5360
				462 5380
		83	55	33 5480
150		143	119	96 5560
978		863	1514	206 5600
77		336	68	259 5640
		68		5680
			229	22 5720
95		96		5720
			139	267 5775
133		81	120	73 5880
		139	72	32 5920
		166	27	108 5960
		138	34	53 6000
71		232		6040
				42 6080
		88	29	25 6120
458		709	445	476 6160
212		238	296	71 6200
124		442	88	262 6280
124		241		6440
85		155	41	69 6480
			86	(6640) 6640
		90		6680
		157		6760
78		148	57	87 6840
		60	25	6880
87		197	98	110 6920
143		430	121	195 7040
				23 7040
		70	23	7120
		161	69	111 7160
256		190	24	7240
102		341	74	217 7280
238		263	226	175 7320
298		598	177	177 7360
124		211	127	133 7400
		70	37	7480
			26	7500
				38 7510
			42	56 7560
				3280
				3320
				3360
				3400
				3480
				3560
				3600
				3640
				3660
				3680
				3760
				3840
				3965
				3980
				4000
				4040
				4120
				4160
				4280
				4400
				4440
				4480
				4520
				4720
				4880
				4900
				4920
				5000
				5015
				5080
				5120
				5160
				5170
				5190
				5240
				5360
				5380
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				(6640) 6640
				6680
				6760
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				6880
				6920
				7040
				7090
				7120
				7160
				7240
				7280
				7320
				7360
				7400
				7480
				7500
				7510
				7560
				Hartford, CT
				Honolulu, HI
				Houston, TX
				Huntington-Ashland, WV-KY-
				Indianapolis, IN
				Jackson, MS
				Jacksonville, FL
				Jersey City, NJ
				Johnson City-Kingsport-Bri
				Johnstown, PA
				Kansas City, MO-KS
				Knoxville, TN
				Lake County, IL
				Lakeland-Winter Haven, FL
				Lancaster, PA
				Lansing-East Lansing, MI
				Las Vegas, NV
				Lawrence-Haverhill, MA-NH
				Lexington-Fayette, KY
				Little Rock-North Little R
				Lorain-Elyria, OH
				Los Angeles-Long Beach, CA
				Louisville, KY-IN
				Madison, WI
				McAllen-Edinburgh-Mission,
				Melbourne-Titusville-Palm
				Memphis, TN-AR-MS
				Miami-Hialeah, FL
				Middlesex-Somerset-Hunterd
				Milwaukee, WI
				Minneapolis-St. Paul, MN
				Mobile, AL
				Modesto, CA
				Monmouth-Ocean, NJ
				Montgomery, AL
				Nashville, TN
				Nassau-Suffolk, NY
				New Haven-Meriden, CT
				New Orleans, LA
				New York City, NY
				Newark, NJ
				Newport News-Hampton, VA
				Norfolk-Virginia Beach-New
				Norfolk-Portsmouth, VA
				Oakland, CA
				Oklahoma City, OK
				Omaha, NE-IA
				Orlando, FL
				Oxnard-Ventura, CA
				Paterson-Clifton-Passaic,
				Pensacola, FL
				Peoria, IL
				Philadelphia, PA-NJ
				Phoenix, AZ
				Pittsburgh, PA
				Portland, OR-WA
				Providence, RI
				Raleigh-Durham, NC
				Reading, PA
				Richmond-Petersburg, VA
				Rochester, NY
				Rockford, IL
				Sacramento, CA
				St. Louis, MO-IL
				Salem-Gloucester, MA
				Salinas-Seaside-Monterey,
				Salt Lake City-Ogden, UT
				San Antonio, TX
				Riverside-San Bernardino,
				San Diego, CA
				San Francisco, CA
				San Jose, CA
				Santa Barbara-Santa Maria-
				Santa Rosa-Petaluma, CA
				Sarasota, FL
				Scranton-Wilkes Barre, PA

(7280)  
in Metro  
Survey

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

184	274	138	159	7600	7600	Seattle, WA
	90	77		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 Codes in parentheses

Note: 9999 code not present in MSA tapes. 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 AHS DP 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.

Notes: G = Variable is computer generated, and is not present on the questionnaire.  
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REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

0021 TRACT 84S-93S Census Tract for 1870 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.

84S  
G

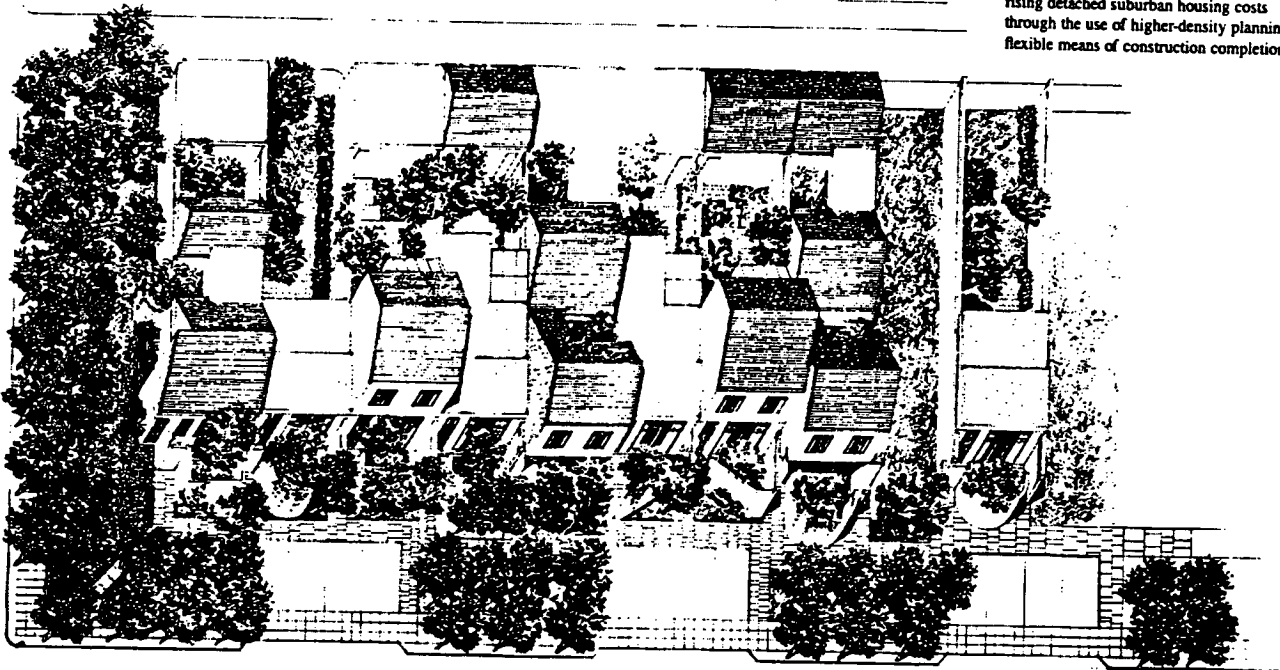
## Suburban Infill Housing

*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.*



**Plans**

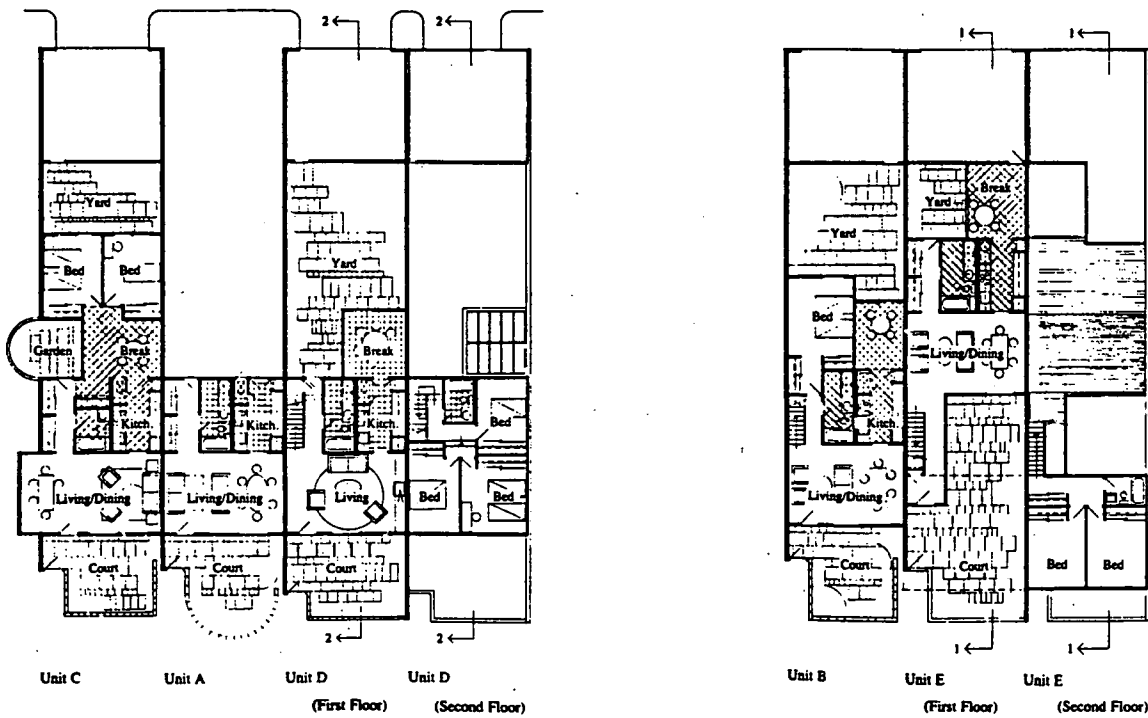
Fundamental to the concept is the establishment of reinforced concrete block party walls subdividing the developer's parcel into 100' long lots. One end of these walls abuts a principal access street, while the other terminates at a service alley running behind

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.





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 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 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 in the American 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 people 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. Up through 1983, having a complete kitchen was an alternative to direct access for defining a unit. 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 people 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 starting in 1984.

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 files 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 later surveys. Therefore users must be aware of differences in definitions between the AHS data collected up through 1983 and the AHS data for later 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 nonrelatives are counted as housing units, while places with nine or more nonrelatives 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., people 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 American Housing Survey is conducted on a sample of addresses, not people 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 people 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 people 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 inside 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 outside 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 owneroccupied 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 condo minium 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 apart ment 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 people but are principally held for the owner's occasional use during the year. In 1985N+, the National Survey had 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. Up through 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. Starting in 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.

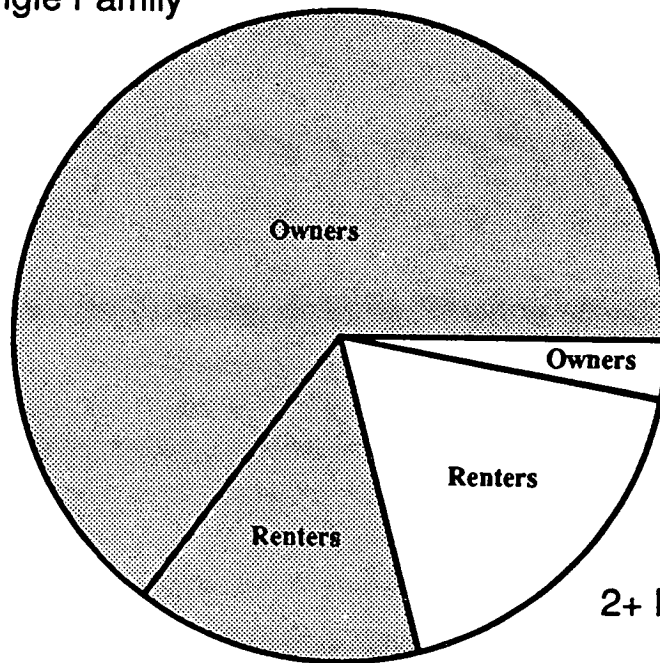
Basement--A structure has a basement if there is enclosed space, at least partially underground, in which people can walk upright under all or part of the building. Starting in 1984, respondents are asked more specific questions about the basement and type of foundations for units not having a basement.

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.

Single Family



2+ Homes in Building

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE				
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>	
0022	ISTATUS	73N-93N 74S 76S-93S	Type Of Interview 73N 78N 74N-77N 74S 79N-83N 76S-93S 85N-93N	1	1	1	1	
			1	1	1	1	1	
			2	2	2	2	2	
			3	3	3	3	3	
			4	4	4	4	4	
			5	5				
			6	6				
			7	7				
			8					
			Occupied Regular Interview					
			Usual Residence Elsewhere (Interview)					
			Vacant (Interview With Owner, Neighbor, Etc.)					
			Non-Interview (Type A, B, Or C)					
			Non-Interview (Type A, B, Or C) and Vacant or URE Units in transient hotels, mobile homes or "other housing" (See TYPE).					
			Not Yet In The Sample					
			Dropped from Sample (Type C Non-Interview in Preceding Year or Reduction of Sample)					
			Missing from Sample (Applicable to a Few Cases Which Were Not Present in One Year and Reappeared in Next Year)					
			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 74S-75S 77S-93S	Occupancy Status 73N 74S-75S 77S-83S 74N-83N 85N-93N 84S-93S	2	2	C1	C1	
			1	1	1	1	1	
			2	2	2	2	2	
			3	3	3	3	3	
			9		9			
			9		9			
			Occupied Unit					
			Occupied (Interview Or Type A Non-Interview)					
			Not Occupied					
			Vacant (Interview Or Type A Non-Interview)					
			Usual Residence Elsewhere (Interview or Type A Non-Interview)					
			Type B Interview					
			Not In Housing Stock (Type B Or C Non-Interview)					
			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 84S-93S	Months Since Unit Occupied On a Permanent Basis 0 Less Than One Month 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 URE			<u>84S</u> 37	<u>85N</u> 37	
0025	YRRND	85N-93N 84S-93S	Residence Suitable For Year Round Use 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 37	<u>85N</u> 37	
			Note: See Movac, Variable number 1547.					
0026	TIMSHR	85N-93N 84S-93S	Ownership Timeshared 1 Yes 2 No 9 Not a URE Interview			<u>84S</u> 38	<u>85N</u> 39	
0027	SHORTU	87N-93N 87S-93S	Vacation Or Short-Term Use (URE And Vacant Rental Units) 1 Yes 2 No 9 Not Applicable			<u>87S</u>	<u>87N</u>	



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE							
0028	TENURE	73N-93N 74S-93S	Tenure Status			<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>		
				73N	74N-83N	85N-93N	10	10	C1	C1	
				<u>74S</u>	<u>75S-83S</u>	<u>84S-93S</u>					
				1	1	1					
				2							
					2						
					3						
				3	4	2					
				4	5	3					
				9	9	9					
			Note: Starting in 1984, TENURE is coded for Type A Non-Interviews and UREs.								
0029	FRSTHD	77N-93N 78S-93S	Owner(s) Of This Unit Have Owned Home Before			<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>		
				77N-79N	80N-83N	85N-93N	23	21	16	17	
				<u>78S-80S</u>	<u>81S-83S</u>	<u>84S-93S</u>					
				2	2	1					
				1	1	2					
				3							
				8	8	8					
				9	9	9					
						Note: in 80N and possibly in other surveys, a few cases have inconsistencies between this variable and the variable XTENURE. Prior to 1984, the variable was available only for recent movers. It is now available for all owner-occupied units.					
0030	FRSTOC	77N-93N 79S-93S	First Occupants of Home			<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>		
				1	Yes	23	21	14	15		
				2	No						
				8	Not Answered						
				9	Not Applicable						
						Note: From 1978N to 1983N, the variable was only available for recent movers (owners). In the SMSA files and in 1977N, and starting in 1985N, it is available for all units (owners and renters).					
0031	FRSIT	85N-93N 84S-93S	First Site On Which Mobile Home Placed					<u>84S</u>	<u>85N</u>		
				1	Yes, First Site			14	15		
				2	No, Moved From Another Site						
				3	Don't Know						
				8	Not Answered						
				9	Not Applicable						
0032	TOTHOM	77N-83N 78S-83S	Total Homes Reference Person Has Owned			<u>83N</u>	<u>83S</u>				
				1	Two Homes	23	21				
				2	Three Or More Homes						
				8	Not Answered						
				9	Cases In Which FRSTHD NE 2						
						Note: Excludes Vacation Homes, Rental, and Commercial Property. The variable is available for recent movers only.					
0033	SECOND	73N-77N 85N 87N 74S-78S	Own Second Home			<u>77N</u>	<u>78S</u>		<u>85N</u>		
				1	Yes	24	24		50		
				2	No						
				9	Not Applicable						
0034	CONDO	79N-93N 80S-93S	This House/Apartment Part Of A Condominium/Cooperative			<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>		
				79N-83N	85N-93N	7	7	3	3		
				<u>80S-83S</u>	<u>84S-93S</u>						
				1	1						
				2	3						
				8							
				9	9						
				99							
						Note: Prior to 1984, this variable was available for rental units only. Owner-occupied units were identified as condo/coops under the variable TENURE.					

(distinction suppressed for confidentiality)

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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.

GENERAL (Continued)

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 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</u> <u>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	<u>83N</u> 43	<u>83S</u> 33
			1 Less Than 50		
			2 50-99		
			3 100-499		
			4 500 or More		
			5 Don't Know		
			8 Not Answered		
			9 Not Applicable		
0038	CANRNT	80N-83N 83S	Any Units In Condo/Coop Development Rented/For Rent	<u>83N</u> 43	<u>83S</u> 33
			1 Yes		
			2 No		
			3 Don't Know		
			8 Not Answered		
			9 Not Applicable		

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

0039 LONGIT 835-935 Characteristics of Household in Unit in 1970 or 1980  
 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.

845  
G

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.

- for renters*
- 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

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

999 Data not available

Notes: G = Variable is computer generated, and is not present on the questionnaire.  
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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0040	ZSPEC	73N-93N 74S-93S	Recoded Renter/Owner Code 74N-83N 85N-93N <u>74S-83S 84S-93S</u> 2 1 Owners (limited to 1-unit structures on less than 10 acres and no business property) 2 Cooperative or Condominium 3 Other Owner 1 4 Renters excluding 1-unit structures on 10 acres or more 5 Other Renter 3 All Other Occupied Units 9 9 Vacant, URE Or Non-Interview	<u>83N</u> G	<u>83S</u> G	<u>84S</u> G	<u>85N</u> G
0041	ZTRV	73N-83N 74S-83S	Recoded Composite Tenure, Race, Vacancy 1 White Owner 2 Black Owner 3 Other Owner 4 White Renter 5 Black Renter 6 Other Renter 7 Vacant For Sale Only 8 Vacant For Rent 9 Rented, Not Occupied 10 Sold, Not Occupied 11 Held For Occasional Use 12 Other Vacant 13 Migratory 14 Seasonal Summers Only 15 Seasonal Winters Only 16 Other 17 Vacant - For Sale, Cooperative Or Condominium 99 Non-Interview	<u>83N</u> G	<u>83S</u> G		
0042	OWNHERE	73N-77N 83N-93N 74S-78S 84S-93S	Owner or Resident Manager Lives Here (Renter) 73N-77N 85N-93N 83N 84S-93S <u>74S-78S</u> 1 1 Yes 2 2 No 3 Don't Know 8 8 Not Answered 9 9 Not Applicable Note: Before 1984, the question refers to owners only. After 1983, the question includes resident managers, but excludes staff for maintenance only.	<u>83N</u> 7	<u>78S</u> 7	<u>84S</u> 27	<u>85N</u> 27
0043	MGRHERE	73N-77N 83N 74S-78S	Manager, Superintendent, or Janitor Lives Here (Renter) 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>83N</u> 7	<u>78S</u> 7		
0043A	MHEX	89N-93N	Extra Mobile Homes, Not separate units, e.g. bedrooms, storage 0 None 1-7 1 to 7 or more 8 Not Answered 9 Type B or C Non-Interview				89N 54

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

0044 BUILT 73N-93N 74S-93S Year Structure Was Built (Or Model Yr Of Mobile Home) 83N 83S 84S 85N  
 2 2 14 15

73N-83N		82S-83S		85N-93N		YY	Year Since 1/80 Month And/Or Year Since 3/70
74S				84S-93S			
YY	MMYY	YY					
						1	1979
						2	1975-1978
						3	1970-1974
						4	1960-1969
1	1	1					1969 To 3/31/70
2	2	2					1965 To 1968
3	3	3					1960 To 1964
4	4	4			5		1950 To 1959
5	5	5			6		1940 To 1949
6	6	6					1939 Or Earlier
					7		1930 To 1939
					8		1920 To 1929
					9		1919 Or Earlier
9999	9999	99	9999	99			Not Applicable (Non-Interview) Dropped from the Sample or Not Yet in the Sample

Note: In 85N-93N and 84S-93S, when the question is asked of mobile home residents, code "7" refers to "1939 Or Earlier". Codes "8" and "9" are omitted for mobile homes.

0045 ZBUILT 77S-83S Unit Added Thru New Construction Since Last Enumeration Period. 83S  
 G

- 1 Yes
- 2 No
- 9 Not applicable

0047 UNITS <sup>No. of living quarters</sup> ~~73N-83N~~ ~~74S-83S~~ ~~85N-93N~~ ~~84S-93S~~ in Structure Including Vacant Qtrs 83N 83S 84S 85N  
 4 4 3 3

- 1-100 1-100 units
- 1 Mobile Home--No Permanent Room
- 2 1, Detached Or Mobile Home With Room Added
- 3 1, Attached
- 4 2
- 5 3 or 4
- 6 5 to 9
- 7 10 to 19
- 8 20 to 49
- 9 50 or More
- 101 101 Units or More
- 99 999 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. (58 in 1987N)

0046 UNITS ~~73N-83N~~ ~~74S-83S~~ ~~85N-93N~~ ~~84S-93S~~ STRUCTURAL TYPE CLASSIFICATION 84S 85N  
 3 3

~~No. of Living Qtrs in Structure Including Vacant Qtrs.~~

- 1 One Unit Building--Detached
- 2 One Unit Building--Attached
- 3 Two Or More Unit Building
- 4 Mobile Home--One Unit
- 5 Mobile Home--Two Or More Units
- 8 Not Answered
- 9 Not Applicable

0048 DTHLQ 75N-77N 76S-81S Other Living Qtrs On Property Including Vacant Qtrs 77N 81S  
 3 3

- 1 Yes
- 2 No
- 9 Not Applicable

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE				
0049	ACCESS	74N-93N	Access To Unit		<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		74S-93S	77N-81N 74N-76N		2	2	C1	C1
			83N 85N-93N					
			75S-93S					
				1 1 Direct				
		2 2 Through Another Unit						
		8 8 Not Reported						
		9 9 Not Applicable						
0050	TYPE	73N-93N	Type Of Living Quarters		<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		74S-93S	73N-76N 77N-83N 85N-93N		2	2	C1	C1
			74S-75S 76S-83S 84S-93S					
				1 1 House, Apartment				
				1 1 House, Apartment Or Mobile Home				
				5 5 2 Mobile Home/Trailer--No Perm. Room				
				6 6 3 Mobile Home--Permanent Room Added				
				2 2 4 Housing Unit In Non-Transient Hotel				
				3 3 5 Transient Hotel Unit Occupied More Than 6 Months				
				4 4 6 Unit in Rooming House				
				7 7 Boat Or Recreational Vehicle				
				8 8 Tent, Cave, Or Railroad Car				
				6 7 9 Other Housing Units Not Specified Above				
				8 8 10 Non-housing Unit In Boarding House				
				10 10 11 Student Quarters In College Dorm				
		9 9 12 Unoccupied Tent Or Trailer Site						
		11 11 13 Not Perm. Unit In Transient Hotel						
		11 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	Mobile Home Is Secured by Tiedowns		<u>83N</u>	<u>81S</u>		
		80N	1 Yes	31	10			
		83N	2 No					
		75S-81S	3 Don't Know					
			8 Not Answered					
		9 Not Applicable						
0052	ELEV	73N-93N	Passenger Elevator In Building (Enumerator Observation)		<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		74S-93S	73N-83N 85N-93N		4	4	42	53
			74S-83S 84S-93S					
				2 1 No Elevator				
				1 2 At Least One Working Elevator				
		3 3 All Elevators Not Working						
		9 0 1 To 3 Stories or Non-Interview						
		9 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	Stories From Main Bldg. Entry To Main Apartment Entry		<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		83N-93N	75N-77N 76S-81S 85N-93N		54	40	42	53
		76S-81S	83N 83S 84S-93S					
		83S-93S		1 1 0 None, On Same Floor				
				2 2 1 One (Up or Down)				
			2 2 Two (Up or Down)					
		3 3 Two or More (Up or Down)						
			3-8 Three to Eight or More					
		8 8 98 Not Answered						
		9 9 99 Not Applicable						
		Note: Some "8"s have been detected in 75N-77N, and 83N						
		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.						
0053A	SLEVEL	87N-93N	Split Level					85N
		85S-87S						30
				1 Yes				
				2 No				
				8 Not Answered				
		9 Not Applicable						

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>	<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			22	
	1	1	One																																												
1			1 to 3 Stories																																												
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3	5		Seven to Twelve																																												
4	6		Thirteen or More																																												
		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>	<u>83S</u>	<u>84S</u>	<u>85N</u>																																								
			<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	7	7	3	3				
	1		Basement Under All The Building																																												
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	8		Not Answered																																												
9	9		Not Applicable																																												
0056	SHOPS	73N-93N	<b>Commercial Establishments In Building</b>	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>																																								
0057	DOCS	74S-93S	<b>Medical, Dental Office In Building</b>	4	4	17	18																																								
			<table border="0"> <tr> <td></td> <td>1</td> <td></td> <td>Yes</td> </tr> <tr> <td></td> <td>2</td> <td></td> <td>No</td> </tr> <tr> <td></td> <td>9</td> <td></td> <td>Not Applicable</td> </tr> </table> <p>Note: After 1983, the wording of the question was changed from "in building" to "on the property".</p>		1		Yes		2		No		9		Not Applicable	4	4	17	18																												
	1		Yes																																												
	2		No																																												
	9		Not Applicable																																												
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>	<u>82S</u>	<u>84S</u>	<u>85N</u>																																								
			<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	39	39	25	25					
	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																																											

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					
0059	TRUCKS	73N-77N	Number Of Household Trucks Including Company Owned (Less Than 1 Ton) 73N-77N 80N-81N 85N-93N 73N-77N 80N-81N 74S-78S 74S-78S 85N-93N 82S 82S 84S-93S 84S-93S		<u>81N</u>	<u>82S</u>	<u>84S</u>	<u>85N</u>	
					39	39	25	25	
		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 73N-83N 78S-81S 85N-93N 74S-77S 84S-93S 82S-83S		<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>	
					3	3	14	14	
		1		1	Included In Rent Or Value				
				2	No, Or Not Included In Rent Or Value Available				
		1		1	Offstreet, Uncovered Space Available				
				2	Carport Available				
				3	One Car Garage Available				
				4	Two Car Garage Available				
				5	Three+ Car Garage Available				
		2		6	Not Available				
8	8	8	8	Not Answered					
9	9	9	9	Not Applicable					
0061	GARGC	78N-81N	Change In Availability Of Garage/Carport Since Last Int.		<u>81N</u>				
					4				
		1		Yes					
		2		No					
		3		Not Sure					
8	Not Answered								
9	Not Applicable								
0062	INCP	73N-77N	Cost Of Offstreet Parking Space Included In Rent 73N-77N 85N-93N 74S-81S 74S-81S 84S-93S 84S-93S		<u>77N</u>	<u>81S</u>	<u>84S</u>	<u>85N</u>	
					24	24	14	14	
		1		1	Included In Rent Or Value				
				2	Included In Rent				
		2		2	No, Not Included In Rent Or Value				
		8		8	No, Not Included In Rent				
		8		8	Not Answered				
		9		9	Not Applicable				
0063	IFP	73N-77N	Parking Facilities Available With Building (Renter)		<u>77N</u>	<u>81S</u>			
					24	24			
		1		Yes					
		2		No					
		8		Not Answered					
9	Not Applicable								
0064	FARP	74S-78S	Parking Space Away From Building (Renter)		<u>78S</u>				
					24				
		1		Yes					
		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>			
					24	24			
		1		Yes					
		2		No or available at no extra charge					
		9		Not Applicable					
<p>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.</p>									
0066	COSTP	73N-77N	Monthly Cost For Parking Space (Renter)		<u>77N</u>	<u>81S</u>			
					24	24			
		1-198		\$1-\$198					
		199		\$199 Or More					
		998		Not Answered					
999	Not Applicable								



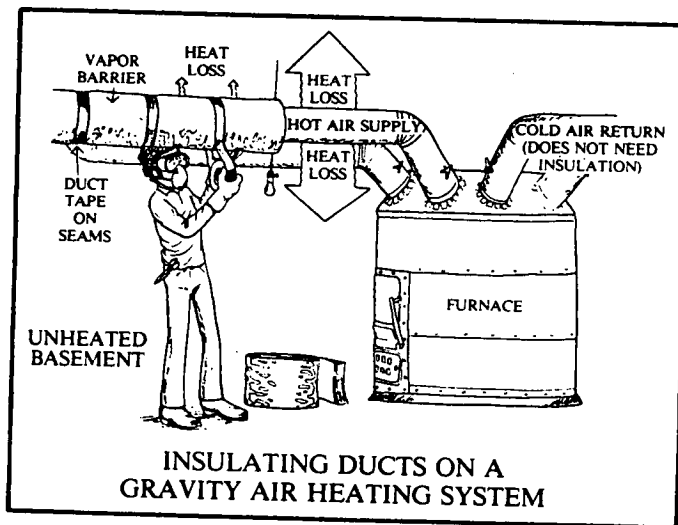
REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

0067	ZPARK	73N-77N	Recoded Parking Facilities Present At Unit (Recent Movers Only)	77N	81S
		74S-81S		G	G
		74S	73N-77N		
			<u>75S-81S</u>		
		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	Recoded Availability of Parking	77N	81S
		74S-81S		G	G
		73N-77N	78S-81S		
		<u>74S-77S</u>			
		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**

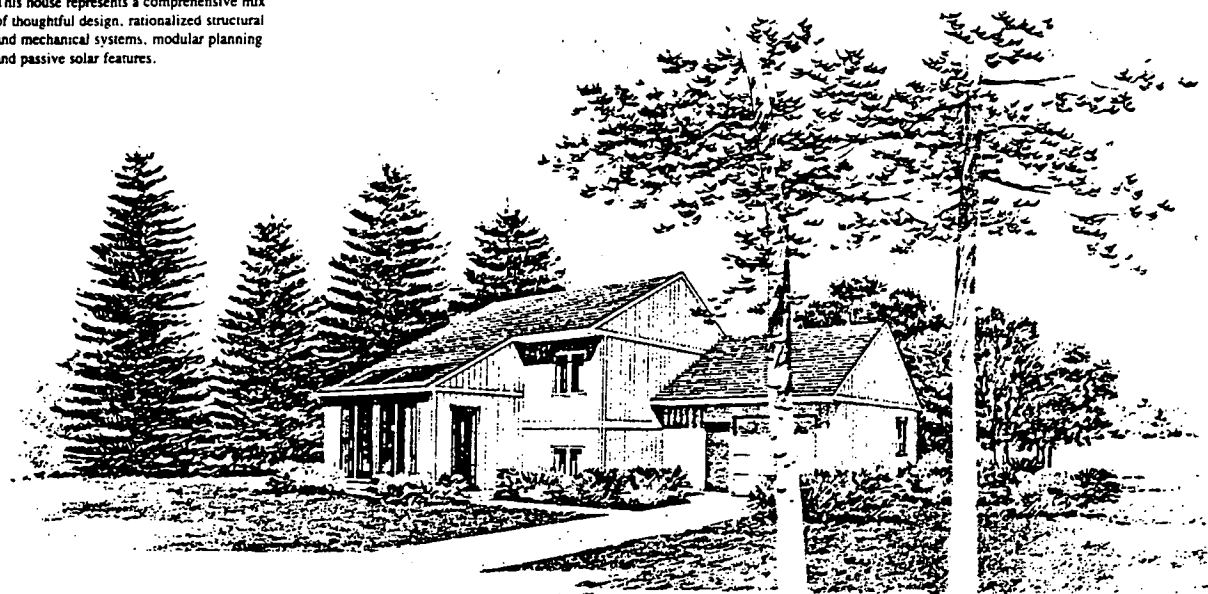
*Project Sponsor: Huth-Westwood Builders  
Akron, Ohio*

*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 people per room and information on additions and major alterations undertaken in the last two years. Information on equipment acquisition and addition of storm windows and insulation is documented in the next section (Kitchen, Plumbing, Cooling and Heating Equipment).

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

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

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

Rooms--Rooms counted include whole rooms used for living purposes, such as living rooms, dining rooms, bedrooms,

kitchens, finished attic or basement rooms, recreation rooms, permanently enclosed basement rooms, permanently enclosed porches that are suitable for year-round use, and lodgers' rooms. Also included are rooms used for offices by a person living in the unit.

A partially divided room, such as a dinette next to a kitchen or living room, is a separate room only if there is a partition from floor to ceiling, but not if the partition consists only of shelves or cabinets. A dining area in a L-shaped living room is not recorded as a dining room and not counted as a room.

Excluded from the count of rooms are bathrooms, halls, foyers or vestibules, balconies, closets, alcoves, pantries, strip or pullman kitchens, laundry or furnace rooms, unfinished attics or basements, other unfinished space used for storage, open porches, trailers used only as bedrooms, and offices used only by people not living in the unit.

If a room is used by occupants of more than one unit, the room is included with the unit from which it is most easily reached.

Bedrooms--The number of bedrooms in a housing unit is the count of rooms used mainly for sleeping, even if also used for other purposes. Rooms reserved for sleeping, such as guest rooms, even though used infrequently, are counted as bedrooms. On the other hand, rooms used mainly for other purposes, even though used also for sleeping, such as a living room with a hideaway bed, or an extra bedroom used for storage, are not considered bedrooms. A housing unit consisting of only one room, such as a one-room efficiency apartment, is classified by definition as having no bedroom.

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

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

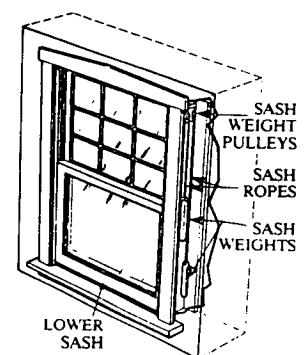
Renovations--Renovations include work completed after the original construction. Work which has begun but was never completed is not reported, unless the work is currently in progress. Additions are restricted to the sample unit. Remodeling includes replacing or adding installed equipment. Major equipment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

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

Cost of 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. Up through 1983, it was available only for one-unit structures with no medical/dental offices or commercial establishments located on less than 10 acres.

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



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0069	UNITSF	85N-93N 84S-93S	<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>	84S 30	85N 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>	88S 40	87N 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>	88S 40	87N 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>	84S 30	85N 30		
0072A	MEASU1	85N 84S-87S	<p>Permission for interviewer to measure house size</p> <p>1 Yes</p> <p>2 No</p> <p>8 Not Answered</p> <p>9 Occupant gave size, or vacant, URE or NonInterview</p>			85N 28	
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>	83N 3	83S 3	84S G	85N G
0074	ROOMSC	78N-81N	<p>Change In No. Of Rms In House/Aprtmnt Since Last Survey</p> <p>1 Yes</p> <p>2 No</p> <p>3 Not Sure</p> <p>9 Not Applicable</p>			81N 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 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>	83N 3	83S 3	84S 4	85N 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>			81N 3	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0077	BATHS	73N-93N 74S-93S	Number of Bathrooms 73N-83N 85N-93N <u>74S-83S 84S-93S</u>	<u>83N</u> 4	<u>83S</u> 4	<u>84S</u> 4	<u>85N</u> 4
			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 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 0 None 1-9 1 To 9 10 10 or More Half Baths 99 Not Applicable			<u>84S</u> 4	<u>85N</u> 4
			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> 4	<u>85N</u> 4		
0080	KITCH	84S-93S	Number of Kitchens	4	4		
0081	DINING		Number of Dining Rooms	4	4		
0082	DENS		Number of Family Rms, Dens, Rec Rms And/Or Libraries	4	4		
0083	OFFICE		Number of Rms That Are Business Space W/Sep. Access	4	4		
0084	NOTHRM		Number of Other Rooms, Finished or Unfinished	4	4		
			Standard Codes For All Variables Are: 0 None 1-4 1 To 4 5 5 or More 9 Not Applicable				
			Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, 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 1 Yes 2 No 9 Not Applicable	<u>84S</u> 4	<u>85N</u> 4		
			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) 1 Yes 2 No 9 Not Applicable	<u>84S</u> 9	<u>85N</u> 9		
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> G	<u>83S</u> G		
0088	PRIVN	73N-81N 83N 74S-83S	Must Go Through Bedroom To Reach Non-Bath/Bedroom 1 Yes 2 No 8 Not Answered 9 Not Applicable (Unit has 0 Bedrooms), URE, Vacant, Or Non-interview	<u>83N</u> 7	<u>83S</u> 7		

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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 73N 74N-77N 74S-78S	No. Of Bedrooms Used for Sleeping By 3 Or More Persons <u>74S-78S</u> 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
0084	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	MAUREP		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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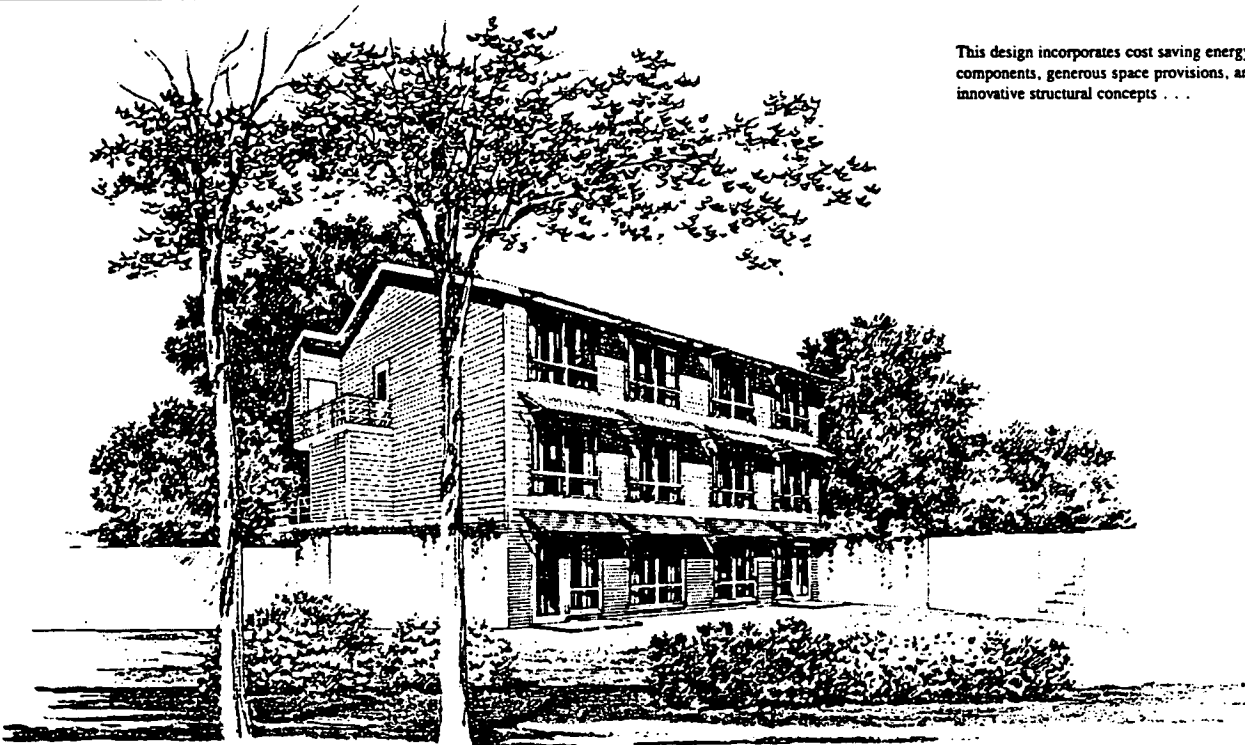
## **Structurally Innovative Fourplex**

*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 in the Past and Future Homes section. For data on fuels used to operate equipment discussed in this section and on utility costs, refer to the Fuels and Utility Costs section. In general, the variables are available for all units in the sample.

Telephone available--A housing unit has a telephone if there is one available to the occupants of the unit for receiving calls. The telephone may be located outside or inside the housing unit, and one telephone may serve the occupants of several units. Note that this definition is different from the 1980 Census, which counts a telephone only if it is inside the specific housing unit.

Complete kitchen facilities--A unit has complete kitchen facilities when it has all three of the following for the exclusive use of the occupants of the unit: (1) an installed sink with piped water, (2) a mechanical refrigerator, and (3) built in burners, not portable. Through 1983 the oven was not part of the definition. All kitchen facilities must be located in the structure. They need not be in the same room. Quarters with only portable cooking equipment are not considered as having a range or stove. An icebox is not included as a mechanical refrigerator.

The kitchen facilities are for the exclusive use of the occupants when they are used only by the occupants of one housing unit, including lodgers or other unrelated people living in the unit. When a structure consists of only one housing unit, all equipment located inside the structure is classified, by definition, for exclusive use.

For vacant units from which one or all of the kitchen facilities have been removed, the kitchen facilities used by the last occupant are to be reported.

Complete plumbing facilities--A unit has "complete plumbing facilities" if it has hot and cold piped water inside the unit as well as a flush toilet and a bathtub or shower inside the structure for the exclusive use of the occupants of the housing unit. All plumbing facilities must be located in the unit but they need not be in the same room. Note that plumbing facilities are considered complete if they are

located in the structure in which the unit is located, while in the Census, facilities are complete only if they are inside the specific housing unit. Plumbing facilities are shared if they are also for the use of the occupants of other housing units.

Source of water or water supply--"A public system or private company" refers to a common source supplying running water to six or more housing units. The water may be supplied by a city, county, water district, or private water company, or it may be obtained from a well which supplies six or more housing units. If a well provides water for five or fewer housing units, it is classified as an "individual well". Water sources such as springs, creeks, rivers, cisterns, ponds, or lakes are in the "other" category.

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

Air conditioning--Air conditioning is defined as the cooling of air by a refrigeration unit; excluded are evaporative coolers, fans, or blowers which are not connected to a refrigeration unit. A "room unit" is an individual air conditioner which is installed in a window or an outside wall and is generally intended to cool one room, although it may sometimes be used to cool more than one room. A "central system" is a central installation which air-conditions the entire housing unit. In an apartment building, a central system may cool all apartments in the building; each apartment may have its own central system; or there may be several systems, each providing central air conditioning for a group of apartments. A central installation with individual room controls is a central air-conditioning system.

Heating equipment--"Warm-air furnace" refers to a central system which provides warm air through ducts leading to various rooms. An "electric heat pump" refers to an electric all-in-one heating-cooling system which utilizes indoor and outdoor coils, a refrigerator, and a compressor to provide heating in the winter and cooling in the summer. Only heat pumps that are centrally installed with ducts to the rooms

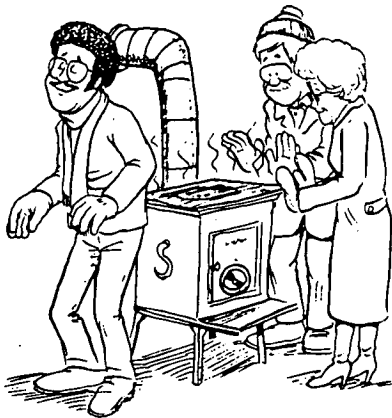
are in this category. "Steam or hot water" refers to a central heating system in which heat from steam or hot water is delivered through radiators or other outlets. "Built-in electric units" are permanently installed in floors, walls, ceilings, or baseboards. A "floor, wall, or other pipeless furnace or built-in hot air heater without ducts" delivers warm air to the room right above the furnace or to the room(s) on one or both sides of the wall in which the furnace is installed.

"Room heaters with flue" include circulating heaters, convectors, radiant gas heaters and other nonportable heaters that burn gas, oil, kerosene, or other liquid fuels, and connect to a flue, vent, or chimney to remove smoke and fumes. "Room heaters without flue" include any room heaters that burn gas, oil, or kerosene and do not connect to a flue, vent, or chimney. Starting in 1984, fireplaces, stoves and electric portable heaters are reported separately. Up through 1983, they were reported as a group and include room heaters that burn coal, coke, charcoal, wood or other solids. It also includes portable electric heaters that get current from an electrical wall outlet. According to interviewer instructions, portable heaters burning liquid fuel should be included under "fireplaces, etc.", not under "room heaters without flue", but the questionnaire does not mention the portability distinction, so some portable room heaters may be classified "room heaters", while others are classified "fire places, etc."

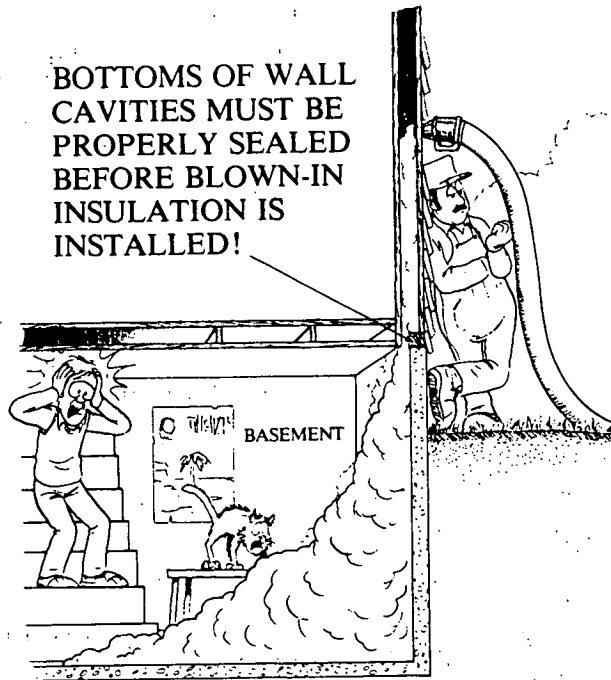
For vacant units from which the heating equipment had been removed, the equipment used by the last occupants is to be reported.

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

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



BOTTOMS OF WALL  
CAVITIES MUST BE  
PROPERLY SEALED  
BEFORE BLOWN-IN  
INSULATION IS  
INSTALLED!



