Codebook for the American Housing Survey,
Public Use File:
1997 and later
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Version 1.8

For:
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and Research
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Development

By:
ICF International
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Introduction

The U.S. Department of Housing and Urban Development's Office of Policy Development and Research contracted with ICF International to develop a revised codebook for the American Housing Survey (AHS) for 1997 and later. Since the original creation of this codebook, ICF International has made periodic updates to reflect new data releases and changes to the AHS.

Updated versions of this codebook will continue to be released as the AHS