Units Added to the Rental Stock  
1979-1980

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

## 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 Yes, Exclusive Use 2 Yes, Shared 3 No Complete Kitchen Facilities 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 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>81N</u> 3			
0119	PHONE	74N-93N 74S-93S	Use Of Telephone 1 Yes 2 No 9 Not Applicable	<u>83N</u> 9	<u>83S</u> 9	<u>84S</u> C1	<u>85N</u> C1
0120	SINK	85N-93N 84S-93S	Kitchen Sink Present For This Household's Use Only 1 Yes 2 No 8 Not Answered 9 Not Applicable			<u>84S</u> 4	<u>85N</u> 4
0121	REFR	85N-93N	Unit Has Refrigerator For This Hhld's Use Only			<u>84S</u> 6	<u>85N</u> 6
0122	DISPL	84S-93S	Unit Has Sink Disposal For This Hhld's Use Only			6	6
0123	COOK		Unit Has Cookstove Or Range With Oven			6	6
0124	OVEN		Unit Has An Oven For This Hhld's Use Only			6	6
0125	BURNER		Unit Has Cooking Burners For This Hhld's Use Only			6	6
0126	DISH		Unit Has A Dishwasher For This Hhld's Use Only			6	6
0127	WASH		Unit Has A Washing Machine For This Hhld Only			7	7
0128	DRY		Unit Has A Clothes Dryer For This Hhld's Use Only Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable			7	7
0129	REFR5	85N-93N	Newest Refrigerator Is Over 5 Years Old			<u>84S</u> 6	<u>85N</u> 6
0130	DISP5	84S-93S	Garbage Disposal In Sink Is Over 5 Years Old			6	6
0131	COOK5		Newest Oven/Cooking Burners Over 5 Years Old			6	6
0132	DISH5		Dishwasher Is Over 5 Years Old			6	6
0133	WASH5		Washing Machine Is Over 5 Years Old			7	7
0134	DRY5		Clothes Dryer Is Over 5 Years Old Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Appliance Not Present or Non-Interview			7	7
0135	APPOK	74N-78N 75S-81S	Sink, Refrigerator, Range All Usable <u>74N-77N 78N</u> <u>75S-81S</u>	<u>78N</u> 34	<u>81S</u> 14		
			1 Yes 2 No 3 No Complete Kitchen Facilities 8 Not Answered 9 Not Applicable				

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**EQUIPMENT (Continued)**

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	Complete Plumbing Facilities 73N-83N 85N-93N <u>74S-83S 84S-93S</u> 1 1 Yes, Exclusive Use 2 2 Yes, Shared 3 2 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 Hhid Only			<u>84S</u> 4	<u>85N</u> 4
0139	TOILET	84S-93S	Hhid Has A Flush Toilet For This Hhid's Use Only Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 At Least One Full Bath Or Non-Interview			4	4
0140	WATER	73N-93N 74S-93S	Water Source 73N-83N 85N-93N <u>74S-83S 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	Well Drilled or Dug 1 Drilled 2 Dug 8 Not Answered 9 Not Applicable	<u>83N</u> 3	<u>81S</u> 3	<u>84S</u> 5	<u>85N</u> 5
0143	WELDUS	85N-93N 84S-93S	How Many Units Well Serves 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		



**EQUIPMENT (Continued)**

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</u> <u>80S-81S</u> 1 1 Yes 2 2 No 8 Not Answered 9 9 Not Applicable	<u>83N</u> 46	<u>81S</u> 14		
0147	PUBSEW	73N-77N 85N-93N 74S-81S 84S-93S	House/Building Connected to Public Sewer 1 Yes 2 No 9 Not Applicable	<u>77N</u> 5	<u>81S</u> 5	<u>84S</u> 6	<u>85N</u> 6
0148	SEWDIS	73N-93N 74S-93S	Means of Sewage Disposal 73N-77N 78N-83N 85N-93N <u>74S-81S</u> <u>82S-83S</u> <u>84S-93S</u> 1 1 Public Sewer 2 2 Septic Tank/Cesspool 3 3 Chemical Toilet 4 4 Privy (or Outhouse) 5 5 Facilities In Other Structure 6 6 Other Sewage/Toilet Facilities 8 4 Not Applicable 9 9 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</u> <u>84S-93S</u> 1 1 Some Type of Air Conditioning Present 2 1 Room Air Conditioners Present 2 2 No Air Conditioning 8 2 No Room Air Conditioners Present 9 8 Not Answered 9 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						
				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>			
0182	AIRSYS	73N-93N 74S-93S	Central Air Conditioning Present	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>			
			73N-83N 85N-93N	11	11	7	7			
			74S-83S 84S-93S							
			1	1	Central AC Present					
				2	Central AC Not Present					
			2		Room AC Present					
				8	Not Answered					
			9	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	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>			
			1	1 Unit	11	11	7	7		
			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						
0154	RARUNT	80N	1 Room Air Conditionr Used To Reduce Use Of Central AC	<u>80N</u>						
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	<u>80N</u>						
			0 Something Used To Reduce Use Of Central A.C.	34						
			8 Nothing Used To Reduce Use Of Central A.C., or Not Answered							
			9 Not Applicable							
			Note: To distinguish between "nothing used" and "not answered" use one of the previous 7 variables.							
0182	HEQUIP	73N-93N 74S-93S	Main Type of Heating Equipment Used	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>			
			73N-76N 77N-81N 85N-93N	5	5	8	8			
			83N							
			74S-75S 76S-83S 84S-93S							
			1	1	1	Central Warm Air Furnace				
				2		Heat Pump				
					3	Electric Heat Pump				
			2	3	2	Steam or Hot Water/Hot Air				
			3	4		Built-in Electric Units				
					4	Other Built-in Electric Units				
			4	5		Floor, Wall or Pipeless Furnace				
					5	Built-in Hot Air Htr w/o Ducts				
			5	6	6	Room Heater With Vent or Flue				
						Burning Gas, Oil or Kerosene				
			6	7	7	Room Heater Without Vent or Flue				
			Burning Gas, Oil or Kerosene							
7	8		Fireplace, Stove, or Space Heater							
		8	Portable Electric Heaters							
		9	Stove(s)							
		10	Fireplaces With Inserts							
		11	Fireplaces Without Inserts							
		12	Other Heating Equipment							
8	9	13	No Heating Equipment							
9	99	99	Non-Interview							

**EQUIPMENT (Continued)**

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-Centrl 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/Pipeless Furn	42	8	8
0169	SFLIN		Suppl Heat From Vented Room Heater(s)	42	8	8
0170	SFLOT		Suppl Heat From Unvented Room Heater(s)	42	8	8
0171	SFRPL		Suppl Heat From Fireplace Without Inserts	42	8	8
0172	SSTOVE		Suppl Heat From Stoves	42	8	8
0173	SPORTH		Suppl Heat From Portable Room Heaters	42	8	8
0174	SHOTH		Suppl Heat From Other Source(s)	42	8	8
			Standard Codes For All Variables Are: 0 No Supplemental Heating Equipment Of The Type Specified 1 Supplemental Heating Equipment Of The Type Specified 9 Not Applicable			
			Note: These variables have been recoded in 1980S so that they conform to coding conventions used in 1981S. Also 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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 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>81S</u>	
No. Days This Type Suppl. Heat. Equip. Used Last Winter					
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	HA01SL	78N-80N	1 Solar Heating Equipment Acquired In Last 12 Months	33	
0192	HA02WS		2 Wood Or Coal Burning Stove Acquired In Last 12 Mos.	33	
0193	HA03FP		3 Wood Or Coal Burning Fireplace Acq. In Last 12 Mos.	33	
0194	HA04EH		4 Portable Electric Heater Acquired In Last 12 Months	33	
0195	HA05UV		5 Room Heater W/O Flue/Vent Burning Gas/Oil/Kerosene Acquired In Last 12 Months	33	
0196	HA06OT		6 Other Type Of Supplemental Heating Equipment Acq. In Last 12 Months	33	
0197	HA07NO		7 No Supp. Heating Equipment Acquired In Last 12 Mos.	33	
Standard Codes For All Variables Are:					
0 No Supplemental Heating Equipment of the Specified Type Acquired In Past 12 Months					
8 Not Answered					
9 Not Applicable					
Note: HA07NO exists only in 80N, not present in 78N-79N.					
				<u>79N</u>	
0198	FURAGE	77N-79N	Age of Furnace	37	
1 0-3 Years					
2 4-10 Years					
3 11-20 Years					
4 21-40 Years					
5 41 Or More Years					
6 Don't Know					
8 Not Answered					
9 Not Applicable					
				<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. 1 Added In Last 2 Years, Not Known By Whom 2 Not Added 3 Added In Last 2 Years, By Household Member 4 Added In Last 2 Years, Not By Household Member 8 Not Answered 9 Not Applicable	<u>80N</u> 35	<u>84S</u> 15
					<u>85N</u> 16

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**EQUIPMENT (Continued)**

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
0217	NEWWIN	75N	Wall Insulation Installed In Last 12 Months	<u>80N</u> 35
0218	NEWAIN	77N-80N	Attic Insulation Added In Last 12 Months	35
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
0219	AMTAIN	75N 77N-79N	Amount of Attic Insulation Added In Past 12 Months	<u>79N</u> 36
			1 Less Than 3 Inches	
			2 3-6 Inches	
			3 6 Inches or More	
			4 Don't Know	
			8 Not Answered	
			9 Not Applicable	
0220	NEWINW	80N	Insulation For Hot Water Equip Installed In Past 12 Mos.	<u>80N</u> 35
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 77N-80N	Weatherstripping Installed In Last 12 Months	<u>80N</u> 35
		75N 77N-79N		
		<u>80N</u>		
		1	1 Yes	
		2	2 No	
			3 Don't Know	
		8	8 Not Answered	
		9	9 Not Applicable	
0223	NEWICST	75N 77N-80N 85N-93N 84S-93S	Cost of Insulation Added In Last Two Years	<u>80N</u> 35
		75N 80N 85N-93N		<u>84S</u> <u>85N</u> 15 16
		<u>77N-79N</u> <u>84S-93S</u>		
			0-9997 \$0-\$9997	
		1	1 \$1-\$49	
			\$1-\$99	
		2	2 \$50-\$99	
			\$100-\$199	
		3	3 \$100-\$249	
			\$200-\$399	
		4	4 \$250-\$499	
			\$400 Or More	
		5	5 \$500-\$999	
		6	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 starting in 1984. The fourscale rating system in earlier years was changed to a ten-scale rating system, in which ten is most satisfied and one is least satisfied.

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

Common stairways--Data for common stairways are collected for housing units in structures of two or more units with common stairways. The data reflect the physical condition of the stairway, i.e., whether there are loose, broken or missing steps or stair railings. Common stairways are stairways which are usually used by the occupants or guests to get to the door of the unit. They may be inside or outside of the building. Starting in 1984, the condition of stairways is reported for all units.

Outside structural conditions--These data are provided by observation. A sagging roof is reported if it is substantial and can be seen without climbing on the roof. Missing roof

materials include rotted, broken or missing shingles, tiles, slates, etc. caused by extensive damage from fire, storm or serious neglect. Holes are reported if missing materials expose the inside of the unit to the elements. Missing materials on the walls and chimney do not have to expose the inside of the unit to the elements to be reported. The defects may have been caused by fire, storm, flood, neglect or vandalism. Boarded-up windows include both windows and doors which are covered by board, brick, metal or other material. Broken windows are reported if several panes are missing or broken. Foundation defects include large cracks, holes, and rotted, loose or missing material. None of the above defects are reported if the conditions are due to construction activities, unless it is obvious that the work has been abandoned.

Signs of basement water leakage--Signs of basement water leakage are recorded. Water leakage is present if the basement shows signs of water having leaked in from the outside, even if the signs only appear when it rains or during other similar situations. "No water leakage" means that the basement shows no signs of water leakage, or that the signs of water leakage are caused by a problem inside the structure such as faulty plumbing. If the basement shows signs of water having leaked in from the outside but the problem causing the leakage has been corrected, the unit was classified as having no basement leakage. Starting in 1984, the item is available if the respondent reported a water leakage in the last 12 months.

Leaking roof--Units with "water leakage" are those in which the roof shows signs of water having leaked in from the outside or where the roof leaks when it rains. "No water leakage" means that the roof shows no signs of water having leaked in from the outside, or that the roof shows signs of water leakage but the problem causing the leakage has been corrected. If the signs of water leakage are caused by a problem inside the structure such as faulty plumbing the unit is classified as having no basement leakage. Starting in 1984, this item is available if the respondent reported that water did 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.



Inside walls and ceilings--Data are collected on whether there are open cracks or holes and broken plaster or peeling paint on the inside walls or ceilings of a housing unit. Included are cracks or holes that do not go all the way through to the next room or to the outdoors. Hairline cracks or cracks that appear in the walls or ceilings but are not large enough for a fingernail file to be inserted, and very small holes caused by nails or other similar objects are not considered to be open cracks or holes.

Broken plaster or peeling paint must be on the inside walls or ceilings, and at least one area of the broken plaster or peeling paint must be larger than 8 inches by 11 inches.

Inside floors--Data are collected on whether there are holes in the inside floors of a housing unit. The holes do not have to go through the floor. Excluded are very small holes caused by nails or other similar objects.

Flush toilet, water supply, public sewage disposal and heating equipment break down--Plumbing breakdowns are reported if they lasted six or more consecutive hours, whether the problem was created by faulty equipment or by an interruption of the 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 before the interview unless the respondent has been in the unit for less than three months. Data on breakdowns or failures of flush toilets, water supply, sewage disposal and heating equipment were collected only if the housing unit had been occupied by the reference person of the household at least three months before the interview. Starting in 1984, the data are collected for all units and the questions are reworded as "Since you have lived here." For breakdowns or failures of heating equipment, data are collected only if the unit had been occupied by the reference person during the winter before the interview. To qualify as having lived here "last winter", the reference person must have moved into the unit before the previous February.

Electric wiring--A housing unit is classified as having exposed electric wiring if the unit has any wiring that is not enclosed, either in the walls or in metal coverings located in living areas only. Extension cords and other types of wiring that extend from a wall outlet to an appliance or lamp are not considered as exposed wiring.

Electric wall outlets--A housing unit is classified as having electric wall outlets in each room if there is at least one working electric wall outlet or wall plug in each room of the unit. A working electric wall outlet or wall plug is one that is in operating condition, i.e., can be used when needed. If a room does not have an electric wall outlet, an extension cord used in place of a wall outlet is not considered to be an electric wall outlet.

Programming Commands for Measures of Inadequacy

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

A three level index of physical problems is shown below:

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

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

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

_____	ALL HALL LIGHTS BRO
_____	NO ELECTRICITY
_____	HOLE IN ROOF
_____	OUTSIDE WALLS SLOPE
_____	NO REFRIGERATOR
_____	NO HOT WATER
_____	NO PERM BURNER
_____	NO OVEN
_____	NEITHER TUB NOR SHO
_____	NO FLUSH TOILET
_____	SAGGING ROOF
_____	MISSING ROOF MATERI
_____	NO KITCHEN SINK
_____	LOOSE RAILINGS
_____	BROKEN WINDOWS
_____	LOOSE STEPS
_____	CRUMBLING FOUNDATIO
_____	MISSING WALL MATERI
_____	HOLE IN FLOOR
_____	SEWER INTERRUPT
_____	WALL LEAKS
_____	WATER INTERRUPT
_____	PLUMBING BACKUP/OVE
_____	PEELING PAINT>1SOFT
_____	RATS IN BUILDING
_____	ALL TOILETS BRKN
_____	OVER 1 PERSON/RM
_____	HOME TOO COLD 24+ H
_____	PIPE LEAKS
_____	WALL OR CEILING CRA
_____	NO PHONE AVAILABLE
_____	BASEMENT LEAK
_____	2+ FUSES BLOWN WITH
_____	ROOF LEAK

Definition of Physical Problems19841983

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

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

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

Upkeep. Having any five of the following six maintenance problems: leaks from outdoors, 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.

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

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

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

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

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

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

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

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

Same

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

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

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

Same.

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

Same.

Same.

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

Same.

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

ZADEQ = 1

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

Heating If NUMCOLD  $\geq$  3 and NUMCOLD < 8 then ZADEQ = 3Electric If BUYE = 2 or PAYE = 3 then ZADEQ = 3  
If NOWIRE = 2 and PLUGS = 2 and NUMBLOW  $\geq$  3 and  
NUMBLOW < 8 then ZADEQ = 3Upkeep N = 0  
If RLEAK = 1 then N = N + 1  
If BLEAK = 1 then N = N + 1  
If HOLES = 1 then N = N + 1  
If CRACKS = 1 then N = N + 1  
If PAINT = 1 or PLASTER = 1 then N = N + 1  
  
If RATS = 1 then N = N + 1  
If N  $\geq$  5 then ZADEQ = 3  
  
If BLEAK = 9 and N = 4 then ZADEQ = 3Hallways M = 0  
If LTS = 2 or LTSOK = 3 then M = M + 1  
If BADSTEP = 1 then M = M + 1  
If RAILOK = 2 or RAILOK = 3 then M = M + 1  
If M = 3 then ZADEQ = 3**Moderate**

IF ZADEQ NE 3 THEN:

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

Heating If HEQUIP = 7 then ZADEQ = 2

Upkeep If N  $\geq$  3 then ZADEQ = 2

Hallways If M = 2 then ZADEQ = 2

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

END

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

If M = 4 then ZADEQ = 3

IF HEQUIP = 6 THEN ZADEQ = 2  
(In 73N-76N and 74S-75S)<sup>2</sup>If M = 3 THEN ZADEQ = 2  
(Starting in 1984)

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

UNIT QUALITY (Continued)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0224	ZADEQ	85N-93N 84S-93S	<b>Recorded 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

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	84S	85N
0229	ESAGR	85N-93N	House/Building Has Sagging Roof	42	53
0230	EMISSR	84S-93S	House/Building Has Missing Roof Materials	42	53
0231	EHOLER		House/Building Has Hole(s) In Roof	42	53
0232	ENOR		Could Not Observe Roof Of Sample Building	42	53
0233	EMISSW		House/Building Has Missing Wall Materials/Siding	42	53
0234	ESLOPW		House/Building Has Sloping Outside Walls	42	53
0235	EBROKE		House/Building Has Broken Windows	42	53
0236	EBAR		House/Building Has Bars On Windows	42	53
0237	ECRUMB		House/Building Has Crumbling Foundation	42	53
0238	ENOF		Unable to Observe Sample 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 54	83S 40
1 Yes					
2 No					
3 No Public Halls					
8 Not Answered					
9 Not Applicable					
0242	LTSOK	73N-93N 74S-93S	Public Hall Light Fixtures Working	83N 54	83S 40
73N-83N 85N-93N					
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 54	83S 40
73N-83N 85N-93N					
74S-83S 84S-93S					
1 2 Yes					
2 3 No					
3 1 No Common Stairs					
8 8 Not Answered					
9 9 Not Applicable					
0244	RAILOK	73N-93N 74S-93S	Firmly Attached Stair Railings	83N 54	83S 40
73N-83N 85N-93N					
74S-83S 84S-93S					
1 2 Yes					
2 3 No					
3 1 No Stair Rails					
8 8 Not Answered					
9 9 Not Applicable					
0245	LEAK	85N-93N	Water Leaked Into Home From Outside In Last 12 Mos	84S 5	85N 5
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 5	85N 5
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					

UNIT QUALITY (Continued)

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

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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 2 3 3 Or More 8 Not Answered 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  Note: Codes of '3' have been detected on original 1973 National Survey tape. <i>Suppressed if more than one toilet in unit 73-83</i>	<u>83N</u> 47	<u>83S</u> 29	<u>84S</u> 4	<u>85N</u> 4
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 2 3 4 4 Or More 8 Not Answered 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		
0289	IFSEW	73N-93N 74S-93S	<i>Sewage System</i> <del>Public Sewer</del> 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	<i>Sewage System</i> <del>Public Sewer</del> 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	<i>Sewage System</i> Number of <del>Public Sewer</del> 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 2 3 3 Or More 8 Not Answered 9 Not Applicable				



UNIT QUALITY (Continued)

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 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 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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UNIT QUALITY (Continued)

PAGE ON QUESTIONNAIRE

REF#	NAME	SURVEYS	DESCRIPTION		
0280	WHYCLD	85N-93N 84S-93S	Reason Why House/Apartment Uncomfortably Cold		<u>84S</u> 9
			85N-93N		<u>85N</u> 9
			<u>85S-93S</u> <u>84S</u>		
			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	Any Rooms Closed for Warmth Last Winter	<u>83N</u> 18	<u>83S</u> 30
		81N	1 Yes		
		83N	2 No		
		74S-83S	8 Not Answered		
			9 Not Applicable		
0282	NUMCLSD	73N-78N	Number and Which Rooms Closed For Warmth	<u>83N</u> 48	<u>83S</u> 30
		81N	4 Only Rooms Other Than Bedrm, Living, Dining		
		83N	30 Bedrooms		
		74S-83S	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		
0283	IFND	73N	Any Rooms Without Hot Air Ducts	<u>73N</u> 18	<u>74S</u> 18
		74S	1 Yes		
			2 No		
			8 Not Answered		
			9 Out of Universe		
0284	NUMND	73N-83N	Number of Rooms Without Hot Air Ducts	<u>83N</u> 7	<u>83S</u> 7
		74S-83S	73N 74N-81N		
			83N		
			<u>74S</u> <u>75S-83S</u>		
			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	Garbage Collection Services For Unit	<u>77N</u> 18	<u>81S</u> 18
		74S-81S	1 Yes		
			2 No		
			3 Don't Know		
			8 Not Answered		
			9 Not Applicable		
			Note: 1974 Census Documentation Shows 4=Not Answered		
0286	FTRASH	73N-77N	Frequency of Garbage Pickup	<u>77N</u> 18	<u>81S</u> 18
		74S-81S	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		

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

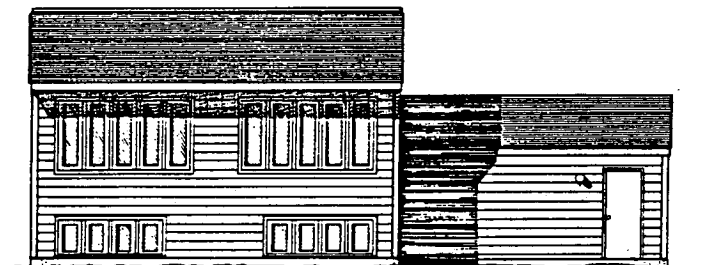
provide a thermal mass storage source to reradiate stored heat at night.

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

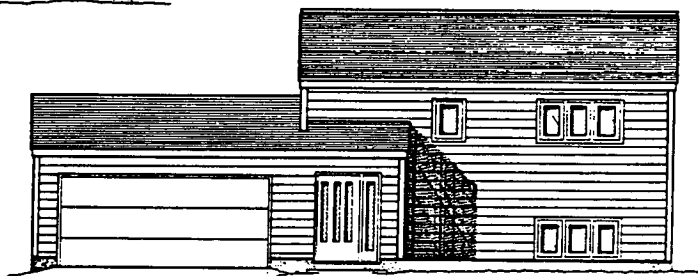
use of foundation walls as interior surfaces, and improving the thermal performance of the walls through the earth's added insulative properties.

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Elevations



South Elevation



North Elevation

Data on neighborhood conditions include the presence of particular services, their dependability/adequacy, and the presence/extent of both 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 files, the answers are preserved in three separate variables (e.g., CRIME, CRIMED, CRIMEM), while in later files, 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 sample of neighbors will be interviewed again in 1989 and 1993.

\_\_\_\_ UNDESIR BUSINESS  
\_\_\_\_ GOVT SERVICES  
\_\_\_\_ CRIME  
\_\_\_\_ LITTER/HSG DETERIOR  
\_\_\_\_ NOISE  
\_\_\_\_ TRAFFIC  
\_\_\_\_ PEOPLE

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE				
0291	HDWN	73N-79N 81N 83N 85N-93N 74S-93S	Resident's Satisfaction With Neighborhood 73N-79N 85N-93N 81N,83N 84S-93S 74S-83S		<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 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					
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			43	54	
			For All Variables, Standard Codes Are:					
			0 Feature Not Observed					
			1 Feature Observed					
			9 Not Applicable					
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		<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 43	<u>85N</u> 54
			73N-83N 85N-93N					
			74S-83S 84S-93S					
			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					

NEIGHBORHOOD (Continued)

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 3 None 4 Moderate Accumulation 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	OTHNHD		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 3 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>77N</u>	<u>81S</u>		
0321	TRAF	73N-77N	Heavy Street Traffic Present	30	30		
0322	STPL	74S-81S	Inadequate Street Lighting	30	30		
0323	DUMP		Rundown Houses or Buildings Present	30	30		
0324	AIPN		Airplane Noise Present	30	30		
0325	SNOW		Roads Impassable Due to Snow, Water, Etc.	30	30		
			For All Variables, Standard Codes Are:				
		73N 74N 75N-76N 77N					
		74S 75S-77S 78S-80S					
		81S					
		2 1 2 2	Condition Does Not Exist				
		1	Condition Exists				
		2 4 3	Exists, Not A Bother				
		4 6	Bothers, Not Enough To Move				
			4 Bothers A Little				
			5 Bothers Very Much				
		3 5 6	Bothers, Want To Move				
		1 1	Exists, Bothersomeness Not Answered				
		3	Bothers, Wish To Move Not Answered				
		8 8 8 8	Not Answered				
		9 9 9 9	Not Applicable				
			Note: SNOW is not available for 73N or 74S.				
				<u>83N</u>	<u>83S</u>	<u>85S</u>	<u>85N</u>
0326	STRN	73N-77N	Street Noise Present	49	31	46	46
0327	CRIME	79N	Street/Neighborhood Crime Present	49	31	46	46
		81N	For All Variables, Standard Codes Are:				
		83N	73N 74N 75N-76N 77N				
		85N-93N	74S 79N,81N 78S-80S				
		74S-83S	83N-93N				
		85S-88S	75S-77S				
			81S-83S				
			85S-88S				
		2 1 2 2	Condition Does Not Exist				
		1	Condition Exists				
		2 4 3	Exists, Not A Bother				
		4 6	Objectionable, Don't Wish To Move				
			4 Bothers A Little				
			5 Bothers Very Much				
		3 5 6	Objectionable, Wish To Move				
		1 1	Exists, Bothersomeness Not Answered				
		3	Bothers, Wish To Move Not Answered				
		8 8 8 8	Not Answered				
		9 9 9 9	Not Applicable				
				<u>83N</u>	<u>83S</u>	<u>85S</u>	<u>85N</u>
0328	ROAD	73N-77N	Street Continually In Need of Repair	49	31	46	46
0329	JUNK	79N	Trash, Litter or Junk Present	49	31	46	46
0330	ABAN	81N	Houses Or Buildings In Rundown Condition Present	49	31	46	46
0331	NONRES	83N	Commercial, Industrial, Non-Res Activities Present	49	31	46	46
0332	ODOR	85N	Odors, Smoke Or Gas Present	49	31	46	46
		74S-83S	For All Variables, Standard Codes Are:				
		85S-87S	73N 74N 75N-76N 77N				
		74S	79N,81N 78S-80S				
			83N,85N				
			75S-77S				
			81S-83S				
			85S-87S				
		2 1 2 2	Condition Does Not Exist				
		1	Condition Exists				
		2 4 3	Exists, Not A Bother				
		4 6	Objectionable, Don't Wish To Move				
			4 Bothers A Little				
			5 Bothers Very Much				
		3 5 6	Objectionable, Wish To Move				
		1 1	Exists, Bothersomeness Not Answered				
		3	Bothers, Wish To Move Not Answered				
		8 8 8 8	Not Answered				
		9 9 9 9	Not Applicable				



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0333	STRND	73N	Street Noise Disturbing	<u>73N</u>	<u>74S</u>		
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				
0344	STRNM	73N	Street Noise-Want To Move	<u>73N</u>	<u>74S</u>		
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				
0355	FUZZ	74N-77N	Police Protection Adequate	<u>83N</u>	<u>83S</u>		
		79N	74N-77N	49	31		
		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				
0356	FUZZM	74N-77N	How Inadequate Is Police Protection	<u>83N</u>	<u>83S</u>	<u>85S</u>	<u>85N</u>
		79N	74N-76N 77N 85N	49	31	46	46
		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				
		1 4	4 Inadequate Service, Wish To Move				
		2	5 Inadequate Service, No Wish To Move				
			Not A Bother				
			2 Bothers A Little				
			3 Bothers Very Much				
		8 8	8 Not Answered				
		9 9	9 Not Applicable				

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

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	2	1	Adequate	83N 50	83S 32	85S 47	85N 47
				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	2		Not A Bother or Not Enough To Move	77N 31	81S 31		
					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				83N 50	83S 32	85S 47	85N 47
0360	SCHPUB	79N	1 Public Elementary School				83N 50	83S 32	85S 47	85N 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 SCHNO described below.							
0363	SCHNO	79N 81N-93N 82S-83S 85S-88S	Do School Age Children Attend School 4 Do Not Attend School 8 Not Answered 9 Not Applicable				83N 50	83S 32	85S 47	85N 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				83N 50	83S 32	84S	
0365	SCH	73N-77N 85N-93N 74S-81S 83S	Schools Adequate 73N 74N-77N 74S 85N-93N 75S-81S 83S	2	1	Adequate	77N 31	83S 32		85N 47
				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	2		Not A Bother or Not Enough To Move	77N 31	81S 31	85S 47	85N 47
					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	Public School Within 1 Mile	<u>83N</u>	<u>83S</u>	<u>85S</u>	<u>85N</u>
		81N-93N	1 Yes	50	32	47	47
		82S-83S	2 No				
		85S-88S	8 Not Answered 9 Not Applicable				
0368	RECR	77N	Outdoor Recreation Facilities Adequate	<u>83N</u>	<u>83S</u>		
		79N	1 Adequate	49	31		
		81N	2 Inadequate				
		83N	3 Don't Know				
		77S-83S	8 Not Answered 9 Not Applicable				
0369	RECRM	77N	How Inadequate Are Outdoor Rec. Facilities	<u>83N</u>	<u>83S</u>		
		79N	77N 79N,81N	49	31		
		81N	83N				
		83N	78S-80S 77S				
		77S-83S	<u>81S-83S</u>				
			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	Hospitals Or Health Clinics Adequate	<u>83N</u>	<u>83S</u>		
		79N	1 Adequate	49	31		
		81N	2 Inadequate				
		83N	3 Don't Know				
		75S-83S	8 Not Answered 9 Not Applicable				
0371	HOSPM	74N-77N	Hospitals So Inadequate That You Want To Move	<u>83N</u>	<u>83S</u>	<u>85S</u>	<u>85N</u>
		79N	74N-76N 77N 85N	49	31	46	46
		81N-85N	79N,81N 78S-80S 85S-87S				
		75S-83S	83N				
		85S-87S	75S-77S <u>81S-83S</u>				
			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 Not Answered 9 9 Not Applicable				
0372	FIRE	74N-76N	Fire Protection Adequate	<u>76N</u>	<u>76S</u>		
		74S-76S	74N-76N	30	31		
			<u>74S</u> <u>75S-76S</u>				
			2 1 Adequate				
			1 2 Inadequate				
			3 3 Don't Know 8 8 Not Answered 9 9 Not Applicable				
0373	FIREM	74N-76N	Fire Protection So Inadequate That You Want To Move	<u>76N</u>	<u>76S</u>		
		74S-76S	1 Bothers, Want To Move	30	31		
			2 Not a Bother or Not Enough to Move				
			8 Not Answered				
			9 Not Applicable				

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				83N	83S	85S	85N
0374	NEWTRN	79N 81N-93N 82S-83S 85S-88S	Public Transportation Available 1 Yes 2 No 8 Not Answered 9 Not Applicable	50	32	47	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	50	32	47	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	31	31	47	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	50	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 1 4 Bothers, Want To Move 8 8 Not Answered 9 9 Not Applicable	31	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 2 Not A Bother 3 3 3 Move Due to 5+ Conditions 3 Bothers, Not Enough to Move 4 4 4 Inadequate, But No Wish To Move 4 Bothers, Want To Move 5 5 5 Wish To Move Not Reported 5 Bothers, Wish To Move Not Reported 6 Condition Exists, Bothersomeness Not Answered 8 8 8 7 Not Answered 9 9 9 9 Not Applicable	77N G	83S 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 Out of Universe	74N G	74S 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	74N G	74S G		

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

0382 ZSERVM2 74N-77N Recoded Wish To Move Due To Inadequate Services

77N  
G

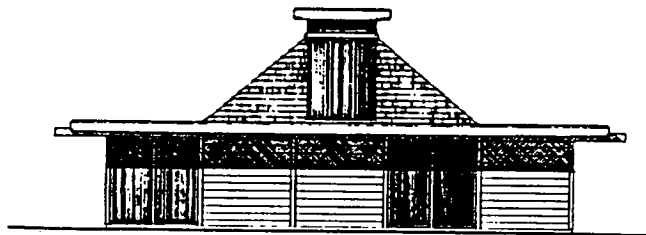
- 1 Wish To Move
- 2 Don't Wish To Move
- 3 Wish To Move Not Reported
- 4 No Inadequate Services
- 5 Don't Know (Not On 74N)
- 8 Not Answered
- 9 Not Applicable

**Elevations**

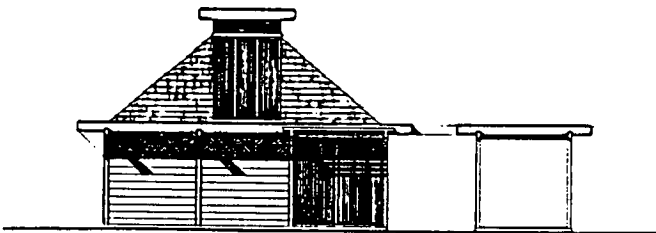
solar exposure, reducing thermal loads.

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

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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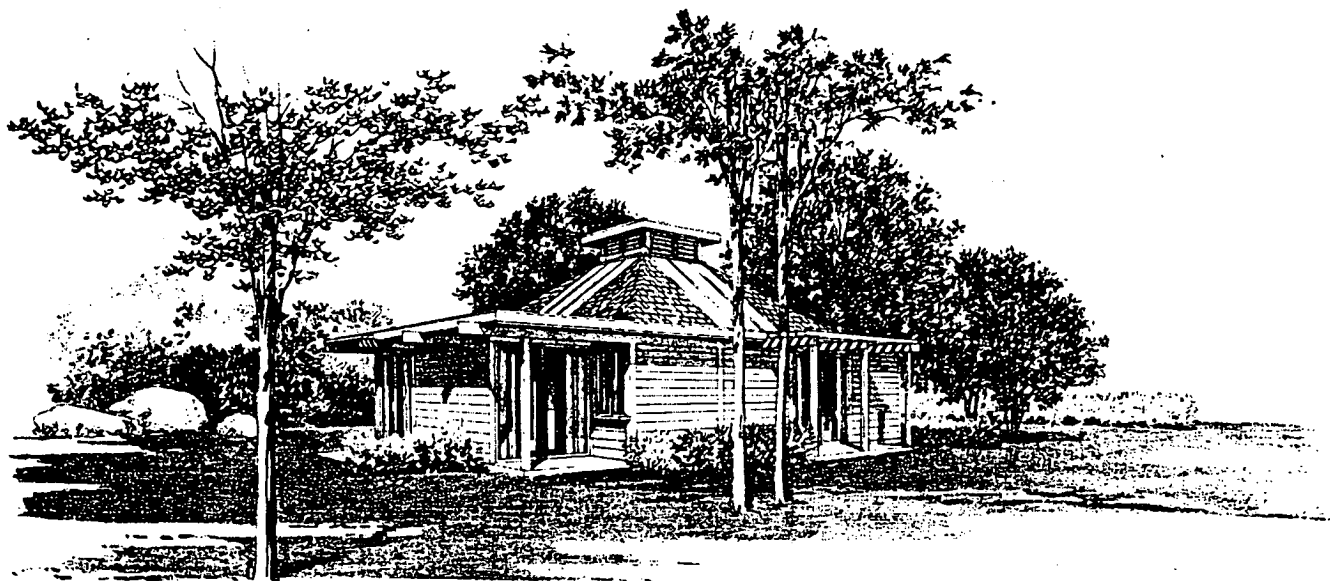
## **Naturally Cooled Post & Beam**

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

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

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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 people, number of adults, number of children, number of people not related to the head or reference person, and number of people 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 people 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 people--All people occupying the housing unit are counted. These people 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 people 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 house hold who is not related to the reference person by blood, marriage, or adoption. Roomers, boarders, lodgers, partners, resident employees, wards, and foster children are 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 kept 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 people 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<sup>L</sup>-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 people 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.

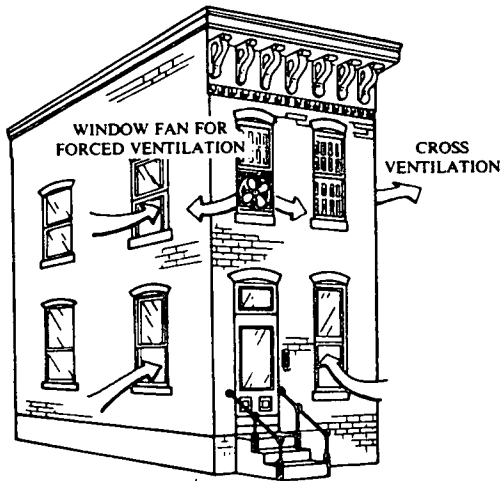
Household characteristics--As described above, the American Housing Survey has information on each person in each household: age, sex, marital status, relationship to a reference person, and race. These are stored in AGE-AGE15, SEXSEX15, MAR-MAR15, REL-REL15, and RACE-RACE15.

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 later 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 stays 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 starting in 1984.



- \_\_\_\_\_ UNREL.FAMS LIV.TOGE
- \_\_\_\_\_ NATIVE AMERICAN
- \_\_\_\_\_ ASIAN AMERICAN
- \_\_\_\_\_ CONDO OR COOPERATIV
- \_\_\_\_\_ ALL UNREL.HOUSEMATE
- \_\_\_\_\_ 3 GENERATIONS
- \_\_\_\_\_ MOBILE HOME
- \_\_\_\_\_ 1 ADULT W/CHILDREN
- \_\_\_\_\_ HISPANIC
- \_\_\_\_\_ BUILT IN LAST 5 YEA
- \_\_\_\_\_ BLACK
- \_\_\_\_\_ WELL WATER
- \_\_\_\_\_ 65+ IN HOUSEHOLD
- \_\_\_\_\_ MOVED IN LAST YEAR
- \_\_\_\_\_ IN 1ST HOME EVER OW
- \_\_\_\_\_ RENTERS
- \_\_\_\_\_ WORKING FIREPLACE
- \_\_\_\_\_ HAVE MORTGAGE
- \_\_\_\_\_ LIVED HERE > 5 YEAR
- \_\_\_\_\_ CHILDREN IN HOME
- \_\_\_\_\_ HIGH SCH.GRAD OR LE
- \_\_\_\_\_ AIR CONDITIONED
- \_\_\_\_\_ OWNER-OCCUPANTS
- \_\_\_\_\_ WHITE, NOT HISPANIC





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	\$ SAL1 00
PLINE	o None
3960	\$ SAL2 00
PLINE2	o None
3980	\$ SAL3 00
PLINE3	o None
4000	\$ SAL4 00
PLINE4	o None
4020	\$ SAL5 00
PLINE5	o None
4040	\$ SAL6 00
PLINE6	o None
4060	\$ SAL7 00
PLINE7	o None
4080	\$ SAL8 00
PLINE8	o None
4100	\$ SAL9 00
PLINE9	o None
4120	\$ SAL10 00
PLINE10	o None

**115a.** In the past 12 months did ... or ... (Specify names for line numbers in item 114) -

(1) Have a business, farm or ranch?	4140	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	QBUS  QSS  If all "No." QINT skip to item 116 QRENT QWELE QAUM QOTHER
(2) Receive social security or pensions? (Social security checks are green. Do not count pale gold SSI checks as social security.)	4160	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	
(3) Receive any interest or dividend income of \$400 or more?	4170	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	
(4) Receive rental income?	4180	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	
(5) Receive welfare or SSI?	4190	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	
(6) Receive alimony or child support?	4210	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	
(7) Receive unemployment or worker's compensation or any other income?	4220	1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	

**b.** In the past 12 months what was the total income from (Sources marked "Yes" in item 115a) after deducting expenses and losses?

4330 \$ VOTHER 00 Total income after deducting expenses and losses

OR

Verified that identical amounts in items 114 and 115b are not duplicate amounts

4340 \$ VOTHER 00 Amount of total net loss

OR

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

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</u> <u>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 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 Not Present, Vacant, URE, Or Non-Interview  
99 Vacant Or Non-Interview (URE Coded Above)

REF#	NAME	SURVEYS	DESCRIPTION	84S	85N
0399	PAR	85N-93N	Line Number of Parent Of Reference Person	C2	C2
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 SPDS below.

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	
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 75S-93S	Relationship to Reference Person	<u>83N</u> 8	<u>83S</u> 8
			74N 75N-83N 85N-93N	C2	C2
			75S-83S 84S-93S		
			1 Reference Person, Other Rel's Present		
			2 Reference Person, No Rel's 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				
			3	Not Present
			4	Husband of Ref Person
				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/Dwn 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		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

				84S	85N
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	

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>84S</u>	<u>85N</u>
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.

				<u>84S</u>	<u>85N</u>
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

				<u>73N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
0490	AGE	73N	Age of Head/Reference Person	1	8	C2	C2
		85N-93N	73N 74S-77S 78S-83S 84S-93S				
		74S-93S	85N-93N				
			10-90				
			91				
			10-96				
			97				
			01-98				
			99				
			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	
	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	83N
		74N 75N-76N 77N-81N		8
			83N	
		1	1	14-19 Years
		2	2	20-24 Years
		3	3	25-29 Years
		4	4	30-34 Years
		5	5	35-39 Years
		6	6	40-44 Years
		7	7	45-49 Years
		8	8	50-54 Years
		9	9	55-59 Years
		10	10	60-61 Years
		11	11	62-64 Years
		12	12	65-69 Years
			12	65-67 Years
			13	68-69 Years
		13	13	70-74 Years
		14	14	75-79 Years
		15	15	80-84 Years
		16	16	85-89 Years
		17	17	90 Years Or Over
		99	99	Vacant, URE Or Non-Interview
		99		Vacant Or Non-Interview, URE Coded Above

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

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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)

0521	RACE	73N-93N 74S-93S	Race Of Head/Reference Person	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
			73N-74N 75N-83N 85N-93N				
			74S 75S-83S 84S-93S				
			1 1 1				
			2 2 2				
			3 3 3				
			4 4 4				
			5 5 5				
			9 9 9				
			9				

- White, Including Hispanic White
- Black, Including Hispanic Black
- American Indian, Aleutian, Eskimo Or Pacific Islander
- Asian or Pacific Islander
- Other
- Vacant, URE, Or Non-Interview
- Vacant Or Non-Interview (URE Coded Above)

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

For All Variables, Standard Codes Are:

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

75S-83S 84S-93S

- 0 Not Present
- 1 1 1 White, Including Hispanic White
- 2 2 2 Black, Including Hispanic Black
- 3 3 3 American Indian, Aleutian, Eskimo Or Pacific Islander
- 4 4 4 Asian or Pacific Islander
- 5 5 5 Other
- 9 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 2 Mexican American 3 Chicano 4 Mexican 5 Mexicano 6 Puerto Rican 7 Cuban 8 Central or South American 9 Other Spanish 2 Not Hispanic or Spanish American 9 Vacant, URE, or Non-Interview 99 Vacant 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> C2	<u>85N</u> C2
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 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		Not Present, Vacant, URE, Or Non-Interview
9			Vacant Or Non-Interview (URE Coded Above)

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S	84S	85N
				74N	75N-83N	85N-93N	75S-83S
0568	GRADE1	74N-93N 75S-93S	Highest School Grade Attended By Head/Reference Person	9	9	C2	C2
			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 Coded Above)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0569	GRAD2	85N-93N	Highest School Grade Attended By Person 2			84S	85N
0570	GRAD3	84S-93S	Highest School Grade Attended By Person 3			CC	CC
0571	GRAD4		Highest School Grade Attended By Person 4			CC	CC
0572	GRAD5		Highest School Grade Attended By Person 5			CC	CC
0573	GRAD6		Highest School Grade Attended By Person 6			CC	CC
0574	GRAD7		Highest School Grade Attended By Person 7			CC	CC
0575	GRAD8		Highest School Grade Attended By Person 8			CC	CC
0576	GRAD9		Highest School Grade Attended By Person 8			CC	CC
0577	GRAD10		Highest School Grade Attended By Person 10			CC	CC
0578	GRAD11		Highest School Grade Attended By Person 11			CC	CC
0579	GRAD12		Highest School Grade Attended By Person 12			CC	CC
0580	GRAD13		Highest School Grade Attended By Person 13			CC	CC
0581	GRAD14		Highest School Grade Attended By Person 14			CC	CC
0582	GRAD15		Highest School Grade Attended By Person 15			CC	CC

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	79N	25
------	--------	-----	---	-----	----

- 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

REF#	NAME	SURVEYS	DESCRIPTION	83N	83S	84S	85N
0584	OTH6	74N-93N	Other Persons Under 6 Yrs Old, Beyond Pers 1-15 Above	**	**	**	**
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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HOUSEHOLD COMPOSITION. (Continued)

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 99	0 1-98 99	0 1-98 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 99	0-98 99	0-98 99		
							0-98, Vacant 0-98 URE, Non-Interview (Vacant coded above) 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
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	73N 74N-77N 74S	Number of Subfamily Heads 65 or Over 0-1 None Or 1 99 9 Not Applicable	1	1
0600	ZCOMP	73N-84N 74S-83S	Recoded HH Composition By Age, Sex of Reference Person 73N-74N 75N-77N 78N-80N 81N-83N 74S 75S-76S 77S-79S 80S-83S	<u>83N</u> G	<u>83S</u> G
			01 01 01 01 Married Couple, LT 25, NNR 02 02 02 02 Married Couple, 25-29, NNR 03 03 03 03 Married Couple, 30-34, NNR 04 04 04 04 Married Couple, 35-44, NNR 05 05 05 05 Married Couple, 45-64, NNR 06 06 06 06 Married Couple, 65+, NNR 07 07 07 07 Married Couple, LT 25, NR, MH 07 07 07 07 Married Couple, LT 65, NR 08 08 08 08 Married Couple, 25-29, NR, MH 09 09 09 09 Married Couple, 30-34, NR, MH 10 10 10 10 Married Couple, 35-44, NR, MH 11 11 11 11 Married Couple, 45-64, NR, MH 08 12 12 12 Married Couple, 65+, NR, MH 09 12 12 12 Other Male Householder LT 65 13 13 13 13 Other Male Householder LT 25 14 14 14 14 Other Male Householder 25-29 15 15 15 15 Other Male Householder 30-34 16 16 16 16 Other Male Householder 35-44 17 17 17 17 Other Male Householder 45-64 10 18 18 18 Other Male Householder 65+ 11 18 18 18 Female Householder LT 65 19 19 19 19 Other Female Householder LT 25 20 20 20 20 Other Female Householder 25-29 21 21 21 21 Other Female Householder 30-34 22 22 22 22 Other Female Householder 35-44 23 23 23 23 Other Female Householder 45-64 12 24 24 24 Other Female Householder 65+ 13 24 24 24 Single Male LT 65 25 25 25 25 Single Male LT 25 26 26 26 26 Single Male 25-29 27 27 27 27 Single Male 30-34 28 28 28 28 Single Male 35-44 29 29 29 29 Single Male 45-64 14 30 30 30 Single Male 65+ 31 31 31 31 Single Female LT 25 32 32 32 32 Single Female 25-29 33 33 33 33 Single Female 30-34 34 34 34 34 Single Female 35-44 35 35 35 35 Single Female 45-64 36 36 36 36 Single Female 65+ 37 MC, Fem Hholder, NR, LT 25 38 MC, Fem Hholder, NR, 25-29 39 MC, Fem Hholder, NR, 30-34 40 MC, Fem Hholder, NR, 35-44 41 MC, Fem Hholder, NR, 45-64 42 MC, Fem Hholder, NR, 65+		
			99 99 99 99 Not Applicable		

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
0601	KLINE1	83N	Line Number of First Female Hhld Member 35 or Older	<u>83N</u> 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	
0605	KIDS1	83N	First 35+ Female Raised Child(ren) To Adulthood	<u>83N</u> 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	
0609	NMKID1	83N	No. of Child(ren) Raised To Adulthood By 1st 35+ Female	<u>83N</u> 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	
0613	KIDG01	83N	Any Child(ren) of First 35+ Female Left Home	<u>83N</u> 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	
0617	WKDG01	83N	When Most Recent Leaver Left (1st 35+ Female's Child)	<u>83N</u> 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 nonrelatives (wages, salaries and other incomes) is reported separately for each non-relative. Up through 1983, 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.

Up through 1983, 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.

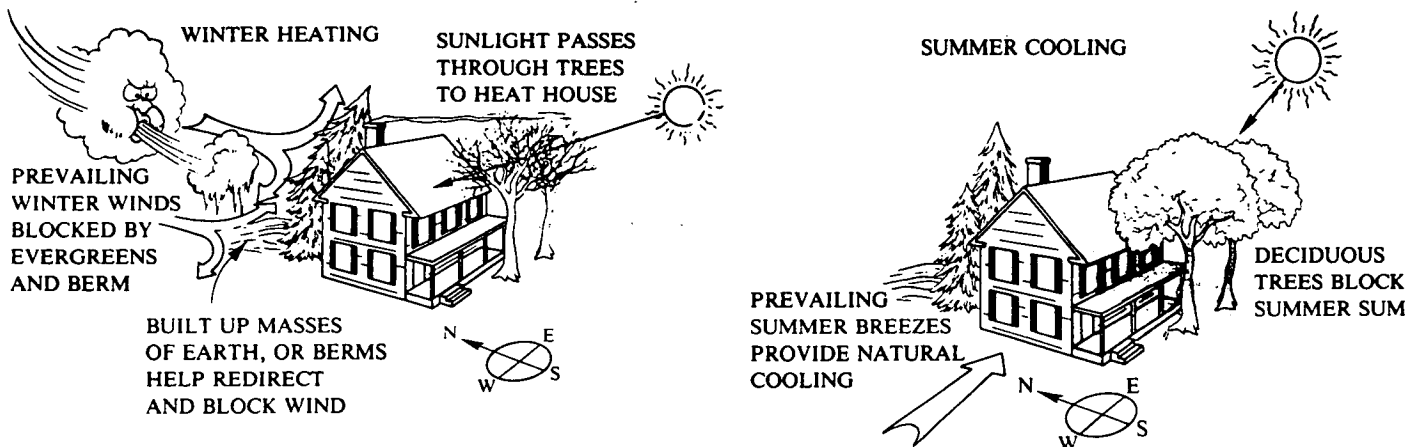
Accounting Period--There may be significant differences in the income data between the American Housing Survey and other

surveys and Censuses. For example, the time period for income data in the American Housing Survey refers to the 12 months before the interview while other income data generally refer to the calendar year before 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 before 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 selfreported income in various surveys. These studies show there are errors in both directions (over- and under-reporting), but that in general, income is underreported. 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 Question and Survey Year

Year	SAL1-SAL15 INCOME, YIWS YSLF, YFRM ESS-EOTHER YSS-YOTHER4	PBUS PFARM PROFIT	VTOTAL QSS-QOTHER 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-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 selfemployment 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 people, 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 excluded. This category does not include money received from the Supplemental Security Income Program (SSI), which is included under other income below.

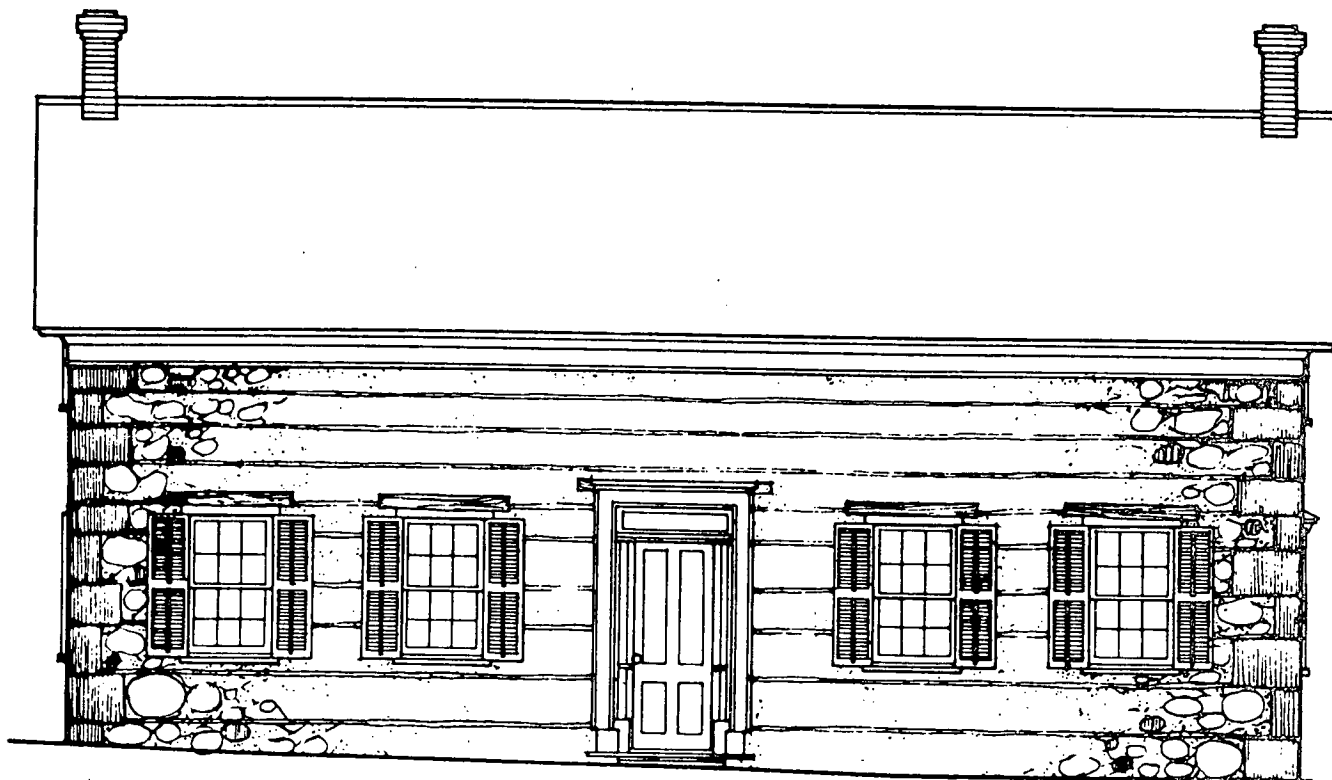
Income from all other sources--This includes money income received from sources such as periodic payments from estates and trust funds; dividends; interest; net rental income from property rentals; net receipts from roomers or boarders; net royalties; public assistance or welfare payments, which include 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 people 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 people who are not members of the household; net gambling gains; and nonservice scholarships and fellowships. Up through 1983, the sources of income specified to the respondent were more detailed than they have been from 1984 on. For example, there previously were three categories to capture pensions: "Social Security or Railroad Retirement payments," "Government employee pensions" and "Private pensions or annuities." From 1984 on, 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 is 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.



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 85N-93N 74S-83S 84S-93S	<u>83N</u> G	<u>83S</u> G	<u>84S</u> G	<u>85N</u> G
			0 No Income 1-999996 \$1 to \$999,996 -10000 -10000 Loss Of \$10,000 Or More -1 To -9999 Loss of \$1 to \$9,999 1 To 49999 \$1 to \$49,999 50000 \$50,000 Or More 999999 999999 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			<u>84S</u> G	<u>85N</u> G
0623	ZINC2	85N-93N 77S-81S 84S-93S	Income Of All Hshld Members Incl. Non-Relatives 85N-93N 77S-81S 84S-93S	<u>81S</u> G	<u>84S</u> G	<u>85N</u> G	
			0 No Income 1-999996 \$1 to \$999,996 -10000 -10000 Loss Of \$10,000 Or More -1 To -9999 Loss of \$1 to \$9,999 1 To 49999 \$1 to \$49,999 50000 \$50,000 Or More 999999 999999 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			<u>84S</u> G	<u>85N</u> G
0624A	ZINCH	89N-93N 90S-93S	Total Family Income Same This Month as a Year Ago 1 Within 10%, or just cost of living adjustment 2 Changed 8 Not Answered 9 Vacant, URE, or Non-Interview				89N 28
0624B	ZINCN	89N-93N 90S-93S	Total Family Income Expected in Next 12 Months -10001 to -1 Loss 0 No Income Expected 1 to top Income 999998 Not Answered 999999 Vacant, URE, Non-Interview or no change Note: This variable is for comparison with CURRENT housing costs in ZSMHC. Top-Coded at 97th percentile.				89N 28
0624C	P00R	89N-93N 90S-93S	Total Household Income as Percent of Poverty Level 0001 .1% of poverty or below (incl. Negative or Zero income) 0002 to top 000.2% of poverty to top (rounded to tenth of a pct) 9999 Vacant, URE, or Non-Interview Note: Top-Coded at 97th percentile.				89N G
0625	LINE1	74N-81N	Line Number of First Family Adult	<u>83N</u> 16	<u>83S</u> 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	<u>83N</u> 19	<u>83S</u> 19	<u>84S</u> 25	<u>85N</u> 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	
0639	HERE1	85N-93N	Income Of Nonrelative 1 Reported or Estimated by Respondent	84S	85N
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.

0654	NONREL	78S-81S	Number Of Nonrelatives Reporting Income	81S	
			0-4 Number Of Nonrelatives Reporting Income	G	
			9 Vacant, URE or Non-Interview		
0655	SAL1	74N-93N	Annual Salary, Wages, Tips, Commissions-Family Adult 1	83N	83S
0656	SAL2	75S-93S	Annual Salary, Wages, Tips, Commissions-Family Adult 2	16	16
0657	SAL3		Annual Salary, Wages, Tips, Commissions-Family Adult 3		
0658	SAL4		Annual Salary, Wages, Tips, Commissions-Family Adult 4		
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	75N-83N	85N-93N	
75S-83S		84S-93S	
0		0	None, Or No Adults 2-6 Present
	0	0	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	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.

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	
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: 0 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 74S	Family Income From Wages, Salary, Tips, Commis Etc.	73N 15	74S 16
			0-49999 \$0-\$49999		
			50000 \$50000 Or More		
			99999 Not Applicable		
0672	PROFIT	73N 74S	Family Income From Business, Prof Practice, Or Farm	73N 15	74S 16
			-10000 Loss of \$10,000 Or More		
			-1 To -9999 Loss of \$1 To \$9999		
			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 75S-83S	Amt Of Family Earnings From Farm Or Ranch	16	16
			-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 83N 76S-83S	Nonrelative Income From Wages, Salary, Tips, Commis Etc.	83N G	83S G
			0-49999 \$0-\$49999		
			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 76S-83S	Nonrelative Earnings Farm Or Ranch	G	G
			-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 84S-93S	Family Adult(s) Had Business, Farm, Ranch In Past 12 Mos	84S 26	85N 26
			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			
0678	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	QGOVNP	74S-83S	Any Government Employee Pension Income, Family	17	17		
0689	QVET		Any Veteran's Payments Income, Family	17	17		
0690	QPRVNP		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>	<u>83S</u>	<u>84S</u>	
				17	17	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	INV20K		Total Amt of Savings/Investments Over <u>\$20,000</u> For All Variables, Standard Codes Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable <i>1989 or later \$25,000</i>			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>	<u>85N</u>
						27	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*	83N	83S	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	83N	83S	84S	85N
		74S-93S	74N-83N 78S-83S 85N-93N	17	17	26	26
			74S-77S 84S-93S				
			-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				
			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	74S	16		
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	83N	83S	17	17
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	84S	85N	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	
0725	FRENT1	85N-93N	Frequency Of Non-Relative 1's Rent	84S	85N
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					
0733	RENT1	85N-93N	Amount of Rent Paid By Non-Relative 1	84S	85N
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.					
0741	FOOD1	85N-93N	Rent Paid By Non-Relative 1 Includes Food	84S	85N
0742	FOOD2	84S-93S	Rent Paid By Non-Relative 2 Includes Food	25	25
0743	FOOD3		Rent Paid By Non-Relative 3 Includes Food	25	25
0744	FOOD4		Rent Paid By Non-Relative 4 Includes Food	25	25
0745	FOOD5		Rent Paid By Non-Relative 5 Includes Food	25	25
0746	FOOD6		Rent Paid By Non-Relative 6 Includes Food	25	25
0747	FOOD7		Rent Paid By Non-Relative 7 Includes Food	25	25
0748	FOOD8		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	77N	83S
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	EWKOMP		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	EOUTPR		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."					

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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	YGOVFN		Amt. Of Government Employee Pension Income, non-rels	G	G
0770	YVET		Amt. Of Veteran's Payments Income, non-rels	G	G
0771	YPRVFN		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	YGOVFN2		Amt of Government Employee Pension Rec'd By Non-rel 2	19
0806	YGOVFN3		Amt of Government Employee Pension Rec'd By Non-rel 3	19
0807	YGOVFN4		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	YPRVFN2		Amt of Priv Pension & Annuity Income Rec'd By Non-rel 2	19
0812	YPRVFN3		Amt of Priv Pension & Annuity Income Rec'd By Non-rel 3	19
0813	YPRVFN4		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.

0823	PROJ	73N-93N 74S-93S	Publicly Owned Housing 73N-77N 78N-93N 74S-83S 84S-93S	83N 15	83S 15	84S 14	85N 15
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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".

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.

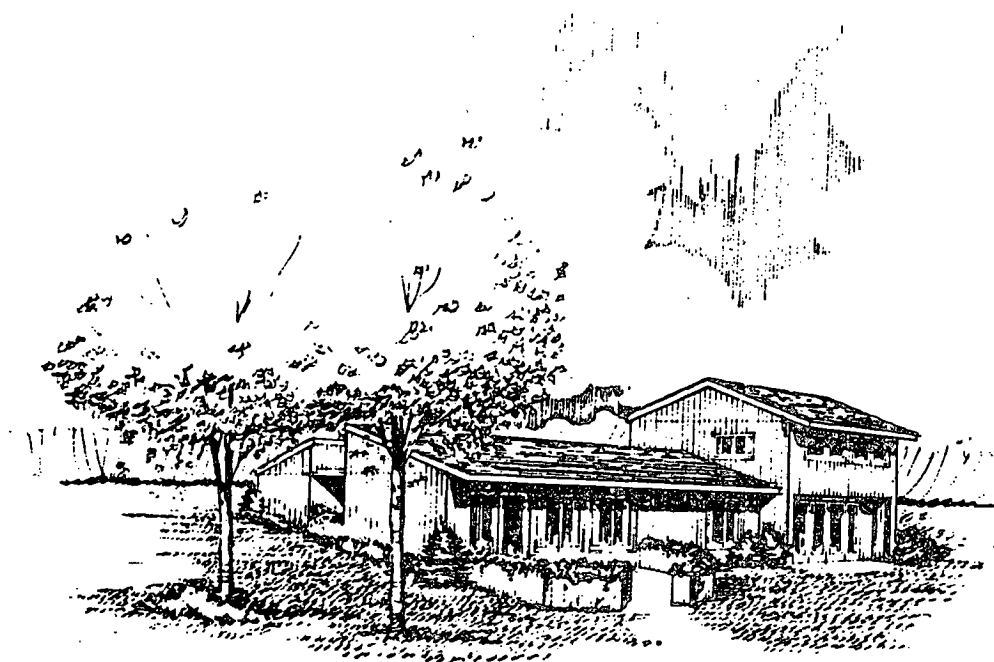
REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
0824	SUB	73N-93N 74S-93S	Federal Govt Pays Some Of The Cost Of The Unit 1 Yes 2 No 8 Not Answered 9 Vacant, URE, Non-Interview, Owner Occupied Or Publicly Owned Note: Prior to 1984, the question includes state and local government subsidies as well. 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	EASST		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

*From 88 co. YES IS only allowed for units in CA, CT, DC, NJ, NY, MA*



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
0838	HTASCR	83N	Home Heat Assistance For Current Residence	83N
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 Sponsor:</b>	Earth-Sun Design Division of Maslavski/Litvan Architects and Planners, Inc. P.O. Box 2473 Springfield, Illinois 62705	<b>Consultant for Barrier-Free Access:</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>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 Batahew, Ph.D.  
**Sponsor:** Camp Wood Star Route  
Prescott, Arizona 86301  
**Project Team:** Michael Batahew, Ph.D.  
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. Up through 1983, 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	Main Heating Fuel 73N-76N 77N-81N 85N-93N <u>74S-83S 83N</u> <u>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 4 5 1 Electricity 5 6 5 Coal or Coke 6 7 6 Wood 7 8 7 Solar Energy 8 9 8 Other Fuel 8 0 9 No Fuel Used 99 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	Change in Main Heating Fuel Since Last Survey 1 Yes 2 No 3 Not Sure 8 Not Answered 9 Not Applicable	<u>81N</u> 4			
0842	HFC12	80N	Change in Heating Fuel in Last 12 Months. 1 Yes 2 No 3 Don't Know 8 Not Answered 9 Not Applicable	<u>80N</u> 35			
			Note: Asked Only Of Mover Households.				
0843	CFUEL	73N-80N 85N-93N 74S-81S 84S-93S	Primary Cooking Fuel 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 Gas From Underground Pipes 2 Gas LP, Bottled or Tank 3 3 Kerosene or Other Liquid Fuel 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	Fuel Used To Heat Water 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 Gas From Underground Pipes 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 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>BON</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>BON</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>BON</u> 33	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>81S</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	BUYO		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, BUYO 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		<u>84S</u>	<u>85N</u>	
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	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 23	<u>85N</u> 24
			74N-83N 85N-93N				
			<u>75S-83S</u> <u>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	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 23	<u>85N</u> 24
			74N-83N 85N-93N				
			<u>75S-83S</u> <u>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	<u>83N</u> 14	<u>83S</u> 14	<u>84S</u> 23	<u>85N</u> 24
			74N-83N 85N-93N				
			<u>75S-83S</u> <u>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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UTILITIES (Continued)

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>	<u>83N</u> 16	<u>83S</u> 16
			1 1 Furnished 2 2 Unfurnished 8 8 Not Answered 9 9 Not Applicable		
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	CBUYO		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	COND		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	PBUYO		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	<u>83N</u>	<u>83S</u>
1013	PAMTG	83S	Avg Monthly Cost of Multi-Family Gas	40	37
1014	PAMTT		Avg Monthly Cost of Multi-Family Garbage Collection	40	37
			For All Variables, Standard Codes Are:	42	39
			1-997 \$1-\$997		
			998 \$998 or more		
			999 Not Applicable		
1015	PAMTW	83N	Avg Monthly Cost of Multi-Family Water/Sewage	<u>83N</u>	<u>83S</u>
1016	PAMTO	83S	Avg Annual Cost of Oil, Coal, Kerosene for Multi-Family	40	37
			1-9997 \$1-\$9997	41	38
			9998 \$9998 Or More		
			9999 Not Applicable		
1017	NORESE	83N	Electricity Costs Cover Units Other Than Owner's Res	<u>83N</u>	<u>83S</u>
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	NORES0		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	42	39
			For All Variables, Standard Codes Are:		
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1022	AMTRSE	83N	Avg Monthly Cost Of Electricity For Owner's Res Only	<u>83N</u>	<u>83S</u>
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	42	39
			For All Variables, Standard Codes Are:		
			0 Don't Know		
			1-997 \$1-\$997		
			998 \$998 Or More		
			999 Not Applicable		
1025	AMTRSO	83N	Annual Cost Of Oil/Other Fuel For Owner's Res Only	<u>83N</u>	<u>83S</u>
1026	AMTRSW	83S	Annual Cost Of Water/Sewage For Owner's Res Only	41	38
			For All Variables, Standard Codes Are:	40	37
			0 Don't Know		
			1-9997 \$1-\$9997		
			9998 \$9998 Or More		
			9999 Not Applicable		
1027	SPMTR E	83N	Owner's Res Electricity Metered Separately	<u>83N</u>	<u>83S</u>
1028	SPMTR G	83S	Owner's Res Gas Metered Separately	40	37
1029	SPMTR W		Owner's Res Water Metered Separately	40	37
1030	SPBILT		Owner's Res Trash Collection Billed Separately	42	39
			For All Variables, Standard Codes Are:		
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1031	ZUTIL	73N-77N 74S-83S	Recoded Utilities Included in Rent	<u>77N</u>	<u>83S</u>
			1 All Utilities In Rent	G	G
			2 Garbage Collection In Rent, But Not All Other Services		
			3 Some Or No Utilities Included		
			9 Not Applicable		
1032	ZUTIL2	73N-81N 83N 74S-83S	Recoded Utilities Included In Rent	<u>83N</u>	<u>83S</u>
			1 Included In Rent	G	G
			2 Not Included In Rent		
			9 Not Applicable		

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1033	BILLGE	85N-93N	Gas Billed with Electricity	84S	85N
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:

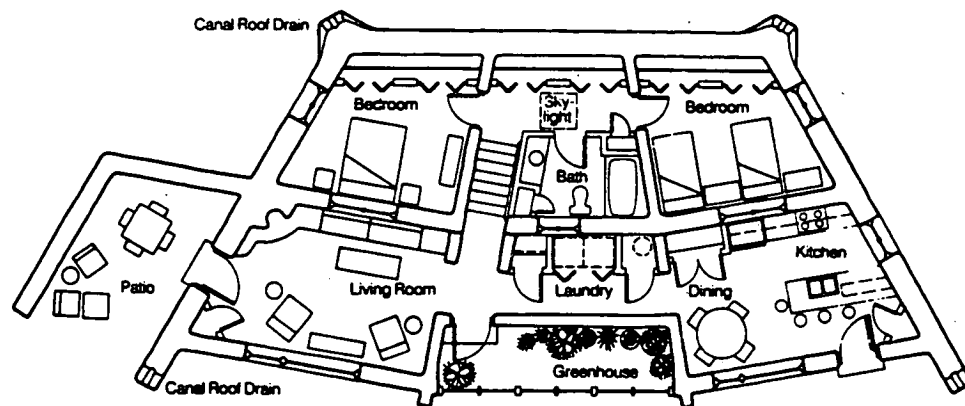
- 0 No
- 1 Yes
- 9 Utility Not Used, Included In Rent, Obtained Free, or Non-Interview

1058	VOLTS	81N 83N	Status Of Company Supplying Electricity	83N	21
			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		

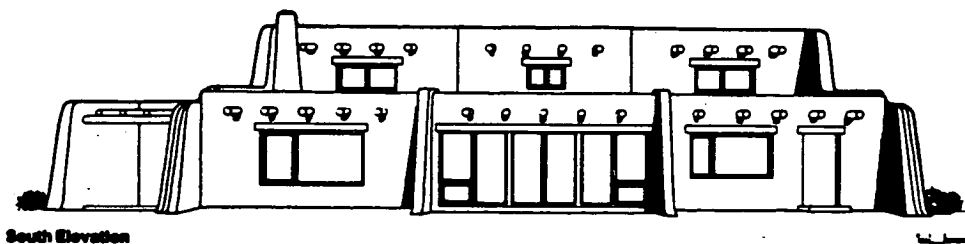
Note: Code 2 was not checked against the variable BUYE. Some discrepancies may be present.

1059	NMBILL	85N	Hhld Without Heat Because Unable to Pay Bill	85N	48
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 in the Breakdown and Maintenance Section, and is not 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. Up through 1983, 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, up through 1983, 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) as well as routine maintenance costs.

Up through 1983, 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. Up through 1983, 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.

Up through 1983, 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. Up through 1983, 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.

Up through 1983, 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. Up through 1983, 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 stays with the seller until the agreed-upon payments have been made by the buyer. Up through 1983, 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. Up through 1983, 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.

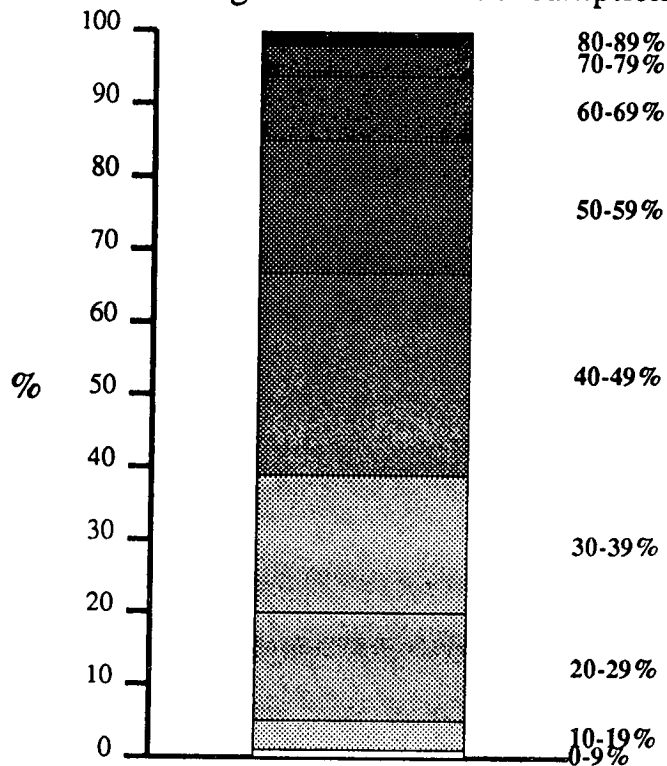
Real estate taxes last year--The data come only from owner-occupied units. "Real estate taxes last year" refers to the yearly total amount of all real estate taxes payable on the entire property during the last billing period. It includes special assessments, school taxes, state and local real estate taxes. Excluded are payments on delinquent taxes due from prior years. (Payments for special assessments, facilities, or services were excluded up through 1983.) 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 or 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 owneroccupied 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.

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 excluded.

Distribution of Poor Renters, by Ratio of Housing Cost to Total Consumption



Source: Consumer Expenditure Survey

Housing Value and Housing Costs (excluding utilities)

Variable Name	Owners				Renters
	Single Family Detached & Attached on less than 10 acres, no doctors or commercial establishments	Mobile Homes on less than 10 acres	Condominium/Cooperative	Other*	
Summary Housing Variables					
ZSMHC 1984+	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	
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	
Earlier	Recent movers***	Recent movers			
ZPRICEM--PRICEM		Yes			
ZPRICE, PRICE				MH only	
BUYR 1984+	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	
MNEWM, 1983					Yes
1980				MH only	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 commercial establishments	Mobile Homes on less than 10 acres	Condominium/Cooperative	Other*	
NEWMCO			Condo only		
HOWBUY	no mortgage	no mortgage			
MHGET		no mortgage			
Mortgage Information					
NROWNR	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+ Earlier	Yes Yes	Yes Yes	Yes	Yes	
PMT2	Yes	Yes	Yes	Yes	
CPMT			Yes	Yes (83)	
RESAMT				Yes	
Real Estate Taxes, Insurance and other charges					
TAXPMT, 1984+ Earlier	Yes Yes	Yes Yes	Yes	Yes	
TAXPM2	Yes	Yes	Yes	Yes	
CTXPMT			Yes		
PTXPMT				Yes	
BUYX	Yes	Yes			
CBUYX			Yes		
PBUYX-NORESX				Yes	
MPRTX-MHTAX, 1983N 1980N		If pay R.E. taxes Yes			
MPRT, MHTX		If no R.E. taxes			
AMTX, 1984+ Earlier	Yes Yes	Yes Yes	Yes	Yes	
CAMTX			Yes		
PAMTX-SPASSX				Yes	
BUYI, 1984+ Earlier	Yes Yes	Yes Yes	Yes	Yes	Yes
CBUYI			Yes		
PBUYI, NORESI				Yes	
INSPMT, 1984+ Earlier	Yes Yes	Yes Yes	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 commercial 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					
DWNLOT 1984+ Earlier	Yes	Yes Yes		Yes	
OWNLT				MH only	
OWNSIT					MH only
LANPMT	Land not owned				
INCS, 84+ 83N, 83S Earlier	Yes	Yes if Mortgaged 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

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				<u>83N</u> G	<u>83S</u> G	<u>84S</u> G	<u>85N</u> G
1062	ZSMHC	74N-93N 83S-93S	<p><b>Monthly Housing Costs</b> (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, ZSMHC 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>				
1063	ZSMHCP	74N-83N	<p><b>Monthly Housing Costs As Percent Of Income</b></p> <p>74N-77N <u>78N-83N</u></p> <p>0 0 Zero Or Not Computed 01-96 1%-96% 01-97 1%-97% 97 97% Or More 98 98% Or Not Answered 98 98 Not Answered 99 99% Or Not Applicable 99 99 Not Applicable</p>	<u>83N</u> G			
1064	ZRENT	73N-83N 74S-83S	<p><b>Recoded Gross Rent (Contract Rent Plus Utilities)</b></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><b>Recoded Gross Rent As Percent Of Income</b></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 1%-96% 01-98 1%-98% 97 97% Or More 98 Not Present 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><b>Frequency Of Rent Payment</b></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				<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		74S-93S	73N-83N	85N	87N-93N	6	6	14	14	
			<u>74S-83S</u>	<u>84S</u>	<u>85S</u>	<u>86S-93S</u>				
			0	999	999	9999	9999			

No cash rent  
 1 Vacant and rent depends on income of occ,  
 like public housing & some military housing

1-2222	1-751	1-751	1-top	1-top	Rent
9999	999	999	9999	9999	Not applicable

Note: Top-Coded at 97th percentile starting in 85S, 87N.

1067A	PRENT	89N-93N	Rent Paid by Subsidized Family, Less Ambiguous than RENT		89N
		90S-93S	0-top	Rent per month	15
			9998	Not Answered	
			9999	Owned, Vacant, URE, or Non-Interview	

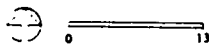
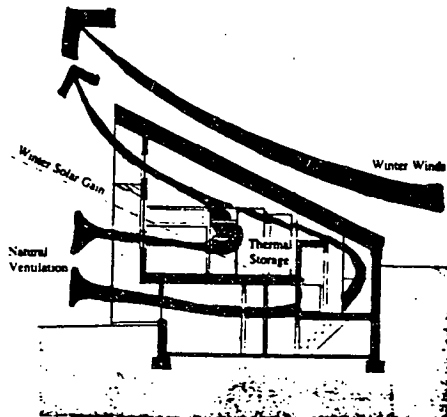
Note: Clearer than RENT, which may sometimes be total of family payment and subsidy. Top-Coded at 97th percentile.

**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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				83N	83S	84S	85N
1068	VALUE	73N-93N 74S-93S	Property Value (Sample Unit Only) 73N-74N 75N-76N 77N 78N 79N-83N 85N-93N <u>74S-75S 76S-77S 78S 79S 80S-83S 84S-93S</u>	6	6	17	18
			1-250000 \$1-\$250,000				
			250001 \$250,001 or More				
			1 Under \$2,500				
			2 \$2,500-\$4,999				
			Under \$5,000				
			3 \$5,000-\$7,499				
			4 \$7,500-\$9,999				
			5 \$10,000-\$12,499				
			6 \$12,500-\$14,999				
			7 \$15,000-\$17,499				
			8 \$17,500-\$19,999				
			9 \$20,000-\$22,499				
			10 \$22,500-\$24,999				
			11 \$20,000-\$24,999				
			12 \$25,000-\$27,499				
			13 \$27,500-\$29,999				
			14 \$25,000-\$29,999				
			15 \$30,000-\$34,999				
			16 \$35,000-\$39,999				
			17 \$40,000-\$44,999				
			18 \$45,000-\$49,999				
			19 \$40,000-\$49,999				
			20 \$50,000-\$54,999				
			21 \$55,000-\$59,999				
			22 \$50,000-\$59,999				
			23 \$60,000 Or More				
			24 \$60,000-\$64,999				
			25 \$65,000-\$69,999				
			26 \$70,000-\$74,999				
			27 \$60,000-\$74,999				
			28 \$75,000 Or More				
			29 \$75,000-\$79,999				
			30 \$80,000-\$89,999				
			31 \$90,000-\$99,999				
			32 \$75,000-\$99,999				
			33 \$100,000-\$124,999				
			34 \$125,000-\$149,999				
			35 \$150,000 Or More				
			36 \$150,000-\$199,999				
			37 \$200,000-\$249,999				
			38 \$250,000-\$299,999				
			39 \$300,000 Or More				
			99 99 99 99 99 999999 Not Applicable				

Note: In 77S, however, two for sale coops have valid codes for VALUE. Starting in 84S and 85N, this variable does not include the value of the land for mobile homes. Starting in 1984, the variable is available for all owner-occupied units. For applicability of this variable in previous years, refer to 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.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				83N	83S
1069	ZVI	73N-83N 74S-83S	Recoded Value-Income Ratio 73N-77N 78N-83N 74S, 76S 75S <u>82S-83S 77S-81S</u>	G	G
			0 0 Not Computed		
			01-96 0.1-9.6		
			01-98 0.1-9.8		
			97 9.7 or more		
			99 9.9 or More or Not Applicable		
			99 Not Applicable		

HOUSING COSTS (Continued)

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

1070	PVALUE	83N 85N-93N 84S-93S	Property Value 83N 85N-93N 84S-93S 1-250000 250001	\$1-\$250,000 \$250,001 or More Under \$5,000 \$5,000-\$7,499 \$7,500-\$9,999 \$10,000-\$12,499 \$12,500-\$14,999 \$15,000-\$17,499 \$17,500-\$19,999 \$20,000-\$22,499 \$22,500-\$24,999 \$25,000-\$27,499 \$27,500-\$29,999 \$30,000-\$34,999 \$35,000-\$39,999 \$40,000-\$44,999 \$45,000-\$49,999 \$50,000-\$54,999 \$55,000-\$59,999 \$60,000-\$64,999 \$65,000-\$69,999 \$70,000-\$74,999 \$75,000-\$79,999 \$80,000-\$89,999 \$90,000-\$99,999 \$100,000-\$124,999 \$125,000-\$149,999 \$150,000-\$199,999 \$200,000-\$249,999 \$250,000-\$299,999 \$300,000 Or More 98 999998 Not Answered 99 999999 Not Applicable	<u>83N</u> 42	<u>84S</u> 17	<u>85N</u> 18
			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	Market Value Of Land (Mobile Home) 0-15000 \$0-\$15,000 15001 \$15,001 or More 99998 Not Answered 99999 Not Applicable		<u>84S</u> 19	<u>85N</u> 19
			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.			

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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)	<u>37</u>
			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> 23	<u>83S</u> 21	<u>84S</u> 16	<u>85N</u> 17
------	--------	--------------------	--	------------------	------------------	------------------	------------------

78N-83N	84S-93S	85N-93N	
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
999996	999998	999998	Not Answered
999999	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 Dnprmt.--Purchase/Constr. of Property	<u>83N</u> 23	<u>83S</u> 21	<u>84S</u> 16	<u>85N</u> 17
------	--------	--------------------	---	------------------	------------------	------------------	------------------

82S-83S	84S-93S		
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

HOUSING COSTS (Continued)

REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

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

83N  
13

<u>74N-81N</u>	<u>83N</u>	
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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**HOUSING COSTS (Continued)**

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
			<u>78S-83S</u> <u>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 98 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		
			<u>83N</u>				
			00-83 1900-1983				
			59 1959 Or Before				
			60-83 1960-1983				
			99 99 Not Applicable				

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**HOUSING COSTS (Continued)**

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.

**HOUSING COSTS (Continued)**

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 77N-83N 85N-93N 77S-93S <u>77S-83S 84S-93S</u>	Primary Mortgage New Or Assumed 1 New 2 Assumed 3 Wrap-Around 8 Not Answered 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 77N-83N 85N-93N 77S-83S	Amount of Primary Mortgage When Acquired 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

Note: In 78S, the question is applicable to some owner occupants who are not recent movers. From 1984 on, also see RESMOR, RESMR2 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.

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HOUSING COSTS (Continued)

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					
			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					
			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					
			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	Amortization Schedule For Primary Mortgage	84S	85N			
1109	AMRTZ2	84S-93S	Amortization Schedule For Second Mortgage	20	20			
			01-96 1 To 96 Years To Pay Off					
			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%					
			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	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					
			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					
			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	<u>84S</u> 21	<u>85N</u> 21		
1114	BANK	85N-93N	Who Provided Primary Mortgage	<u>84S</u> 21	<u>85N</u> 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	<u>84S</u> 21	<u>85N</u> 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	<u>85S</u> 21	<u>85N</u> 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	<u>84S</u> 21	<u>85N</u> 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	<u>83N</u> 39	<u>83S</u> 36	<u>84S</u> 20	<u>85N</u> 20

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1135	PINC02	85N-93N 84S-93S	2nd Mortgage Payment Incl Payment For Prop Other Than Res 1 Yes 2 No 8 Not Answered 9 Not Applicable	84S 20	85N 20		
1136	MFARM	85N-93N	1st Mortgage Payment Incl Payment For Farm Land	84S 20	85N 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	84S 20	85N 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	84S 20	85N 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	83N 14	83S 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	83N 44	83S 34		
1144	NRPAYM	85N-93N 84S-93S	Non-Resident Pays Some Mortgage/Utility Costs 1 Yes 2 No 8 Not Answered 9 Not Applicable	84S 19	85N 19		
1145	PMT	74N-93N 74N-83N 85N-93N 75S-93S	Amount of Primary Mortgage Payment 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.	83N 14	83S 14	84S 20	85N 20
1146	PMT2	85N-93N	Amount of Second Mortgage Payment	84S 20	85N 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		

**HOUSING COSTS (Continued)**

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

1162 AMTX 73N-93N Yearly Real Estate Taxes 83N 83S 84S 85N  
74S-93S 73N 74N-76N 77N-83N 14 14 22 22

	74S-77S	78S-83S	84S-93S	85N-93N	
			0	0	\$0
			1	1	\$1-50
			2	2	\$51-100
			3	3	\$101-150
			4	4	\$151-200
			5	5	\$201-250
			6	6	\$251-300
			7	7	\$301-350
			8	8	\$351-400
			9	9	\$401-450
			10	10	\$451-500
			11	11	\$501-550
			12	12	\$551-600
			13	13	\$601-650
			14	14	\$651-700
			15	15	\$701-750
			16	16	\$751-800
			17	17	\$801-850
			18	18	\$851-900
			19	19	\$901-950
			20	20	\$951-1000
			21	21	\$1001-1100
			22	22	\$1101-1200
			23	23	\$1201-1300
			24	24	\$1301-1400
			25	25	\$1401-1500
			26	26	\$1501-1600
			27	27	\$1601-1700
			28	28	\$1701-1800
			29	29	\$1801-1900
			30	30	\$1900-2000
			31		\$2000+
				31	\$2001-2100
				32	\$2101-2200
				33	\$2201-2300
				34	\$2301-2400
				35	\$2401-2500
				36	\$2500+
	1-9996	1-9996	1-99996		Yrly Real Estate Amt
	9997	9997	99997		99997 (\$99997) Or More
	9998	9998	99998	98	98 Not Answered
	9999	9999		99	99 Not Applicable
		99999	99999		Not Applicable

Note: After 1983, the tax amount excludes any rebate that the household may receive.  
 Note: Starting in 1985S, top codes will be the 97th percentile of each metropolitan area. Beginning in 1987N, codes continue by 100s and the top code is the 97th percentile for the entire national sample.

1163 CAMTX 80N-83N Yearly Real Estate Taxes For Condo/Coop Unit 83N 83S  
83S 0-99997 \$0-\$99997 44 34  
99998 Not Answered  
99999 Not Applicable

1164 PAMTX 83N Yearly Real Estate Taxes For Multi-Family Building 83N 83S  
83S 1-99996 \$1-\$99996 41 38  
99997 \$99997 or more  
99998 Not Answered  
99999 Not Applicable

1165 AMTRSX 83N Amt Of Real Estate Tax Payment For Owner's Res Only 83N 83S  
83S 0 Don't Know 41 38  
1-99997 \$1-\$99997  
99998 \$99998 Or More  
99999 Not Applicable

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**HOUSING COSTS (Continued)**

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 75S	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.  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
							<u>87N-93N</u> <u>85S-93S</u> 1-Top  9999 9999

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> 36	<u>78S</u> 36		
1180	INSFLD	77S-78S	Flood Insurance (Owner)	36	36		
1181	INSOKE		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> 36	<u>78S</u> 36		
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	<u>83N</u> 13	<u>83S</u> 13	<u>84S</u> 23	<u>85N</u> 40
			<i>owners</i> Note: Prior to 1984, the question only applied to mobile home 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 vacant mobile homes except those for rent or rented not yet occupied <i>See also variable INCS, number 1191.</i>				
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.  
 ++ = Variable is present on a supplemental page to the questionnaire.  
 CC = Variable is present on the control card for the unit.

**HOUSING COSTS (Continued)**

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			

HOUSING COSTS (Continued)

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 75S-81S	80N 46	81S 23		
			1-996 \$1-\$996 1-1998 \$1-\$1998 997 \$997 Or More 1999 \$1999 Or More 9998 998 Not Answered 9999 999 Not Applicable				
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		84S 15	85N 14	
1197	CAMF	80N-93N 83S-93S	Condo/Homeowner's Assn/Mobile Home Fee Due 80N-83N 85N-93N 83S 84S-93S 2 1 One Time Per Year 2-52 2 to 52 Times Per Year 3 Other Number Of Times Per Year 1 12 Monthly 8 98 Not Answered 9 99 Not Applicable	83N 44	83S 34	84S 22	85N 14
1198	CONFEE	80N-93N 83S-93S	Condominium/Homeowner's Ass/Mobile Home Monthly Fee 80N-83N 85N 87N-93N 83S 84S 85S 86S-93S 1 1 1 \$1-5 2-35 2-top 2-top Multiply by \$5 to get monthly fee 0-9997 \$0-\$9997 9998 98 98 9998 Not Answered 9999 99 99 9999 Not Applicable Note: Top-Coded at 97th percentile starting in 85S, 87N.	83N 22	83S 22	84S 22	85N 14



CONFEE wrong prior to 1995 National  
Excludes homeowner's association fee

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>
1199	CMNTN	80N-81N	Upkeep Maintenance of the Common Space/Grounds in Fee	45	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>	<u>85N</u>
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>	<u>85N</u>
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	Other Required Fees For Mobile Home Owners	<u>85S</u>	<u>85N</u>
		85S-93S		14	14
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1210	FMHOTF	85N-93N	Frequency Of Other Mobile Home Fee Payments	<u>85S</u>	<u>85N</u>
		85S-93S		14	14
			01-11 1 To 11 Times Per Year		
			12 Monthly		
			98 Not Answered		
			99 Not Applicable		
1211	MHOTFE	85N-93N	Average Cost Per Billing Period Of Other MH Fees	<u>85S</u>	<u>85N</u>
		85S-93S		14	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 starting in 1984 (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. Up through 1983, 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 later surveys are similar to the questions asked up through 1983. 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 in 1980 or later.

Recent Mover--Up through 1983, 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 in 1980 or later. Census publications continue to define a house hold 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 HHLD (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.

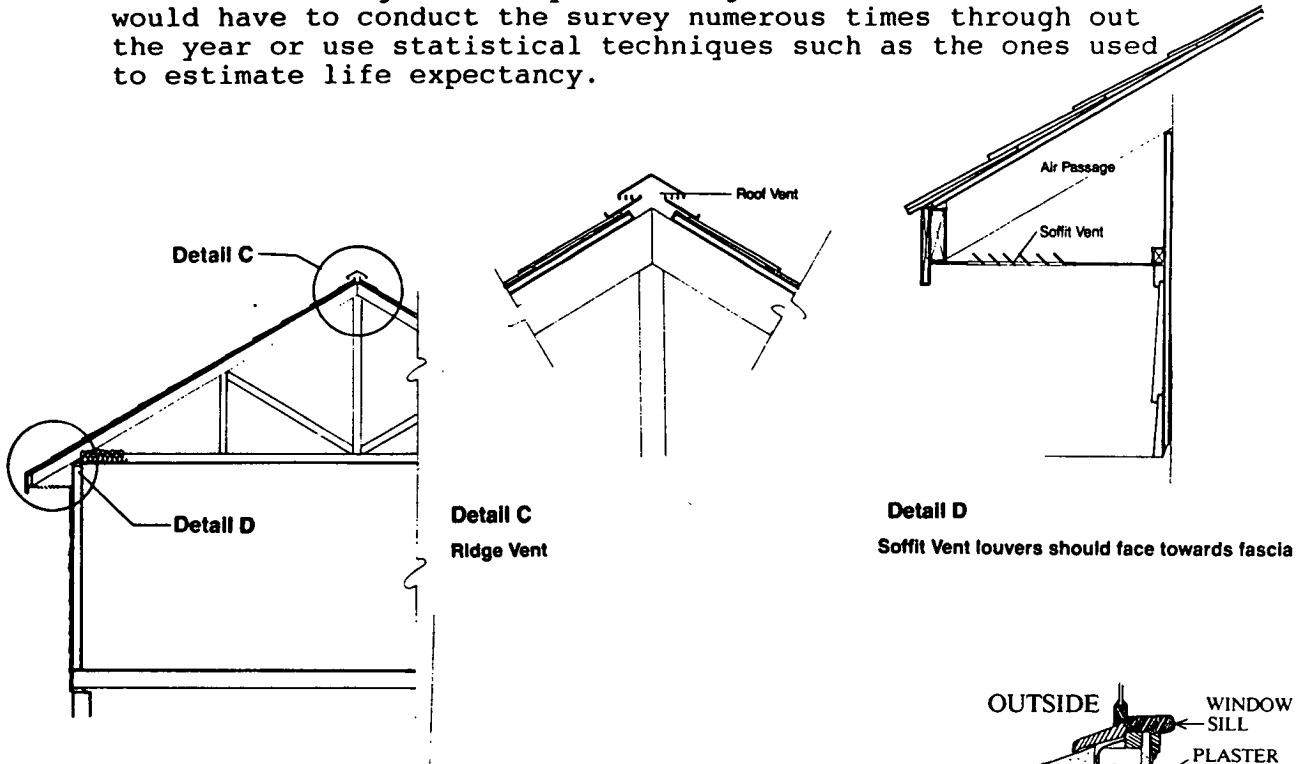
The AHS cannot be used to measure directly the number of moves that happen in any particular time period, because not all of these moves show up in the file. For example a unit with more than one family moving in and out during a year will show up with only one mover in the survey. Similarly, a move 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 starting in 1984 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

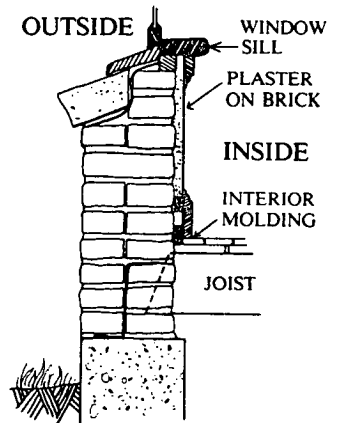
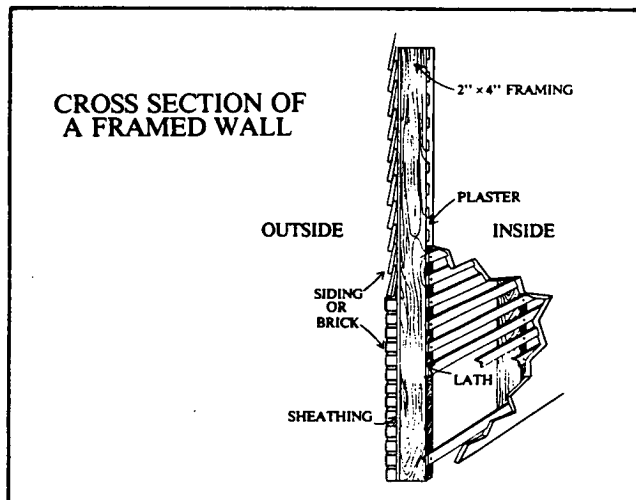


members enables users to identify moves by other household members. It still, however, does not provide information to identify multiple moves within a year by a specific person.

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 through out the year or use statistical techniques such as the ones used to estimate life expectancy.



Typical House Section



EXISTING 10" WALL.

CROSS SECTION OF TYPICAL MASONRY WALL

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> 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 MYY Month and Year Since 3/70 9999 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.	<u>83N</u> 9	<u>83S</u> 9	<u>84S</u>	<u>85N</u>
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	MOVMI	85N-93N	Month Hhld Member 1 Moved In	<u>84S</u>	<u>85N</u>
1245	MOVMI	84S-93S	Month Hhld Member 2 Moved In	C2	C2
1246	MOVMI		Month Hhld Member 3 Moved In	C2	C2
1247	MOVMI		Month Hhld Member 4 Moved In	C2	C2
1248	MOVMI		Month Hhld Member 5 Moved In	C2	C2
1249	MOVMI		Month Hhld Member 6 Moved In	C2	C2
1250	MOVMI		Month Hhld Member 7 Moved In	C2	C2
1251	MOVMI		Month Hhld Member 8 Moved In	C2	C2
1252	MOVMI		Month Hhld Member 9 Moved In	C2	C2
1253	MOVMI		Month Hhld Member 10 Moved In	C2	C2
1254	MOVMI		Month Hhld Member 11 Moved In	C2	C2
1255	MOVMI		Month Hhld Member 12 Moved In	C2	C2
1256	MOVMI		Month Hhld Member 13 Moved In	C2	C2
1257	MOVMI		Month Hhld Member 14 Moved In	C2	C2
1258	MOVMI		Month Hhld Member 15 Moved In	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 79N  
25

- 00 Not Applicable
- 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 79N  
25

- 1 1965 to 4/1/70
- 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 Reference Person Moved Here In Last 12 Months 83N 83S 84S 85N  
74S-93S 73N-83N 85N-93N 22 20

- 74S-83S 84S-93S
- 1 1 Yes
- 2 No
- 9 No or Not Applicable
- Not Applicable

1262 RMR 85N-93N Respondent Moved Here In Last 12 Months 84S 85N  
84S-93S 1 Yes G G

- 1 Yes
- 9 No or 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.

MOBILITY (Continued)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1263	RM90	73N-83N	Reference Person Lived Here Last 90 Days	<u>83N</u> 22	<u>83S</u> 20
1264	RMWINT	74S-83S	Reference Person Lived Here Last Winter 1 Yes 2 No 9 Not Applicable	22	20
Note: In 83N and 82S-83S the wording of RMWINT changed from "last winter" to "before Feb. 19--"					
1265	NUMOVE	80N-81N 83N 82S-83S	Number of Other Moves Made in Last 12 Months 1 None 2 One 3 Two 4 Three Or More 8 Not Answered 9 Not Applicable	<u>83N</u> 29	<u>83S</u> 27
1266	XAHEAD	85N-93N	First Group's Prev Res Owned/Rented By Hhld Member	<u>84S</u> 12	<u>85N</u> 12
1267	XBHEAD	84S-93S	Second Group's Prev Res Owned/Rented By Hhld Member	13	13
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 Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	13	13
1270	XHEAD	73N-83N 74S-83S	Reference Person Was Head of Household in Prev. Res. 73N-76N 77N-81N 83N <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 No, and Person is the Reference Person 4 No, and Person is Not the Reference Person 9 9 9 Not Applicable	<u>83N</u> 26	<u>83S</u> 24
1271	XAREL	85N-93N	1st Group's Prev Res Owned/Rented by Relative	<u>84S</u> 12	<u>85N</u> 12
1272	XBREL	84S-93S	2nd Group's Prev Res Owned/Rented By Relative	13	13
1273	XCREL		3rd Group's Prev Res Owned/Rented By Relative	13	13
1274	XDREL		4th Group's Prev Res Owned/Rented By Relative Standard Codes For All Variables Are: 1 Yes 2 No 8 Not Answered 9 Not Applicable	13	13
1275	XMEMB	73N-83N 74S-83S	Respondent Was Member Of Household In Previous Residence 1 Yes 2 No 8 Not Answered 9 Not Applicable	<u>83N</u> 26	<u>83S</u> 24
Note: In 83N and 83S, question is asked only if XHEAD is coded 2 or 4.					
1275A	XASTAT	89N-93N	State Where 1st Group Lived Before		87N 12
1275B	XBSTAT	89S-93S	State Where 2nd Group Lived Before		13
1275C	XCSTAT		State Where 3rd Group Lived Before		13
1275D	XDSTAT		State Where 4th Group Lived Before Standard Codes For All Variables Are: 1-56 See codes for STBRN1 on page 186. 96 Same PMSA as current home (1-2 in XLOC) 97 Same state as current home (3-4 or 7 in XLOC) 99 Vacant, URE, Non-Interview or Non-Mover		13



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 74S 75S-83S 1 1 Owned Or Being Bought 2 Own Cooperative Or Condominium 2 Own Cooperative 3 Own Condominium 3 4 Rented For Cash 4 5 No Cash Rent 9 9 Not Applicable	<u>83N</u> 27	<u>83S</u> 25
1300	ZXTEN	73N-83N 74S-83S	Recorded Specified Owner Of Previous Residence 73N 74N-81N 83N 74S 75S-83S 1 1 Specified Owner 2 Specified Renter 2 Other Owner Occupied 3 3 Other Occupied 9 9 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	<u>83N</u> 27	<u>83S</u> 25																																			
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).																																								
1306	XAPER	85N-93N	How Many People Lived In 1st Hhld Group Before Move	<u>84S</u>	<u>85N</u>																																			
1307	XBPER	84S-93S	How Many People Lived In 2nd Hhld Group Before Move	12	12																																			
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																																			
Standard Codes For All Variables Are: 1-96 1 to 96 Persons 98 Not Answered 99 Not Applicable																																								
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	<u>83N</u> 27	<u>83S</u> 25																																			
<table border="0"> <tr> <td>1-11</td> <td></td> <td></td> <td></td> <td>1-11 Persons</td> </tr> <tr> <td>12</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>1-38 Persons</td> </tr> <tr> <td></td> <td>39</td> <td></td> <td></td> <td>39 or More Persons</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1-72</td> <td>1-72 Persons</td> </tr> <tr> <td>98</td> <td>98</td> <td>98</td> <td>98</td> <td>Not Answered</td> </tr> <tr> <td>99</td> <td>99</td> <td>99</td> <td>99</td> <td>Not Applicable</td> </tr> </table>				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	98	98	98	98	Not Answered	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																																				
98	98	98	98	Not Answered																																				
99	99	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).																																								
1311	XCOMDOC	73N-83N 74S-83S	Commercial, Doctor, Or Dentist Establishment At Previous Residence 1 Yes 2 No 9 Not Applicable	<u>83N</u> 28	<u>83S</u> 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	<u>83N</u> 27	<u>83S</u> 25																																			
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).																																								

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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>	<u>83N</u> 27	<u>83S</u> 25
			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).		
1314	XBEDRMS	73N-83N 74S-83S	No. Of Bedrooms In Reference Person's Prev. Residence 0-80 0-80 Bedrooms 98 Not Answered 99 Not Applicable	<u>83N</u> 27	<u>83S</u> 25
			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).		
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	<u>83N</u> G	<u>83S</u> G
			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).		
1316	XACOST	85N-93N	1st Hhld Group's Housing Costs Changed By Move	<u>84S</u> 12	<u>85N</u> 12
1317	XBCOST	84S-93S	2nd Hhld Group's Housing Costs Changed By Move	13	13
1318	XCCOST		3rd Hhld Group's Housing Costs Changed By Move	13	13
1319	XDCOST		4th Hhld Group's Housing Costs Changed By Move	13	13
			Standard Codes For All Variables Are: 1 Increased 2 Stayed About Same 3 Decreased 4 Don't Know 8 Not Answered 9 Not Answered		



REF# NAME SURVEYS DESCRIPTION

PAGE ON QUESTIONNAIRE

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

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1323	XPAYE	73N-83N	At Previous Residence Household Paid Electricity	<u>83N</u>	<u>83S</u>
1324	XPAYG	74S-83S	At Previous Residence Household Paid Gas	29	27
1325	XPAYO		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		
1326	XPROJ	73N-83N	Previous Residence In Publicly Owned Housing	<u>83N</u>	<u>83S</u>
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		
1331	XPAYF	73N-77N	Previous Residence Furniture Included In Rent	<u>77N</u>	<u>81S</u>
1332	XIFP	74S-81S	Previous Residence Parking Available With Building	29	29
1333	XINCP		Previous Residence Parking Space Included In Rent	30	29
			1 Yes		
			2 No		
			8 Not Answered		
			9 Not Applicable		
1334	XOTHF	73N-77N	Previous Residence Furniture Rented From Non-Landlord	<u>77N</u>	<u>78S</u>
1335	XFARP	74S-78S	At Prev. Res. Parking in Neighbrhd Not Connected W/Bldg.	29	29
			1 Yes	30	30
			2 No		
			8 Not Answered		
			9 Not Applicable		
1336	XPAYP	73N-77N	At Previous Residence Household Rented A Parking Space	<u>77N</u>	<u>81S</u>
		74S-81S	73N-77N 79S-81S	30	29
			74S-78S		
			1 Yes		
			2 No, Or Available With Charge		
			8 Not Answered		
			9 Not Applicable		
1337	ZXPARK	73N-77N	Recoded Parking Facilities Previous Unit (Rec Mov Only)	<u>77N</u>	<u>81S</u>
		74S-81S	74S 73N-77N	G	G
			75S-81S		
			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		
1338	XCOSTE	73N-83N	At Previous Residence Monthly Cost Of Electricity	<u>83N</u>	<u>83S</u>
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		
1341	XCOSTF	73N-77N	Previous Residence Monthly Rent on Furniture	<u>77N</u>	<u>78S</u>
1342	XCOSTP	74S-78S	Previous Residence Monthly Cost of Parking Space	29	29
			1-997 \$1-\$997	30	30
			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>	<u>83S</u>
1344	XCOSTW	74S-83S	At Previous Residence Annual Cost Of Water	29	27
		73N-74N 75N-81N		29	27
		83N			
		<u>74S</u> <u>75S-83S</u>			
		1-1998	\$1-\$1998		
			1-9996 \$1-\$9996		
		1999	\$1999 Or More		
			9997 \$9997 Or More		
		9998	9998 Not Answered		
		9999	9999 Not Applicable		
1345	XIFU	80N-81N	Did Reference Person Have A Job, Previous Residence	<u>81N</u>	<u>82S</u>
		82S	1 Yes	46	46
			2 No		
			9 Not Applicable		
1346	XWORK	80N-81N	Prev Resid Workplace Of Ref Person Same As Now	<u>81N</u>	<u>82S</u>
		82S	1 Yes	46	46
			2 No		
			8 Not Answered		
			9 Not Applicable		
1347	XTRANJ	80N-81N	Ref Person's Principal Means of Transp To Wrk, Prev Res	<u>81N</u>	<u>82S</u>
		82S	1 Drives Alone	46	46
			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>	<u>82S</u>
		82S	1 Car	46	46
			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>	<u>82S</u>
		82S	1 Yes	46	46
			2 No		
			9 Not Applicable		
1350	XTIMEJ	80N-81N	Time Usually Took Ref Person From Prev Res to Work	<u>81N</u>	<u>82S</u>
		82S	1-997 1-997 Minutes	46	46
			998 Not Answered		
			999 Not Applicable		
1351	XDISTJ	80N-81N	Distance From Prev Res To Work	<u>81N</u>	<u>82S</u>
		82S	0 Less Than A Mile	46	46
			1-997 1-997 Miles		
			998 Not Answered		
			999 Not Applicable		

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
				83N	83S	84S	85N
1352	WHYMOVE	73N-93N 74S-93S	<b>Primary Reason Ref. Person Moved From Prev. Res.</b> 73N 74N-78N 79N-83N 85N-93N 74S 75S-79S 80S-83S 84S-93S	24	22	10	10
			00 All Reasons Important 01 Displaced By Private Action 02 Displaced By Government 03 Disaster Loss (i.e. Fire) 04 New Job or Job Transfer Job Transfer Look For Work New Job 04 74 03 Entered/Left Armed Forces 02 02 04 Retirement 03 03 05 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 Separated 10 10 Divorced 11 11 Divorced or Separated Widowed 09 09 11 Closer to Relatives 12 12 12 Newly Married 13 13 13 Family Size Increased 14 14 14 Family Size Decreased 15 15 15 17 17 17 10 Other Family/Personal Reasons 18 18 18 Neighborhood Overcrowded 19 Racial/Ethnic Composition Crime 20 Wanted Nbrhd With Children 21 Wanted Nbrhd Without Children 22 Wanted Better Neighborhood 20 23 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				
1353	WMPRIV	85N-93N	Move Due To Private Co/Person's Actions			84S	85N
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	WMARR		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					
1368	WMO1JT	79N-83N	1 Reason Moved-Job Transfer	83N	83S
1369	WMO2LW	80S-83S	2 Reason Moved-Look For Work	24	22
1370	WMO3NJ		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	83N 24	83S 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.					
1377	WM10DS	79N-83N	10 Reason Moved-Divorced/Separated	83N	83S
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	83N 24	83S 22
00 Respondent Did Not Cite Another Reason For Moving					
35 Respondent Cited Another Reason For Moving					
98 Not Answered					
99 Not Applicable					

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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
				<u>84S</u>	<u>85N</u>
1403	WMOVNR	85N-93N	Moved Because Displaced By Owner's Family	10	10
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					
				<u>83N</u>	<u>83S</u>
1406	WMO1CN	79N-83N	1 Displaced-Owner Converting To Condominium	25	23
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.					
				<u>83N</u>	<u>83S</u>
1412	WMO7LL	83N 82S-83S	Displaced-Owner Needed Unit For Own Family	25	23
<u>83N</u> <u>82S-83S</u>					
0 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".					
				<u>83N</u>	<u>83S</u>
1413	WMO7PA	79N-83N 82S-83S	Displaced-Other Reason	25	23
<u>83N</u> <u>82S-83S</u>					
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 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".					
				<u>84S</u>	<u>85N</u>
1414	WMOGVP	85N-93N	Moved Because Govt Wanted Land/Bldg For Other Purpose	10	10
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					
				<u>83N</u>	<u>83S</u>
1416	WMO1IR	79N-83N	1 Income Reduced	25	23
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.					

## MOBILITY (Continued)

PAGE ON QUESTIONNAIRE

REF#	NAME	SURVEYS	DESCRIPTION	83N 25	83S 23
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		
				84S 11	85N 11
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		
				84S 11	85N 11
1420	WNJOB	85N-93N	Neighborhood Chosen Because Convenient To Job	11	11
1421	WNPEPL	84S-93S	Neighborhood Chosen Because Near Friends/Relatives	11	11
1422	WNFUN		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	84S 11	85N 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		
				84S 11	85N 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		
				84S 11	85N 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		
				84S 11	85N 11

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>84S</u>	<u>85N</u>
1432	WHFIN	85N-93N	House Chosen For Financial Reasons	11	11
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		
				<u>85S</u>	<u>85N</u>
1440	WHAVL	85N-93N 85S-93S	House Chosen Because Only One Available	11	11
			1 Yes		
			0 No		
			8 Not Answered		
			9 Non-Interview or Not A Recent Mover		
				<u>84S</u>	<u>85N</u>
1441	WHYTOH	85N-93N 84S-93S	Main Reason For Choice of House/Apartment	11	11
			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		
				<u>84S</u>	<u>85N</u>
1442	XHRATE	85N-93N 84S-93S	Comparison of New and Old House/Apartment	11	11
			1 Better		
			2 Worse		
			3 About the Same		
			8 Not Answered		
			9 Not Applicable		
				<u>83N</u>	<u>83S</u>
1443	WHYTO	79N-83N 82S-83S	Main Reason for Moving To This Res. or Neighborhood	26	24
			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		



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
Reasons For Moving to Current Residence or Neighborhood					
1444	WTO1JT	79N-83N	1 Reason Moved Here-Job Transfer	<u>83N</u> 26	<u>83S</u> 24
1445	WTO2LW	82S-83S	2 Reason Moved Here-Look For Work	26	24
1446	WTO3NU		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	WTO8DE		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	<u>83N</u> 26	<u>83S</u> 24
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)					
1453	WT1OCR	79N-83N	10 Reason Moved Here-Closer To Relatives	<u>83N</u> 26	<u>83S</u> 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	<u>83N</u> 26	<u>83S</u> 24
00 Respondent Did Not Cite Another Reason For Moving					
23 Respondent Cited Another Reason For Moving					
98 Not Answered					
99 Not Applicable					
1487	XLINE1	85N	Line No. of First Mobility Respondent	<u>85S</u> 44	<u>85N</u> 44
1488	XLINE2	85S	Line No. of Second Mobility Respondent	45	45
1489	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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MOBILITY (Continued)

REF#	NAME	SURVEYS	DESCRIPTION
1471	STBRN1	85N	State In Which First Mobility Respondent Born
1472	STBRN2	85S	State In Which Second Mobility Respondent Born
1473	STBRN3		State In Which Third Mobility Respondent Born
1474	STBRN4		State In Which Fourth Mobility Respondent Born

85S	85N
44	44
45	45
45	45
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

1475	STBORN	79N-80N	State In Which Reference Person Was Born	80N
1476	STPLACE		State In Which Reference Person Lived At Age 16	31
1477	STINS		Preferred State In 5 Years (Ref. Person)	31
			(See Codes for STBRN1-4 Above)	31

1477A	MOCALL	85N	Needed Callback for Mobility Supplement
			1 No
			2 Yes, and did get information
			3 Yes, and did not get information
			8 Not Answered
			9 Not Applicable

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1478	HER161	85N	At Age 16, Did 1st Mob Resp Live In Same Area	85S 44	85N 44
1479	HER162	85S	At Age 16, Did 2nd Mob Resp Live In Same Area	45	45
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 44	85N 44
1484	ST162	85S	State In Which 2nd Mobility Respondent Lived At 16	45	45
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 44	85N 44
1488	PLC162	85S	At Age 16, 2nd Mobility Respondent Lived In	45	45
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 44	85N 44
1493	HIN52	85S	2nd Mobility Resp Wld Prefer This DU In 5 Yrs	45	45
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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REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
1496	STAY51	85N	In 5 Yrs, 1st Mobility Respondent Will Stay In Unit	<u>85S</u>	<u>85N</u>
1497	STAY52	85S	In 5 Yrs, 2nd Mobility Respondent Will Stay In Unit	44	44
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	<u>85S</u>	<u>85N</u>
1501	WHRN52	85S	2nd Mobility Resp Wld Prefer This Area In 5 Yrs	44	44
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)	<u>80N</u>	
1 Same Area					
2 Some Place Else					
8 Not Answered					
9 Not Applicable					
31					
1505	PLCN51	85N	In 5 Yrs, 1st Mobility Respondent Wld Prefer To Live In	<u>85S</u>	<u>85N</u>
1506	PLCN52	85S	In 5 Yrs, 2nd Mobility Respondent Wld Prefer To Live In	44	44
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	<u>80N</u>	
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					
31					
1510	LKLN51	85N	Likelihood of Move To Place Above In 5 Yrs (1st Mob Resp)	<u>85S</u>	<u>85N</u>
1511	LKLN52	85S	Likelihood of Move To Place Above In 5 Yrs (2nd Mob Resp)	44	44
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	<u>80N</u>	
1 Very Likely					
2 Likely					
3 Not Very Likely					
4 No Chance At All					
5 Don't Know					
8 Not Answered					
9 Not Applicable					
31					

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 noninterviews 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 noninterviews, 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 files 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 yearround 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 kept in the AHS sample.)

#### Types and Treatment of Missing Data

There are three sources of missing data in the American 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 before their first interview.

There are three types of interviews:

Type A: The unit is occupied by people 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 people with URE are not considered noninterviews. 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 noninterviews are not revisited in future years, and are dropped from the Census tape. They are however kept 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 "nonresponse 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.



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1515	CONTROL	73N-93N 74S-93S	Control Number For Unit Tracking 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>
<p>Eleven digits in 73-83, twelve digits thereafter. In 85N-93N the eleventh digit shows subsamples:</p> <ul style="list-style-type: none"> <li>4 Basic sample, except coverage improvement</li> <li>5 Extra rural sample</li> <li>7 Extra neighbor sample</li> <li>8 Coverage improvement in basic sample</li> </ul>							
1516	CONTRLX	78S-83S	Control Number Suffix 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	Some Hhld Members Lived In Unit For Prev Enumeration 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	Household Occupancy Number <u>79N-83N 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	Date of Interview 81N-83N 85N-93N <u>81S-83S 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	Survey Year 84-93 1984-1993			<u>84S</u> G	<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

1521 IMONTH 74S-93S Interview Panel 83S 84S  
 74S-75S 76S 77S 81S- 1 1  
 78S-80S 93S

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.

1522 WEIGHT 73N-93N Weight Of Each Case In The Sample 83N 83S 84S 85N  
 74S-93S (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 Weight of Each Case in the Sample, Based on 1970 Census. 81N 83S  
 79S-83S Two Implied Decimal Places. (See Chapter 2). G G  
 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.

1524 PWT 85N-93N Pure Weight: Inverse Of The Probability Of Selection 83S 84S 85N  
 83S-93S Two Implied Decimal Places. G G G

1525 SWT 83S Inverse Of The Probability of Selection Adjusted By 83S  
 The Stratification Adjustment. G  
 Two Implied Decimal Places.  
 See Chapter 3 for detailed information.

1526 AWT 74N-83N Special Code Used In Variance Calculation. 83N  
 Four Implied Decimal Places. G  
 See Chapter 1 for detailed information.

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	Status of Structure	<u>83N</u>	<u>83S</u>		
		79S-83S	1 Structure Has No Habitable Units	1	1		
			2 One Or More Habitable Units				
			8 Not Reported				
			9 Not Applicable				
1539	SAMEDU	85N-93N	Same Unit as Last Enumeration Period	<u>84S</u>	<u>85N</u>		
		84S-93S	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	Status of Unit	<u>83N</u>	<u>83S</u>	<u>84S</u>	<u>85N</u>
		77S-93S	<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	Number of Units Involved in Merger	<u>84S</u>	<u>85N</u>		
		84S-93S	2-8 2 to 8 Units Involved in Merger	G	G		
			9 Not a Type C-33 Non-Interview				
1542	PERSINT	81N-93N	Personal Or Telephone Interview	<u>83N</u>	<u>84S</u>	<u>85N</u>	
		84S-93S	1 Personal Visit	55	1	1	
			2 Telephone				
			8 Not Answered				
			9 Not Applicable				

A unit is eligible for Computer Assisted Telephone Interviewing (CATI) in the national survey if in the previous survey it was occupied, had a phone, the variable TYPE is 1,2,or 3, and a street address is available (as apposed to a physical description, sometimes used in rural areas). If CATI finds a new household at the unit, they stop and send a personal interviewer.

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 <u>81N</u> <u>83N</u> 1 Unit Is In Panel 2, 3, 4, 5, 6, i.e., Selected For Personal Interview 1 Unit Is In Panel 2, 4, and 6 2 Some Reason Given 98 98 Interviewer Did Not Fill In Reason Or Unit At A Special Place 99 99 Telephone Interview Note: Detailed codes in questionnaires were all consolidated to code 2.	<u>83N</u> 55			
1544	INTLNG	87N	Language Interview Was Conducted In 1 English 2 Spanish 3 Other 8 Not Answered 9 Not Applicable	<u>87N</u>			
1545	STATUA	85N-93N 84S-93S	Occupancy Status For Type A Noninterviews 1 Occupied as a Usual Residence by at Least One Person 2 All Occupants Have a Usual Residence Elsewhere 3 Don't Know 9 Not Applicable	<u>84S</u> <u>85N</u> 1 1			
1546	VACANCY	73N-93N 74S-93S	Reason Why Unit Is Vacant Or URE <u>73N-74N</u> <u>75N-83N</u> <u>85N-93N</u> <u>74S</u> <u>75S-83S</u> <u>84S-93S</u> 1 1 1 Vacant--For Rent 2 2 2 Vacant--For Rent Or Sale 3 3 3 Vacant--For Sale, Regular Vacant--For Sale As Condominium 4 4 4 Vacant--For Sale As Cooperative 3 5 4 Rented, Not Yet Occupied 4 6 5 Sold, Not Yet Occupied 5 7 6 Held For Occasional Use-- No Specific Season 6 8 7 Other Vacant or Usual Residence Elsewhere, e.g., pending estate settlement, or held off market for owner's personal reasons. 8 10 8 Seasonal Summer Occupancy 9 11 9 Seasonal Winter Occupancy 10 12 10 Other Seasonal Occupancy 7 9 11 Migratory 99 99 99 Occupied, Non-Interview, or Vacant or URE Units in Transient Hotels, Mobile Homes, or "Other Housing" (see TYPE).	<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 37	<u>85N</u> 37
1547	MOVAC	73N-93N 74S-93S	Months This House Or Apartment Has Been Vacant <u>73N-83N</u> <u>85N-93N</u> <u>74S-83S</u> <u>84S-93S</u> 1 0 0 Months Up to 1 Month 2 1-24 1 Month to 24 Months 3 1 Month up to 2 Months 4 2 Months up to 6 Months 5 6 Months up to 12 Months 6 1 Year to 2 Years 25 2 Or More Years 26 Never Occupied As Permanent Home 27 Don't Know 9 99 Not Vacant 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. See Moperm, variable number 24.	<u>83N</u> 5	<u>83S</u> 5	<u>84S</u> 13	<u>85N</u> 13
1548	MHSTAY	85N-93N 85S-93S	Mobile Home Will Remain Where It Is (Vacant MH Only) 1 Yes 2 No 8 Not Answered 9 Not a vacant mobile home or Not Applicable	<u>85S</u> <u>85N</u> 16 16			

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

1549 NOINT 74N-93N Type Of Non-Interview 83N 83S 84S 85N  
74S-93S 74N- 74S- 77N- 78S- 85N-93N  
76N 77S 83N 83S 84S-93S  
1 1 1 1 1

NOINT NOT ON  
File prior to  
1977

76N	77S	83N	83S	84S-93S	Description
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	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	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 Unit Boarded Up (Type B Non-Interviews, Int. Obs.) 83N 83S 84S 85N  
79S-93S 1 Yes 1 1 1 1  
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

MARKW

1550A MARKET 91N-93N Occupied: Listed for Sale or Told Landlord Will Vacate within Month  
91S-93S 1 Yes  
2 No  
8 Not Answered  
9 Vacant, URE, or Non-Interview

1550B VACVAC 87N-93N For Rent for Vacation or Short Term Use 87N  
87S-93S 1 Yes N12  
2 No  
8 Not Answered  
9 Occupied, URE, NonInterview, or not for rent

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	WHYNOC	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

NOT ON PUF

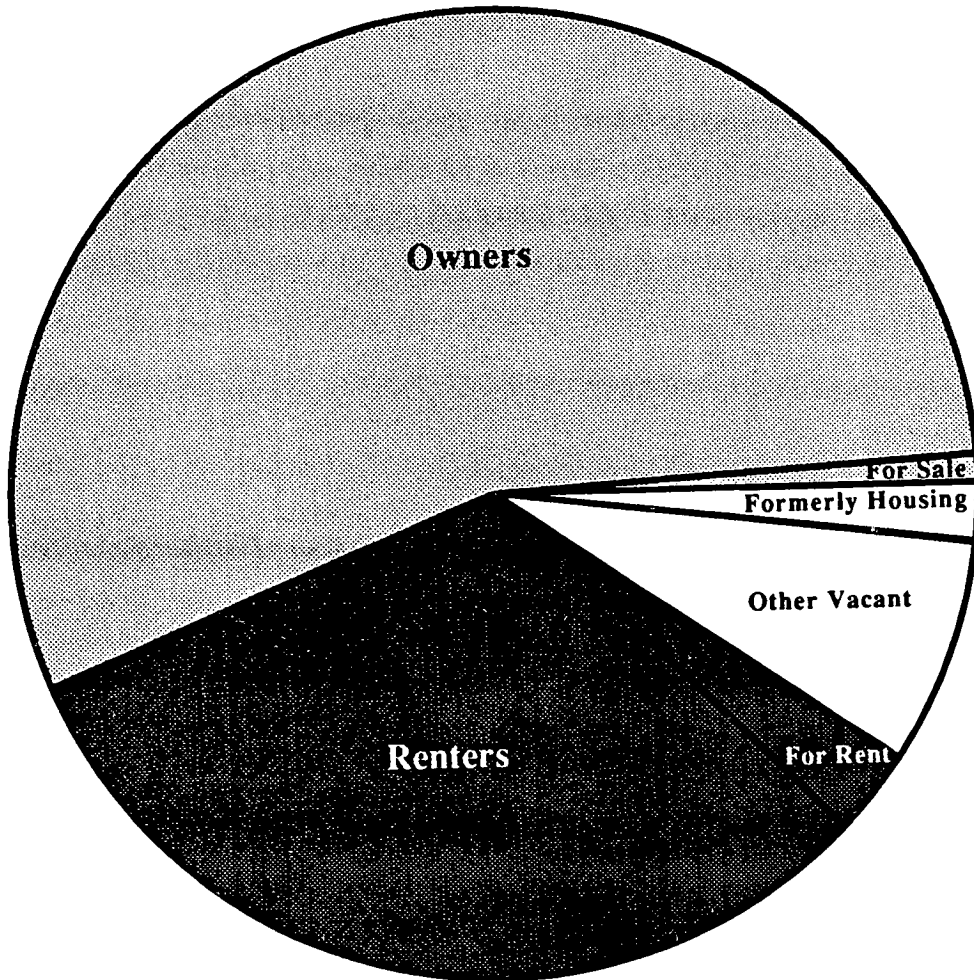
NOT ON PUF

SAMPLE STATUS AND ALLOCATION (Continued)

PAGE ON QUESTIONNAIRE

NOT ON PUF

REF#	NAME	SURVEYS	DESCRIPTION	84S	85N
1563	HOWLST	85N-93N 84S-93S	How Unit Was Lost From Housing Stock		
			1 Demolished	5	5
			2 Disaster Loss		
			9 Not a Type C-30 Non-Interview		
1584	HOWBAD	85N-93N 84S-93S	Extent of Demolition		
			1 All of Unit	5	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		



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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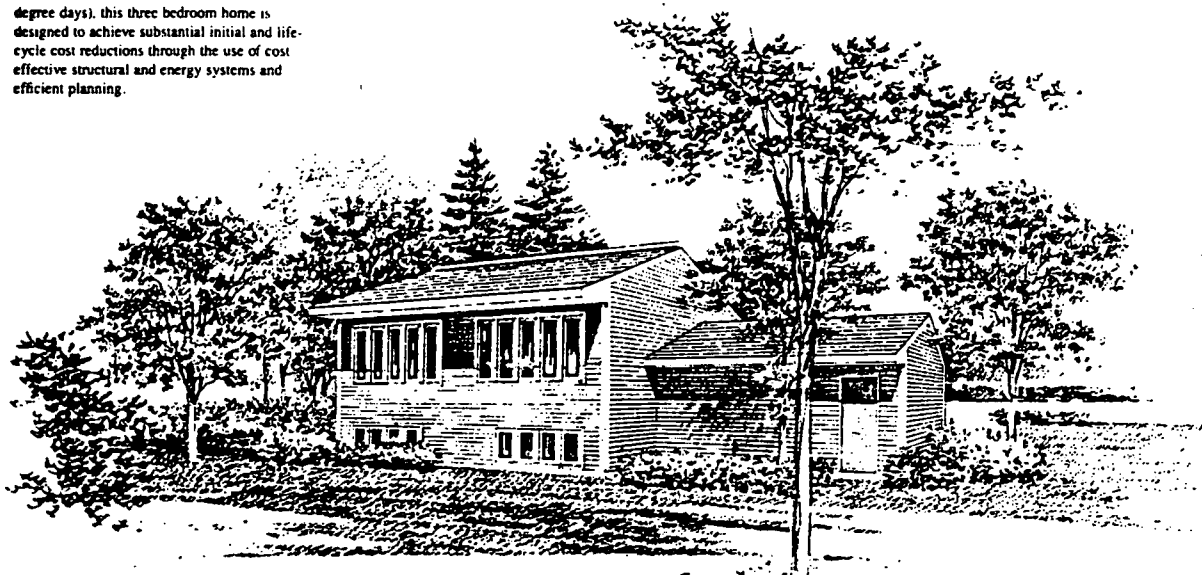
## **Double-Walled Bi-Level**

*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 after April 1 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.

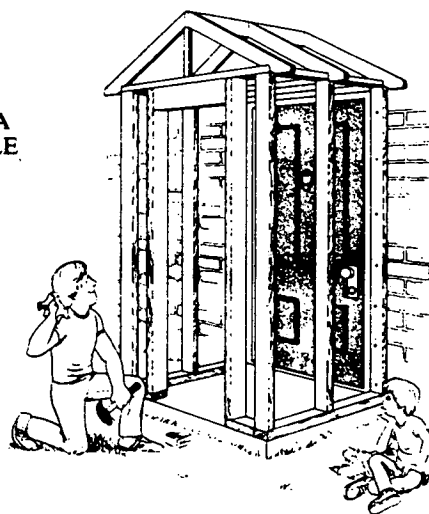
Differences in concepts or definitions between AHS and Census are highlighted in the Introductions to the other sections of this Codebook.

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.

ADDING A  
VESTIBULE  
ONTO AN  
EXISTING  
PORCH



ALL THESE  
SHOULD BE  
CAULKED

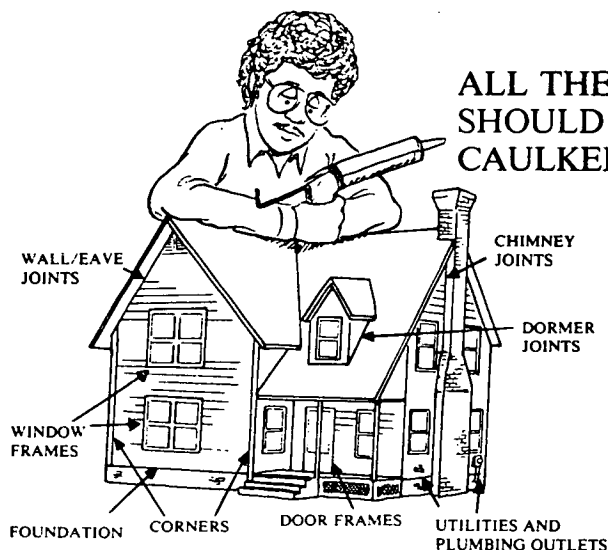


Exhibit 1: Ancestry Codes

001-199: Western Europe (except Spain)

Code	Ancestry
001	Austrian
002	Tirolean
003	Andorran
004	Basque
005	Belgian
006	Flemish (Fiamand, Fiamand)
007	Italian
008	Cypriot
009	Greek-Cypriote
010	Turk-Cypriote
011	Icelandic
012	Danish
013	Faeroe Islander
014	Dutch (Hollander, 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, Orangeman, Antrim, Armagh, Down, Fermanagh, Derry, Londonderry, Tyrone)
024	Finnish
025	Livonian
026	Karelian
027	Åland Islander
028	French (French Creole, Gascon, Provençal, 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	Cree
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	Monegasque (Monacan)
078	Norwegian (Jan Mayen Islander, Spitsbergen Svalbard Islander)
079	Portuguese (Lusitanian)
080	Azorean
081	Maderan
082	Swedish
083	Swiss
084	Schweiz, Suisse, Switzer
085	Ladin, Rumantsch
086	Ticino
087	Suisse-Romane
088	Lapp (Samiel)
089	Scandinavian (Nordic)
090	Astorian
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 (Gieg, Tosk)
102	Bulgarian (Eastern Rumelian)
103	Macedonian
104	Czechoslovakian (Czech)
105	Bohemian (Moravian)
106	Slovak
111	Estonian
113	Hungarian
114	Magyar
117	Latvian (Lettsih)
120	Lithuanian (Litvaid)
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	Russian
141	Muscovite
142	Crimmean (Kriti Islander, Siberian, Buriat, Dagestan, Balkar, Kom, Marr, Tuva)
143	Azerbaijani
144	Bashkir
145	Chevash
146	Tatar
147	Cossack (Kazak)
148	Kirghiz
149	Moldovian
150	Ossetian
151	Tadzhik (Tajik)
152	Tartar
153	Turcoman (Turkmen)
154	Udmurt
155	Uzbek (Uzbek)

Code	Ancestry
156	Volvak
159	Armenian
161	Georgian
163	Ruthenian (Little Russian, Malo-Russian)
164	Carpathian (Carpathian)
166	Ukrainian
168	Belorussian (White Russian)
170	Slav (Slavic)
172	Gypsy (Rom, Boyash, Cali, Dom, Kalderash, Luri, Nat Sem)
173	Eastern European
174	Central European

200-299: Spanish Categories

Code	Ancestry
200	Spaniard (Español, Castilian, Iberian, Valencian)
201	Canarian Islander (Canarian, Majorcan, Mallorcan)
202	Spanish Basque (Basco, Euskalduna)
203	Catalonian
204	Galician (Gallego)
205	Spanish
206	Spanish American
207	Hispanic (Hispano)
208	Californio
209	Mexican (Mexicano)
210	Mexican-American
211	Nuevo Mexicano (Tajano, 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 (Cuaibiro)
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
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	Guaadeloupe Islander (Martinique Islander, St. Martin Islander [French])
332	Cayenne (French Guianese)
333	West Indian
334	Arawak (Black Carib, Carib Carifuna)
335	Belizean (British Honduras)
336	Brazilian
337	San Andres
338	Guianese (British Guiana)
339	Providencia
340	Surinam (Dutch Guiana)
341	Barbadian

(400-499) North Africa and Southwest Asia

Code	Ancestry
400	Algerian
402	Egyptian (Copt, Fellah, United Arab Republic)
404	Libyan (Tripolitanian)
406	Moroccan (Tangier)
407	Ifri
408	Tunisian
409	Moor
410	Berber
411	North African
412	Athracmas (Cauta, Melilla, Chafarinas)
413	Rio de Oro (Seguia el Hamra)
414	Bahraini
415	Iranian (Tehran, Persian)
417	Iraqi
419	Israeli
421	Jordanian (Mashemite)
423	Kuwaiti
425	Lebanese (Beirut)
427	Saudi Arabian
429	Syrian (Druse)
430	Aramean
431	Jebel Druse
432	Lebanian
434	Turkish (Cordian, Hestay, Asia Minor)
435	Yemeni (Yemen Arab Republic)

Code	Ancestry
436	Mozcat
437	Omani
438	Trucial Oman
439	Qatar
440	Aden
441	Kurle Maria Islander
442	Bedouin
443	Kurd
444	Palestinian
445	Trans-Jordan
446	Casan
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-Qaiwain)
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 (Faso)
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, Eloba, Fernando Po)
522	Ethiopian (Abyssinian)
523	Eritrean
525	Gabonese
527	Gambian
529	Ghanian (Ashanti, Gold Coast, Twi)
530	Guinean
531	Guinea-Bissau
532	Indy Coast
534	Kamyan
538	Lesotho (Basuto)
541	Liberian
543	Madagascan
544	Malian
547	Mauritanian
549	Mozambican
550	Nambian
551	Niger
553	Nigerian
554	Fulani (Fulah)
555	Musa
556	Ibo
557	Tiv (Yoruba)
559	Rhodesian (Zimbabwe, Zimbabwe-Rhodesian)
561	Rwandan
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, Seychelles, 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, Dehi, Dravidian, Indo-Aryan, Madhya Pradesh, Orissa, Rajasthan, Sikkim, Uttar Pradesh)
614	Punjabi
615	Andhra Pradesh
616	Assamese
617	Gujarati
618	Karnatakian
619	Keralan
620	Maharashtrian
621	Naga
622	Tamilian
623	Madras
624	Goanese
625	Mizoram (Mysore)
627	Rondicheriy
628	Andaman Islander (Nicobar Islander)
630	Pakistan (Sind, Jammu, Kashmirian, W. Pakistan)
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 (Jehoi, Uigur, Yao)
707	Caronesse (Formosan)
708	Manchurian
709	Mongolian (Kalmuck)
710	Tibetan
711	Hong Kong
712	Macau (Portuguese Macao)
714	Filipino (Philipino, Cebuano, Ilocano, Tagalog)

Exhibit 1: Ancestry Codes (continued)

Code	Ancestry
717	Indonesian (Islanders: Ascension, Celebes, Sulawesi, Moluccas, Sunda: Java, Sumatran, Bangka, Billiton, Borneo, Borneo, Dutch E. Indian, Portuguese Timor)
719	Japanese (Issei, Nippo- neise, Nisei, Sansei, Yonsei)
720	Ryukyu Islander
721	Okinawan
723	Korean (Chosen, North Korean, South Korean)
725	Laotian
726	Hmong
727	Meo
729	Malaysian (Sabah, Sakai, Sarawak, Semang, Senoi)
731	Singaporean
742	Thai (Siamese)
743	Thai Dan (Black Thai)
744	Western Lao
747	Taiwanese
748	Vietnamese (Annamese, North Vietnamese, South Vietnamese)
749	Chom (Montagnard)
750	Katu
751	Me
752	Hmong
753	Indo-Chinese
754	Eurasian (Indo-European)
755	Asian (Oriental)
756	Eastern Archipelago (Riau Islander)

(800-899) Pacific

Code	Ancestry
800	Australian (New S. Wales, Northern Territory, Queensland, Victoria)
801	Tasmanian
803	Fijian
805	New Zealander
806	Maori
808	New Guinean
809	Papuan
810	American Samoan
811	Tahitian Islander
812	Tongan
813	Hawaiian
814	Part-Hawaiian
815	Guamanian
816	Chamorro Islander
817	Marshall Islander
818	Caroline Islander
819	Mitaki Islander
820	Nihoa Islander
821	Sapan Islander
822	Northern Marianas Islander
823	U.S. Trust Territories of the Pacific
824	Truk Islander
825	Yap Islander
826	Solomon Islander
827	Norfolk Islander
828	Cook Islander
829	Christmas Islander
830	Campbell Islander
831	Kermadec Islander
832	Phoenix Islander
833	New Caledonia Islander
834	New Hebrides Islander
835	Polynesian Islander
836	Micronesian Islander
837	Polynesian Islander
838	Pacific Islander (Oceania)
839	Samoan
840	French Polynesia (Society Islander, Tahitian)
841	French Samoa
842	Talouan
843	Ulithian (Palau)
844	Morotian (Palau), Morotian (Palau)

Code	Ancestry
845	Pulawatese (Tamatanian)
846	Mortlockese
847	Ponapean
848	Pingelapese
849	Mokilese
850	Kosraean
851	Ngatikese
852	Nukuoroan
853	Kapingamarangan
854	Gilbertese
855	Nauruan
856	Niuean
857	Hall Islander
858	Nanenua (Uluk)
859	Lamotrekese (Sarawalese)
900-919	North American (except Spanish Categories)

Code	Ancestry
901	American
902	United States
903	Afro-American (Bilalian, Black, Colored, Creole, Mulatto, Negro, Nigri- tarian, Nonwhite)
906	White/Caucasian (Anglo, Anglo-Saxon, Appalachian, Aryan, Hillbilly, Swamp Yankee, WASP, White,
908	Greenlander
909	Canadian (Albertan, British Columbian, Labradorean, Manitoban, New Brunswick, Ontarian, Prince Edward Islander, Saskatchewan, Yukoner)
910	Newfoundland
911	Nova Scotian
912	French Canadian (Quebec)
913	Bermudan
915	North American
916	American Indian (American Indian Tribes)
917	Aleut
918	Eskimo

(1-911) Code Ranges for Common Ancestry

1-2	Austrian
3-7	Belgian
8-10	Cypriot
14-15	Dutch
16-18,	
96-97	English
24-27	Finnish
28-31,	
90	French
32-44	German
46-48	Greek
52-73	Italian
79-81	Portuguese
83-87	Swiss
90-91	Alsatian
102-103	Bulgarian
104-105	Czechoslovakian
113-114	Hungarian
122-124	Polish
125-129	Rumanian
140-156	Russian (Specified categories) <sup>1</sup>
163-164	Ruthenian
200-204	Spaniard
205-208	Spanish
209-212	Mexican
310-312	Dutch West Indies
314-316	Trinidadian/Tobagonian
327-328	Dominican Islander

Code	Ancestry
920	American Indian-English-French
921	American Indian-English-German
922	American Indian-English-Irish
923	American Indian-German-Irish
924	Dutch-French-Irish
925	Dutch-German-Irish
926	Dutch-Irish-Scotch (or Scottish)
927	English-French-German
928	English-French-Irish
929	English-German-Irish
930	English-German-Swedish
931	English-Irish-Scotch (or Scottish)
932	English-Scotch (or Scottish)-Welsh
933	French-German-Irish
934	German-Irish-Italian
935	German-Irish-Scotch (or Scottish)
936	German-Irish-Swedish

330-332	French West Indies
406-407	Moroccan
429-432	Syrian
450-451	Middle Eastern
515-516	Congolese
520-521	Equatorial Guinea
522-523	Ethiopian
533-537	Nigerian
570-574	South African
576-580	Sudanese
584-586	Tanzanian
591-592	Upper Volta
600-602	Afghan
613-625,	
627-628	Asian Indian
633-635	Ceylonese
700-702	Burmese
703-704	Cambodian
706-712	Chinese
719-720	Japanese
725-727	Laotian
742-744	Thai
748-752	Vietnamese
800-801	Australian
805-806	New Zealander
808-809	New Guinean
901-902	American
909-911	Canadian

<sup>1</sup>Includes Austrian, Georgian, Ruthenian, Ukrainian, and Belorussian.

Exhibit 2: Occupation Codes

(The numbers in parentheses refer to the 1980 Standard Occupational Classification code equivalents. R means rest, N.E.C. means not elsewhere classified.)

1980 CODE MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

Executive, Administrative, and Managerial Occupations

- 003 Legislators (111)
- 004 Chief executives and general administrators, public administration (112)
- 005 Administrators and officials, public administration (1132-1139)
- 006 Administrators, private services (1131)
- 007 Financial managers (122)
- 008 Personnel and labor relations managers (123)
- 009 Purchasing managers (124)
- 013 Managers, marketing, advertising, and public relations (125)
- 014 Administrators, education and related fields (128)
- 015 Managers, medicine and health (131)
- 016 Managers, properties and real estate (1353)
- 017 Postmasters and mail superintendents (1344)
- 018 Funeral directors (pt 1359)
- 019 Managers and administrators, n.e.c., (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359)
- 023 Management Related Occupations
- 024 Accountants and auditors (1412)
- 025 Underwriters (1414)
- 026 Other financial officers (1415, 1419)
- 027 Management analysts (142)
- 028 Personnel, training, and labor relations specialists (143)
- 029 Purchasing agents and buyers, farm products (1443)
- 030 Buyers, wholesale and retail trade except farm products (1442)
- 033 Purchasing agents and buyers, n.e.c. (1449)
- 034 Business and promotion agents (145)
- 035 Construction inspectors (1472)
- 036 Inspectors and compliance officers, except construction (1473)
- 037 Management related occupations, n.e.c. (149)

Professional Specialty Occupations

Engineers, Architects, and Surveyors

- 043 Architects (161)
- Engineers
- 044 Aerospace (1622)
- 045 Metallurgical and materials (1623)
- 046 Mining (1624)
- 047 Petroleum (1625)
- 048 Chemical (1626)
- 049 Nuclear (1627)
- 053 Civil (1628)
- 054 Agricultural (1632)
- 055 Electrical and electronic (1633)
- 056 Industrial (1634)
- 057 Mechanical (1635)

Professional Specialty Occupations (continued)

- 058 Marine and naval architects (1637)
- 059 Engineers, n.e.c. (1639)
- 063 Surveyors and mapping scientists (164)
- Mathematical and Computer Scientists
- 064 Computer systems analysts and scientists (171)
- 065 Operations and systems researchers and analysts (172)
- 066 Actuaries (1732)
- 067 Statisticians (1733)
- 068 Mathematical scientists, n.e.c. (1739)
- Natural Scientists
- 069 Physicists and astronomers (1842, 1843)
- 073 Chemists, except biochemists (1845)
- 074 Atmospheric and space scientists (1846)
- 075 Geologists and geodesists (1847)
- 076 Physical scientists, n.e.c. (1849)
- 077 Agricultural and food scientists (1853)
- 078 Biological and life scientists (1854)
- 079 Forestry and conservation scientists (1852)
- 083 Medical scientists (1855)

Health Diagnosing Occupations

- 084 Physicians (261)
- 085 Dentists (262)
- 086 Veterinarians (27)
- 087 Optometrists (281)
- 088 Podiatrists (283)
- 089 Health diagnosing practitioners, n.e.c. (289)

Health Assessment and Treating Occupations

- 095 Registered nurses (29)
- 096 Pharmacists (301)
- 097 Dietitians (302)
- Therapists
- 098 Inhalation therapists (3031)
- 099 Occupational therapists (3032)
- 103 Physical therapists (3033)
- 104 Speech therapists (3034)
- 105 Therapists, n.e.c. (3039)
- 106 Physicians' assistants (304)

Teachers, Postsecondary

- 113 Earth, environmental, and marine science teachers (2212)
- 114 Biological science teachers (2213)
- 115 Chemistry teachers (2214)
- 116 Physics teachers (2215)
- 117 Natural science teachers, n.e.c. (2216)
- 118 Psychology teachers (2217)
- 119 Economics teachers (2218)
- 123 History teachers (2222)
- 124 Political science teachers (2223)
- 125 Sociology teachers (2224)
- 126 Social science teachers, n.e.c. (2225)
- 127 Engineering teachers (2226)
- 128 Mathematical science teachers (2227)
- 129 Computer science teachers (2228)
- 133 Medical science teachers (2231)
- 134 Health specialties teachers (2232)
- 135 Business, commerce, and marketing teachers (2233)
- 136 Agriculture and forestry teachers (2234)
- 137 Art, drama, and music teachers (2235)
- 138 Physical education teachers (2236)
- 139 Education teachers (2237)
- 143 English teachers (2238)
- 144 Foreign language teachers (2242)
- 145 Law teachers (2243)
- 146 Social work teachers (2244)
- 147 Theology teachers (2245)
- 148 Trade and industrial teachers (2246)
- 149 Home economics teachers (2247)
- 153 Teachers, postsecondary, n.e.c. (2249)
- 154 Postsecondary teachers, subject not specified

Teachers, Except Postsecondary

- 155 Teachers, prekindergarten and kindergarten (231)
- 156 Teachers, elementary school (232)
- 157 Teachers, secondary school (233)
- 158 Teachers, special education (235)
- 159 Teachers, n.e.c. (236, 239)

Counselors, educational and vocational (24)

- 164 Librarians, Archivists, and Curators
- 165 Librarians (251)
- Archivists and curators (252)

Social Scientists and Urban Planners

- 166 Economists (1912)
- 167 Psychologists (1915)
- 168 Sociologists (1916)
- 169 Social scientists, n.e.c. (1913, 1914, 1919)
- 173 Urban planners (192)

Social, Recreation, and Religious Workers

- 174 Social workers (2032)
- 175 Recreation workers (2033)
- 176 Clergy (2042)
- 177 Religious workers, n.e.c. (2049)

Lawyers and Judges

- 178 Lawyers
- 179 Judges

Writers, artists, entertainers, and athletes

- 183 Authors
- 184 Technical writers
- 185 Designers
- 186 Musicians and composers
- 187 Actors and directors
- 188 Painters, sculptors, craft-artists, and artist printmakers
- 189 Photographers
- 193 Dancers
- 194 Artists, performers, and related workers, n.e.c.
- 195 Editors and reporters

Public relations specialists

- 197 Public relations specialists
- 198 Announcers
- 199 Athletes

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS

Technicians and Related Support Occupations  
Health Technologists and Technicians

- 203 Clinical laboratory technologists and technicians (362)
- 204 Dental hygienists (363)
- 205 Health record technologists and technicians (364)
- 206 Radiologic technicians (365)
- 207 Licensed practical nurses (366)
- 208 Health technologists and technicians, n.e.c. (369)

## Exhibit 2: Occupation Codes (continued)

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

## Exhibit 2: Occupation Codes (continued)

<b>Health Service Occupations</b>		
445	Dental assistants (5232)	533
446	Health aides, except nursing (5233)	534
447	Nursing aides, orderlies, and attendants (5236)	535
<b>Cleaning and Building Service Occupations, except Household</b>		
448	Supervisors, cleaning and building service workers (5241)	536
449	Maids and housemen (5242, 5249)	537
453	Janitors and cleaners (5244)	538
454	Elevator operators (5245)	
455	Pest control occupations (5246)	563
<b>Personal Service Occupations</b>		564
456	Supervisors, personal service occupations (5251)	565
457	Barbers (5252)	566
458	Hairdressers and cosmetologists (5253)	567
459	Attendants, amusement and recreation facilities (5254)	569
463	Guides (5255)	573
464	Ushers (5256)	575
465	Public transportation attendants (5257)	576
466	Baggage porters and bellhops (5262)	577
468	Welfare service aides (5263)	579
468	Child care workers, except private household (5264)	583
469	Personal service occupations, n.e.c. (5258, 5269)	584
<b>FARMING, FORESTRY, AND FISHING OCCUPATIONS</b>		
<b>Farm operators and managers</b>		
473	Farmers, except horticultural (5312-5314)	585
474	Horticultural specialty farmers (5315)	587
475	Managers, farms, except horticultural (5322-5324)	588
476	Managers, horticultural specialty farms (5325)	589
<b>Farm Occupations, Except Managerial</b>		593
477	Supervisors, farm workers (5611)	594
479	Farm workers (5612-5617)	595
483	Marine life cultivation workers (5618)	596
484	Nursery workers (5619)	597
<b>Related Agricultural Occupations</b>		598
485	Supervisors, related agricultural occupations (5621)	599
486	Groundskeepers and gardeners, except farm (5622)	
487	Animal caretakers, except farm (5624)	613
488	Graders and sorters, agricultural products (5625)	614
489	Inspectors, agricultural products (5627)	615
<b>Forestry and Logging Occupations</b>		616
494	Supervisors, forestry and logging workers (571)	617
495	Forestry workers, except logging (572)	
496	Timber cutting and logging occupations (573, 579)	
<b>Fishers, Hunters, and Trappers</b>		
497	Captains and other officers, fishing vessels (pt 8241)	
498	Fishers (583)	
499	Hunters and trappers (584)	
<b>PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS</b>		
<b>Mechanics and Repairers</b>		
503	Supervisors, mechanics and repairers (601)	
<b>Mechanics and Repairers, Except Supervisors</b>		
<b>Vehicle and Mobile Equipment Mechanics and Repairers</b>		
505	Automobile mechanics, except apprentices (pt 6111)	613
506	Automobile mechanic apprentices (pt 6111)	614
507	Bus, truck, and stationary engine mechanics (6112)	615
508	Aircraft engine mechanics (6113)	616
509	Small engine repairers (6114)	617
514	Automobile body and related repairers (6115)	
515	Aircraft mechanics, exc. engine (6116)	633
516	Heavy equipment mechanics (6117)	634
517	Farm equipment mechanics (6118)	635
518	Industrial machinery repairers (6113)	636
519	Machinery maintenance occupations (614)	637
<b>Electrical and Electronic Equipment Repairers</b>		638
523	Electronic repairers, communications and industrial equipment (6151, 6153, 6155)	639
525	Data processing equipment repairers (6154)	644
526	Household appliance and power tool repairers (6156)	645
527	Telephone line installers and repairers (6157)	646
529	Telephone installers and repairers (6158)	647
533	Miscellaneous electrical and electronic equipment repairers (6152, 6159)	649
534	Heating, air conditioning, and refrigeration mechanics (616)	653
<b>Miscellaneous Mechanics and Repairers</b>		654
535	Camera, watch, and musical instrument repairers (6171, 6172)	655
536	Locksmiths and safe repairers (6173)	
538	Office machine repairers (6174)	656
539	Mechanical controls and valve repairers (6175)	657
543	Elevator installers and repairers (6176)	658
544	Millwrights (6178)	
547	Specified mechanics and repairers, n.e.c. (6177, 6179)	659
549	Not specified mechanics and repairers	674
<b>Construction Trades</b>		
<b>Supervisors, construction occupations</b>		
	Supervisors, brickmasons, stonemasons, and tile setters (6312)	675
	Supervisors, carpenters and related workers (6313)	676
	Supervisors, electricians and power transmission installers (6314)	677
	Supervisors, painters, paperhangers, and plasterers (6315)	678
	Supervisors, plumbers, pipefitters, and steamfitters (6316)	679
	Supervisors, n.e.c. (6311, 6318)	683
<b>Construction Trades, Except Supervisors</b>		684
	Brickmasons and stonemasons, except apprentices (pt 6412, pt 6413)	686
	Brickmason and stonemason apprentices (pt 6412, 6413)	687
	Tile setters, hard and soft (6414, pt 6462)	688
	Carpet installers (pt 6462)	689
	Carpenters, except apprentices (pt 6422)	693
	Carpenter apprentices (6422)	694
	Dry-wall installers (6424)	695
	Electricians, except apprentices (pt 6432)	696
	Electrician apprentices (pt 6432)	699
	Electrical power installers and repairers (6433)	
	Painters, construction and maintenance (6442)	
	Paperhangers (6443)	
	Plasterers (6444)	
	Plumbers, pipefitters, and steamfitters, except apprentices (pt 645)	
	Plumber, pipefitter, and steamfitter apprentices (pt 645)	
	Concrete and terrazzo finishers (6463)	
	Glaziers (6464)	
	Insulation workers (6465)	
	Paving, surfacing, and tamping equipment operators (6466)	
	Roofers (6468)	
	Sheetmetal duct installers (6472)	
	Structural metal workers (6473)	
	Drillers, earth (6474)	
	Construction trades, n.e.c. (6467, 6475, 6476, 6479)	
<b>Extractive Occupations</b>		
	Supervisors, extractive occupations (632)	
	Drillers, oil well (652)	
	Explosives workers (653)	
	Mining machine operators (654)	
	Mining occupations, n.e.c. (656)	
<b>Precision Production Occupations</b>		
	Supervisors, production occupations (57, 71)	
<b>Precision Metal Working Occupations</b>		
	Tool and die makers, except apprentices (pt 6811)	
	Tool and die maker apprentices (pt 6811)	
	Precision assemblers, metal (6812)	
	Machinists, except apprentices (pt 6813)	
	Machinist apprentices (pt 6813)	
	Boilermakers (6814)	
	Precision grinders, fitters, and tool sharpeners (6816)	
	Patternmakers and model makers, metal (6817)	
	Lay-out workers (6821)	
	Precious stones and metals workers (jewelers) (6822, 6866)	
	Engravers, metal (6823)	
	Sheet metal workers, except apprentices (pt 6824)	
	Sheet metal worker apprentices (pt 6824)	
	Miscellaneous precision metal workers (6829)	
<b>Precision Woodworking Occupations</b>		
	Patternmakers and model makers, wood (6831)	
	Cabinet makers and bench carpenters (6832)	
	Furniture and wood finishers (6833)	
	Miscellaneous precision woodworkers (6839)	
<b>Precision Textile, Apparel, and Furnishings Machine Workers</b>		
	Dressmakers (pt 6832, pt 7752)	
	Tailors (pt 6852)	
	Upholsterers (6853)	
	Shoe repairers (6854)	
	Apparel and fabric patternmakers (6856)	
	Miscellaneous precision apparel and fabric workers (6859, pt 7752)	
<b>Precision Workers, Assorted Materials</b>		
	Hand molders and shapers, except jewelers (6861)	
	Patternmakers, lay-out workers, and cutters (6862)	
	Optical goods workers (6864, pt 7477, pt 7477)	
	Dental laboratory and medical appliance technicians (6865)	
	Bookbinders (6844)	
	Electrical and electronic equipment assemblers (6867)	
	Miscellaneous precision workers, n.e.c. (6869)	
<b>Precision Food Production Occupations</b>		
	Butchers and meat cutters (6871)	
	Bakers (6872)	
	Food batchmakers (6873, 6879)	
<b>Precision Inspectors, Testers, and Related Workers</b>		
	Inspectors, testers, and graders (6881, 828)	
	Adjusters and calibrators (6882)	
<b>Plant and System Operators</b>		
	Water and sewage treatment plant operators (691)	
	Power plant operators (pt 693)	
	Stationary engineers (pt 693, 7688)	
	Miscellaneous plant and system operators (692, 694, 695, 696)	



## 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 operators (7312)
704	Lathe and turning machine operators (7312)
705	Milling and planing machine operators (7313, 7513)
706	Punching and stamping press machine operators (7314, 7317, 7514, 7517)
707	Rolling machine operators (7316, 7516)
708	Drilling and boring machine operators (7318, 7518)
709	Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
713	Forging machine operators (7319, 7519)
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)
Metal and Plastic Processing Machine Operators	
719	Molding and casting machine operators (7315, 7342, 7515, 7542)
723	Metal plating machine operators (7343, 7543)
724	Heat treating equipment operators (7344, 7544)
725	Miscellaneous metal and plastic processing machine operators (7349, 7549)
Woodworking Machine Operators	
726	Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
727	Sawing machine operators (7433, 7633)
728	Shaping and joining machine operators (7435, 7635)
729	Nailing and tacking machine operators (7636)
733	Miscellaneous woodworking machine operators (7434, 7439, 7534, 7539)
Printing Machine Operators	
734	Printing machine operators (7443, 7643)
735	Photoengravers and lithographers (6842, 7444, 7644)
736	Typesetters and compositors (6841, 7642)
737	Miscellaneous printing machine operators (6849, 7449, 7649)
Textile, Apparel, and Furnishings Machine Operators	
738	Winding and twisting machine operators (7451, 7651)
739	Knitting, looping, taping, and weaving machine operators (7452, 7652)
743	Textile cutting machine operators (7654)
744	Textile sewing machine operators (7653)
745	Shoe machine operators (7656)
747	Pressing machine operators (7657)
748	Laundering and dry cleaning machine operators (6855, 7658)
749	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	Fumaco, kiln, and oven operators, exc. food (7675)
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)
777	Miscellaneous and not specified machine operators
779	Miscellaneous and not specified machine operators
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, Tasters, 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 (8213)
809	Taxicab drivers and chauffeurs (8216)
813	Permitting lot attendants (874)
814	Motor transportation occupations, n.e.c. (8219)
Transportation Occupations, Except Motor Vehicles	
Rail Transportation Occupations	
823	Railroad conductors and yardmasters (8113)
824	Locomotive operating occupations (8232)
825	Railroad brake, signal, and switch operators (8233)
826	Rail vehicle operators, n.e.c. (8239)
Water Transportation Occupations	
828	Ship captains and mates, except fishing boats (pt 8241, 8242)
829	Sailors and deckhands (8243)
833	Marine engineers (8244)
834	Bridge, lock, and lighthouse tenders (8245)
Material Moving Equipment Operators	
843	Supervisors, material moving equipment operators (812)
844	Operating engineers (8312)
845	Longshore equipment operators (8313)
848	Hoist and winch operators (8314)
849	Crane and tower operators (8315)
853	Excavating and loading machine operators (8316)
855	Grader, dozer, and scraper operators (8317)
856	Industrial truck and tractor equipment operators (8318)
859	Miscellaneous material moving equipment operators (8319)
Handlers, Equipment Cleaners, Helpers, and Laborers	
863	Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
864	Helpers, mechanics and repairers (863)
Helpers, Construction and Extractive Occupations	
865	Helpers, construction trades (8641-8645, 8648)
866	Helpers, surveyor (8646)
867	Helpers, extractive occupations (865)
869	Construction laborers (871)
873	Production helpers (861, 862)
Freight, Stock, and Material Handlers	
875	Garbage collectors (8722)
876	Stevedores (8723)
877	Stock handlers and biggers (8724)
878	Machine feeders and offbearers (8725)
883	Freight, stock, and material handlers, n.e.c. (8726)
885	Garage and service station related occupations (873)
887	Vehicle washers and equipment cleaners (875)
888	Hand packers and packagers (8761)
889	Laborers, except construction (8769)
919	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 Durable goods--Continued	
010	Agricultural production, crops (01)	280	Other primary metal industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, 3390)
011	Agricultural production, livestock (02)	281	Cutlery, handtools, and other hardware (342)
020	Agricultural services, except horticultural (07, except 078)	282	Fabricated structural metal products (344)
021	Horticultural services (078)	290	Screw machine products (345)
030	Forestry (08)	291	Metal forgings and stampings (346)
031	Fishing, hunting, and trapping (09)	292	Ordnance (348)
MINING		300	Miscellaneous fabricated metal products (341, 343, 347, 349)
040	Metal mining (10)	301	Not specified metal industries
041	Coal mining (11, 12)	310	Machinery, except electrical
042	Crude petroleum and natural gas extraction (13)	311	Engines and turbines (351)
050	Nonmetallic mining and quarrying, except fuel (14)	311	Farm machinery and equipment (352)
060	CONSTRUCTION (15, 16, 17)	312	Construction and material handling machines (353)
MANUFACTURING Nondurable goods		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)	340	Electrical machinery, equipment, and supplies
111	Bakery products (205)	341	Household appliances (363)
112	Sugar and confectionery products (206)	342	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	351	Transportation equipment
130	Tobacco manufactures (21)	352	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, 229-234)	370	Cycles and miscellaneous transportation equipment (375, 379)
150	Miscellaneous textile mill products (229)	371	Professional and photographic equipment, and watches
Apparel and other finished textile products		372	Scientific and controlling instruments (381, 382)
151	Apparel and accessories, except knit (231-238)	380	Optical and health services supplies (383, 384, 385)
152	Miscellaneous fabricated textile products (239)	381	Photographic equipment and supplies (386)
Paper and allied products		382	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)
Durable goods		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 Durable goods	
232	Wood buildings and mobile homes (245)	500	Motor vehicles and equipment (501)
241	Miscellaneous wood products (244, 249)	501	Furniture and home furnishings (502)
242	Furniture and fixtures (25)	502	Lumber and construction materials (503)
Stone, clay, glass, and concrete products		510	Sporting goods, toys, and hobby goods (504)
250	Clays and glass products (321-323)	511	Metals and minerals, except petroleum (505)
251	Cement, concrete, gypsum, and plaster products (324, 327)	512	Electrical goods (506)
252	Structural clay products (325)	521	Hardware, plumbing and heating supplies (507)
261	Pottery and related products (326)	522	Not specified electrical and hardware products
262	Miscellaneous nonmetallic mineral and stone products (328, 329)	530	Machinery, equipment, and supplies (508)
Metal industries		531	Scrap and waste materials (5093)
270	Steel furnaces, steelworks, rolling and finishing mills (331)	532	Miscellaneous wholesale, durable goods (5094, 5099)
271	Iron and steel foundries (332)		
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 (804)
561	Farm supplies (519)	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 (873)
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)	930	Administration of human resources programs (94)
660	Jewelry stores (5944)	931	Administration of environmental quality and housing programs (95)
661	Sewing, needlework, and piece goods stores (5949)	932	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)	<u>FINANCE, INSURANCE, AND REAL ESTATE</u>	
682	Miscellaneous retail stores (593, 5947, 5948, 5993, 5994, 5999)	700	Banking (60)
691	Not specified retail trade	701	Savings and loan associations (612)
<u>FINANCE, INSURANCE, AND REAL ESTATE</u>		702	Credit agencies, n.e.c. (61, except 612)
700	Banking (60)	710	Security, commodity brokerage, and investment companies (62, 67)
701	Savings and loan associations (612)	711	Insurance (63, 64)
702	Credit agencies, n.e.c. (61, except 612)	712	Real estate, including real estate-insurance law offices (63,66)
710	Security, commodity brokerage, and investment companies (62, 67)	<u>BUSINESS AND REPAIR SERVICES</u>	
711	Insurance (63, 64)	721	Advertising (731)
712	Real estate, including real estate-insurance law offices (63,66)	722	Services to dwellings and other buildings (734)
<u>BUSINESS AND REPAIR SERVICES</u>		730	Commercial research, development, and testing labs (7391, 7397)
721	Advertising (731)	731	Personnel supply services (736)
722	Services to dwellings and other buildings (734)	732	Business management and consulting services (7392)
730	Commercial research, development, and testing labs (7391, 7397)	740	Computer and data processing services (737)
731	Personnel supply services (736)	741	Detective and protective services (7393)
732	Business management and consulting services (7392)	742	Business services, n.e.c. (732, 733, 735, 7394, 7395, 7396, 7399)
740	Computer and data processing services (737)	750	Automotive services, except repair (751, 752, 754)
741	Detective and protective services (7393)	751	Automotive repair shops (753)
742	Business services, n.e.c. (732, 733, 735, 7394, 7395, 7396, 7399)	752	Electrical repair shops (762, 7694)
750	Automotive services, except repair (751, 752, 754)	760	Miscellaneous repair services (763, 764, 7692, 7699)
751	Automotive repair shops (753)	<u>PERSONAL SERVICES</u>	
752	Electrical repair shops (762, 7694)	761	Private households (86)
760	Miscellaneous repair services (763, 764, 7692, 7699)	762	Hotels and motels (701)
<u>PERSONAL SERVICES</u>		770	Lodging places, except hotels and motels (702, 703, 704)
761	Private households (86)	771	Laundry, cleaning, and garment services (721)
762	Hotels and motels (701)	772	Beauty shops (723)
770	Lodging places, except hotels and motels (702, 703, 704)	780	Barber shops (724)
771	Laundry, cleaning, and garment services (721)	781	Funeral service and crematories (726)
772	Beauty shops (723)	782	Shoe repair shops (725)
780	Barber shops (724)	790	Dressmaking shops (part 729)
781	Funeral service and crematories (726)	791	Miscellaneous personal services (722, part 729)
782	Shoe repair shops (725)		
790	Dressmaking shops (part 729)		
791	Miscellaneous personal services (722, part 729)		

<sup>1</sup>Code 991 represents people who were unemployed and whose last job was as a member of the Armed Forces.

<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.

## 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	Venezuela	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	Armed Forces of the Far East (n.e.c.)	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 Gorda	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                      1 Less Than 1 Month                      2 1 Month Up To 2 Months                      3 2 Months Up To 6 Months                      4 6 Months Up To 12 Months                      5 1 Year To 2 Years                      6 2 Or More Years                      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>	85N 3
1574	BOAR80	85N	<p>Unit Boarded Up In 1980</p> <p>0 Occupied, Group Quarters Or Vacant                      1 Yes                      2 No                      9 New Unit Or Not Found In 1980 Census</p>	85N 3
1575	URE80	85N	<p>Usual Residence Elsewhere (URE) In 1980</p> <p>0 No Or Group Quarters                      1 Yes                      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>	85N 3
1576	NUN280	85N	<p>Structural Type Classification In 1980</p> <p>00 Group Quarters                      1-9 1-9 Units In Building                      10 10 Or More Units In Building                      11 Mobile Home</p>	85N 3
1577	NUN80	85N	<p>No. Of Living Qrtrs In Structure Incl. Vacant Qrtrs In 1980</p> <p>0 Group Quarters                      1 Mobile Home--No Permanent Room                      2 1, Detached or Mobile Home With Room Added                      3 1, Attached                      4 2                      5 3 Or 4                      6 5 To 9                      7 10 To 19                      8 20 To 49                      9 50 Or More                      10 Boat, Tent, Van, Etc.                      99 New Unit Or Not Found In 1980 Census</p>	85N 4
1578	ACC80	85N	<p>Access To Unit In 1980</p> <p>0 Group Quarters                      1 Direct                      2 Through Another Unit                      9 New Unit Or Not Found In 1980 Census</p>	85N 3
1578	TYPE80	85N	<p>Type Of Group Quarters In 1980</p> <p>0 Housing Unit                      1 Home For The Aged                      2 Rooming House                      3 Other Group Quarters Or Non-Inmate Institutions                      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>	85N 6
1580	ELEV80	85N	<p>Passenger Elevator In Building In 1980</p> <p>0 Group Quarters Or 1 To 3 Stories                      1 Yes                      2 No                      9 New Unit Or Not Found In 1980 Census</p>	85N 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	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	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	85N 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	85N 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	85N 4
1595	REL80	85N	Relationship To Ref Person In 1980 0 Reference Person 99 Vacant Unit, New Unit Or Not Found In 1980 Census	85N 2
1596	RL280	85N	Relationship To Ref Person Of Person 2 In 1980	85N 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
1800	RL680		Relationship To Ref Person Of Person 6 In 1980	2
1801	RL780		Relationship To Ref Person Of Person 7 In 1980	3
1802	RL880		Relationship To Ref Person Of Person 8 In 1980	++
1803	RL980		Relationship To Ref Person Of Person 9 In 1980	++
1804	RL1080		Relationship To Ref Person Of Person 10 In 1980	++
1805	RL1180		Relationship To Ref Person Of Person 11 In 1980	++
1806	RL1280		Relationship To Ref Person Of Person 12 In 1980	++
1807	RL1380		Relationship To Ref Person Of Person 13 In 1980	++
1808	RL1480		Relationship To Ref Person Of Person 14 In 1980	++
1809	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
1810	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
1811	S280	85N	Subfamily Number To Which Person 2 Belongs In 1980	85N G
1812	S380		Subfamily Number To Which Person 3 Belongs In 1980	G
1813	S480		Subfamily Number To Which Person 4 Belongs In 1980	G
1814	S580		Subfamily Number To Which Person 5 Belongs In 1980	G
1815	S680		Subfamily Number To Which Person 6 Belongs In 1980	G
1816	S780		Subfamily Number To Which Person 7 Belongs In 1980	G
1817	S880		Subfamily Number To Which Person 8 Belongs In 1980	G
1818	S980		Subfamily Number To Which Person 9 Belongs In 1980	G
1819	S1080		Subfamily Number To Which Person 10 Belongs In 1980	G
1820	S1180		Subfamily Number To Which Person 11 Belongs In 1980	G
1821	S1280		Subfamily Number To Which Person 12 Belongs In 1980	G
1822	S1380		Subfamily Number To Which Person 13 Belongs In 1980	G
1823	S1480		Subfamily Number To Which Person 14 Belongs In 1980	G
1824	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
1825	SR280	85N	Relationship Of Person 2 To Subfamily Head In 1980	85N G
1826	SR380		Relationship Of Person 3 To Subfamily Head In 1980	G
1827	SR480		Relationship Of Person 4 To Subfamily Head In 1980	G
1828	SR580		Relationship Of Person 5 To Subfamily Head In 1980	G
1829	SR680		Relationship Of Person 6 To Subfamily Head In 1980	G
1830	SR780		Relationship Of Person 7 To Subfamily Head In 1980	G
1831	SR880		Relationship Of Person 8 To Subfamily Head In 1980	G
1832	SR980		Relationship Of Person 9 To Subfamily Head In 1980	G
1833	SR1080		Relationship Of Person 10 To Subfamily Head In 1980	G
1834	SR1180		Relationship Of Person 11 To Subfamily Head In 1980	G
1835	SR1280		Relationship Of Person 12 To Subfamily Head In 1980	G
1836	SR1380		Relationship Of Person 13 To Subfamily Head In 1980	G
1837	SR1480		Relationship Of Person 14 To Subfamily Head In 1980	G
1838	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
1839	AGE80	85N	Age Of Ref Person In 1980	85N 2
1840	AG280		Age Of Person 2 In 1980	2
1841	AG380		Age Of Person 3 In 1980	2
1842	AG480		Age Of Person 4 In 1980	2
1843	AG580		Age Of Person 5 In 1980	2
1844	AG680		Age Of Person 6 In 1980	2
1845	AG780		Age Of Person 7 In 1980	2
1846	AG880		Age Of Person 8 In 1980	3
1847	AG980		Age Of Person 9 In 1980	++
1848	AG1080		Age Of Person 10 In 1980	++
1849	AG1180		Age Of Person 11 In 1980	++
1850	AG1280		Age Of Person 12 In 1980	++
1851	AG1380		Age Of Person 13 In 1980	++
1852	AG1480		Age Of Person 14 In 1980	++
1853	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 households, 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	<b>Ref Person Has Spanish Surname In 1980</b> 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	<b>First Ancestry Of Ref Person In 1980</b>	<u>6</u>
1688	FAN280	85N	<b>First Ancestry Of Spouse Or 2nd Adult In 1980</b>	8
1689	SANC80		<b>2nd Ancestry Of Ref Person In 1980</b>	6
1690	SAN280		<b>2nd Ancestry Of Spouse Or Second Adult In 1980</b> 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	<b>Ref Person Speaks English In 1980</b>	<u>85N</u> 6
1692	ENG280		<b>Spouse Or 2nd Adult Speaks English In 1980</b> 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	<b>Highest School Grade Attended By Ref Person In 1980</b>	<u>85N</u> 2
1694	GRA280		<b>Highest School Grade Attended By Spouse Or 2nd Adult In 1980</b> 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	<b>Ref Person Finished Highest Grade Attended In 1980</b>	<u>85N</u> 2
1696	FGR280		<b>Spouse Or 2nd Adult Finished Highest Grade Attended In 1980</b> 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 LY ear 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
1710	PBUS80	85N	Earnings From Business Or Prof Prac(1979)-Ref. Person	<u>85N</u> 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 Adul	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.)	
1718	HFUE80	85N	Fuel Used Most For Heating In 1980	<u>85N</u> 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	
1721	AMTE80	85N	Average Monthly Cost Of Electricity In 1980	<u>85N</u> 4
			0 Vacant Unit, Group Quarters	
			1-199 \$1-\$199	
			200 \$200 Or More	
			201 Included in Rent or No Charge	
			202 Not Used	
			999 New Unit Or Not Found In 1980 Census	
1722	AMTG80	85N	Average Monthly Cost Of Gas In 1980	<u>85N</u> 4
			0 Vacant Unit, Group Quarters	
			1-149 \$1-\$149	
			150 \$150 Or More	
			151 Included in Rent or No Charge	
			152 Not Used	
			999 New Unit Or Not Found In 1980 Census	
1723	AMT080	85N	Yearly Cost Of Oil, Coal, Kerosene, Wood, Etc. In 1980	<u>85N</u> 4
			0 Vacant Unit, Group Quarters	
			1-1999 \$1-\$1999	
			2000 \$2000 Or More	
			2001 Included in Rent or No Charge	
			2002 Not Used	
			9999 New Unit Or Not Found In 1980 Census	
1724	AMTW80	85N	Yearly Cost Of Water And Sewage In 1980	<u>85N</u> 4
			0 Vacant Unit	
			1-499 \$1-\$499	
			500 \$500 Or More	
			600 Included in Rent or No Charge	
			999 New Unit Or Not Found In 1980 Census	
1725	ZSHM80	85N	Monthly Ownership Costs In 1980	<u>85N</u> 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	85N 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	85N 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	85N 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	85N 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	Recorded Gross Rent (Contract Rent Plus Utilities) In 1980	85N 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	85N
1741	LOC280		If 1975, Spouse Or 2nd Adult Lived In	6
			0 C Sample (See Introduction), Not Part Of Migration Sample Or Born April 1975 Or Later	8
			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	85N
1743	ZLA280		Recoded Labor Force Status-Spouse Or 2nd Adult In 1980	G
			0 Under 16 Years Old	G
			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	85N
1745	LYR280		Year Spouse Or 2nd Adult Last Worked	7
			0 Under 16 Years Old	9
			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	85N
1747	OCC280		Occupation Of Spouse Or 2nd Adult In 1980	7
			0 Under 16 Years Old, In Armed Forces, Not In Labor Force, Did Not Work After 1974 Or Never Worked	9
			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	85N
1749	IND280		Type Of Business Or Industry (Spouse Or 2nd Adult)	7
			0 Under 16 Years Old, In Armed Forces, Not In Labor Force, Did Not Work After 1974 Or Never Worked	9
			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	<u>85N</u> 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	<u>85N</u> 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	<u>85N</u> 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	<u>85N</u> 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	<u>85N</u> 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	<u>85N</u> 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	<u>85N</u> 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	

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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	
			9 Not Applicable	85N
1766	TRAN80	85N	Principal Means Of Transportation To Work-Ref Person In 1980	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	Recoded Place Of Work, SMSA-Ref Person In 1980	85N 6
1775	WME280		Recoded Place Of Work, SMSA-Spouse Or 2nd Person In 1980	8
			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
1778	WDIS80	85N	Work And Public Transportation Disability In 1980	<u>85N</u> 6
			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	
1777	VET80	85N	Most Recent Veteran Status Of Ref Person In 1980	<u>85N</u> 6
1778	VET280		Most Recent Veteran Status Of Spouse Or 2nd Adult In 1980	8
			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	

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.

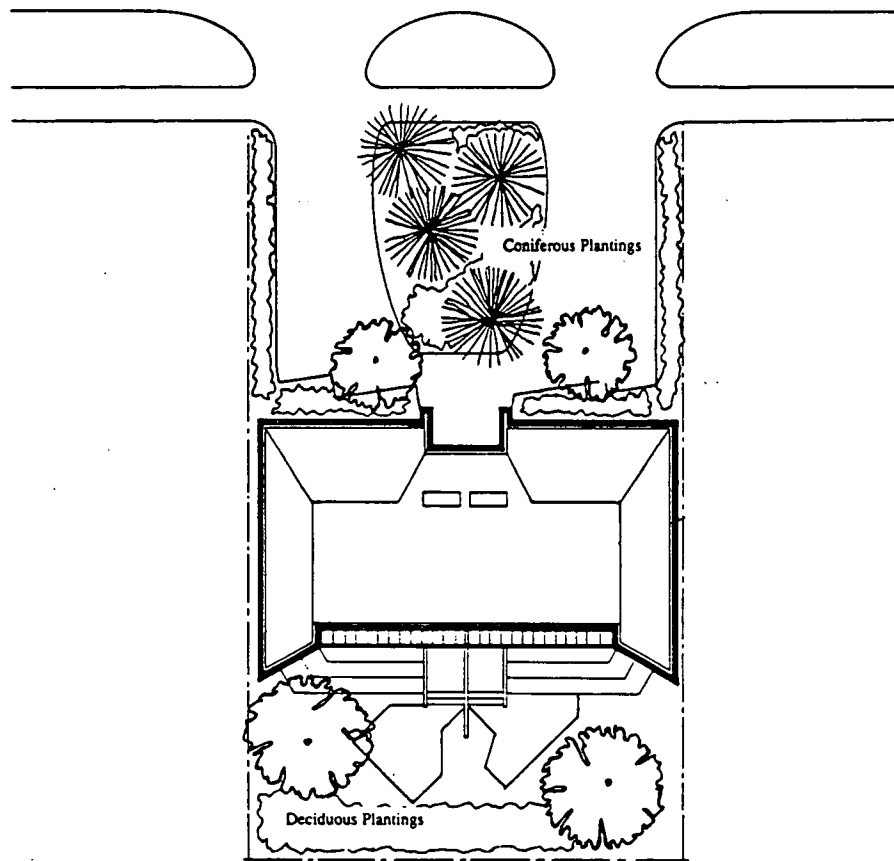
### Site Plan

The proposed site is comprised of two 40' x 155' lots in a low-to-medium density urban redevelopment area adjacent to a neighborhood park. Careful planning in terms of location of trees and plant material provides: *sun control*—through use of decid-

uous shade trees on the south; *wind control*—through the use of evergreen trees and shrubs located to the north; *snow control*—the northern landscaping is designed to direct snow build up into the area between the driveways and the north berm wall. Planting will be low maintenance varieties. Thorny

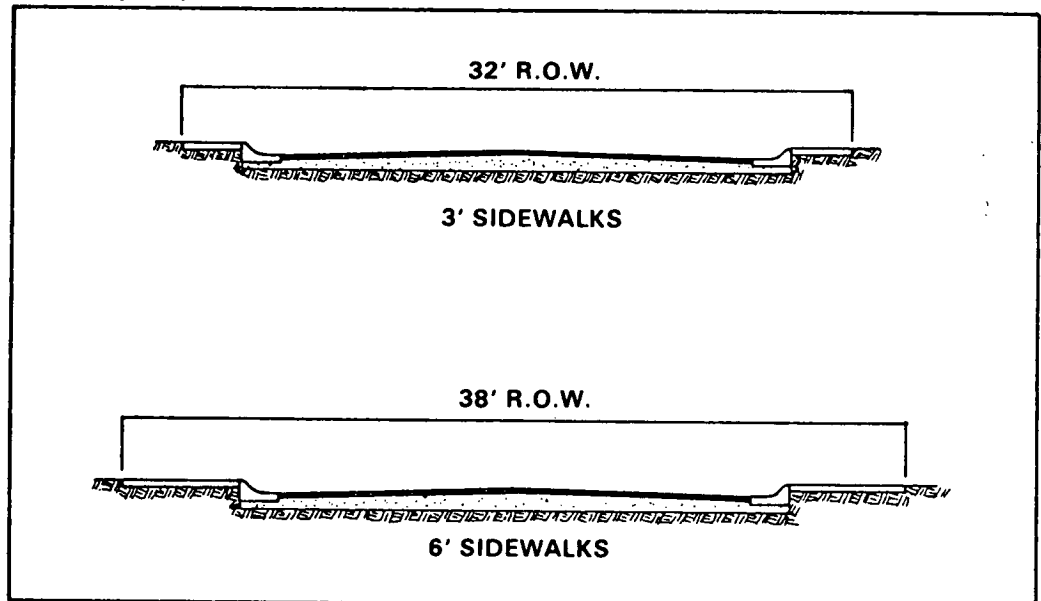
varieties will be used on portions of the berm to reduce access to those areas.

Site Plan

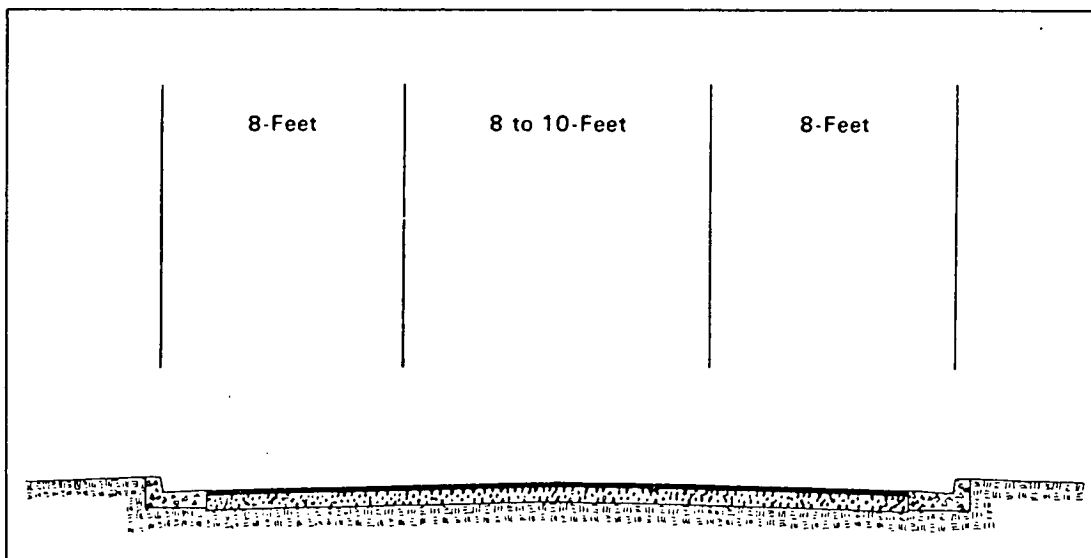


This section documents data related to transportation issues, such as distance traveled to work, time required, means of transportation, carpooling, etc. A few selected questions are asked most years for the reference person. More detailed information for one to fifteen employed people in the household is obtained periodically. In the 1975 National Sample and 1975-1977 SMSA samples, the upper limit of workers per household surveyed was fifteen, but the actual number almost always was less than eight. In the 1980-1981 National Samples and later surveys (except 1982S, see below), up to eight workers per household were surveyed.

In the 1982 SMSA the Census tape contains variables for nine workers. These variables are filled with 9's, as no household reported a ninth worker. These variables are not present in Abt tapes, and are not documented in this Codebook.



Three-foot and 6-foot sidewalk



Residential street with parking on both sides

COMMUTING

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE			
1779	WORKRS	75N 80N-81N	Number of Workers in Household 00 Zero Workers 1-15 1 To 15 Workers	81N G	82S G	85N G	
		75S-77S 82S	99 Dropped From Sample Or Not Yet In Sample				
1780	IFJ	74N-79N 75S-81S	Reference Person/Head Employed Last Week 1 Yes 2 No 8 Not Answered 9 Not Applicable	79N 38	81S 37		
1781	ALIN1	82S	Line Number Of First Adult 16+		82S	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		82S	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	81N 40	82S 40	84S 28	85N 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)	81N 40	82S 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

REF#	NAME	SURVEYS	DESCRIPTION	79N	81S	81N	82S	84S	85N
				38	37				
1821	TRANSJ	74N-79N 75S-81S	Main Means of Transportation To Work, Reference Person 74N-75N 76N-79N 78S-81S <u>75S-76S 77S</u>						
			1 1 1 Drives Alone						
			2 2 1 Truck						
			3 3 2 Shares Driving						
			4 4 2 Car or Carpool						
			5 5 5 Drives Others						
			6 6 7 Rides With Someone Else						
			7 7 7 Walks Only						
			8 8 6 Works At Home						
			9 9 7 Railroad						
			10 10 8 Subway Or Elevated						
			11 10 9 Bus Or Streetcar						
			12 11 10 Taxicab						
			13 11 11 Bicycle or Motorcycle						
			14 12 11 Motorcycle						
			15 13 12 Other						
			16 13 13 Bicycle						
			17 98 98 Not Answered						
			18 99 99 Not Applicable						
1822	TRAN1	75N	Principal Means of Transportation To Work-Worker 1			40	40	28	28
1823	TRAN2	80N-81N	Principal Means of Transportation To Work-Worker 2			42	42	29	29
1824	TRAN3	85N	Principal Means of Transportation To Work-Worker 3			44	44	29	29
1825	TRAN4	75S-77S	Principal Means of Transportation To Work-Worker 4			++	++	29	29
1826	TRANS	82S	Principal Means of Transportation To Work-Worker 5			++	++	++	++
1827	TRAN6	84S-85S	Principal Means of Transportation To Work-Worker 6			++	++	++	++
1828	TRAN7		Principal Means of Transportation To Work-Worker 7			++	++	++	++
1829	TRAN8		Principal Means of Transportation To Work-Worker 8			++	++	++	++

For All Variables, Standard Codes Are:

75N	80N-81N	85N	
<u>75S-77S</u>	<u>82S</u>	<u>84S-85S</u>	
		1	Car, Truck, Van
1	1		Drives Alone
2			Shares Driving
3			Drives Others
4			Rides With Someone Else
	2		Carpool
9	3	4	Bus Or Streetcar
8	4	5	Subway Or Elevated
7	5	6	Railroad
10	6	7	Taxicab
	7		Motorcycle Or Moped
11		8	Motorcycle
13	8	9	Bicycle
12	9	10	Other Vehicle
5	10	11	Walked Only
6	11	12	Works At Home
99	99	99	Not Applicable

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

REF#	NAME	SURVEYS	DESCRIPTION	79N	81S
				38	37
1830	VEHCL	78N-79N 78S-81S	Car or Truck Driven To Work, Reference Person <u>78N-79N 78S-81S</u>		
			1 Truck		
			1 1 Drives Alone		
			2 2 Car or Carpool		
			3 3 Shares Driving		
			4 4 Drives Others		
			5 4 Rides With Someone Else		
			8 8 Not Answered		
			9 9 Not Applicable		

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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
- Car
- 1 Truck
- 2 Van
- 3 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			
1856	PASS1	75N	No. Of People Usually Riding In Carpool-Worker 1	81N	82S	84S	85N
1857	PASS2	80N-81N	No. Of People Usually Riding In Carpool-Worker 2	40	40	28	28
1858	PASS3	85N	No. Of People Usually Riding In Carpool-Worker 3	42	42	29	29
1859	PASS4	75S-77S	No. Of People Usually Riding In Carpool-Worker 4	44	44	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.							
1864	PASSH1	80N-81N	Number of Household Members In Carpool-Worker 1	81N	82S		
1865	PASSH2	82S	Number of Household Members In Carpool-Worker 2	40	40		
1866	PASSH3		Number of Household Members In Carpool-Worker 3	42	42		
1867	PASSH4		Number of Household Members In Carpool-Worker 4	44	44		
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.							
1872	PUBTR1	80N-81N	Public Trans Used In Addition To Car-Worker 1	81N	82S		
1873	PUBTR2	82S	Public Trans Used In Addition To Car-Worker 2	40	40		
1874	PUBTR3		Public Trans Used In Addition To Car-Worker 3	42	42		
1875	PUBTR4		Public Trans Used In Addition To Car-Worker 4	44	44		
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				
1880	PLPUB1	80N-81N	Type Pub Trans as Secndry Trans to Work-Worker 1	81N	82S		
1881	PLPUB2	82S	Type Pub Trans as Secndry Trans to Work-Worker 2	40	40		
1882	PLPUB3		Type Pub Trans as Secndry Trans to Work-Worker 3	42	42		
1883	PLPUB4		Type Pub Trans as Secndry Trans to Work-Worker 4	44	44		
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.							
1921	WINUS1	85N	Place of Work In U.S.-Worker 1			84S	85N
1922	WINUS2	84S-85S	Place of Work In U.S.-Worker 2			28	28
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	1 Central City of Same SMSA As Residence		
		2	2 Work Outside CBD, in Central City		
			of SMSA of Residence		
		2	2 Second Central City, e.g. Oakland, CA		
		3	3 Balance of Same SMSA as Residence		
			CBD Not Reported. Work In Central		
			City of SMSA of Residence		
		3	3 Center City of Another SMSA		
		4	4 Work Outside Central City of SMSA		
			of Residence		
		4	4 Balance of Another SMSA		
		5	5 Work in CBD of Another SMSA (including		
			residents of non-metropolitan areas)		
		6	6 Work Outside CBD, In Central City		
			of Another SMSA (incl. non-metro res.)		
		7	7 CBD Not Reported. Work In Central City		
			of Another SMSA (incl. non-metro res)		
		8	8 Work Outside Central City of Another		
			SMSA (incl. non-metro residents)		
		9	9 Work Outside of Any SMSA		
		10	10 6 No Fixed Place of Work		
			7 Work Outside SMSA of Residence		
		11	11 8 Place of Work Not Reported		
		99	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	1 Work In County of Residence		
		2	2 Live in NYC, Work In Another Borough		
		3	3 Work Outside County of Residence, in		
			Other County of Same State		
		3	3 Work in Other County or Abroad		
		4	4 Work in Other State or Abroad		
		5	5 996 4 No Fixed Place of Work		
			5 County Suppressed to Protect		
			Confidentiality		
		6	6 998 8 Place of Work Not Reported		
		9	9 999 9 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	
1947	WKST1	75S-77S	State Of Place Of Work-Worker 1	77S	
1948	WKST2		State Of Place Of Work-Worker 2	41	
1949	WKST3		State Of Place Of Work-Worker 3	43	
1950	WKST4		State Of Place Of Work-Worker 4	45	
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					
1955	WKCBD1	75S-77S	Place Of Work in Central Business District (CBD)-Wrkr 1	77S	
1956	WKCBD2		Place Of Work in CBD-Worker 2	39	
1957	WKCBD3		Place Of Work in CBD-Worker 3	42	
1958	WKCBD4		Place of Work in CBD-Worker 4	43	
1959	WKCBD5		Place of Work in CBD-Worker 5	44	
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.					
1983	WKSTZ1	75S-77S	Place of Work in Special Tab Zone-Worker 1	77S	84S
1984	WKSTZ2	84S-85S	Place of Work in Special Tab Zone-Worker 2	39	28
1985	WKSTZ3		Place of Work in Special Tab Zone-Worker 3	42	29
1986	WKSTZ4		Place of Work in Special Tab Zone-Worker 4	43	29
1987	WKSTZ5		Place of Work in Special Tab Zone-Worker 5	44	29
1988	WKSTZ6		Place of Work in Special Tab Zone-Worker 6	++	++
1989	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:					
<u>75S-77S</u> <u>84S-85S</u>					
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.					

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

REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

				<u>77S</u>
1971	WKPLC1	75S-77S	Workplace Place Code (25,000 or more)-Worker 1	39
1972	WKPLC2		Workplace Place Code (25,000 or more)-Worker 2	42
1973	WKPLC3		Workplace Place Code (25,000 or more)-Worker 3	43
1974	WKPLC4		Workplace Place Code (25,000 or more)-Worker 4	44
1975	WKPLC5		Workplace Place Code (25,000 or more)-Worker 5	++
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

				<u>75N</u>	<u>77S</u>
1979	WPLSZ1	75N	Workplace Place Size-Worker 1	38	39
1980	WPLSZ2	75S-77S	Workplace Place Size-Worker 2	40	42
1981	WPLSZ3		Workplace Place Size-Worker 3	41	43
1982	WPLSZ4		Workplace Place Size-Worker 4	42	44
1983	WPLSZ5		Workplace Place Size-Worker 5	43	++
1984	WPLSZ6		Workplace Place Size-Worker 6	44	++
1985	WPLSZ7		Workplace Place Size-Worker 7	++	++
1986	WPLSZ8		Workplace Place Size-Worker 8	++	++

For All Variables, Standard Codes Are:

75N 75S-77S  
 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

				<u>81N</u>	<u>82S</u>	<u>84S</u>	<u>85N</u>
1987	WTIME1	75N	Time Usually Leave For Work-Worker 1	41	41	28	28
1988	WTIME2	81N	Time Usually Leave For Work-Worker 2	43	43	29	29
1989	WTIME3	85N	Time Usually Leave For Work-Worker 3	45	45	29	29
1990	WTIME4	75S-77S	Time Usually Leave For Work-Worker 4	++	++	29	29
1991	WTIME5	82S	Time Usually Leave For Work-Worker 5	++	++	++	++
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.

				<u>81N</u>	<u>82S</u>	<u>84S</u>	<u>85N</u>
1995	AMPM1	75N	Leave For Work AM Or PM-Worker 1	41	41	28	28
1996	AMPM2	81N	Leave For Work AM Or PM-Worker 2	43	43	29	29
1997	AMPM3	85N	Leave For Work AM Or PM-Worker 3	45	45	29	29
1998	AMPM4	75S-77S	Leave For Work AM Or PM-Worker 4	++	++	29	29
1999	AMPM5	82S	Leave For Work AM Or PM-Worker 5	++	++	++	++
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 Time Required For Journey To Work, Ref Per (One Way) 79N 81S  
 75S-81S 74N 75N-77N 78N-79N 78S-81S 38 37  
75S-77S

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 recorded by the Bureau of the Census.

2004 TIMEJ1 75N Time Required For Journey To Work-Worker 1 81N 82S 84S 85N  
 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 ++ ++ 29 29  
 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

82S 84S-85S  
 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 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 75N 77S  
 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			
2020	DISTJ	74N-79N 75S-81S	One-Way Distance From Home To Work-Reference Person 74N 75N-77N 78N-79N <u>75S-77S</u> <u>78S-81S</u>	<u>79N</u> 38	<u>81S</u> 37		
			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				
			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.				
2021	DISTJ1	75N	One-Way Distance From Home To Work-Worker 1	<u>81N</u> 41	<u>82S</u> 41	<u>84S</u> 28	<u>85N</u> 28
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 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.				
2029	TRNCH1	75N	Changed Principal Means of Trans In Last Year-Worker 1	<u>75N</u> 38	<u>77S</u> 39		
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	
2037	YTRNJ1	75N	Principal Means of Trans Prior to Change-Worker 1	75N	77S
2038	YTRNJ2	75S-77S	Principal Means of Trans Prior to Change-Worker 2	38	39
2039	YTRNJ3		Principal Means of Trans Prior to Change-Worker 3	40	42
2040	YTRNJ4		Principal Means of Trans Prior to Change-Worker 4	41	43
2041	YTRNJ5		Principal Means of Trans Prior to Change-Worker 5	42	44
2042	YTRNJ6		Principal Means of Trans Prior to Change-Worker 6	43	++
2043	YTRNJ7		Principal Means of Trans Prior to Change-Worker 7	44	++
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

REF#	NAME	SURVEYS	DESCRIPTION	75N	77S
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 Not Answered
- 9 Not Applicable or Not Answered
- 9 Not Applicable

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

REF#	NAME	SURVEYS	DESCRIPTION	75N	77S
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.

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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	77N 38	78S 39
2062	WNEIGH	75N-77N	Work-Home More Than 5 Miles-Like Present Neighbors	77N 38	78S 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 Note: Asked of people who don't mind living 5+ miles from work.	77N 38	78S 39
2070	DCLHSE	75N-77N	Work-Home More Than 5 Miles-Dislike Closer Homes	77N 38	78S 39
2071	DCLPED	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 Note: Asked of people who do mind living 5+ miles from work.	77N 38	78S 39
2080	REASON	75N-77N 76S-78S	Main Reason Live More Than 5 Miles From Ref Persn's Wrk 75N-76N 77N 76S 77S-78S 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 No Particular Reason 96 96 Object To Distance (Reason Not Reported) 97 97 Does Not Object to Distance (Code "2" In WDIST) 98 98 98 Not Answered 99 99 99 99 Not Applicable Note: In 1977N one case with code 90 was found.	77N 38	78S 39

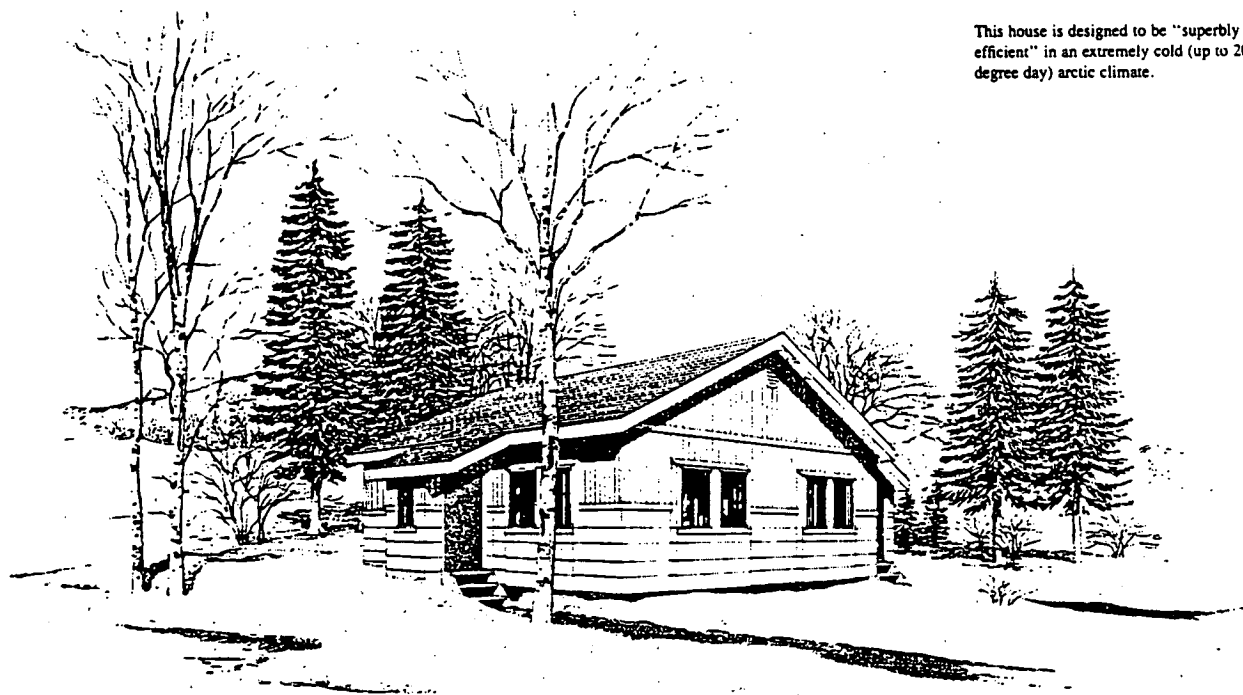
REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2081	REASN1	75N	Main Reason Live More Than 5 Miles From Ref Persn's Wrk	<u>75N</u> 13
			1 Like Neighbors	
			2 Like Present House	
			3 Close To Schools	
			4 Close To Shopping	
			5 Close To Others' Jobs	
			6 Can Afford House	
			7 Used To Present 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.*



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

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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 house hold 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 file, users interested in second homes must use data from the 1985 and 1987 files 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-93N 2nd Home Acquired Since Previous Survey 87N  
44  
 1 Yes  
 2 No  
 8 Not Answered  
 9 Not Applicable

Note: This is asked of people who've been here since previous survey. In 87-89 the detailed questions, from SSTAT1 on, are asked only for homes acquired since the last survey, and for new occupants.

2084 NADDUS 85N-93N No of 2nd Res Units Owned By Co-Owners/Renters Of This Unit 85N  
50  
 1-96 1-96  
 98 Not Answered  
 99 No Additional Units Owned, vacant, URE, or Non-Interview

2085 SSTAT1 85N-93N 1st Location: State 50  
 2086 SSTAT2 2nd Location: State 50  
 2087 SSTAT3 3rd Location: State 50  
 2088 SSTAT4 4th Location: State 50  
 2089 SSTAT5 5th Location: State 50  
 2090 SSTAT6 6th Location: State 50

Standard Codes For All Variables Are:  
 00 Outside the United States  
 01-56 (See STBRN1 in Mobility Section)  
 98 Not Answered  
 99 Not Applicable

2091 SLIN11 85N-93N Line No Of 1st Owner of 1st Location 50  
 2092 SLIN21 Line No Of 2nd Owner of 1st Location 50  
 2092A SLIN31 Line No Of 3rd Owner of 1st Location 50  
 2092B SLIN41 Line No Of 4th Owner of 1st Location 50  
 2093 SLIN12 Line No Of 1st Owner of 2nd Location 50  
 2094 SLIN22 Line No Of 2nd Owner Of 2nd Location 50  
 2094A SLIN32 Line No Of 3rd Owner of 2nd Location 50  
 2094B SLIN42 Line No Of 4th Owner of 2nd Location 50  
 2095 SLIN13 Line No Of 1st Owner Of 3rd Location 50  
 2096 SLIN23 Line No Of 2nd Owner Of 3rd Location 50  
 2096A SLIN33 Line No Of 3rd Owner of 3rd Location 50  
 2096B SLIN43 Line No Of 4th Owner of 3rd Location 50  
 2097 SLIN14 Line No Of 1st Owner Of 4th Location 50  
 2098 SLIN24 Line No Of 2nd Owner Of 4th Location 50  
 2098A SLIN34 Line No Of 3rd Owner of 4th Location 50  
 2098B SLIN44 Line No Of 4th Owner of 4th Location 50  
 2099 SLIN15 Line No Of 1st Owner Of 5th Location 50  
 2100 SLIN25 Line No Of 2nd Owner Of 5th Location 50  
 2100A SLIN35 Line No Of 3rd Owner of 5th Location 50  
 2100B SLIN45 Line No Of 4th Owner of 5th Location 50  
 2101 SLIN16 Line No Of 1st Owner Of 6th Location 50  
 2102 SLIN26 Line No Of 2nd Owner Of 6th Location 50  
 2102A SLIN36 Line No Of 3rd Owner of 6th Location 50  
 2102B SLIN46 Line No Of 4th Owner of 6th Location 50

Standard Codes For All Variables Are:  
 01-96 1 to 96  
 98 Not Answered  
 99 Not Applicable

2103 SURE1 85N-93N 1st Location Was Once Usual Residence 50  
 2104 SURE2 2nd Location Was Once Usual Residence 50  
 2105 SURE3 3rd Location Was Once Usual Residence 50  
 2106 SURE4 4th Location Was Once Usual Residence 50  
 2107 SURE5 5th Location Was Once Usual Residence 50  
 2108 SURE6 6th Location Was Once Usual Residence 50

Standard Codes For All Variables Are:  
 1 Yes  
 2 No  
 8 Not Answered  
 9 Not Applicable

2109 SUNIT1 85N-93N No. of Units Owned/Co-owned at 1st Location 50  
 2110 SUNIT2 No. of Units Owned/Co-owned at 2nd Location 50  
 2111 SUNIT3 No. of Units Owned/Co-owned at 3rd Location 50  
 2112 SUNIT4 No. of Units Owned/Co-owned at 4th Location 50  
 2113 SUNIT5 No. of Units Owned/Co-owned at 5th Location 50  
 2114 SUNIT6 No. of Units Owned/Co-owned at 6th Location 50

Standard Codes For All Variables Are:  
 0-997 0 to 997 Units  
 998 Not Answered  
 999 Not Applicable

2115-2117 VARIABLES OMITTED



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2118	SURB1	85N-93N	1st Location is Rural Or Urban Area	51
2119	SURB2		2nd Location is Rural Or Urban Area	51
2120	SURB3		3rd Location is Rural Or Urban Area	51
2120A	SURB4		4th Location is Rural Or Urban Area	51
2120B	SURB5		5th Location is Rural Or Urban Area	51
2120C	SURB6		6th Location is Rural Or Urban Area	51
			Standard Codes For All Variables Are:	
			1 Rural	
			2 Urban	
			8 Not Answered	
			9 Not Applicable	
2121	SRSRT1	85N-93N	1st Location Is In A Recreational/Resort Area	51
2122	SRSRT2		2nd Location Is In A Recreational/Resort Area	51
2123	SRSRT3		3rd Location Is In A Recreational/Resort Area	51
2123A	SRSRT4		4th Location Is In A Recreational/Resort Area	51
2123B	SRSRT5		5th Location Is In A Recreational/Resort Area	51
2123C	SRSRT6		6th Location Is In A Recreational/Resort Area	51
			Standard Codes For All Variables Are:	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
2124	STYPE1	85N-93N	Type Of Residence--1st Location	51
2125	STYPE2		Type Of Residence--2nd Location	51
2126	STYPE3		Type Of Residence--3rd Location	51
2126A	STYPE4		Type Of Residence--4th Location	51
2126B	STYPE5		Type Of Residence--5th Location	51
2126C	STYPE6		Type Of Residence--6th Location	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	
			8 Not Answered	
			9 Not Applicable	
2127	SYRND1	85N-93N	1st Location Is Suitable For Year Round Use	51
2128	SYRND2		2nd Location Is Suitable For Year Round Use	51
2129	SYRND3		3rd Location Is Suitable For Year Round Use	51
2129A	SYRND4		4th Location Is Suitable For Year Round Use	51
2129B	SYRND5		5th Location Is Suitable For Year Round Use	51
2129C	SYRND6		6th Location Is Suitable For Year Round Use	51
			Standard Codes For All Variables Are:	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
2130	S150M1	85N-93N	1st Location Within 150 Miles	51
2131	S150M2		2nd Location Within 150 Miles	51
2132	S150M3		3rd Location Within 150 Miles	51
2132A	S150M4		4th Location Within 150 Miles	51
2132B	S150M5		5th Location Within 150 Miles	51
2132C	S150M6		6th Location Within 150 Miles	51
			Standard Codes For All Variables Are:	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
2133	SSHRD1	85N-93N	Ownership Of 1st Location Is Shared Out Of Hhld	51
2134	SSHRD2		Ownership Of 2nd Location Is Shared Out Of Hhld	51
2135	SSHRD3		Ownership Of 3rd Location Is Shared Out Of Hhld	51
2135A	SSHRD4		Ownership Of 4th Location Is Shared Out Of Hhld	51
2135B	SSHRD5		Ownership Of 5th Location Is Shared Out Of Hhld	51
2135C	SSHRD6		Ownership Of 6th Location Is Shared Out Of Hhld	51
			Standard Codes For All Variables Are:	
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
2136	SPCT1	85N-93N	Share Of Ownership Of 1st Location In Percent	51
2137	SPCT2		Share Of Ownership Of 2nd Location In Percent	51
2138	SPCT3		Share Of Ownership Of 3rd Location In Percent	51
2138A	SPCT4		Share Of Ownership Of 4th Location In Percent	51
2138B	SPCT5		Share Of Ownership Of 5th Location In Percent	51
2138C	SPCT6		Share Of Ownership Of 6th Location 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	

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
2139	SWKS1	85N-93N	Share Of Ownership Of 1st Location in Weeks If Pct Not Given	51
2140	SWKS2		Share Of Ownership Of 2nd Location in Weeks If Pct Not Given	51
2141	SWKS3		Share Of Ownership Of 3rd Location in Weeks If Pct Not Given	51
2141A	SWKS4		Share Of Ownership Of 4th Location in Weeks If Pct Not Given	51
2141B	SWKS5		Share Of Ownership Of 5th Location in Weeks If Pct Not Given	51
2141C	SWKS6		Share Of Ownership Of 6th Location in Weeks If Pct Not Given	51
Standard Codes For All Variables Are:				
1-52 1 to 52 Weeks				
98 Not Answered				
99 Not Applicable				
2142	SVAL1	85N-93N	Value Of Share Of 1st Location on Market	51
2143	SVAL2		Value Of Share Of 2nd Location on Market	51
2144	SVAL3		Value Of Share Of 3rd Location on Market	51
2144A	SVAL4		Value Of Share Of 4th Location on Market	51
2144B	SVAL5		Value Of Share Of 5th Location on Market	51
2144C	SVAL6		Value Of Share Of 6th Location on Market	51
Standard Codes For All Variables Are:				
1-999996 \$1-999,996				
999998 Not Answered				
999999 Not Applicable				
2145	SMORT1	85N-93N	Mortgage Or Other Loan On 1st Location	52
2146	SMORT2		Mortgage Or Other Loan On 2nd Location	52
2147	SMORT3		Mortgage Or Other Loan On 3rd Location	52
2147A	SMORT4		Mortgage Or Other Loan On 4th Location	52
2147B	SMORT5		Mortgage Or Other Loan On 5th Location	52
2147C	SMORT6		Mortgage Or Other Loan On 6th Location	52
Standard Codes For All Variables Are:				
1 Yes				
2 No				
8 Not Answered				
9 Not Applicable				
2148	SNITE1	85N-93N	Number Of Nights Spent At 1st Location Last Yr	52
2149	SNITE2		Number Of Nights Spent At 2nd Location Last Yr	52
2150	SNITE3		Number Of Nights Spent At 3rd Location Last Yr	52
2150A	SNITE4		Number Of Nights Spent At 4th Location Last Yr	52
2150B	SNITE5		Number Of Nights Spent At 5th Location Last Yr	52
2150C	SNITE6		Number Of Nights Spent At 6th Location Last Yr	52
Standard Codes For All Variables Are:				
0 None				
1-365 1 to 365				
998 Not Answered				
999 Not Applicable				
2151	SXURE1	85N-93N	1st Location Owned Because Was Prev Usual Res	52
2152	SXURE2		2nd Location Owned Because Was Prev Usual Res	52
2153	SXURE3		3rd Location Owned Because Was Prev Usual Res	52
2153A	SXURE4		4th Location Owned Because Was Prev Usual Res	52
2153B	SXURE5		5th Location Owned Because Was Prev Usual Res	52
2153C	SXURE6		6th Location Owned Because Was Prev Usual Res	52
2154	SREC1		1st Location Owned Because Used For Recreation	52
2155	SREC2		2nd Location Owned Because Used For Recreation	52
2156	SREC3		3rd Location Owned Because Used For Recreation	52
2156A	SREC4		4th Location Owned Because Used For Recreation	52
2156B	SREC5		5th Location Owned Because Used For Recreation	52
2156C	SREC6		6th Location Owned Because Used For Recreation	52
2157	SINV1		1st Location Owned For Investment Purposes	52
2158	SINV2		2nd Location Owned For Investment Purposes	52
2159	SINV3		3rd Location Owned For Investment Purposes	52
2159A	SINV4		4th Location Owned For Investment Purposes	52
2159B	SINV5		5th Location Owned For Investment Purposes	52
2159C	SINV6		6th Location Owned For Investment Purposes	52
2160	SSEL1		1st Location Owned Because Not Able To Sell	52
2161	SSEL2		2nd Location Owned Because Not Able To Sell	52
2162	SSEL3		3rd Location Owned Because Not Able To Sell	52
2162A	SSEL4		4th Location Owned Because Not Able To Sell	52
2162B	SSEL5		5th Location Owned Because Not Able To Sell	52
2162C	SSEL6		6th Location Owned Because Not Able To Sell	52
2163	SINH1		1st Location Owned Because It Was Inherited	52
2164	SINH2		2nd Location Owned Because It Was Inherited	52
2165	SINH3		3rd Location Owned Because It Was Inherited	52
2165A	SINH4		4th Location Owned Because It Was Inherited	52
2165B	SINH5		5th Location Owned Because It Was Inherited	52
2165C	SINH6		6th Location Owned Because It Was Inherited	52
2166	SOTH1		1st Location Owned For Some Other Reason	52
2167	SOTH2		2nd Location Owned For Some Other Reason	52
2168	SOTH3		3rd Location Owned For Some Other Reason	52
2168A	SOTH4		4th Location Owned For Some Other Reason	52
2168B	SOTH5		5th Location Owned For Some Other Reason	52
2168C	SOTH6		6th Location 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 in the previous sections as appropriate, e.g., ownership costs or rental costs are in the Housing Costs Section, while mobile home descriptors are 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
WHOSSET-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

**MOBILE HOMES**

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 Not Answered 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 Warranteed	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

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
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 N00TH.				
2210	N00TH	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

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
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> 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	34
2235	MP25	80N 83N	Problems With Interior Odors or Fumes-Past 12 Mo. 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	<u>83N</u> 34
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
2261	RDMGDL	80N	Dealer Fixed Damage Caused By Transport Or Inst	83N 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 Htng 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.

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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	RP07M		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 RDMGNN-RP25NR if you need to distinguish between Not Answered and Not Applicable.

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REF# NAME SURVEYS DESCRIPTION PAGE ON QUESTIONNAIRE

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	RPO2SE		Someone Else Fixed Probs W/Joining of Dbl-Wide Sectns	35
2383	RPO3SE		Someone Else Fixed Leaks In Roof	35
2384	RPO4SE		Someone Else Fixed Other Roof Problems	35
2385	RPO5SE		Someone Else Fixed Warped Siding/Other Siding Probs	35
2386	RPO6SE		Someone Else Fixed Air Leaks In Walls	35
2387	RPO7SE		Someone Else Fixed Inoperative Doors Or Windows	35
2388	RPO8SE		Someone Else Fixed Other Outside Wall Problems	35
2389	RPO9SE		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 RDMGNR-RP25NR if you need to distinguish between Not Answered and Not Applicable.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>83N</u>
2406	RDMGNR	80N	Damage Caused By Transport Or Inst Not Repaired	32
2407	RUTLNR	83N	Problem With Utility Connections Not Repaired	32
2408	RLVLNR		Problem With Leveling Not Repaired	33
2409	ROTHNR		Other Installation Problems Not Repaired	33
2410	RPO1NR		Uneven Settling Not Fixed	35
2411	RPO2NR		Probs W/Joining of Double-Wide Sections Not Fixed	35
2412	RPO3NR		Leaks In Roof Not Fixed	35
2413	RPO4NR		Other Roof Problems Not Fixed	35
2414	RPO5NR		Warped Siding Or Other Siding Problems Not Fixed	35
2415	RPO6NR		Air Leaks In Walls Not Fixed	35
2416	RPO7NR		Inoperative Doors Or Windows Not Fixed	35
2417	RPO8NR		Other Outside Wall Problems Not Fixed	35
2418	RPO9NR		Buckling Of Inside Walls Not Fixed	35
2419	RP10NR		Other Inside Wall Problems Not Fixed	35
2420	RP11NR		Buckling Floors Not Fixed	35
2421	RP12NR		Holes In Floors Not Fixed	35
2422	RP13NR		Other Floor Problems Not Fixed	35
2423	RP14NR		Problems With Electrical Wiring Not Fixed	35
2424	RP15NR		Probs W/Elect Fixtures, Outlets, Etc. Not Fixed	35
2425	RP16NR		Large Appliance Brkdwns (Orig Equip Only) Not Fixed	35
2426	RP17NR		Other Electrical Problems Not Fixed	35
2427	RP18NR		Leaking Pipes Or Plumbing Fixtures Not Fixed	35
2428	RP19NR		Water Heater Problems Not Fixed	35
2429	RP20NR		Sewer Or Septic Tank Problems Not Fixed	35
2430	RP21NR		Other Plumbing Problems Not Fixed	35
2431	RP22NR		Htg Equip Brkdwns, 6 Or More Consec Hrs. Not Fixed	35
2432	RP23NR		Other Heating Problems Not Fixed	35
2433	RP24NR		Air Conditioning Problem Not Fixed	35
2434	RP25NR		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

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<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	<u>83N</u> 36
			1 Yes	
			2 No	
			3 Don't Know	
			8 Not Answered	
			9 Not Applicable	

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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.

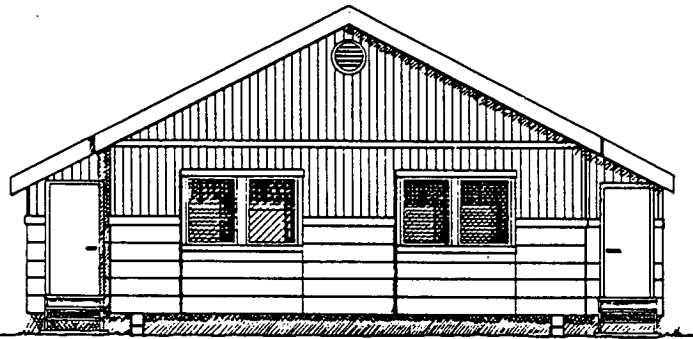
### Cost Considerations

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

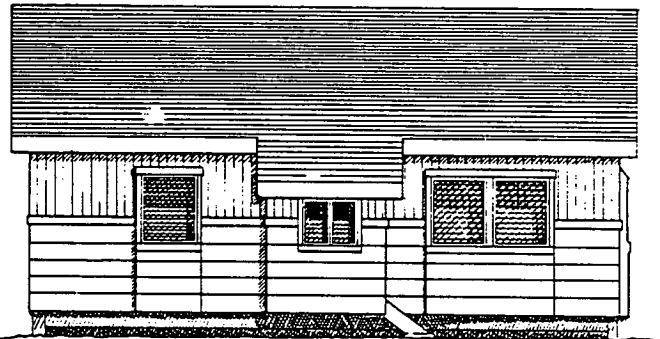
to make the house competitive in price and highly cost effective in terms of operations and maintenance. Superinsulated concepts are also applicable to other far-north regions in addition to Alaska.

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### Elevations



South Elevation



West Elevation

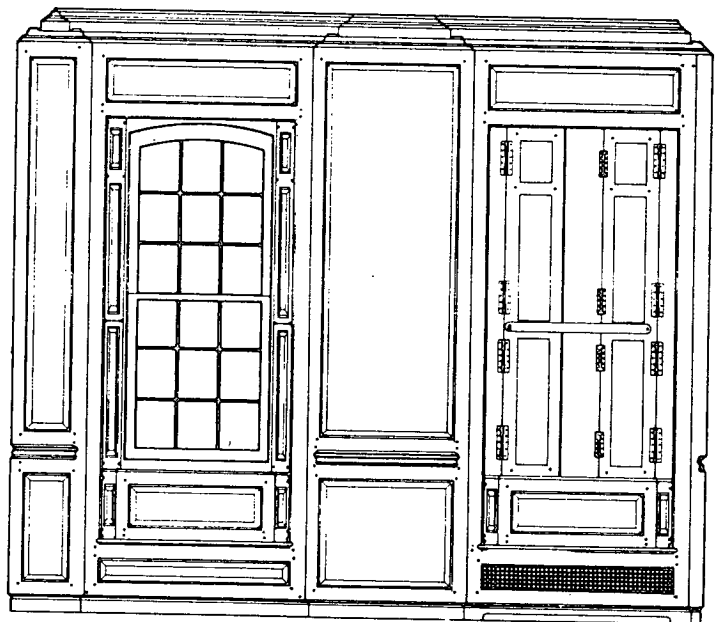
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This section contains items related to disabilities and handicaps. Detailed information is available on conditions affecting members of the household, availability of special features in the unit such as ramps, handrails, grab bars, etc., and respondent's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

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

### Interior Shutters

Interior shutters may be used with any type of construction, although the need for relatively thick walls to hide the open shutters means that they are most frequently used in masonry construction. Some interior shutters, rather than being hinged, are mounted in tracks and can be slid out of the way when not in use. They function in much the same manner as exterior shutters except that they can be closed without opening the window.



*Westover, Virginia (ca. 1730). The drawing shows one window with the shutters open, one with the shutters closed. Notice the elaborate panelling of the open shutters and the rather utilitarian appearance when closed.*

**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 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 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 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 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	82S
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	LEGS		24 Missing Legs, Feet Or Toes	38	
2458	ARMS		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					
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					
		<u>78N</u>	<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 HND 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 HND to distinguish between Not Answered and Not Applicable.					
House/Apartment Features To Aid Disabled Present (cont.)					
		<u>78N</u>	<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 HND 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	HND	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	38
2506	CLINE3		Line Number of Person 3 With Physical Conditions	38	38
2507	CLINE4		Line Number of Person 4 With Physical Conditions	38	38
2508	CLINE5		Line Number of Person 5 With Physical Conditions	38	38
2509	CLINE6		Line Number of Person 6 With Physical Conditions	38	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	82S
2511	ELINE2	79S-82S	Line Number Of Person 2 With Difficulties Or Conditions	38	36
2512	ELINE3		Line Number Of Person 3 With Difficulties Or Conditions	38	36
2513	ELINE4		Line Number Of Person 4 With Difficulties Or Conditions	38	36
2514	ELINE5		Line Number Of Person 5 With Difficulties Or Conditions	38	36
2515	ELINE6		Line Number Of Person 6 With Difficulties Or Conditions	38	36
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	82S
2517	DIFA2	79S-82S	1 Difficulty Going In/Out Of House/Bldg (Person 2)	38	36
2518	DIFA3		1 Difficulty Going In/Out Of House/Bldg (Person 3)	38	36
2519	DIFA4		1 Difficulty Going In/Out Of House/Bldg (Person 4)	38	37
2520	DIFA5		1 Difficulty Going In/Out Of House/Bldg (Person 5)	38	37
2521	DIFA6		1 Difficulty Going In/Out Of House/Bldg (Person 6)	38	37
2522	DIFB1		2 Difficulty Getting Around Inside (Person 1)	38	36
2523	DIFB2		2 Difficulty Getting Around Inside (Person 2)	38	36
2524	DIFB3		2 Difficulty Getting Around Inside (Person 3)	38	37
2525	DIFB4		2 Difficulty Getting Around Inside (Person 4)	38	37
2526	DIFB5		2 Difficulty Getting Around Inside (Person 5)	38	37
2527	DIFB6		2 Difficulty Getting Around Inside (Person 6)	38	37
2528	DIFC1		3 Difficulty With Stairs (Person 1)	38	36
2529	DIFC2		3 Difficulty With Stairs (Person 2)	38	36
2530	DIFC3		4 Difficulty With Stairs (Person 3)	38	37
2531	DIFC4		4 Difficulty With Stairs (Person 4)	38	37
2532	DIFC5		5 Difficulty With Stairs (Person 5)	38	37
2533	DIFC6		6 Difficulty With Stairs (Person 6)	38	37
The Codes Unique To Each Variable Are Shown Above:					
Standard Codes For All Variables Are:					
78N 79S-82S					
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)	38	36
2535	DIFD2	79S-82S	4 Difficulty Using Facilities/Equipment (Person 2)	38	36
2536	DIFD3		4 Difficulty Using Facilities/Equipment (Person 3)	38	37
2537	DIFD4		4 Difficulty Using Facilities/Equipment (Person 4)	38	37
2538	DIFD5		4 Difficulty Using Facilities/Equipment (Person 5)	38	37
2539	DIFD6		4 Difficulty Using Facilities/Equipment (Person 6)	38	37
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
				<u>78N</u>	<u>82S</u>
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

(Continued On Next Page)

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.

2576	HELP1	78N	Help Needed From Person Or Equipment By Person 1	78N	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

2582	HELPP1	79S-82S	Help Needed From Another Person By Person 1	82S	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

2594	ORAIL1	78N	Handrails Would Help Person 1 Go Out More Easily	78N	82S	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.  
++ = 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>
2606	URAIL1	78N	Handrails Help Person 1 Go Up/Down Stairs More Easily	40	36
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	37
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</u> <u>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.		
				<u>78N</u>	<u>82S</u>
2612	ERAIL1	78N	Extra Handrails Wld Aid In Use Of Fac by Person 1	40	36
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	37
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</u> <u>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.		
				<u>78N</u>	<u>82S</u>
2618	ORAMP1	78N	Ramp Would Help Person 1 Go Out More Easily	39	36
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	37
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	36
2625	IRAMP2		Ramp Help Person 2 Get Around Inside House	39	36
2626	IRAMP3		Ramp Help Person 3 Get Around Inside House	39	37
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</u> <u>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.		
				<u>78N</u>	<u>82S</u>
2630	URAMP1	78N	Ramp Help Person 1 Go Up Or Down Stairs More Easily	40	36
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	37
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</u> <u>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	
2636	OELEV1	78N	Elevator Would Help Person 1 Go Out More Easily	78N	82S
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	36
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	37
2643	IELEV2		Elevator Help Person 2 Get Around Inside House	39	36
2644	IELEV3		Elevator Help Person 3 Get Around Inside House	39	36
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:

78N 79S-82S

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 OND1-INO6 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	78N	82S
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	36
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:

78N 79S-82S

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 UNO1-UNO6 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	78N	82S
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	36
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	37
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	36
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:

78N 79S-82S

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 OND1-INO6 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	
				78N	82S
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:					
<u>78N 79S-82S</u>					
		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 ON01-IND6 to distinguish between Not Answered and Not Applicable in 79S-82S.					
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:					
<u>78N 79S-82S</u>					
		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 EN01-END6 to distinguish between Not Answered and Not Applicable in 79S-82S.					
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:					
<u>78N 79S-82S</u>					
		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 ON01-IND6 to distinguish between Not Answered and Not Applicable in 79S-82S.					
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:					
<u>78N 79S-82S</u>					
		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 EN01-END6 to distinguish between Not Answered and Not Applicable in 79S-82S.					



REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
2702	OPUSH1	78N	Push Bars Would Help Person 1 Go Out More Easily	78N	82S
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	36
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	36
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 DN01-IND6 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	78N	82S
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	36
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	78N	82S
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	36
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	78N	82S
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	36
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 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 4 Some Other Feature Would Help		
			5 5 No Feature Would Help		
			8 8 Not Answered		
			9 9 Not Applicable		

DISABILITIES (Continued)

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE	
2774	EN01	78N	No Feature Wld Aid In Use Of Facilities by Person 1	<u>78N</u>	<u>82S</u>
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</u>	<u>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	

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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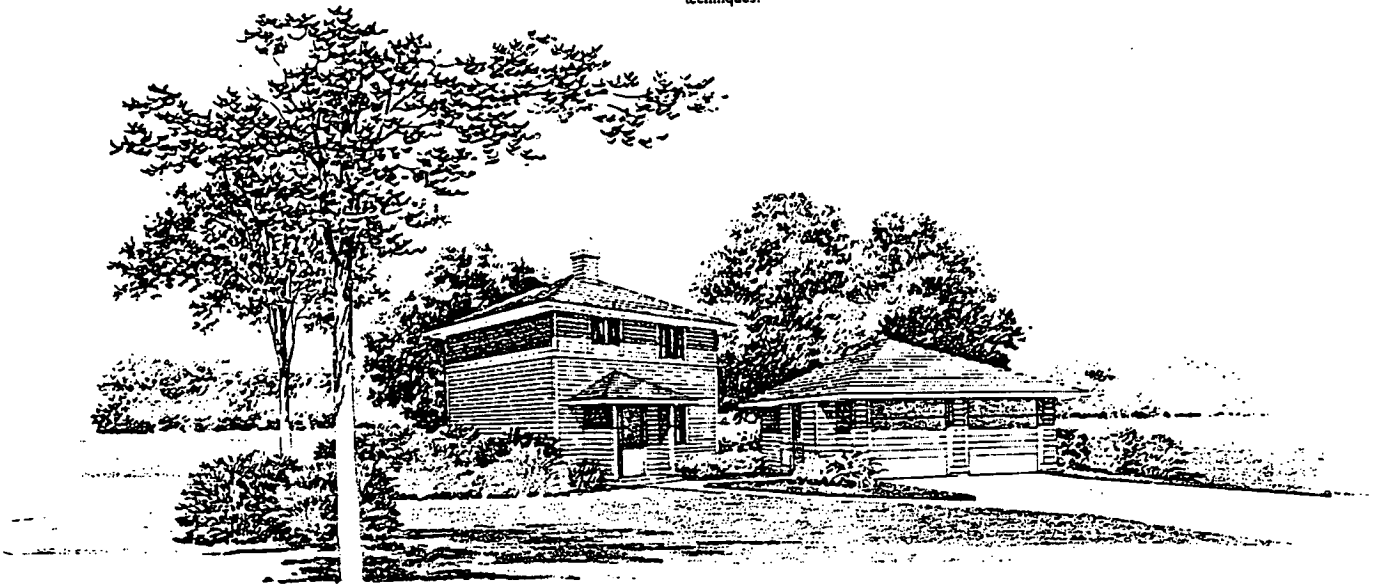
## Site Adaptive Two-Story

*Project Sponsor: CLB Associates, Inc.  
Architects/Planners  
Kirkland, Washington*

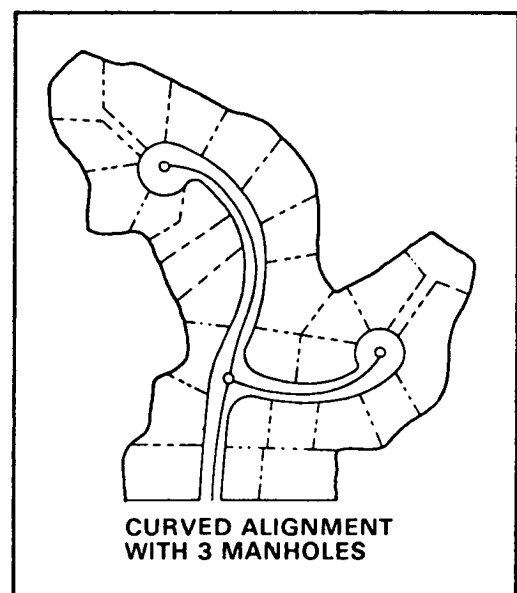
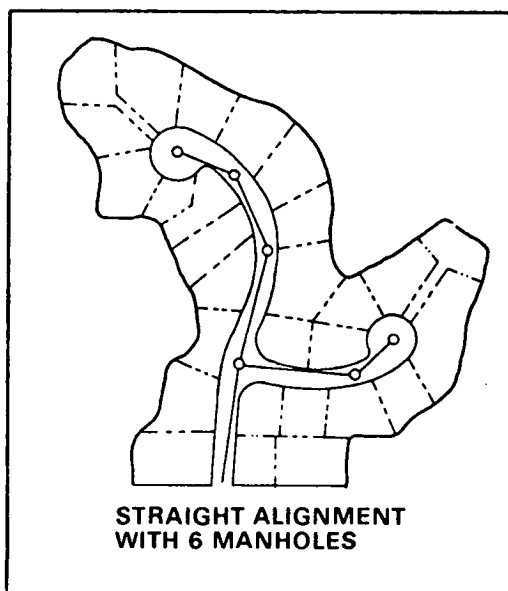
*Floor area: House 968 sq. ft.  
Garage 484 sq. ft.*

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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) 4977182. 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.



Curvilinear vs. straight sewer alignment

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
				<u>74N</u>
2780	KINDV1	74N	Type Of Vehicle Owned (Vehicle 1 of 4)	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.	
				<u>74N</u>
2784	MODYR1	74N	Model Year (Vehicle 1 of 4)	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	
				<u>74N</u>
2788	NMCYL1	74N	Number of Cylinders (Vehicle 1 of 4)	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	
				<u>74N</u>
2792	NEWV1	74N	Vehicle Purchased New Or Used (Vehicle 1 of 4)	30
2793	NEWV2		Vehicle Purchased New Or Used (Vehicle 2 of 4)	30
2794	NEWV3		Vehicle Purchased New Or Used (Vehicle 3 of 4)	31
2795	NEWV4		Vehicle Purchased New Or Used (Vehicle 4 of 4)	31
			1 New	
			2 Used	
			8 Not Answered	
			9 Not Applicable	
				<u>74N</u>
2796	BUYV1	74N	Purchased From Auto Dealer Or Private Party (Vehicle 1)	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	
				<u>74N</u>
2800	BUSV1	74N	Used For Any Businss Prpse Oth Than Work Commuting (V1)	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	
				<u>74N</u>
2804	DRVYR1	74N	Thousands Of Miles Driven During Past 12 Months (Veh 1)	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
2808	DRIVE1	74N	Thousands Of Miles Driven Since Purchase (Vehicle 1)	<u>74N</u> 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.	
2812	PRCBP1	74N	Percent Mileage For Business Purposes (Vehicle 1 of 4)	<u>74N</u> 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	
2816	VINYR1	74N	Purchased In The Past 12 Months (Vehicle 1 of 4)	<u>74N</u> 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	
2820	YRBUYV1	74N	Year Purchased (Vehicle 1 of 4)	<u>74N</u> 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	
2824	MBUYV1	74N	Month Of Purchase (Vehicle 1 of 4)	<u>74N</u> 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	
2828	COSTV1	74N	Cost After Deduction For Trade-In (Vehicle 1 of 4)	<u>74N</u> 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	
2832	TRADE1	74N	Amount Of Trade-In Allowance (Vehicle 1 of 4)	<u>74N</u> 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	
2836	OWNIN1	74N	Did You Own Vehicle 1 Traded-In 12 Months Ago	<u>74N</u> 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	

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>74N</u>
2840	OLDV1	74N	Type Of Vehicle Traded-In (Vehicle 1 of 4)	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	
				<u>74N</u>
2844	MODV1	74N	Model Year Of Vehicle Traded-In (Vehicle 1 of 4)	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	
				<u>74N</u>
2848	CYLV1	74N	Number Of Cylinders For Trade-In Vehicle 1	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	
				<u>74N</u>
2852	SOLDV	74N	Sold Or Otherwise Disposed Of A Vehicle Last 12 Mo	32
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
			Note: Does not include vehicles traded-in.	
				<u>74N</u>
2853	OWNYRV	74N	Did You Own This Vehicle 12 Months Ago	32
			1 Yes	
			2 No	
			8 Not Answered	
			9 Not Applicable	
			Note: Applies to most recently disposed of vehicle.	
				<u>74N</u>
2854	KINDV	74N	Type Of Vehicle Sold Or Otherwise Disposed Of	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.	
				<u>74N</u>
2855	MODYRV	74N	Model Yr Of Vehicle Most Rec'ly Sold Or Othwse Disposed	32
			00 Model Year Not Reported	
			00-75 1900-1975	
			98 Not Answered	
			99 Not Applicable	
				<u>74N</u>
2856	NUMCYL	74N	# Cyls In Most Recently Sold/Disposed Of Vehicle	32
			0 Number Not Reported	
			1 None (Rotary)	
			2 Four	
			3 Six	
			4 Eight	
			8 Not Answered	
			9 Not Applicable	
				<u>74N</u>
2857	BUYAIR	74N	Purchased Room Air Conditioner In Past 12 Months	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	

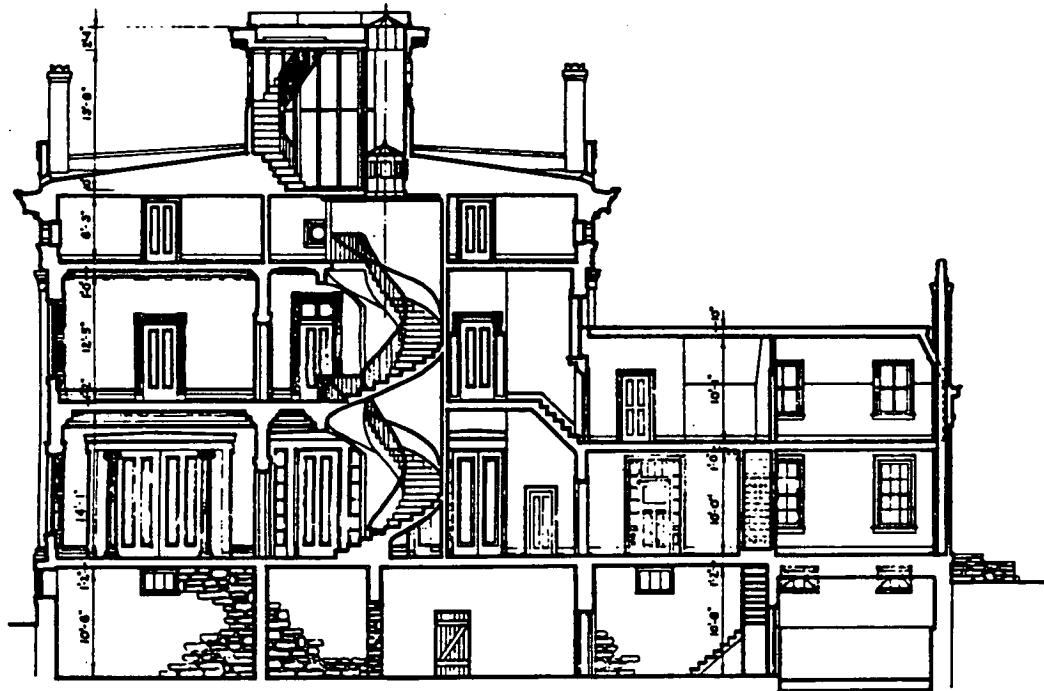
Notes: G = Variable is computer generated, and is not present on the questionnaire.  
 ++ = Variable is present on a supplemental page to the questionnaire.  
 CC = Variable is present on the control card for the unit.

REF#	NAME	SURVEYS	DESCRIPTION	PAGE ON QUESTIONNAIRE
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 Weight.

To account for the incomplete response rate, the confidence interval is about  $\pm .01xPxQx \left(\frac{100}{R} - 1\right)$  where R is the response rate, P is the percent in a category, and Q is (100-P). For example, for a trait that occurs in 20% of all units:  $\pm .01x20x80x \left(\frac{100}{92} - 1\right) = 1.4\%$ .

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 1-1B  
 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

	<u>All Units</u>	<u>Owners</u>	<u>Renters</u>	<u>Vacant</u>	<u>Survey</u>	<u>Variable</u>
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
	<u>All*</u>	<u>Yes</u>	<u>No</u>	<u>Don't Know</u>	<u>Survey</u>	<u>Variable</u>
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

	All*	Yes	No	Don't Know	Survey	Variable
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

	All	One	Two	Three	Four or More	Survey	Variable
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

	All	None	One	Two	Three or More	Survey	Variable
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

	All	Exclusive Use	Shared	No	Survey	Variable
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

	All*	Ex.	Good	Fair	Poor	Survey	Variable
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	PAYE
Gas		13	3	26	20	81N	PAYG
Other fuels		17	17	47	11	81N	PAYO
Water		3	10	2	NA	81N	PAYW
Garbage		3	19	1	NA	81N	PAYT

	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		Wood	Solar	Other	Survey	Variable
			Piped	Bottled				Coke						
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>Other</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

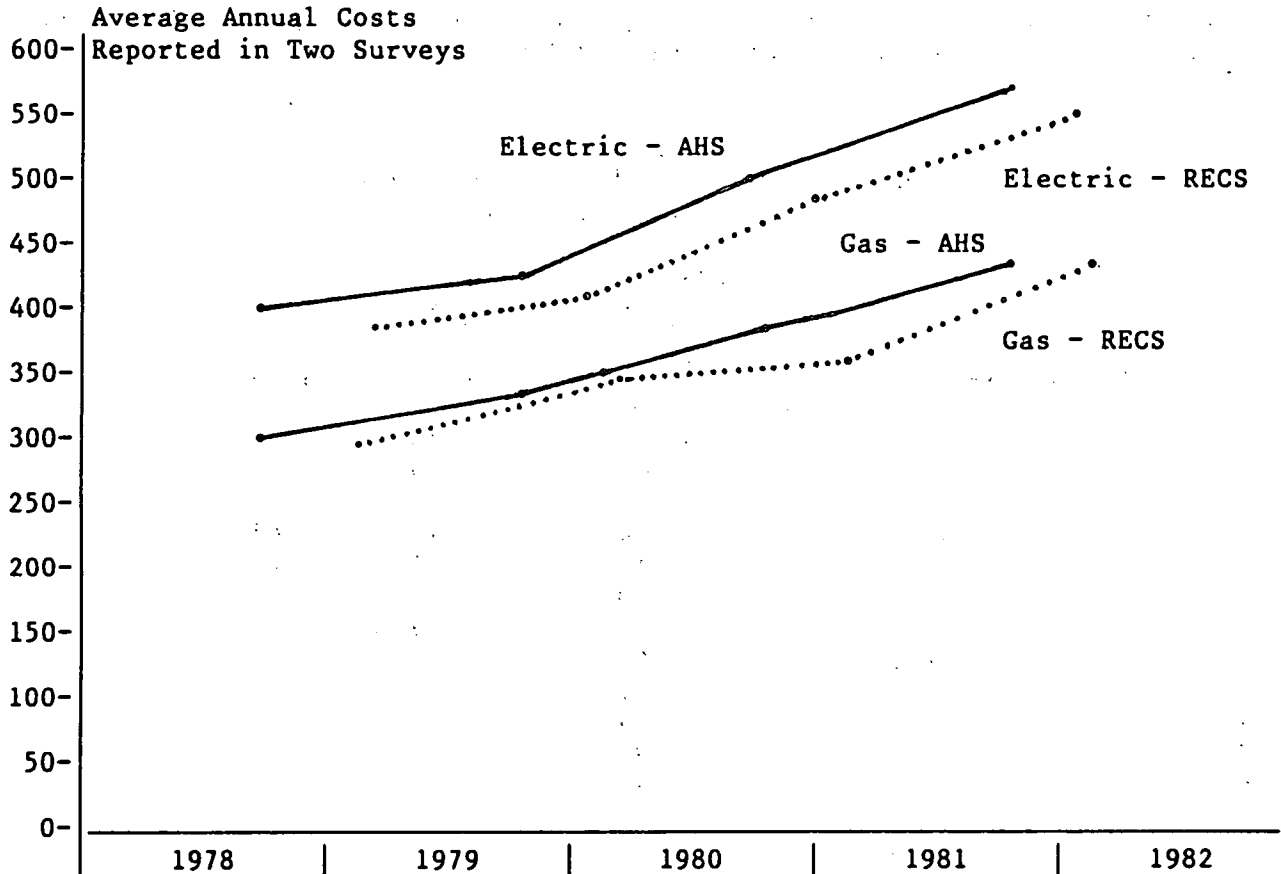
	<u>1 problem</u>	<u>2 problems</u>	<u>3+ problems</u>	<u>Survey</u>	<u>Variable</u>
Number of conditions	73	60	79	78N	NA
Number of difficulties	89	81	100	78N	NA

	<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

	Independent Estimate	CPS	AHS	AHS as % of Ind. Est.
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	17	189
SSI	9	8		
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	

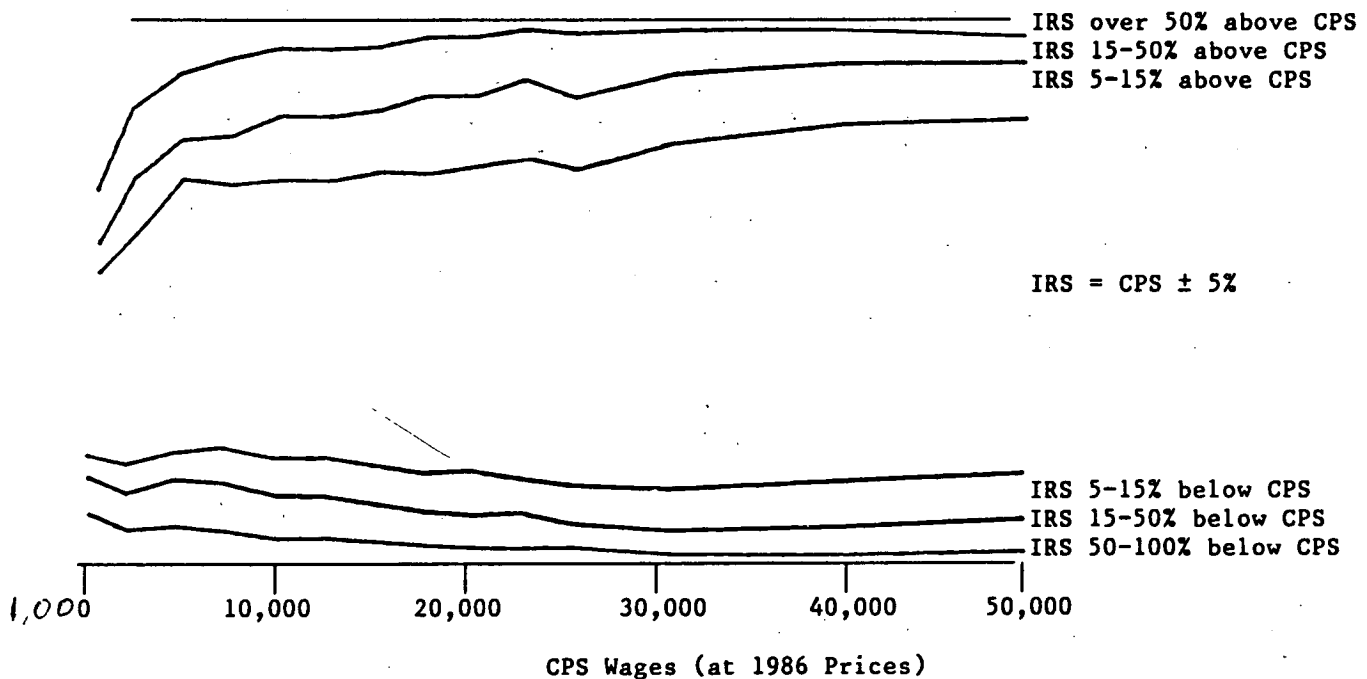
\*Excludes 5 categories, shown as NA. There are other differences such as the exclusion of children's income (0-14) from CPS and AHS, military households from CPS, and group quarters from AHS.

\*\*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:	Use this column for all other topics.
	Hispanics Mobile Homes Built since 1970 Incomplete kitchen or plumbing Zero bedrooms or bathrooms	

**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			
Spokane	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					

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 inter- vals.

## 2.2 Statistical Tests From Computer Programs

Many computer packages calculate statistical tests and confidence inter- vals 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:

$$P - R \pm \left[ 1.96 \times \left[ \frac{P(1-P) \times \text{design effect for P}}{\text{P sample size} - 1} + \frac{R(1-R) \times \text{design effect for R}}{\text{R sample size} - 1} \right]^{1/2} \right]$$

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.

$X'_{s0}$  is the estimate of characteristic X based on the AHS sample cases in PSU 0 of the sth NSR Random Cluster.

$X'_{s1}$  is the estimate of characteristic X based on the AHS sample cases in PSU 1 of the sth NSR Random Cluster.

$X'_{s2}$  is the estimate of the characteristic X based on the AHS sample cases in PSU 2 of the sth NSR Random Cluster.

$A_{s0}$  is the value of AWT associated with AHS sample cases in PSU 0 of the sth NSR Random Cluster.

$A_{s2}$  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 AHS DP 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:

$$\frac{1970 \text{ Census counts of housing units in all NSR areas}}{\sum_{i=1} \frac{1970 \text{ Census count of housing units in } i\text{th NSR PSU in sample}}{\text{Probability of selection of } i\text{th NSR PSU}}}$$

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 SMSA 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	1605
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	76	110	111	100	106			470	476	510	511	500	506
\$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	1076	1110	1111	1100	1106			1470	1476	1510	1511	1500	1506
\$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	3076	3110	3111	3100	3106			3470	3476	3510	3511	3500	3506
\$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:

$$\text{in 1979: } \frac{\frac{1980 \text{ Census count} \times 19 + 1970 \text{ Census count}}{20}}{\text{AHS estimate}}$$

$$\text{in 1980: } \frac{\frac{1980 \text{ Census count} \times 21 - 1970 \text{ Census count}}{20}}{\text{AHS estimate}}$$

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	
	Unit 2	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.

## CHAPTER 4: ALLOCATION VARIABLES,

As described under 'Missing Data' in the Introduction, some variables have Not Answered codes (8, 98, etc.) to show missing data, while other variables have data allocated from a similar home, so the data do not appear to be missing. When data in one variable are allocated, a code is put into another variable, the allocation variable, to show that the data really were missing in the original interview. For surveys from 1984 on, the Missing Data section in the Introduction explained how to use the record layout to find the allocation variables. For surveys up through 1983, this section shows the allocation variables, the codes in them, and how many cases in each file have each code.

Each allocation variable, like ALL03, is present on each household, to show when allocations are made in three other variables. For example, in 1981N, ALL03 is present on every household to show whether NUNITS, PHONE or MOVED was allocated in that household:

If ALL03 is

- 0 then none of the variables is allocated in this household
- 1 then only NUNITS is allocated
- 2 then only PHONE is allocated
- 3 then NUNITS and PHONE are both allocated
- 4 then only MOVED is allocated
- 5 then NUNITS and MOVED are allocated
- 6 then PHONE and MOVED are allocated
- 7 then all three variables are allocated
- 9 then none of the variables is allocated

Thus any of codes 1, 3, 5, or 7 means that the variable NUNITS is allocated. Similarly, 2, 3, 6, or 7 means that PHONE is allocated, and 4, 5, 6, or 7 means that MOVED is allocated.

The value entered *below* the allocation variable is a "combination code." These combination codes have the following meanings:

- 1 The allocation was made if the allocation variable is 1, 3, 5, or 7
- 2 The allocation was made if the allocation variable is 2, 3, 6, or 7
- 4 The allocation was made if the allocation variable is 4, 5, 6, or 7

Note that more than one allocation variable may be listed for one variable. For example, the variable ZRENT (Recoded Gross Rent) has one allocation variable for each component of gross rent which was subject to allocation (cost of electricity, cost of gas, contract rent, etc.). In our example for NUNITS, two allocation variables are listed for all SMSA survey years prior to 1984, reflecting the fact that a different allocation variable was used if the unit was occupied or vacant.

### Location and Field Length in the Computer Tapes

On the CTAP line, the first number shows the starting column of the variable on the Census Bureau tapes, and the second number shows the field length.

Similarly, the location on the Abt tapes is shown on the ATAP line. Again, the first number shows the starting column number and the second shows the field length. As described in the Introduction to the Codebook, Abt tapes have been reformatted: one layout is used for all national files; another layout is used for SMSA files. Therefore there are only two entries on the ATAP line: an entry in the 81N column applies to all national files; an entry in the 82S column applies to all SMSA files.

ALLO1 REF. 8001		78483	80280	78678	78870	77381	78703	88882	88718	87338	80484	87208	48028	88889	88232	108828	88713	124841	127888	131847	118208
0																					
1																					
2																					
3	88	128	388	238	888		248	127	1240	210	788			178	380	703	800	888	232	243	483
4	1		13	20	28																
5																					
6																					
7			2	2	8																
8																					
9																					
C1	BEDRMS	BEDRMS	BEDRMS	BEDRMS	BEDRMS	BEDRMS	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED
C2	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE
C4	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT	BUILT
CTAP	888 1	888 1	888 1	888 1	888 1	888 1	727 1	727 1	727 1	721 1	380 1	818 1	818 1	848 1	848 1	848 1	848 1	848 1	848 1	848 1	412 1
ATAP		1088 1																			
USED	28	38	82	47	72	73	34	33	88	1	4	8	1	4	8	7	4	3	11	2	
ALLO2 REF. 8002		78077	80022	79433	78438	77058	78241	88888	88888	88383	80781	88811	48774	88882	88172	108808	88848	123904	128720	130088	118818
0																					
1																					
2																					
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4	172	188	282	281	830	1670	1408	1331	1188	788											
5	2	4	8	1	13																
6																					
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8																					
9																					
C1	GRADE1	GRADE1	GRADE1	GRADE1	GRADE1	FLOORS	FLOORS	FLOORS	FLOORS	FLOORS	FLOORS	GRADE1	GRADE1	FLOORS	FLOORS	FLOORS	FLOORS	FLOORS	FLOORS	FLOORS	FLOORS
C2	HFUEL	HFUEL	HFUEL	HFUEL	HFUEL	NUNITS	NUNITS	NUNITS	NUNITS	NUNITS	NUNITS	HFUEL	HFUEL	NUNITS	NUNITS	NUNITS	NUNITS	NUNITS	NUNITS	NUNITS	NUNITS
C4	KITCHEN	KITCHEN	KITCHEN	KITCHEN	KITCHEN	CMHEAD	CMHEAD	CMHEAD	CMHEAD	CMHEAD	CMHEAD	KITCHEN	KITCHEN	CMHEAD	CMHEAD	CMHEAD	CMHEAD	CMHEAD	CMHEAD	CMHEAD	CMHEAD
CTAP	880 1	880 1	880 1	880 1	880 1	728 1	728 1	728 1	722 1	381 1	817 1	817 1	848 1	848 1	848 1	848 1	848 1	848 1	848 1	848 1	413 1
ATAP		1088 1																			
USED	28	38	87	48	77	83	31	33	47	1	4	8	1	4	8	7	4	3	11	2	
ALLO3 REF. 8003		78448	80318	79810	78873	77872	78203	88282	88978	88784	80880	87138	48877	88818	88288	108887	88881	124888	127182	131128	118448
0																					
1																					
2	88	88	82	88	83																
3																					
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C1	NUNITS	NUNITS	NUNITS	NUNITS	NUNITS	KITCHEN	KITCHEN	KITCHEN	KITCHEN	KITCHEN	KITCHEN	NUNITS	NUNITS	KITCHEN	KITCHEN	KITCHEN	KITCHEN	KITCHEN	KITCHEN	KITCHEN	KITCHEN
C2	PHONE	PHONE	PHONE	PHONE	PHONE	PHONE	BEDRMS	BEDRMS	BEDRMS	BEDRMS	BEDRMS	PHONE	PHONE	BEDRMS	BEDRMS	BEDRMS	BEDRMS	BEDRMS	BEDRMS	BEDRMS	BEDRMS
C4	MOVED	MOVED	MOVED	MOVED	MOVED	MOVED	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS	ROOMS
CTAP	881 1	881 1	881 1	881 1	881 1	881 1	729 1	728 1	728 1	723 1	382 1	818 1	818 1	880 1	880 1	880 1	880 1	880 1	880 1	880 1	414 1
ATAP		1088 1																			
USED	28	48	83	88	78	70	38	33	78	1	4	8	1	4	8	12	4	3	18	2	

PLS7 83N 81N 80N 78N 77N 76N 75N 74N 73N 83S 82S 81S 80S 79S 78S 77S 76S 75S 74S

	83N	81N	80N	79N	78N	77N	76N	75N	74N	73N	82S	82S	81S	80S	79S	78S	77S	76S	75S	74S
ALLOA REF. 8004																				
0	78364	80118	78381	78310	78825	78815	88801	87382	87355	51370	57195	48012	85970	88408	107085	100083	124972	127792	131703	119752
1	4	228	483	484	877	60	83	78	90		2	4	21	108	121	50	54	144	28	
2		2			2	8	2	12	23		1		4	4	8	4	4	8	4	
3	1		3		5	22	8	12	4	48			2	14	15	9	12	40	2	38
4	174	80	118	185	132	228	83	470	81	128	24	29	36	120	81	243	355	148	89	348
5			1	2	3			1					1					1	1	
6																				
7																				
8																				
9																				5
C1	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	BATHS	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB	PLUMB
C2	FLOORS	FLOORS	FLOORS	FLOORS	FLOORS	WIPE	WIPE	WIPE	WIPE	WIPE	FLOORS	FLOORS	FLOORS	WIPE	WIPE	WIPE	WIPE	WIPE	WIPE	WIPE
C4	TPARK	TPARK	TPARK	TPARK	TPARK	CFUEL	CFUEL	CFUEL	CFUEL	CFUEL	TPARK	TPARK	CFUEL	CFUEL	CFUEL	CFUEL	CFUEL	CFUEL	CFUEL	CFUEL
CTAP	582	1	582	1	582	1	730	1	730	1	724	1	383	1	819	1	818	1	851	1
ATAP		1087																		
USED	28	37	66	48	82	87	38	31	72		4	8	1	4	6	12	4	3	15	2
ALLOS REF. 8005																				
0	77881	80789	78832	77938	78347	78554	88583	87645	87248	51248	58885	45789	85908	88252	106840	98878	125028	127625	131582	118684
1	333	205	284	177	187	252	272	198	194	153	177	188	91	222	245	289	280	233	184	345
2	219	203	381	382	414					103	157	88								78
3	5	3	2		1	41	31	21	20	21	1		13	58	88	85	47	90	50	12
4	4	224	488	449	948	88	47	87	45			1	7	50	84	40	28	83	28	
5	1		8	4	8	33	38	23	49				18	82	82	18	28	73	2	
6		4	8		30					20	2	3								20
7			12	1	2	3	10	2	1	2			1							4
8																				
9																				
C1	AIR	AIR	AIR	AIR	AIR	HEQUIP	HEQUIP	HEQUIP	HEQUIP	AIR	AIR	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP
C2	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP	HEQUIP
C4	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS	BATHS
CTAP	593	1	593	1	593	1	731	1	731	1	726	1	384	1	820	1	820	1	852	1
ATAP		1088																		
USED	28	37	65	46	82	83	28	31	72		4	8	1	4	5	12	4	3	15	2
ALLOS REF. 8006																				
0	78042	80088	78582	78807	77588	78678	88853	87754	87223	51302	58841	45782	85895	88259	108928	100011	124844	127842	131628	118629
1	182	114	142	142	171					87	203	97								151
2	338	204	272	182	208					172	172	188								347
3						273	328	202	332				139	393	384	380	557	487	289	14
4																				
5																				
6																				
7																				
8																				
9																				
C1	MOVAC	MOVAC	MOVAC	MOVAC	MOVAC	NUMAIR	NUMAIR	NUMAIR	NUMAIR	CELLAR	MOVAC	MOVAC	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR
C2	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR	NUMAIR
C4	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS	AIRSYS
CTAP	594	1	594	1	594	1	732	1	732	1	726	1	385	1	821	1	821	1	853	1
ATAP		1088																		
USED	28	37	53	48	59	30	28	31	43		4	8	1	4	5	7	4	3	10	2
ALLOS REF. 8007																				
0	78410	88823	77854	78887	78314	74351	87358	85172	85124	48215	48552	38770	82808	84008	102870	82005	121088	122634	126381	114718
1	28	28	21	58	25	119	140	148	158	17	27	14	788	288	189	3918	188	185	1202	198
2	50	22	80	45	99	1888	1914	1819	1842	403	41	35	1888	4513	3480	3076	3349	4440	3170	1344
3	14	10	14	33	48	352	373	583	419	488	5229	4583	288	474	407	1030	870	508	702	282
4	1783	1853	1873	2841	1774	194	173	141	188	1483	1519	1848	188	341	324	321	285	320	372	3801
5	10	13	12	29	5															
6	81	48	71	55	123	8	12	3	7		48	47	1	10	10	10	10	8	12	
7	188	108	70	273	858	9	8	8	8		88	61	1	10	22	7	12	32	8	
8																				
9																				
C1	BUYE	BUYE	BUYE	BUYE	BUYE	MORT	MORT	MORT	MORT	PAYE	BUYE	BUYE	MORT	MORT	MORT	MORT	MORT	MORT	MORT	MORT
C2	MORT	MORT	MORT	MORT	MORT	VALUE	VALUE	VALUE	VALUE	RENT	MORT	MORT	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
C4	VALUE	VALUE	VALUE	VALUE	VALUE	CELLAR	CELLAR	CELLAR	CELLAR	VALUE	VALUE	VALUE	CELLAR	CELLAR	CELLAR	CELLAR	CELLAR	CELLAR	CELLAR	CELLAR
CTAP	595	1	595	1	595	1	733	1	733	1	727	1	386	1	822	1	822	1	854	1
ATAP		1070																		
USED	28	48	82	78	78	45	32	31	45		4	8	1	4	5	7	4	3	10	2
ALLOS REF. 8008																				
0	78687	88183	77114	78871	74848	75287	88300	88118	88940	48727	48842	38809	84344	88584	104083	87303	122215	124638	128834	118538
1	1248	1011	1388	1287	1100					1232	1288	1185	1100	107						
2						22	28	28	20	20	38	26	16	5						
3	58	38	39	53	42															
4	479	352	488	514	489															
5	888	892	888	833	811					472	875	809								
6						14	12	8	12				4	20	25	25	22	18	17	
7	223	184	128	403	843	324	337	848	421	388	8089	4848	184	334	341	377	835	428	448	
8																				
9																				
C1	AMTG	AMTG	AMTG	AMTG	AMTG	BUYE	BUYE	BUYE	BUYE	COSTG	AMTG	AMTG	BUYE	BUYE	BUYE	BUYE	BUYE	BUYE	BUYE	BUYE
C2	BUYG	BUYG	BUYG	BUYG	BUYG	AMTE	AMTE	AMTE	AMTE	PAYG	BUYG	BUYG	AMTE	AMTE	AMTE	AMTE	AMTE	AMTE	AMTE	AMTE
C4	AMTE	AMTE	AMTE	AMTE	AMTE	BUYE	BUYE	BUYE	BUYE	COSTE	AMTE	AMTE	BUYE	BUYE	BUYE	BUYE				

	83N	81N	80N	78N	78N	77N	76N	75N	74N	73N	83S	82S	81S	80S	78S	78S	77S	76S	75S	74S
ALL11 REF. 8011																				
0	78850	58183	76851	76120	75405	74838	67808	65541	65338	61085	54668	44382	83235	94970	102493	85895	121107	123396	127634	119488
1	978	843	1182	1028	885	168	134	126	179		1289	918	43	84	91	118	178	135	126	
2	3	4	8	8	3	552	837	531	488		7	2	725	1211	1358	817	1253	1869	1396	
3	782	477	888	850	857	184	170	221	178		135	109	329	883	838	1044	438	473	269	
4	519	489	480	483	387	1216	1329	1537	1392		782	430	1702	2704	2733	2387	2428	2684	2413	
5	137	104	88	88	83						1	187								17
6	108	184	263	289	132						86									
7	56	54	62	84	112					479	70	43								656
8						2					8631	4852	7139	11591	14148	14036	16793	21456		
9																				
C1	COSTE	COSTE	COSTE	COSTE	COSTE	PAYE	PAYE	PAYE	PAYE	OTHF	COSTE	COSTE	PAYE	PAYE	PAYE	PAYE	PAYE	PAYE	PAYE	PAYE
C2	PAYE	PAYE	PAYE	PAYE	PAYE	RENT	RENT	RENT	RENT	PAYF	PAYE	PAYE	RENT	RENT	RENT	RENT	RENT	RENT	RENT	RENT
C4	RENT	RENT	RENT	RENT	RENT	AMTT	AMTT	AMTT	AMTT	IFF	RENT	RENT	AMTT	AMTT	AMTT	AMTT	AMTT	AMTT	AMTT	AMTT
CTAP	598 1	598 1	598 1	598 1	598 1	737 1	737 1	737 1	731 1	390 1	628 1	628 1	858 1	858 1	858 1	858 1	858 1	858 1	858 1	422 1
ATAP	1074 1																			
USED	26	52	60	58	75	48	29	31	36	1	4	8	1	4	5	7	4	3	10	2
ALL12 REF. 8012																				
0	78504	58741	77594	76818	75857	75216	68114	66130	65797	60597	55854	44932	83603	96132	103542	86544	121610	124498	128188	118600
1	28	30	41	39	50	378	387	388	343	242	64	17	265	541	401	445	573	511	507	288
2	1027	80	1021	891	89	135	82	88	71	85	997	882	248	521	513	880	288	285	91	363
3	4	8	2	9	8	8	41	65	20	35	7	8	18	38	58	40	30	80	48	188
4	7	2	7	5	6	484	533	497	470	453	13	4	980	788	1598	889	1237	1328	1161	636
5	105	186	264	298	127	467	593	586	570	8	58	48	788	1377	998	1303	1338	1182	1648	23
6	28	30	21	17	40						10	37	8							23
7	842	527	953	826	885	190	228	260	284	17	184	147	122	244	207	280	324	317	288	23
8						2					8831	4852	7139	11591	14148	14036	16793	21456		
9																				
C1	PAYW	PAYW	PAYW	PAYW	PAYW	COSTG	COSTG	COSTG	COSTG	CARS	PAYW	PAYW	COSTG	PAYW	PAYW	COSTG	PAYW	PAYW	PAYW	COSTG
C2	COSTG	COSTG	COSTG	COSTG	COSTG	PAYG	PAYG	PAYG	PAYG	PAYG	PAYG	PAYG	COSTG	PAYG	PAYG	COSTG	PAYG	PAYG	PAYG	COSTG
C4	PAYG	PAYG	PAYG	PAYG	PAYG	COSTE	COSTE	COSTE	COSTE	PAYGSECON	COSTG	COSTG	PAYG	PAYG	PAYG	COSTE	COSTE	COSTE	COSTE	PAYG
CTAP	600 1	600 1	600 1	600 1	600 1	738 1	738 1	738 1	732 1	391 1	627 1	627 1	859 1	859 1	859 1	859 1	859 1	859 1	859 1	423 1
ATAP	1075 1																			
USED	26	43	57	57	70	31	29	31	36	1	4	8	1	4	5	7	4	3	10	2
ALL13 REF. 8013																				
0	78651	58792	77792	76821	76035	76100	69088	67078	66714	60385	56218	45238	84789	97876	100850	88208	123483	123088	130387	118187
1	288	231	338	309	287	39	79	85	89	17	158	93	40	84	56	74	153	3539	101	38
2	103	174	283	300	134	427	465	442	404	350	84	25	801	817	5732	873	1055	859	909	896
3	42	25	23	28	46	5	4	1	1	4	32	34	5	8	14	7	3	1	25	31
4	543	430	543	498	441	15	8	14	13	789	498	483	22	22	24	16	48	2	2	8
5	80	47	55	48	38	127	75	78	84	2	54	28	222	497	494	886	247	267	58	17
6						88	44	42	44	17			27	80	138	100	90	104	117	45
7	845	529	861	931	983	171	205	237	255	1	198	147	118	280	208	226	312	243	231	1
8											8831	4852	7139	11591	14148	14036	16793	21456		
9																				
C1	COSTD	COSTD	COSTD	COSTD	COSTD	PAYD	PAYD	PAYD	PAYD	PAYDXTENUR	COSTD	COSTD	PAYD	PAYD	PAYD	PAYD	PAYD	PAYD	PAYD	PAYD
C2	PAYD	PAYD	PAYD	PAYD	PAYD	COSTW	COSTW	COSTW	COSTW	KLOC	PAYD	PAYD	COSTW	PAYD	PAYD	PAYD	PAYD	PAYD	PAYD	PAYD
C4	COSTW	COSTW	COSTW	COSTW	COSTW	PAYW	PAYW	PAYW	PAYW	PAYWTRUCKS	COSTW	COSTW	PAYW	PAYW	PAYW	PAYW	PAYW	PAYW	PAYW	COSTW
CTAP	801 1	801 1	801 1	801 1	801 1	738 1	738 1	738 1	732 1	392 1	628 1	628 1	860 1	860 1	860 1	860 1	860 1	860 1	860 1	424 1
ATAP	1076 1																			
USED	26	42	59	58	70	33	29	31	36	1	4	8	1	4	5	7	4	3	10	2
ALL14 REF. 8014																				
0	71987	55178	73268	72018	71360	75928	68884	66855	66538	46757	51373	41421	84843	97542	105100	98101	123488	128428	130142	105478
1	5208	4243	5123	5418	5243	275	257	255	218		5268	4118	458	628	630	842	584	571	743	437
2	320	214	285	213	184	124	78	78	88		238	233	224	502	501	878	258	237	89	1845
3	44	37	58	40	37	80	52	82	45	1194	52	56	88	205	426	171	141	185	234	98
4	109	175	267	299	128	358	481	428	407	881	87	52	272	434	430	343	588	424	401	8538
5						18	25	24	26	1			40	26	47	18	63	47	24	602
6	780	501	882	869	918	188	204	238	252	712	42	25	108	218	178	218	304	288	214	1218
7	88	80	88	84	86						8831	4852	7139	11591	14148	14036	16793	21456		1922
8																				
9																				
C1	SAL1	SAL1	SAL1	SAL1	SAL1	COSTT	COSTT	COSTT	COSTT	ODIV	SAL1	SAL1	COSTT	COSTT	COSTT	COSTT	COSTT	COSTT	COSTT	COSTT
C2	COSTT	COSTT	COSTT	COSTT	COSTT	PAYT	PAYT	PAYT	PAYT	OSS	COSTT	COSTT	PAYT	PAYT	PAYT	PAYT	PAYT	PAYT	PAYT	PAYT
C4	PAYT	PAYT	PAYT	PAYT	PAYT	COSTD	COSTD	COSTD	COSTD	COSTDPROFIT	PAYT	PAYT	COSTD	COSTD	COSTD	COSTD	COSTD	COSTD	COSTD	COSTD
CTAP	802 1	802 1	802 1	802 1	802 1	740 1	740 1	740 1	734 1	393 1	628 1	628 1	861 1	861 1	861 1	861 1	861 1	861 1	861 1	425 1
ATAP	1077 1																			
USED	26	42	78	70	74	30	29	31	36	1	4	8	1	4	5	7	4	3	10	2
ALL15 REF. 8015																				
0	74373	57287	76081	74760	73778	78426	69460	67345	66973	49838	53234	42885	85897	99330	108908	98881	124878	127460	131181	116640
1	123	81	117	124	140						133	107								
2	701	583	732	741	767						855	854								
3	186	188	218	223	235						192	180								
4	2423	1758	2184	2285	2248						2217	1892								
5	33	20	36	21	34															

	83N	81N	80N	78N	76N	77N	78N	76N	74N	73N	82S	82S	81S	80S	79S	78S	77S	76S	75S	74S
<b>ALL18 REF. 6018</b>																				
0	75848	8067	77184	76156	75133	70095	82607	59983	59701	49638	53724	43357	57893	85582	91799	85143	11542	110648	114120	116592
1	138	86	123	139	162	672	693	1153	1498		183	89	822	1445	1698	1615	1513	1802	2217	
2	1867	1417	1710	1593	1572	667	727	1059	1073		2104	1726	784	1364	1407	1388	1371	1463	1763	
3	11	9	9	9	14	129	130	224	267		10	5	169	277	327	287	250	279	357	
4						3034	3246	3173	2783				3590	6300	6768	6520	6516	6490	8047	
5	130	87	71	111	103	243	270	313	308				313	547	577	511	590	725	751	17
6	852	752	879	923	980	1567	1538	1476	1305		261	147	1920	3013	3408	2634	2834	3787	3377	
7						541	567	575	600	1908	860	721	763	1144	1329	1073	985	1146	1195	3532
8						2														
9																				
C1	QINT	QINT	QINT	QINT	QINT	SAL3	SAL3	SAL3	SAL3	SAL3	QINT	QINT	SAL3	SAL3	SAL3	SAL3	SAL3	SAL3	SAL3	SAL3
C2	VDIV	VDIV	VDIV	VDIV	VDIV	SAL2	SAL2	SAL2	SAL2	SAL2	VDIV	VDIV	SAL2	SAL2	SAL2	SAL2	SAL2	SAL2	SAL2	SAL2
C4	ODIV	ODIV	ODIV	ODIV	ODIV	SAL1	SAL1	SAL1	SAL1	SAL1	ODIV	ODIV	SAL1	SAL1	SAL1	SAL1	SAL1	SAL1	SAL1	SAL1
CTAP	806 1	806 1	806 1	806 1	806 1	744 1	744 1	744 1	738 1	397 1	633 1	633 1	665 1	665 1	665 1	665 1	665 1	665 1	665 1	429 1
ATAP	1081 1										865 1									
USED	26	39	74	67	71	54	37	35	38	1	4	8	1	4		9	8	5	11	2
<b>ALL19 REF. 6019</b>																				
0	68243	53333	71285	70558	69630	76231	69253	66817	66175	46105	48485	38970	65085	98125	105453	98758	123909	126533	129737	101191
1	319	249	355	308	306	13	16	43	51	1507	276	241	12	30	38	49	35	33	63	564
2						58	61	143	151	282				59	107	129	116	119	92	180
3	118	62	94	77	82	5	7	14	20	55	86	53	5	10	19	17	14	13	21	167
4	7388	5559	6791	6589	6442	481	497	705	858	2066	7005	5893	626	1031	1214	1038	984	1121	1406	1698
5	588	438	558	471	479	8	4	10	6	184	435	354	4	15	18	18	18	8	6	107
6						110	100	187	220	1014			178	228	328	288	237	265	299	1528
7	886	749	895	850	1005	45	41	57	74	331	835	724	55	105	116	106	84	76	105	3228
8						2					6831	4852	7139	11591	14148	14036	16793	21456		
9																				
C1	VRENT	VRENT	VRENT	VRENT	VRENT	SAL6	SAL6	SAL6	SAL6	SAL6	VRENT	VRENT	SAL6	SAL6	SAL6	SAL6	SAL6	SAL6	SAL6	SAL6
C2	ORENT	ORENT	ORENT	ORENT	ORENT	SAL5	SAL5	SAL5	SAL5	SAL5	ORENT	ORENT	SAL5	SAL5	SAL5	SAL5	SAL5	SAL5	SAL5	SAL5
C4	VINT	VINT	VINT	VINT	VINT	SAL4	SAL4	SAL4	SAL4	SAL4	VINT	VINT	SAL4	SAL4	SAL4	SAL4	SAL4	SAL4	SAL4	SAL4
CTAP	807 1	807 1	807 1	807 1	807 1	745 1	745 1	745 1	739 1	398 1	634 1	634 1	665 1	665 1	665 1	665 1	665 1	665 1	665 1	430 1
ATAP	1082 1										866 1									
USED	26	39	74	67	71	54	37	35	38	1	4	8	1	4		9	8	5	11	2
<b>ALL20 REF. 6020</b>																				
0	77240	59327	78773	77883	76614	73924	66898	64671	64750	51472	55934	45062	63374	95504	102343	95737	120757	122169	125723	112824
1	98	61	59	58	55	598	508	595	452		77	44	461	956	1168	1075	854	1151	1223	118
2	242	186	211	192	190	817	877	717	802		208	187	132	194	189	139	245	327	227	1766
3	7	2	2	2	5	28	29	28	30		3	3	6	16	12	18	12	13	28	
4						1258	1305	1345	1244	74			1346	2175	2496	2405	2578	3194	3072	1850
5						75	74	75	74				75	114	179	182	128	171	179	140
6	113	86	75	82	82	184	208	219	182		93	39	198	226	228	228	374	261	14	3572
7	843	734	856	934	888	266	277	308	231		806	710	442	447	839	805	589	740	1124	
8						2					6831	4852	7139	11591	14148	14036	16793	21456		
9																				
C1	QUNEMP	QUNEMP	QUNEMP	QUNEMP	QUNEMP	OSS	OSS	OSS	OSS	OSS	QUNEMP	QUNEMP	OSS	OSS	OSS	OSS	OSS	OSS	OSS	OSS
C2	VWELF	VWELF	VWELF	VWELF	VWELF	PFARM	PFARM	PFARM	PFARM	PFARM	VWELF	VWELF	PFARM	PFARM	PFARM	PFARM	PFARM	PFARM	PFARM	PFARM
C4	OWELF	OWELF	OWELF	OWELF	OWELF	PBUS	PBUS	PBUS	PBUS	MDVAC	OWELF	OWELF	PBUS	PBUS	PBUS	PBUS	PBUS	PBUS	PBUS	PBUS
CTAP	808 1	808 1	808 1	808 1	808 1	748 1	748 1	748 1	740 1	399 1	635 1	635 1	667 1	667 1	667 1	667 1	667 1	667 1	667 1	431 1
ATAP	1083 1										867 1									
USED	26	39	74	70	74	54	37	35	45	1	4	8	1	4		9	8	5	11	8
<b>ALL21 REF. 6021</b>																				
0	76846	59201	78548	77511	76486	72598	65558	63519	63780		55675	44929	61043	91271	98380	81606	116308	117038	120570	
1	107	83	95	99	91	1350	1390	1409	1386		84	64	1815	2687	3421	3126	3659	4090	4117	
2	124	84	88	81	77	197	181	197	173		89	23	159	338	338	321	350	388	415	
3	584	244	368	292	278	1510	1574	1439	1197		448	281	1562	3148	2485	2689	2705	3595	3268	
4	18	10	15	19	15	334	372	348	272		11	12	422	825	882	888	722	845	793	
5	84	786	886	948	1017	980	974	1064	797		824	736	1033	1582	2030	1931	1659	2185	2663	
6						2					6831	4852	7139	11591	14148	14036	16793	21456		
7																				
8																				
9																				
C1	VWKCMP	VWKCMP	VWKCMP	VWKCMP	VWKCMP	VDIV	VDIV	VDIV	VDIV	VDIV	VWKCMP	VWKCMP	VDIV	VDIV	VDIV	VDIV	VDIV	VDIV	VDIV	VDIV
C2	OWKCMP	OWKCMP	OWKCMP	OWKCMP	OWKCMP	ODIV	ODIV	ODIV	ODIV	ODIV	OWKCMP	OWKCMP	ODIV	ODIV	ODIV	ODIV	ODIV	ODIV	ODIV	ODIV
C4	VUNEMP	VUNEMP	VUNEMP	VUNEMP	VUNEMP	VSS	VSS	VSS	VSS	VSS	VUNEMP	VUNEMP	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS
CTAP	808 1	809 1	809 1	809 1	809 1	747 1	747 1	747 1	741 1		636 1	636 1	668 1	668 1	668 1	668 1	668 1	668 1	668 1	668 1
ATAP	1084 1										868 1									
USED	26	38	74	67	71	54	37	35	38		4	8	1	4		9	8	5	11	8
<b>ALL22 REF. 6022</b>																				
0	77043	59247	78621	77818	76482	74662	61303	59858	60394		55909	45002	56390	83889	85523	83803	105874	106114	110697	
1	159	78	78	92	88	128	110	88	92		79	33	60	192	170	144	209	198	253	
2	310	244	317	287	274	7121	7380	8904	8008		240	238	8275	13540	18080	14271	17085	19059	17385	
3						31	28	33	32		1	4	45	78	87	57	108	88	100	
4	98	72	89	75	103	181	192	171	195		82	32								







	83N	81N	80N	79N	78N	77N	76N	75N	74N	73N	83S	82S	81S	80S	79S	78S	77S	76S	75S	74S	
<b>ALLO7U REF. 8044</b>																					
0	78533	80401	79957	78912	77935	76941					3678	2510	61053	82712	99427	82832	125350	128108			
1	1	2	2	3		2						1	1		5	3	5	5	1		
2	1		1	4	1							1	2	5	4	5	13	6			
3				1										1							
4	7	2	6	9	7	6						2	6	20	1	12	1	31	21		
5				1											9	1			1		
6		1												1	4			2	2		
7	1			2										4	1						
8																					
9																					
C1	YDIV	YDIV	YDIV	YDIV	YDIV	YDIV					80372	48174	12089	18515	22005	21566	16793	21456			
C2	YRENT	YRENT	YRENT	YRENT	YRENT	YRENT					YDIV	YDIV	YDIV	YDIV	YDIV	YDIV	YDIV	YDIV			
C3	YSS	YSS	YSS	YSS	YSS	YSS					YSS	YSS	YSS	YSS	YSS	YSS	YSS	YSS			
C4	YFRM	YFRM	YFRM	YFRM	YFRM	YFRM					YFRM	YFRM	YFRM	YFRM	YFRM	YFRM	YFRM	YFRM			
CTAP	621	1 821	1 821	1 821	1 821	1 821					847	1 847	1 879	1 879	1 879	1 904	1 904	1 880			
ATAP		1110										801									
USED	26	39	60	58	58	36					4	8	1	4		8	8	6			
<b>ALLO8U REF. 8045</b>																					
0	78533	80399	79987	78917	77941	76944					3674	2513	61060	82713	99412	82819	125360	128102			
1	2	1	1	2										3	3	3	8	8			
2				2										2							
3																					
4	6	6	6	6	3	5						7	6	18	10	41	19	42	28		
5																					
6																					
7	2			3										2	4	2					
8																					
9																					
C1	YWELF	YWELF	YWELF	YWELF	YWELF	YWELF					80372	48174	12089	18515	22005	21566	16793	21456			
C2	YRENT	YRENT	YRENT	YRENT	YRENT	YRENT					YWELF	YWELF	YWELF	YWELF	YWELF	YWELF	YWELF	YWELF			
C3	YINT	YINT	YINT	YINT	YINT	YINT					YRENT	YRENT	YRENT	YRENT	YRENT	YRENT	YRENT	YRENT			
C4	YFRM	YFRM	YFRM	YFRM	YFRM	YFRM					YINT	YINT	YINT	YINT	YINT	YINT	YINT	YINT			
CTAP	622	1 822	1 822	1 822	1 822	1 860					848	1 848	1 880	1 880	1 880	1 905	1 905	1 881			
ATAP		1111										802									
USED	26	39	60	58	58	36					4	8	1	4		8	8	6			
<b>ALLO9U REF. 8046</b>																					
0	78533	80406	79974	78928	77944	76949					3680	2518	61078	82723	99450	82838	125382	128135			
1		2												1	1	1	1	1			
2														1	1	1	1	1			
3														2	4	1	7	3			
4	2		2	2																	
5																					
6																					
7	2			3										2	4	2					
8																					
9																					
C1	YGOVPH	YGOVPH	YGOVPH	YGOVPH	YGOVPH	YGOVPH					80372	48174	12089	18515	22005	21566	16793	21456			
C2	YWKCMF	YWKCMF	YWKCMF	YWKCMF	YWKCMF	YWKCMF					YGOVPH	YGOVPH	YGOVPH	YGOVPH	YGOVPH	YGOVPH	YGOVPH	YGOVPH			
C3	YUNEMP	YUNEMP	YUNEMP	YUNEMP	YUNEMP	YUNEMP					YWKCMF	YWKCMF	YWKCMF	YWKCMF	YWKCMF	YWKCMF	YWKCMF	YWKCMF			
C4	YFRM	YFRM	YFRM	YFRM	YFRM	YFRM					YUNEMP	YUNEMP	YUNEMP	YUNEMP	YUNEMP	YUNEMP	YUNEMP	YUNEMP			
CTAP	623	1 823	1 823	1 823	1 823	1 861					848	1 848	1 881	1 881	1 881	1 906	1 906	1 882			
ATAP		1112										803									
USED	26	39	60	58	58	36					4	8	1	4		8	8	6			
<b>ALL10U REF. 8047</b>																					
0	78540	80408	79978	78928	77944	76947					3681	2520	61078	82724	99454	82837	125396	128137			
1														1	1	1	1	1			
2														1	1	1	1	1			
3														2	4	1	7	3			
4	1																				
5																					
6																					
7	2			3										2	4	2					
8																					
9																					
C1	YALIM	YALIM	YALIM	YALIM	YALIM	YALIM					80372	48174	12089	18515	22005	21566	16793	21456			
C2	YPRVPH	YPRVPH	YPRVPH	YPRVPH	YPRVPH	YPRVPH					YALIM	YALIM	YALIM	YALIM	YALIM	YALIM	YALIM	YALIM			
C3	YVET	YVET	YVET	YVET	YVET	YVET					YPRVPH	YPRVPH	YPRVPH	YPRVPH	YPRVPH	YPRVPH	YPRVPH	YPRVPH			
C4	YFRM	YFRM	YFRM	YFRM	YFRM	YFRM					YVET	YVET	YVET	YVET	YVET	YVET	YVET	YVET			
CTAP	624	1 824	1 824	1 824	1 824	1 862					850	1 850	1 882	1 882	1 882	1 907	1 907	1 883			
ATAP		1113										804									
USED	26	39	60	58	58	36					4	8	1	4		8	8	6			
<b>ALL11U REF. 8048</b>																					
0	78525	80390	79957	78914	77930	76938					3655	2485	61035	82704	99378	82784	125344	128092			
1	13	15	18	10	12	8								18	64	37	43	36			
2	2	1	1	2	1	1								2	3	1	4	1			
3																					
4	1	1	2	2	1	1								3	10	10	6	10			
5																					
6																					
7	2			3										2	3	3	1	1			
8																					
9																					
C1	YIWS	YIWS	YIWS	YIWS	YIWS	YIWS					80372	48174	12089	18515	22005	21566	16793	21456			
C2	YOTHER	YOTHER	YOTHER	YOTHER	YOTHER	YOTHER					YIWS	YIWS	YIWS	YIWS	YIWS	YIWS	YIWS	YIWS			
C3	YOUTPR	YOUTPR	YOUTPR	YOUTPR	YOUTPR	YOUTPR					YOTHER	YOTHER	YOTHER	YOTHER	YOTHER	YOTHER	YOTHER	YOTHER			
C4	YFRM	YFRM	YFRM	YFRM	YFRM	YFRM					YOUTPR	YOUTPR	YOUTPR	YOUTPR	YOUTPR	YOUTPR	YOUTPR	YOUTPR			
CTAP	625	1 825	1 825	1 825	1 825	1 863					851	1 851	1 883	1 883	1 883						

**ALL15U REF. 8052**  
 0 78543 80408 78976 78930 77944 76948  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 C1 YPRVFN YPRVFN YPRVFN YPRVFN YPRVFN YPRVFN  
 C2 YVET YVET YVET YVET YVET YVET  
 C4 YGOVFN YGOVFN YGOVFN YGOVFN YGOVFN YGOVFN  
 CTAP 629 1 829 1 829 1 829 1 829 1  
 ATAP 1118 1  
 USED 26 39 80 58 58 36

**ALL16U REF. 8053**  
 0 78541 80406 78975 78930 77943 76948  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 C1 YOTHER YOTHER YOTHER YOTHER YOTHER YOTHER  
 C2 YOUTPR YOUTPR YOUTPR YOUTPR YOUTPR YOUTPR  
 C4 YALIM YALIM YALIM YALIM YALIM YALIM  
 CTAP 630 1 830 1 830 1 830 1 888 1  
 ATAP 1119 1  
 USED 26 39 80 58 58 36

**ALL17U REF. 8054**  
 0 78541 80402 78973 78928 77942 76948  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 C1 YFRM YFRM YFRM YFRM YFRM YFRM  
 C2 YSLF YSLF YSLF YSLF YSLF YSLF  
 C4 YIWS YIWS YIWS YIWS YIWS YIWS  
 CTAP 631 1 831 1 831 1 888 1  
 ATAP 1120 1  
 USED 26 39 80 58 58 36

**ALL18U REF. 8055**  
 0 78542 80407 78975 78930 77944 76948  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 C1 YINT YINT YINT YINT YINT YINT  
 C2 YDIV YDIV YDIV YDIV YDIV YDIV  
 C4 YSS YSS YSS YSS YSS YSS  
 CTAP 632 1 832 1 832 1 890 1  
 ATAP 1121 1  
 USED 26 39 80 58 58 36

**ALL19U REF. 8056**  
 0 78543 80408 78976 78931 77944 76949  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 C1 YUNEMP YUNEMP YUNEMP YUNEMP YUNEMP YUNEMP  
 C2 YWELF YWELF YWELF YWELF YWELF YWELF  
 C4 YRENT YRENT YRENT YRENT YRENT YRENT  
 CTAP 633 1 833 1 833 1 891 1  
 ATAP 1122 1  
 USED 26 39 80 58 58 36

**ALL20U REF. 8057**  
 0 78543 80408 78976 78931 77944 76949  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 C1 YVET YVET YVET YVET YVET YVET  
 C2 YGOVFN YGOVFN YGOVFN YGOVFN YGOVFN YGOVFN  
 C4 YWKCMP YWKCMP YWKCMP YWKCMP YWKCMP YWKCMP  
 CTAP 634 1 834 1 834 1 892 1  
 ATAP 1123 1  
 USED 26 39 80 58 58 36

**ALL21U REF. 8058**  
 0 78543 80407 78976 78931 77944 76949  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 C1 YOUTPR YOUTPR YOUTPR YOUTPR YOUTPR YOUTPR  
 C2 YALIM YALIM YALIM YALIM YALIM YALIM  
 C4 YPRVFN YPRVFN YPRVFN YPRVFN YPRVFN YPRVFN  
 CTAP 635 1 835 1 835 1 893 1  
 ATAP 1124 1  
 USED 26 39 80 58 58 36

**ALL22U REF. 8059**  
 0 78543 80407 78976 78931 77944 76949  
 1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 C1  
 C2  
 C4 YOTHER YOTHER YOTHER YOTHER YOTHER YOTHER  
 CTAP 636 1 836 1 836 1 894 1  
 ATAP 1125 1  
 USED 26 39 80 58 58 42

**ALLW11 REF. 8060**  
 0 60172 78581 31820  
 1 174 258 119  
 2 3  
 3 48 124 53  
 4 1  
 5 10 13 3  
 6 18897 5  
 7 18897  
 8 18897  
 9 18897  
 C1 PASS1 PASS1  
 C2 TRAN1 TRAN1  
 C4 VEMCL1 VEMCL1  
 CTAP 1072 1 1392 1  
 USED 8 883 1

ALLW12 REF. 8081  
 0 80272 78778  
 1 90 130  
 4 42 85  
 5 2  
 7 2 2  
 8  
 C1 PASS2 PASS2  
 C2 TRAN2 TRAN2  
 C4 VEHCL2 VEHCL2  
 CTAP 1120 1 1434 1  
 USED 6  
 14478  
 64  
 32  
 1  
 7  
 38115  
 PASS2  
 TRAN2  
 VEHCL2  
 1035 1

ALLW13 REF. 8082  
 0 80373 78848  
 1 24 19  
 4 7 11  
 7 4  
 8  
 C1 PASS3 PASS3  
 C2 TRAN3 TRAN3  
 C4 VEHCL3 VEHCL3  
 CTAP 1188 1 1476 1  
 USED 6  
 2884  
 13  
 7  
 47813  
 PASS3  
 TRAN3  
 VEHCL3  
 1077 1

ALLW14 REF. 8083  
 0 80402 78884  
 1 2 7  
 4 2 4  
 7 2 1  
 8  
 C1 PASS4 PASS4  
 C2 TRAN4 TRAN4  
 C4 VEHCL4 VEHCL4  
 CTAP 1216 1 1516 1  
 USED 6  
 734  
 1  
 2  
 48960  
 PASS4  
 TRAN4  
 VEHCL4  
 1119 1

ALLW15 REF. 8084  
 0 80407 78873  
 1 1  
 4 2  
 7 1  
 8  
 C1 PASS5 PASS5  
 C2 TRAN5 TRAN5  
 C4 VEHCL5 VEHCL5  
 CTAP 1264 1 1580 1  
 USED 6  
 165  
 1  
 1  
 50830  
 PASS5  
 TRAN5  
 VEHCL5  
 1181 1

ALLW16 REF. 8085  
 0 80407 78874  
 1 1 2  
 9  
 C1 PASS6 PASS6  
 C2 TRAN6 TRAN6  
 C4 VEHCL6 VEHCL6  
 CTAP 1212 1 1802 1  
 USED 6  
 34  
 50883  
 PASS6  
 TRAN6  
 VEHCL6  
 1203 1

ALLW17 REF. 8086  
 0 80408 78875  
 1 1  
 9  
 C1 PASS7 PASS7  
 C2 TRAN7 TRAN7  
 C4 VEHCL7 VEHCL7  
 CTAP 1380 1 1844 1  
 USED 6  
 5  
 50882  
 PASS7  
 TRAN7  
 VEHCL7  
 1245 1

ALLW18 REF. 8087  
 0 80408 78875  
 1 1  
 9  
 C1 PASS8 PASS8  
 C2 TRAN8 TRAN8  
 C4 VEHCL8 VEHCL8  
 CTAP 1408 1 1886 1  
 USED 6  
 1  
 50886  
 PASS8  
 TRAN8  
 VEHCL8  
 1287 1

ALLW19 REF. 8088  
 0  
 C1  
 C2  
 C4  
 CTAP  
 USED  
 50897  
 PASS9  
 TRAN9  
 VEHCL9  
 1329 1

ALLW21 REF. 8089  
 0 87702 78832  
 1 1888 838  
 2 825 85  
 3 89 121  
 4 61  
 5 17  
 6 35  
 7 61  
 8  
 9  
 C1 WTIME1 DISTJ1  
 C2 DISTJ1 TIMEJ1  
 C4 TIMEJ1  
 CTAP 1073 1 1383 1  
 USED 6  
 30842  
 825  
 38  
 97  
 18887  
 WTIME1  
 DISTJ1  
 TIMEJ1  
 984 1

ALLW22 REF. 8070  
 0 89483 78869  
 1 818 315  
 2 234 28  
 3 27 83  
 4 34  
 5 6  
 6 12  
 7 24  
 8  
 9  
 C1 WTIME2 DISTJ2  
 C2 DISTJ2 TIMEJ2  
 C4 TIMEJ2  
 CTAP 1121 1 1435 1  
 USED 6  
 14176  
 341  
 20  
 45  
 38115  
 WTIME2  
 DISTJ2  
 TIMEJ2  
 1038 1

<u>ALLW23 REF. 8071</u>			
0	50088	79832	
1	248	102	2770
2	55	9	
3	10	33	85
4	8		
5	2		8
6	6		
7	11		23
8			
C1	WTIME3	DISTJ3	47813
C2	DISTJ3	TIMEJ3	WTIME3
C4	TIMEJ3		DISTJ3
CTAP	1188	1 1477	1 1078
USED			6
<u>ALLW24 REF. 8072</u>			
0	50317	79942	
1	64	23	703
2	12	1	
3	5	10	29
4	2		
5	3		2
6	2		
7	3		3
8			
C1	WTIME4	DISTJ4	48960
C2	DISTJ4	TIMEJ4	WTIME4
C4	TIMEJ4		DISTJ4
CTAP	1217	1 1819	1 1120
USED			6
<u>ALLW25 REF. 8073</u>			
0	50389	79969	
1	11	5	158
2	4		
3	2	2	7
4	1		
5			
6	1		2
7			
8			
C1	WTIME5	DISTJ5	50530
C2	DISTJ5	TIMEJ5	WTIME5
C4	TIMEJ5		DISTJ5
CTAP	1285	1 1581	1 1162
USED			6
<u>ALLW26 REF. 8074</u>			
0	50408	79973	
1	1	2	31
2	1		
3		1	2
4			
5			
6			1
7			
8			
C1	WTIME6	DISTJ6	50883
C2	DISTJ6	TIMEJ6	WTIME6
C4	TIMEJ6		DISTJ6
CTAP	1313	1 1803	1 1204
USED			6
<u>ALLW27 REF. 8075</u>			
0	50408	79978	
2			3
5			1
8			1
C1	WTIME7	DISTJ7	50892
C2	DISTJ7	TIMEJ7	WTIME7
C4	TIMEJ7		DISTJ7
CTAP	1381	1 1645	1 1248
USED			6
<u>ALLW28 REF. 8076</u>			
0	50408	79978	
8			1
C1	WTIME8	DISTJ8	50898
C2	DISTJ8	TIMEJ8	WTIME8
C4	TIMEJ8		DISTJ8
CTAP	1409	1 1887	1 1288
USED			6
<u>ALLW29 REF. 8077</u>			
8			
C1			50897
C2			WTIME9
C4			DISTJ9
CTAP			1 1330
<u>ALLW31 REF. 8078</u>			
0	58403		
1	2005		30876
8			1124
C1	AMPM1		16897
C2			AMPM1
C4			
CTAP	1074	1	995
<u>ALLW32 REF. 8079</u>			
0	58733		
1	875		13859
8			723
C1	AMPM2		38115
C2			AMPM2
C4			
CTAP	1122	1	1037
<u>ALLW33 REF. 8080</u>			
0	50139		
1	289		2592
8			292
C1	AMPM3		47813
C2			AMPM3
C4			
CTAP	1170	1	1079
<u>ALLW34 REF. 8081</u>			
0	50333		
1	75		859
8			78
C1	AMPM4		48960
C2			AMPM4
C4			
CTAP	1218	1	1121

83N	81N	80N	79N	78N	77N	76N	75N	74N	73N	83S	82S	81S	80S	79S	78S	77S	76S	75S	74S
<u>ALLW35 REF. 8082</u>																			
0	60384																		142
1	14																		25
9																			50530
C1	AMPMS																		AMPME
C2																			
C4																			
CTAP	1288 1																		1163 1
<u>ALLW38 REF. 8083</u>																			
0	80407																		30
1	1																		4
9																			50683
C1	AMPMS																		AMPME
C2																			
C4																			
CTAP	1314 1																		1205 1
<u>ALLW37 REF. 8084</u>																			
0	80408																		5
9																			50892
C1	AMPMS																		AMPMS
C2																			
C4																			
CTAP	1382 1																		1247 1
<u>ALLW38 REF. 8085</u>																			
0	80408																		1
9																			50898
C1	AMPMS																		AMPMS
C2																			
C4																			
CTAP	1410 1																		1289 1
<u>ALLW39 REF. 8086</u>																			
0																			50897
9																			AMPMS
C1																			
C2																			
C4																			
CTAP																			1331 1

### 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.

Before 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.

**SAMPLE STATUS AND ALLOCATION (Continued)**

1974-1983 Allocation Matrices

MATRIX 1: NUNITS and FLOORS:

		<u>All</u>
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

		<u>Mobile Homes</u>		<u>One Unit</u>		<u>Two + Units</u>	
		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

		<u>Non-Black Reference Person</u>								<u>Black Reference Person</u>							
		<u>Age</u>		<u>25-34</u>		<u>35-64</u>		<u>65+</u>		<u>Age</u>		<u>25-34</u>		<u>35-64</u>		<u>65+</u>	
		<u>&lt; 25</u>		<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
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.

SAMPLE STATUS AND ALLOCATION (Continued)

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 Use and 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	X
Black Reference Person		X	X	X	X	X
Renter: Non-Black Reference Person		X	X	X	X	X
Black Reference Person		X	X	X	X	X
URE: Owner			X			X
Renter			X			X
Vacant: For Rent			X			X
For Sale			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
Owner or For Sale		X		X		X
Other Vacant		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		25-64		65+		Age < 25		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		25-64		65+		Age < 25		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.

ALPHABETICAL INDEX OF VARIABLE NAMES

0330 ABAN	1109 AMRT22	0252 BLEAK	1737 CIT280	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 AMTEBU	1128 BLOOM	2504 CLINE1	0337 CRIMED	0130 DISPS	1691 ENG80
1764 ABLE80	0977 AMTF	1129 BLOOM2	2505 CLINE2	0348 CRIMEH	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 AMT1	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 AFEUL	1208 AMTM2	1570 BUIL80	1199 CMNTN	1203 CSECUR	2024 DISTJ4	2778 ENOS
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 EMOB
1642 AG480	1022 ANRSE	2800 BUSV1	0017 CMSA	2861 CSTAR2	2027 DISTJ7	0303 ENOCI
1643 AG580	1023 ANRSG	2801 BUSV2	2540 CONA1	0111 CSTBTH	2028 DISTJ8	0238 ENOF
1644 AG680	1177 ANTRSI	2802 BUSV3	2541 CONA2	0113 CSTFIX	0283 DLINE1	0232 ENOR
1645 AG780	1025 ANTRSO	2803 BUSV4	2542 CONA3	0110 CSTKIT	0057 DOCS	0761 EOTHER
1646 AG880	1024 ANTRST	2857 BUYAIR	2543 CONA4	0205 CSTMEQ	2808 DRIVE1	2750 EOTHR1
1647 AG980	1026 ANTRSW	0960 BUYE	2544 CONA5	0227 CSTMTT	2809 DRIVE2	0227 EOTHR2
1648 AG1080	1165 ANTRSX	0966 BUYE2	2545 CONA6	1554 CSTRG	2810 DRIVE3	2752 EOTHR3
1649 AG1180	0974 AMTT	0965 BUYF	2546 COMB1	0108 CSTRGF	2811 DRIVE4	2753 EOTHR4
1650 AG1280	1731 AMT80	0969 BUYFZ	2547 COMB2	0210 CSTSDW	2804 DRVYR1	2754 EOTHR5
1651 AG1380	0976 AMTW	0860 BUYFUL	2548 COMB3	0112 CSTSID	2805 DRVYR2	2755 EOTHR6
1652 AG1480	1724 AMTU80	0961 BUYG	2549 COMB4	1201 CSWIN	2806 DRVYR3	0760 EOUTPR
1653 AG1580	1162 AMTX	0967 BUYG2	2550 COMB5	1152 CTXPMT	2807 DRVYR4	2720 EPHON1
0490 AGE	2480 AMOMLY	1167 BUY1	2551 COMB6	2848 CYLNV1	0128 DRY	2721 EPHON2
0491 AGE2	0136 APPBAD	0962 BUYO	2552 CONC1	2849 CYLNV2	0134 DRY5	2722 EPHON3
0492 AGE3	0135 APOK	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 DRYOUN	2725 EPHON6
0495 AGE6	2458 ARMSH	2864 BUYTV	2556 CONC5	2197 DAMAG2	2882 DSHCT	2453 EPILEP
0496 AGE7	2439 AROUND	2796 BUYV1	2557 CONC6	2198 DAMAG3	2881 DSHGWN	0298 EPRKG
0497 AGE8	2467 ARTERY	2797 BUYV2	2558 COND1	1519 DATE	0323 DUMP	0758 EPRVPH
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 DUMPH	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	0270 EABAN2	2718 EPUSH5
0503 AGE14	2461 BACKO	1081 BUYYR	1569 COND80	2079 DCLOTH	0304 EAGE	2719 EPUSH6
0504 AGE15	2460 BACKST	2865 BUYV1	2483 CONDNO	2071 DCLPEO	0759 EALIM	2612 ERAIL1
1639 AGE80	0262 BADDRY	2866 BMTV2	0034 CONDO	2072 DCLSCH	2072 DCLSCH	2613 ERAIL2
0151 AIR	0318 BADPER	0591 C6	2482 CONDOR	2073 DCLSHP	0306 EBAR	2614 ERAIL3
1593 AIR80	0317 BADPRP	0593 C18	1002 CONE	2078 DCLTMP	0235 EBARKE	2615 ERAIL4
0324 AIRN	0270 BADSEW	0592 C617	2564 CONE1	2455 DEAF	0835 EBROKE	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 ECON	2696 ERAIS1
0152 AIRSYS	0266 BADTLT	0998 CANTG	2567 CONE4	1558 DFIRE	0237 ECRUMB	2697 ERAIS2
1781 ALIN1	1114 BANK	1175 CAMT1	2568 CONE5	0847 DFUEL	0750 EDIV	2698 ERAIS3
1782 ALIN2	1115 BANK2	1001 CAMTO	2569 CONE6	2464 DIABET	0834 EASST	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	2730 EFLAS5	0229 ESAGR
1788 ALIN8	0075 BEDRMS	0058 CARS	2575 CONF6	2520 DIFA5	2731 EFLAS6	0292 ESFD
1789 ALIN9	0257 BIGP	1583 CARS80	1198 CONFEE	2521 DIFA6	0239 EGOD	0234 ESLOPW
1790 ALIN10	1043 BILLFE	1840 CART01	0200 CONFUR	2522 DIFB1	0756 EGOVPH	0749 ESS
1791 ALIN11	1044 BILLFG	1841 CART02	1003 CONG	2523 DIFB2	0300 EGREEN	0302 ETRANS
1792 ALIN12	1045 BILLFO	1842 CART03	1005 CONO	2524 DIFB3	0295 EHIG	0754 EUNEMP
1213 ALMV79	1046 BILLFT	1843 CART04	1006 CONT	2525 DIFB4	2678 EHNDL1	1060 EVEN
1848 ALONE1	1047 BILLFW	1844 CART05	1516 CONTRLX	2526 DIFB5	2679 EHNDL2	0757 EVET
1849 ALONE2	1033 BILLGE	1845 CART06	1515 CONTROL	2527 DIFB6	2680 EHNDL3	0299 EWATER
1850 ALONE3	1035 BILLGF	1846 CART07	1004 CONW	2528 DIFC1	2681 EHNDL4	0753 EWELF
1851 ALONE4	1034 BILLGO	1847 CART08	0123 COOK	2529 DIFC2	2682 EHNDL5	0755 EWKCP
1852 ALONE5	1036 BILLGT	1839 CART09	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 BILLLO	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 BILLYF	0055 CELLAR	2829 COSTV2	2538 DIFD5	2512 ELINE3	0867 FAFURG
1996 AMPH2	1049 BILLYG	1143 CFPMT	2830 COSTV3	2539 DIFD6	2513 ELINE4	0868 FAFURH
1997 AMPM3	1050 BILLYO	1720 CFUE80	2831 COSTV4	2442 DIFFNO	2514 ELINE5	0869 FAFURI
1998 AMPM4	1052 BILLYW	0843 CFUEL	0987 COSTW	2477 DIGEST	2515 ELINE6	0475 FAM
1999 AMPM5	1053 BILLWE	1286 CHHEAD	1204 COTHR	0260 DILAPM	0293 ELON	0476 FAM2
2000 AMPM6	1056 BILLYF	1290 CHUSAF	2476 COUGH	0081 DINING	0294 EMID	0477 FAM3
2001 AMPH7	1054 BILLYG	1287 CINLIM	0018 COUNTY	2437 DISABL	0230 EHISSR	0478 FAM4
2002 AMPM8	1055 BILLYO	2475 CIRCLE	1200 CPARK	1559 DISAS	0233 EHISSW	0479 FAM5
1108 AMRTZ	1057 BILLYT	1738 CIT280	1148 CPMT	0126 DISH	0296 EMOBIL	0480 FAM6

0482 FAH8	1192 FLREN1	1694 GRA280	0094 WHROF	0063 IFP	0329 JUNK	0107 MAJFIX
0483 FAH9	1210 FFMOTF	0569 GRAD2	1492 HIN51	0269 IFSEW	0338 JUNKD	0116 MAJHM
0484 FAH10	0741 FOOD1	0570 GRAD3	1493 HIN52	0265 IFTLT	0349 JUNKM	0105 MAJREP
0485 FAH11	0742 FOOD2	0571 GRAD4	1494 HIN53	2672 IHNDL1	0613 KIDG01	0506 MAR
0486 FAH12	0743 FOOD3	0572 GRAD5	1495 HIN54	2673 IHNDL2	0614 KIDG02	0507 MAR2
0487 FAH13	0744 FOOD4	0573 GRAD6	1540 HISTRY	2674 IHNDL3	0615 KIDG03	0508 MAR3
0488 FAH14	0745 FOOD5	0574 GRAD7	1913 HJ031	2675 IHNDL4	0616 KIDG04	0509 MAR4
0489 FAH15	0746 FOOD6	0575 GRAD8	1914 HJ032	2676 IHNDL5	0605 KIDS1	0510 MAR5
1688 FAN280	0747 FOOD7	0576 GRAD9	1915 HJ033	2677 IHNDL6	0606 KIDS2	0511 MAR6
1687 FANC80	0748 FOOD8	0577 GRAD10	1916 HJ034	0246 ILEAK	0607 KIDS3	0512 MAR7
0064 FARP	0897 FPLFA	0578 GRAD11	1917 HJ035	0115 IMH	0608 KIDS4	0513 MAR8
0888 FELCTA	0898 FPLFB	0579 GRAD12	1918 HJ036	1739 IMM180	1701 KIDS80	0514 MAR9
0889 FELCTB	0899 FPLFC	0580 GRAD13	1919 HJ037	1521 IMONTH	2854 KINDV	0515 MAR10
0890 FELCTC	0900 FPLFD	0581 GRAD14	1920 HJ038	0671 INCOME	2780 KINDV1	0516 MAR11
0891 FELCTD	0901 FPLFE	0582 GRAD15	2697 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 HOSPO	1749 IND280	2886 KIT	0520 MAR15
0895 FELCTH	0905 FPLFI	0191 HAO1SL	2496 HOTH	2762 INO1	1588 KITC80	1669 MAR80
0896 FELCTI	0859 FPLFUL	0192 HAO2HS	0145 HOTPIP	2763 INO2	0080 KITCH	1550 MARKET
0906 FFLINA	0178 FPLRK	0193 HAO3FP	1564 HOBAD	2764 INO3	0118 KITCH	1096 MATBUY
0907 FFLINB	1142 FPMY	0194 HAO4EH	1089 HOBBUY	2765 INO4	0117 KITCHEN	1097 MATBY2
0908 FFLINC	0942 FPORTA	0195 HAO5UV	1560 HOBEGR	2766 INO5	2888 KITCST	2824 MBUYV1
0909 FFLIND	0943 FPORTB	0196 HAO6OT	0225 HOBH	2767 INO6	2887 KITOMH	2825 MBUYV2
0910 FFLINE	0944 FPORTC	0197 HAO7SD	1563 HOBLSL	2438 INOUT	0601 KLINE1	2826 MBUYV3
0911 FFLINF	0945 FPORTD	0163 HADDL	2171 HOBHSH	1172 INPMT2	0602 KLINE2	2827 MBUYV4
0912 FFLING	0946 FPORTE	0078 HALFB	0291 HOBHM	1730 INSB0	0603 KLINE3	1138 MCOM
0913 FFLINH	0947 FPORTF	2493 HBATH	1562 HOBHROF	0221 INSFL	0604 KLINE4	1139 MCOM2
0914 FFLINI	0948 FPORTG	2450 HEARTO	1562 HOBHVAL	1180 INSFLD	1190 LANPMT	0072A MEASU1
0915 FFLOTA	0949 FPORTH	0836 HEASST	2494 HPHOJ	1171 INSPMT	0245 LEAK	0072 MEASUR
0916 FFLOTB	0950 FPORTI	1912 HEDJOB	2490 NPUSH	1181 INSQKE	2457 LEGSM	2673 MENTAL
0917 FFLOTC	2883 FREEZ	2486 HELEV	2484 HRAIL	1185 INSRFR	2199 LEVEL1	0003 METRO
0918 FFLOTD	0276 FREEZE	2576 HELP1	2489 HRAIS	1186 INSRHZ	2200 LEVEL2	1136 MFARM
0919 FFLOTE	1066 FREET	2577 HELP2	2485 HRAHP	1184 INSRTH	2201 LEVEL3	1137 MFARM2
0920 FFLOTF	0725 FRENT1	2578 HELP3	1753 HRL280	2195 INSTAL	2193 LEVL	0043 MGRHERE
0921 FFLOTG	0726 FRENT2	2579 HELP4	1752 HRLY80	1179 INSTHF	2459 LIMBST	2191 MHDAMG
0922 FFLOTH	0727 FRENT3	2580 HELP5	1758 HRUB0	2187 INSTRC	2189 LIMHRN	0043A HHEX
0923 FFLOTI	0728 FRENT4	2581 HELP6	1759 HRU280	0215 INSUL	0625 LINE1	1090 HHEGT
0924 FFRPLA	0729 FRENT5	2588 HELPE1	2492 HSCCK	1110 INT	0626 LINE2	2190 HHTNYR
0925 FFRPLB	0730 FRENT6	2589 HELPE2	2491 HSINK	1111 INT2	0627 LINE3	1211 MHOTFE
0926 FFRPLC	0731 FRENT7	2590 HELPE3	0838 HTASCR	1544 INTLNG	0628 LINE4	2436 MHRED
0927 FFRPLD	0732 FRENT8	2591 HELPE4	0839 HTASPR	0696 INV20K	0629 LINE5	1548 MHSTAY
0928 FFRPLE	0177 FRPL	2592 HELPE5	0832 HTASST	2738 IOTHR1	0630 LINE6	1159 MHTAX
0929 FFRPLF	0031 FRST	2593 HELPE6	2053 HTRAN1	2739 IOTHR2	0315 LITTER	1161 MHTX
0930 FFRPLG	0029 FRSTHO	2582 HELPP1	2054 HTRAN2	2740 IOTHR3	0079 LIVING	2192 MHUTIL
0931 FFRPLH	0030 FRSTOC	2583 HELPP2	2055 HTRAN3	2741 IOTHR4	1510 LKLW51	1093 MLOAN
0932 FFRPLI	2885 FRZCST	2584 HELPP3	2056 HTRAN4	2742 IOTHR5	1511 LKLW52	1085 MHEWM
1695 FGR80	2884 FRZQSN	2585 HELPP4	2057 HTRAN5	2743 IOTHR6	1512 LKLW53	1098 MNUMOR
1696 FGR280	1194 FSRENT	2586 HELPP5	2058 HTRAN6	2708 IPUSH1	1513 LKLW54	477A MOCALC
0951 FNOTHA	0879 FSTEMA	2587 HELPP6	2059 HTRAN7	2709 IPUSH2	1514 LKLW55	2435 MDOOR2
0952 FNOTHB	0880 FSTEMB	1594 HEQ80	2060 HTRAN8	2710 IPUSH3	1740 LOC80	2844 MODV1
0953 FNOTHC	0881 FSTEMC	0162 HEQUIP	2487 HVIDE	2711 IPUSH4	1761 LOC280	2845 MODV2
0954 FNOTHD	0882 FSTEMD	1478 HER161	2642 IELEV1	2712 IPUSH5	0717 LODGE1	2846 MODV3
0955 FNOTHE	0883 FSTEME	1479 HER162	2643 IELEV2	2713 IPUSH6	0718 LODGE2	2847 MODV4
0956 FNOTHF	0884 FSTEMF	1480 HER163	2644 IELEV3	2600 IRAIL1	0719 LODGE3	2784 MODYR1
0957 FNOTHG	0885 FSTEMG	1481 HER164	2645 IELEV4	2601 IRAIL2	0720 LODGE4	2785 MODYR2
0958 FNOTHH	0886 FSTEMH	0639 HERE1	2646 IELEV5	2602 IRAIL3	0721 LODGE5	2786 MODYR3
0959 FNOTHI	0887 FSTEMI	0640 HERE2	2647 IELEV6	2603 IRAIL4	0722 LODGE6	2787 MODYR4
0870 FHPHPA	0933 FSTOVA	0641 HERE3	0090 IF38ED	2604 IRAIL5	0723 LODGE7	2855 MODYRV
0871 FHPHPB	0934 FSTOVB	0642 HERE4	0274 IFBLOW	2605 IRAIL6	0724 LODGE8	0024 MOPERM
0872 FHPHPC	0935 FSTOVC	0643 HERE5	0281 IFCLSD	2690 IRAIS1	0039 LONGIT	1092 MORT
0873 FHPHPD	0936 FSTOVD	0644 HERE6	0277 IFCOLD	2691 IRAIS2	1763 LQO280	1727 MORT80
0874 FHPHPE	0937 FSTOVE	0645 HERE7	0261 IFDRY	2692 IRAIS3	1762 LQOX80	1112 MORTINS
0875 FHPHPF	0938 FSTOVF	0646 HERE8	0989 IFF	2693 IRAIS4	1431 LQOXHS	1113 MORTN2
0876 FHPHPG	0939 FSTOVG	0647 HERE9	1196 IFFEE	2694 IRAIS5	1419 LQOXNS	1547 HOVAC
0877 FHPHPH	0940 FSTOVH	0648 HERE10	1780 IFJ	2695 IRAIS6	1132 LOOH	1230 HOVE2
0878 FHPHPI	0941 FSTOVI	0649 HERE11	1793 IFJ1	2624 IRAMP1	1133 LOOH2	1231 HOVE3
0372 FIRE	0286 FTRASH	0650 HERE12	1794 IFJ2	2625 IRAMP2	0007 LOT	1232 HOVE4
0373 FIREH	0198 FURAGE	0651 HERE13	1795 IFJ3	2626 IRAMP3	1565 LOT80	1233 HOVE5
0106 FIX	0199 FURHAM	0652 HERE14	1796 IFJ4	2627 IRAMP4	1074 LPRICE	1234 HOVE6
1120 FIXED	0355 FUZZ	0653 HERE15	1797 IFJ5	2628 IRAMP5	1193 LRENT	1235 HOVE7
1121 FIXED2	0356 FUZZH	1482 HERE16	1798 IFJ6	2629 IRAMP6	0241 LTS	1236 HOVE8
2498 FLIN1	0060 GARAGE	0842 HFC12	1799 IFJ7	0022 ISTATUS	0242 LTSOK	1237 HOVE9
2499 FLIN2	0061 GARGC	2495 HFLAS	1800 IFJ8	2660 IWIDE1	0006 LUC	1238 HOVE10
2500 FLIN3	0849 GASP12	1718 HFUE80	1801 IFJ9	2661 IWIDE2	2448 LUNGO	1239 HOVE11
2501 FLIN4	0848 GASP1P	0840 HFUEL	1802 IFJ10	2662 IWIDE3	1071 LVALUE	1240 HOVE12
2502 FLIN5	1124 GPM	0841 HFUELC	1803 IFJ11	2663 IWIDE4	1745 LYR280	1241 HOVE13
2503 FLIN6	1125 GPH2	0595 HHCOMP	1804 IFJ12	2664 IWIDE5	1744 LYRW80	1242 HOVE14
0054 FLOORS	1126 GPMH	1518 HMLD	0283 IFMD	2665 IWIDE6	0101 MAJADD	1243 HOVE15
1581 FLOR80	1127 GPMH2	2488 HHNDL	1209 IFOTHF	0829 JOBNCR	0103 MAJALT	1734 MOVE80

1260 MOVEYR

1245 MOVW2	0182 NECT	2237 NP02	2670 OHND15	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 PLC1N5	0689 QVET
1250 MOVW7	0213 NEWC	2242 NP07	2843 OLDV4	1015 PAMTW	1505 PLCN51	0683 QWELF
1251 MOVW8	0223 NEWICST	2243 NP08	1523 OLDV7	1164 PANTX	1506 PLCN52	0687 QMKCP
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 RAAVNS
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 NEWMEO	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 NEWSD	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 NP10	2867 NEUTV1	2260 NP25	2706 OPUSH5	2469 PARIS	0397 PLINE14	0535 RACE15
2221 NP11	2868 NEUTV2	0183 NPLF	2707 OPUSH6	2465 PARKIM	0398 PLINE15	0536 RACE70
2222 NP12	2792 NEWV1	0188 NPORTH	2594 ORAIL1	2179 PARKSZ	1880 PLPUB1	1684 RACE80
2223 NP13	2793 NEWV2	0310 NPROBS	2595 ORAIL2	1771 PAS280	1881 PLPUB2	0157 RACFAM
2224 NP14	2794 NEWV3	0631 NRLIN1	2596 ORAIL3	1856 PASS1	1882 PLPUB3	0156 RADHMD
2225 NP15	2795 NEWV4	0632 NRLIN2	2597 ORAIL4	1857 PASS2	1883 PLPUB4	0244 RAILOK
2226 NP16	0217 NEWWIN	0633 NRLIN3	2598 ORAIL5	1858 PASS3	1884 PLPUB5	0161 RANONE
2227 NP17	0222 NEWWTH	0634 NRLIN4	2599 ORAIL6	1859 PASS4	1885 PLPUB6	0160 RAPOFN
2228 NP18	0184 NFLIN	0635 NRLIN5	2684 ORAIS1	1860 PASS5	1886 PLPUB7	0154 RARUNT
2229 NP19	0185 NFLOT	0636 NRLIN6	2685 ORAIS2	1861 PASS6	1887 PLPUB8	0289 RATMIC
2230 NP20	0186 NFRPL	0637 NRLIN7	2686 ORAIS3	1862 PASS7	0272 PLUGS	0288 RATS
2231 NP21	1059 NHBILL	0638 NRLIN8	2687 ORAIS4	1863 PASS8	1590 PLUMB80	0159 RAWNFN
2232 NP22	0189 NHOTH	1091 NROWNR	2688 ORAIS5	1770 PASS80	0137 PLUMB	1535 RCLUS
2233 NP23	0180 NHMP	1144 NRPAYM	2689 ORAIS6	1864 PASSH1	0016 PMSA	0831 RCNTRL
2234 NP24	0251 NLEAK	0181 NSTEAM	2618 ORAMP1	1865 PASSH2	1145 PMT	2261 RDMGDL
2235 NP25	1212 NLINE	0187 NSTOVE	2619 ORAMP2	1866 PASSH3	1146 PMT2	2319 RDMGHM
1158 NMPRPTX	2788 NMCYL1	1610 NSUB80	2620 ORAMP3	1867 PASSH4	1147 PMT3	2348 RDMGHP
1160 NMPRT	2789 NMCYL2	0035 NUCNDO	2621 ORAMP4	1868 PASSH5	624C POOR	2290 RDMGM
1670 MR280	2790 NMCYL3	0312 NUCRIM	2622 ORAMP5	1869 PASSH6	0013 POP	2406 RDMGNR
1671 MR380	2791 NMCYL4	0091 NUM3BED	2623 ORAMP6	1870 PASSH7	0086 PORCH	2377 RDMGSE
1672 MR480	0609 NMKID1	0153 NUMAIR	0584 OTH6	1871 PASSH8	2812 PRCBP1	2081 REASN1
1673 MR580	0610 NMKID2	0275 NUMBLOW	0587 OTH17	0978 PAYE	2813 PRCBP2	2080 REASON
1674 MR680	0611 NMKID3	0282 NUMCLSD	0279 OTHCLD	0990 PAYF	2814 PRCBP3	2170 RECHM
1675 MR780	0612 NMKID4	0037 NUMCND	0991 OTHF	0979 PAYG	2815 PRCBP4	0368 RECR
1676 MR880	2207 NOBGAS	0278 NUMCOLD	0099 OTHFIX	0980 PAYO	1067A PRENT	0369 RECRM
1677 MR980	2205 NOELEC	2856 NUMCYL	0048 OTHLQ	0065 PAPP	1080 PRICE	1182 REFINS
1678 MR1080	1549 NOINT	0263 NUMDRY	0585 OTHN	0982 PAYT	1078 PRICEM	0429 REPPER
1679 MR1180	0313 NOISE	2180 NUMDOB	0319 OTHNHD	0981 PAYW	0089 PRIVB	0121 REFR
1680 MR1280	2194 NOLEVL	1095 NUMDOR	1205 OTHPMT	1711 PBU280	0088 PRIVN	0129 REFR5
1681 MR1380	2206 NOGAS	0284 NUMND	0085 OTHRMS	0673 PBUS	0672 PROFIT	2871 REFRIG
1682 MR1480	0654 NOMREL	1265 NUMOVE	0586 OTHT	1710 PBUS80	0823 PROJ	1183 REFTYP
1683 MR1580	0331 NONRES	0271 NUMSEW	0248 OTLEAK	1007 PBUYE	1153 PTXPMT	0001 REGION
1072 MSALE	0341 NONRESO	2169 NUMSIT	1206 OTPMT2	1008 PBUYG	0147 PUBSEW	0430 REL
2479 MUSCLE	0352 NONRESM	0267 NUMTLT	2202 OTRPB1	1169 PBUYI	1872 PUBTR1	0431 REL2
1573 HVAC80	2210 NOOTH	1577 NUM80	2203 OTRPB2	1010 PBUYO	1873 PUBTR2	0432 REL3
1073 HVAL	0092 NOPRIV	1576 NUM280	2204 OTRPB3	1011 PBUYT	1874 PUBTR3	0433 REL4
1214 HVG1	0311 NOPROB	0046 MUNIT2	0124 OVEN	1009 PBUYW	1875 PUBTR4	0434 REL5
1215 HVG2	1888 NOPUB1	0047 MUNITS	1061 OVER	1156 PBUYX	1876 PUBTR5	0435 REL6
1216 HVG3	1889 NOPUB2	0314 NUTRAF	2654 OVIDE1	0256 PEEL	1877 PUBTR6	0436 REL7
1217 HVG4	1890 NOPUB3	2858 NWAIR1	2655 OVIDE2	0588 PER	1878 PUBTR7	0437 REL8
1218 HVG5	1891 NOPUB4	2859 NWAIR2	2656 OVIDE3	0590 PER65	1879 PUBTR8	0438 REL9
1219 HVG6	1892 NOPUB5	1746 OCC80	2657 OVIDE4	1698 PER80	1070 PVALUE	0439 REL10
1220 HVG7	1893 NOPUB6	1747 OCC280	2658 OVIDE5	1553 PERMDT	1524 PWT	0440 REL11
1221 HVG8	1894 NOPUB7	0332 ODOR	2659 OVIDE6	1542 PERSINT	0697 QAFDC	0441 REL12
1222 HVG9	1895 NOPUB8	0342 ODORD	2186 OMNCARD	1713 PFA280	0684 QALIM	0442 REL13
1223 HVG10	1017 NORESE	0353 ODORM	0042 OMWHERE	1712 PFAR80	0694 QBINV	0443 REL14
1224 HVG11	1018 NORESG	2636 OELEV1	2836 OMWIN1	0674 PFARM	0678 QBUS	0444 REL15
1225 HVG12	1170 NORESI	2637 OELEV2	2837 OMWIN2	1589 PHON80	0686 QDIV	1595 REL80
1226 HVG13	1020 NORESO	2638 OELEV3	2838 OMWIN3	0119 PHONE	0679 QFARM	0596 RELS
1227 HVG14	1021 NOREST	2639 OELEV4	2839 OMWIN4	0250 PILEAK	0700 QFS	1067 RENT
1228 HVG15	1019 NORESW	2640 OELEV5	1187 OMWLOT	1135 PINCO2	0701 QFS1	0733 RENT1
2084 NADDUS	1157 NORESX	2641 OELEV6	1188 OMWLT	1134 PINCOP	0699 QGAPA	0734 RENT2
0179 NAFUR	2209 NOSEW	0083 OFFICE	2185 OMWMAN	1173 PINSPT	0688 QGOVPM	0735 RENT3
1686 NAME80	0084 NOTHRM	2666 OHNDL1	1189 OMNSIT	1556 PKSITE	0681 QINT	0736 RENT4
1536 NCLUS	0273 NOWIRE	2667 OHNDL2	2853 OMNYRV	1491 PLAC16	0695 QOINV	0737 RENT5
1541 NDUMRG	2208 NOWTR	2668 OHNDL3	0258 PAINT	0014 PLACE	0685 QOTHER	0738 RENT6
0012 NEIGH	2236 NP01	2669 OHNDL4	2454 PALSY	0259 PLASTER	0691 QOUTPR	0739 RENT7
					0690 QPRVPM	
					0682 QRENT	



1733 RENT80	2356 RP05HP	2427 RP18NR	0663 SAL9	1910 SWEWK7	1632 SR980	0473 SUBF14
0104 REP	2298 RP05M	2398 RP18SE	0664 SAL10	1911 SWEWK8	1633 SR1080	0474 SUBF15
1149 RESAMT	2414 RP05NR	2283 RP19DL	0665 SAL11	1728 SMOR80	1634 SR1180	0114 SUBFIX
1140 RESMR2	2385 RP05SE	2341 RP19HM	0666 SAL12	2145 SMORT1	1635 SR1280	0826 SUBINC
1141 RESMR2	2270 RP06DL	2370 RP19HP	0667 SAL13	2146 SMORT2	1636 SR1380	0825 SUBLOC
2873 RFGCST	2328 RP06HM	2312 RP19M	0668 SAL14	2147 SMORT3	1637 SR1480	0827 SUBHOR
2872 RFGOWN	2357 RP06HP	2428 RP19NR	0669 SAL15	2147A SMORT4	1638 SR1580	0190 SUPHEQ
2443 RIDDEN	2299 RP06M	2399 RP19SE	1704 SAL80	2147B SMORT5	2154 SREC1	2118 SURB1
1596 RL280	2415 RP06NR	2284 RP20DL	1705 SAL280	2147C SMORT6	2155 SREC2	2119 SURB2
1597 RL380	2386 RP06SE	2342 RP20HM	1539 SAMEDU	0015 SMSA	2156 SREC3	2120 SURB3
1598 RL480	2271 RP07DL	2371 RP20HP	1517 SAMEHH	2148 SNITE1	2156A SREC4	2120A SURB4
1599 RL580	2329 RP07HM	1946 SAMTVM	1690 SAN280	2149 SNITE2	2156B SREC5	2120B SURB5
1600 RL680	2358 RP07HP	2429 RP20NR	1689 SANC80	2150 SNITE3	2156C SREC6	2120C SURB6
1601 RL780	2300 RP07M	2400 RP20SE	0365 SCH	2150A SNITE4	1195 SRENT	2142 SVAL1
1602 RL880	2416 RP07NR	2285 RP21DL	1697 SCH80	2150B SNITE5	2121 SRSRT1	2143 SVAL2
1603 RL980	2367 RP07SE	2343 RP21HM	0367 SCHCLS	2150C SNITE6	2122 SRSRT2	2144 SVAL3
1604 RL1080	2272 RP08DL	2372 RP21HP	0366 SCHM	0858 SNO	2123 SRSRT3	2144A SVAL4
1605 RL1180	2330 RP08HM	2313 RP21M	0363 SCHNO	0175 SNOME	2123A SRSRT4	2144B SVAL5
1606 RL1280	2359 RP08HP	2430 RP21NR	0364 SCHOK	0325 SNOW	2123B SRSRT5	2144C SVAL6
1607 RL1380	2301 RP08M	2401 RP21SE	0362 SCHOTI	2115 SNUM1	2123C SRSRT6	2139 SUK51
1608 RL1480	2417 RP08NR	2286 RP22DL	0361 SCHPRI	2116 SNUM2	2160 SSEL1	2140 SUK52
1609 RL1580	2388 RP08SE	2344 RP22HM	0360 SCHPUB	2117 SNUM3	2161 SSEL2	2141 SUK53
0253 LLEAK	2273 RP09DL	2373 RP22HP	0854 COAL	0852 SOIL	2162 SSEL3	2141A SUK54
1813 RL1NE1	2331 RP09HM	2315 RP22M	2083 SECADD	2852 SOLDV	2162A SSEL4	2141B SUK55
1814 RL1NE2	2360 RP09HP	2431 RP22NR	0033 SECOND	2166 SOTH1	2162B SSEL5	2141C SUK56
1815 RL1NE3	2302 RP09M	2402 RP22SE	0167 SELECT	2167 SOTH2	2162C SSEL6	0855 SUO00
1816 RL1NE4	2418 RP09NR	2287 RP23DL	1116 SELL	2168 SOTH3	2133 SSHRD1	1525 SUT
1817 RL1NE5	2389 RP09SE	2345 RP23HM	1117 SELL2	2168A SOTH4	2134 SSHRD2	1655 SX280
1818 RL1NE6	2274 RP10DL	2374 RP23HP	2468 SENILE	2168B SOTH5	2135 SSHRD3	1656 SX380
1819 RL1NE7	2332 RP10HM	2316 RP23M	1592 SEW80	2168C SOTH6	2135A SSHRD4	1657 SX480
1820 RL1NE8	2361 RP10HP	2432 RP23NR	0148 SEWD1S	0857 SOTHER	2135B SSHRD5	1658 SX580
2263 RLVLDL	2303 RP10M	2403 RP23SE	0150 SEWDSC	0537 SPAN	2135C SSHRD6	1659 SX680
2321 RLVLHM	2419 RP10NR	2288 RP24DL	0149 SEWDUS	0538 SPAN2	0172 SSTOVE	1660 SX780
2350 RLVLHP	2390 RP10SE	2346 RP24HM	0553 SEX	0539 SPAN3	0856 SSJM	1661 SX880
2292 RLVLM	2275 RP11DL	2375 RP24HP	0554 SEX2	0540 SPAN4	1483 ST161	1662 SX980
2408 RLVLMR	2333 RP11HM	2317 RP24M	0555 SEX3	0541 SPAN5	1484 ST162	1663 SX1080
2379 RLVLSE	2362 RP11HP	2433 RP24NR	0556 SEX4	0542 SPAN6	1485 ST163	1664 SX1180
1263 RN90	2304 RP11M	2404 RP24SE	0557 SEX5	0543 SPAN7	1486 ST164	1665 SX1280
1262 RMR	2420 RP11NR	2289 RP25DL	0558 SEX6	0544 SPAN8	0019 STATE	1666 SX1380
1264 RHWINT	2391 RP11SE	2347 RP25HM	0559 SEX7	0545 SPAN9	1545 STATUA	1667 SX1480
1261 RHYEAR	2276 RP12DL	2376 RP25HP	0560 SEX8	0546 SPAN10	0023 STATUS	1668 SX1580
0830 RNTADJ	2334 RP12HM	2318 RP25M	0561 SEX9	0547 SPAN11	1496 STAY51	2151 SXURE1
0328 ROAD	2363 RP12HP	2434 RP25NR	0562 SEX10	0548 SPAN12	1497 STAY52	2152 SXURE2
0335 ROADD	2305 RP12M	2405 RP25SE	0563 SEX11	0549 SPAN13	1498 STAY53	2153 SXURE3
0346 ROADM	2421 RP12NR	1077 RPRICE	0564 SEX12	0550 SPAN14	1499 STAY54	2153A SXURE4
1585 ROOM80	2392 RP12SE	0011 RURREC	0565 SEX13	0551 SPAN15	1736 STB280	2153B SXURE5
0073 ROOMS	2277 RP13DL	2262 RUTLDL	0566 SEX14	1685 SPAN80	1475 STBORN	2153C SXURE6
0074 ROOMSC	2335 RP13HM	2320 RUTLHM	0567 SEX15	0552 SPANR	1735 STBR80	2127 SYRND1
2264 ROTHDL	2364 RP13HP	2349 RUTLHP	1654 SEX80	1166 SPASSX	1471 STBRN1	2128 SYRND2
2322 ROTHHM	2306 RP13M	2291 RUTLM	0169 SFLIN	1030 SPBILT	1472 STBRN2	2129 SYRND3
2351 ROTHHP	2422 RP13NR	2407 RUTLMR	0170 SFLOT	2136 SPCT1	1473 STBRN3	2129A STRHD4
2293 ROTHM	2393 RP13SE	2378 RUTLSE	0171 SFRPL	2137 SPCT2	1474 STBRN4	2129B SYRND5
2409 ROTHNR	2278 RP14DL	0597 S30	0176 SFRPLI	2138 SPCT3	1477 STIN5	2129C SYRND6
2380 ROTHSE	2336 RP14HM	0599 S65	0851 SGAS	2138A SPCT4	0208 STORMD	1150 TAXPMT
2265 RP01DL	2365 RP14HP	2130 S150M1	1582 SHOP80	2138B SPCT5	0207 STORMW	2481 TENO
2323 RP01HM	2301 RP14M	2131 S150M2	0056 SHOPS	2138C SPCT6	1476 STPLACE	0445 TENH
2352 RP01HP	2423 RP14NR	2132 S150M3	0027 SHORTU	0168 SPLF	0322 STRL	0446 TEN2
2296 RP01M	2394 RP14SE	2132A S150M4	0174 SHOTH	1027 SPMTRE	0336 STRLD	0447 TEN3
2410 RP01NR	2279 RP15DL	2132B S150M5	0357 SHP	1028 SPMTRG	0347 STRLM	0448 TEN4
2381 RP01SE	2337 RP15HM	2132C S150M6	0359 SHPCLS	1029 SPMTRW	0326 STRN	0449 TEN5
2266 RP02DL	2366 RP15HP	1611 S280	0358 SHPM	0173 SPORTM	0333 STRND	0450 TEN6
2324 RP02HM	2308 RP15M	1612 S380	0165 SHPKP	0414 SPOS	0344 STRNM	0451 TEN7
2353 RP02HP	2424 RP15NR	1613 S480	2163 SINH1	0415 SPOS2	2451 STROKE	0452 TEN8
2295 RP02M	2395 RP15SE	1614 S580	2164 SINH2	0416 SPOS3	1538 STRUCT	0453 TEN9
2411 RP02NR	2280 RP16DL	1615 S680	2165 SINH3	0417 SPOS4	2124 STYPE1	0454 TEN10
2382 RP02SE	2338 RP16HM	1616 S780	2165A SINH4	0418 SPOS5	2125 STYPE2	0455 TEN11
2267 RP03DL	2367 RP16HP	1617 S880	2165B SINH5	0419 SPOS6	2126 STYPE3	0456 TEN12
2325 RP03HM	2309 RP16M	1618 S980	2165C SINH6	0420 SPOS7	2126 STYPE4	0457 TEN13
2354 RP03HP	2425 RP16NR	1619 S1080	2157 SINV1	0421 SPOS8	2126A STYPE5	0458 TEN14
2296 RP03M	2396 RP16SE	1620 S1180	2158 SINV2	0422 SPOS9	2126B STYPE6	0459 TEN15
2412 RP03NR	2281 RP17DL	1621 S1280	2159 SINV3	0423 SPOS10	0824 SUB	1568 TEN80
2383 RP03SE	2339 RP17HM	1622 S1380	2159A SINV4	0424 SPOS11	0460 SUBF	0028 TENLURE
2268 RP04DL	2368 RP17HP	1623 S1480	2159B SINV5	0425 SPOS12	0461 SUBF2	1106 TERH
2326 RP04HM	2310 RP17M	1624 S1580	2159C SINV6	0426 SPOS13	0462 SUBF3	1107 TERH2
2355 RP04HP	2426 RP17NR	0598 S3064	0120 SINK	0427 SPOS14	0463 SUBF4	0201 THERH
2297 RP04M	2397 RP17SE	0164 SAFUR	0850 SJUICE	0428 SPOS15	0464 SUBF5	0202 THERHC
2413 RP04NR	2282 RP18DL	0655 SAL1	0853 SKERO	1178 SPPREI	0465 SUBF6	0203 THERMS
2384 RP04SE	2340 RP18HM	0656 SAL2	0053A SLEVEL	1625 SR280	0466 SUBF7	0206 THERHY
2269 RP05DL	2369 RP18HP	0657 SAL3	1904 SWEWK1	1626 SR380	0467 SUBF8	2463 THUD
2327 RP05HM	2311 RP18M	0658 SAL4	1905 SWEWK2	1627 SR480	0468 SUBF9	0051 TIED
		0659 SAL5	1906 SWEWK3	1628 SR580	0469 SUBF10	1773 TIM280
		0660 SAL6	1907 SWEWK4	1629 SR680	0470 SUBF11	1772 TIME80
		0661 SAL7	1908 SWEWK5	1630 SR780	0471 SUBF12	2003 TIMEJ
		0662 SAL8	1909 SWEWK6	1631 SR880	0472 SURF13	

2005 TIMEJ2	2611 URA1L6	1938 WCNTY2	1953 WKST7	1900 WMEAN5	1465 WT225C	1275 XMEMB
2006 TIMEJ3	2630 URAMP1	1939 WCNTY3	1954 WKST8	1901 WMEAN6	1466 WT230T	1430 XNRATE
2007 TIMEJ4	2631 URAMP2	1940 WCNTY4	1963 WKSTZ1	1902 WMEAN7	1987 WTIME1	1305 XNUNITE
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 UREB0	1776 WDISB0	1969 WKSTZ7	1932 WMETR4	1993 WTIME7	1336 XPAYP
0032 TOTHO	2478 UROL	2061 WDIST	1970 WKSTZ8	1933 WMETR5	1994 WTIME8	1329 XPAYT
0320 TPARK	2441 USEQUI	1522 WEIGHT	1945 WKTOWN	1934 WMETR6	1527 WMT1	1328 XPAYW
1767 TRA280	0375 USETRN	0143 WELDUS	1761 WKU280	1935 WMETR7	1528 WMT2	1310 XPER
0021 TRACT	0071 USFCAM	0142 WELL	1760 WKUN80	1936 WMETR8	1529 WMT3	1312 XPLUMB
2832 TRADE1	0070 USFCHG	2066 WFAMJB	1756 WKU80	1362 WMFAML	1530 WMT4	1326 XPROJ
2833 TRADE2	1571 VACB0	1719 WFUEB0	1757 WKU280	1358 WMFEMP	1531 WMT5	1321 XRENT
2834 TRADE3	1546 VACANCY	0844 WFUEL	0247 WLEAK	1414 WNGOVP	1532 WMT6	1313 XROOMS
2835 TRADE4	1550A VACO	1440 WHAVL	1805 WLINE1	1354 WNGOVT	1533 WMT7	1299 XTENURI
0321 TRAF	1550B VACR	1433 WHDSN	1806 WLINE2	1366 WNHOUS	1534 WMT8	1350 XTIMEJ
0334 TRAFD	1550C VACVAC	1436 WHEXT	1807 WLINE3	1356 WNJOB5	1295 XACOND	1347 XTRANJ
0345 TRAFM	1572 VACR80	1432 WHFIN	1808 WLINE4	1360 WNLARG	1266 XAHEAD	1320 XVALUE
0377 TRAM	0715 VALIM	1434 WHKIT	1809 WLINE5	1361 WNMARR	1277 XAINUS	1348 XVENCL
1822 TRAN1	1726 VALU80	0036 WHNCND	1810 WLINE6	1415 WNNFIT	1306 XAPER	1346 XWORC
1823 TRAN2	1068 VALUE	1084 WHNRCV	1811 WLINE7	1359 WNONHH	1271 XAREL	0772 YALIM
1824 TRAN3	1130 VARM	2184 WHQSET	1812 WLINE8	1367 WMOTHR	1275A XASTAT	0814 YALIM2
1825 TRAN4	1131 VARM2	1439 WHQTH	1406 WMO1CN	1403 WMO1NR	1291 XATEN	0815 YALIM3
1826 TRAN5	1118 VARY	2063 WHQJSE	1416 WMO11R	1353 WMPRIV	1301 XUANIT	0816 YALIM4
1827 TRAN6	1119 VARY2	1438 WHQUL	1368 WMO1JT	1363 WMOUAL	1282 XAZON	0763 YDIV
1828 TRAN7	1715 VD1280	1504 WHRIN5	1417 WMO2CI	1405 WMREPR	1296 XBCOND	0787 YDIV2
1829 TRAN8	0705 VD1R	1500 WHRNS1	1369 WMO2LW	0146 WNEAR	1317 XBCOST	0788 YDIV3
1766 TRAN80	0707 VD1V	1502 WHRNS2	1407 WMO2RH	2062 WNEIGH	1314 XBEDRMS	0789 YDIV4
1821 TRANSJ	1714 VD1V80	1503 WHRNS3	1418 WMO3LE	1422 WNFUN	1267 XBHEAD	1520 YEAR
0285 TRASH	1769 VEHC80	1503 WHRNS4	1370 WMO3NJ	1427 WNHOME	1278 XBINUS	0677 YFRM
0376 TRN	1768 VEHC280	1435 WHS1Z	1408 WMO3NR	1420 WNJOB	1307 XBPFR	0778 YFRM2
2029 TRNCH1	1830 VEHCL	0280 WHYCLD	1371 WMO4AF	1426 WNLOOK	1272 XBREL	0779 YFRM3
2030 TRNCH2	1831 VEHCL1	0264 WHYDRY	1409 WMO4SL	1428 WNOTHR	1758 XBSTAT	0780 YFRM4
2031 TRNCH3	1832 VEHCL2	1352 WHYMOVE	1410 WMO5C1	1421 WNPPEL	1292 XBTEN	0769 YGOVFN
2032 TRNCH4	1833 VEHCL3	0828 WHYNCR	1372 WMO5RT	1424 WNSCH	1302 XBUNTY	0805 YGOVFN
2033 TRNCH5	1834 VEHCL4	1557 WHYNOG	1373 WMO6CT	1425 WNSRV	1283 XBZON	0806 YGOVFN
2034 TRNCH6	1835 VEHCL5	1543 WHYPER	1411 WMO6NH	1423 WNTRAN	1297 XCCOND	0807 YGOVFN
2035 TRNCH7	1836 VEHCL6	1437 WHYRD	1374 WMO7AS	1754 WORK80	1318 XCCOST	0764 YINT
2036 TRNCH8	1837 VEHCL7	0268 WNYTLY	1412 WMO7LL	1779 WORKRS	1268 XCHEAD	0790 YINT2
0378 TRNM	1838 VEHCL8	1443 WHYTO	1413 WMO7PA	2069 WOTHER	1279 XCINUS	0791 YINT3
1584 TRUC80	1777 VET80	1441 WHYTOH	1375 WMO8OE	0144 WPIPED	1311 XCOMDOC	0792 YINT4
0059 TRUCKS	1778 VET280	1429 WHYTON	1376 WMO9LH	1979 WPLSZ1	1338 XCOSTE	0675 YIWS
0138 TUB	0712 VGOVFN	2182 WIDE	1377 WMO10DS	1980 WPLSZ2	1341 XCOSTF	0781 YIWS2
2445 TUBERC	0708 VINT	2183 WIDTH	1378 WMO11WD	1981 WPLSZ3	1339 XCOSTG	0782 YIWS3
2470 TUMOR	2816 VINYR1	1921 WINUS1	1379 WMO12CR	1982 WPLSZ4	1343 XCOSTG	0783 YIWS4
2869 TV1CST	2817 VINYR2	1922 WINUS2	1380 WMO13NM	1983 WPLSZ5	1342 XCOSTP	0774 YOTHER
2870 TV2CST	2818 VINYR3	1923 WINUS3	1381 WMO14FI	1984 WPLSZ6	1340 XCOSTT	0820 YOTHER
2862 TVBW	2819 VINYR4	1924 WINUS4	1382 WMO15FD	1985 WPLSZ7	1344 XCOSTW	0821 YOTHER
2863 TVCOL	1058 VOLTS	1925 WINUS5	1383 WMO16EH	1986 WPLSZ8	1308 XCPFR	0822 YOTHER
1729 TXIN80	1717 VOT280	1926 WINUS6	1384 WMO17FR	0837 WRHTAS	1273 XCREL	0773 YOUTPR
1151 TXPMT2	1716 VOTR80	1927 WINUS7	1385 WMO18OC	1755 WRK180	1275C XCSTAT	0817 YOUTPR
0050 TYPE	0704 VOTHER	1928 WINUS8	1386 WMO19RC	2188 WRNTE	1293 XCTEN	0818 YOUTPR
1579 TYPE80	0716 VOUTPR	1955 WKCB01	1387 WMO20CM	2064 WSCH	1303 XCUNIT	0819 YOUTPR
2648 UELEV1	0714 VPRVFN	1956 WKCB02	1388 WMO21WC	2876 WSHCST	1284 XZCON	0771 YPRVFN
2649 UELEV2	0709 VRENT	1957 WKCB03	1389 WMO22NC	2875 WSHOMN	1298 XDCOND	0811 YPRVFN
2650 UELEV3	0702 VSS	1958 WKCB04	1390 WMO23BN	2065 WSHP	1319 XDCOST	0812 YPRVFN
2651 UELEV4	1706 VSS80	1959 WKCB05	1391 WMO24B1	0845 WSOLAR	1269 XDHEAD	0813 YPRVFN
2652 UELEV5	1707 VSS280	1960 WKCB06	1392 WMO25OR	1444 WTO1JT	1280 XDINUS	1083 YRBUY
2653 UELEV6	0670 VTOTAL	1961 WKCB07	1393 WMO26BH	1445 WTO2LW	1351 XDISTJ	1082 YRBUYM
0069 UNITSF	0710 VUNEMP	1962 WKCB08	1394 WMO27RR	1446 WTO3NJ	1309 XDPER	2820 YRBUYV
2768 UNO1	0706 VWV	0617 WKDGO1	1395 WMO28MC	1447 WTO4AF	1274 XOREL	2821 YRBUYV
2769 UNO2	0713 WVET	0618 WKDGO2	1396 WMO29LE	1448 WTO5RT	1275D XDSTAT	2822 YRBUYV
2770 UNO3	1709 WVE280	0619 WKDGO3	1397 WMO30CC	1449 WTO6CT	1294 XDTE	2823 YRBUYV
2771 UNO4	1708 WVEL80	0620 WKDGO4	1398 WMO31DP	1450 WTO7AS	1304 XDUNIT	0765 YRENT
2772 UNO5	0703 WVOLF	1971 WKPLC1	1399 WMO32PA	1451 WTO8OE	1285 XDZON	0793 YRENT2
2773 UNO6	0711 WVKCMP	1972 WKPLC2	1400 WMO33SC	1452 WTO9LH	1335 XFARP	0794 YRENT3
2744 UOTHR1	2067 WAFORD	1973 WKPLC3	1401 WMO34ND	1453 WTO10CR	1270 XHEAD	0795 YRENT4
2745 UOTHR2	0127 WASH	1974 WKPLC4	1402 WMO35OT	1454 WTI1FR	1349 XHJOB	1104 YRMR0
2746 UOTHR3	0133 WASH5	1975 WKPLC5	1365 WMCHEP	1455 WTI2LC	1442 XHRATE	1105 YRMR2
2747 UOTHR4	2874 WASHER	1976 WKPLC6	1364 WMCHTN	1456 WTI3RC	1025 YRMRD	0676 YSLF
2748 UOTHR5	1591 WAT80	1977 WKPLC7	1357 WMCLOS	1457 WTI4CM	1345 XIFJ	0775 YSLF2
2749 UOTHR6	0140 WATER	1978 WKPLC8	1404 WMCNDO	1458 WTI5WC	1332 XIFP	0776 YSLF3
2440 UPDOWN	0141 WATERC	1947 WKST1	1355 WMDISL	1459 WTI6NC	1333 XINCP	0777 YSLF4
2606 URA1L1	2172 WBLOC	1948 WKST2	1775 WME280	1460 WTI7BN	1281 XINUS	0762 YSS
2607 URA1L2	2177 WBNVST	1949 WKST3	1896 WMEAN1	1461 WTI8B1	1468 XLINE1	0784 YSS2
2608 URA1L3	2178 WBOTHR	1950 WKST4	1897 WMEAN2	1462 WTI9MC	1469 XLINE2	0785 YSS3
2609 URA1L4	2173 WBQUAL	1951 WKST5	1898 WMEAN3	1463 WTI20LE	1470 XLINE3	
2610 URA1L5	2175 WBSAFE	1952 WKST6	1899 WMEAN4	1464 WTI21CC	1470 XLINE4	
	2176 WBSIZE				1276 XLOC	
	2176 WBXPEN				1288 XLOT	
	1937 WCNTY1				1289 XLOTR	

## ALPHABETICAL INDEX OF VARIABLES

2037 YTRNJ1 1337 ZXPARK  
 2038 YTRNJ2 1322 ZXRENT  
 2039 YTRNJ3 1300 ZXTEX  
 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 YVELF  
 0796 YVELF2  
 0797 YVELF3  
 0798 YVELF4  
 0768 YFXCHP  
 0802 YFXCHP2  
 0803 YFXCHP3  
 0804 YFXCHP4  
 0224 ZADE0  
 0589 ZADULT  
 0505 ZAGE  
 0045 ZBUILT  
 0594 ZCHILD  
 1699 ZCOM80  
 0600 ZCOMP  
 0087 ZCROLD  
 0226 ZDEFH  
 2012 ZDIST1  
 2013 ZDIST2  
 2014 ZDIST3  
 2015 ZDIST4  
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 2017 ZDIST6  
 2018 ZDIST7  
 2019 ZDIST8  
 1703 ZIN280  
 0621 ZINC  
 0623 ZINC2  
 1702 ZINC80  
 0622 ZINCA  
 0624 ZINCB  
 0624A ZINCH  
 0624B ZINCN  
 1700 ZKID80  
 1743 ZLA280  
 1742 ZLAB80  
 0002 ZHETRO  
 0380 ZLOVE  
 0020 ZONE  
 0067 ZPARK  
 0068 ZPARK2  
 1079 ZPRICE  
 1076 ZPRICEH  
 1732 ZREN80  
 1064 ZREHT  
 1065 ZRI  
 0381 ZSERVM  
 0382 ZSERVM2  
 1725 ZSMH80  
 1062 ZSHHC  
 1063 ZSHHCP  
 0040 ZSPEC  
 0379 ZSTRH  
 0041 ZTRV  
 1031 ZUTIL  
 1032 ZUTIL2  
 1069 ZVI  
 1315 ZXCROLD

## Stories from the AHS

To get some of the flavor of this survey, it helps to look at particular families and understand their stories. To illustrate, we describe here just two families, from the tens of thousands who have generously given their time to answer the questions of the AHS interviewers.

The first family in the 1974 file is an elderly white couple, renting a 6 room single family house in a rural non-metropolitan area in the South, not on a farm (control no. 10010290011). The husband is 85-87 years old, and the wife is 82. They have lived in the same house since before 1949 and pay \$15 per month in rent and \$46 per month in utilities. They say their housing is poor, but they think the neighborhood is excellent. Their main source of heat is a fireplace, and they lack complete plumbing and kitchen equipment. They say they receive \$1,321 per year from Social Security, \$1,664 from SSI, and \$40 of interest, for a total of \$3,025 per year. In 1975 they say they receive \$1,812 of Social Security, \$1,248 from SSI, and no interest, for a total of \$3,060. In 1976 they do not answer the Social Security question, and we 'allocate' \$1,208. They report \$600 from SSI, so we calculate a total of \$1,808. According to SSI rules, the total of SSI and Social Security should have been between about \$2,700 and \$3,640 in 1974-76, depending on which southern state the couple lived in, so this family's answers are reasonable, though the allocated amount seems too low. We do not know what happened to this couple after 1976, since we cut back our sample and never went back to this home.

Of the houses which stayed in the file from 1974-83, one of the first is another single family house in a rural non-farm, non-metropolitan area in the South (control no. 10010410031). The house is owned by a white family: 38 year old husband, 32 year old wife, 14 year old daughter, and 7 year old son. They have lived in the house since it was new in the early sixties. In 1974 they say it is worth \$5-7,500, and they have no mortgage. Annual taxes are \$36 and monthly utilities are \$55. They say both housing and neighborhood quality are good. Their main source of heat is a fireplace. They have 5 rooms, two bedrooms, a bathroom, complete plumbing, complete kitchen, and two room air conditioners. They report \$1,800 annual wages from the wife's job and \$5,000 from a non-farm business they own, for a total of \$6,800. In 1975 they report both these same amounts, but as wages: \$1,800 for the wife again, and \$5,000 for the husband, with no business income. (They also get an unvented kerosene heater in 1975.) In 1976 the wife's wages go up to \$2,000. The family does not answer the questions on the husband's wages or the business. We 'allocate' \$12,000 for each of these items, so we calculate a total of \$26,000. In 1977 the wife's wages rise to \$2,400, the husband's wages are \$5,600, and the business disappears, so we calculate a total income of \$8,000. They convert another room to a bedroom in 1977, presumably so the 17 year old daughter and 10 year old son no longer have to share. They now have 3 bedrooms, but still only 5 rooms in all and one bathroom. In 1978 the wife's wages fall back to \$2,000, the husband's wages are \$6,000, and the daughter, now 18, earns \$650, for a total of \$8,650. Also another son is born! The older son is now 11, the mother 36 and the father 42. The house is now worth \$15-17,500, annual taxes are \$57, and monthly utilities are \$180, so housing costs are 26% of income. In 1979 the wife's wages fall to \$1,000, probably because of the new baby, but the husband's rise to \$16,000 and the daughter earns \$500, for a total of \$17,500. Also they install a vented room heater in 1979. In 1980 the wife's wages go back up to \$2,300, the husband's and daughter's wages are zero, but the non-farm business brings in \$7,000, for a total of \$9,300. In 1981 the wife's wages rise to \$2,700 and the business brings in \$10,000, for a total of \$12,700. In 1983 (no survey in 1982) the 23 year old daughter has left home. The wife earns \$2,400. They do not answer the question on how much the business brings in, and we 'allocate' \$2,500, for a total income of \$4,900. At this interview the husband is 47, the wife 41, the sons 16 and 5. The house is worth \$17,500-20,000, the taxes are \$63 per year, and the monthly utilities are \$270. Thus housing costs appear to be 67% of income, though that includes allocated income. They still have two room air conditioners, 5 rooms, 3 bedrooms, and a bathroom. We never went back to this family, since we selected a completely new sample of housing units after 1983. (summarized by P. Burke)

**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 Number 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 <i>- 4996 Not reported</i>
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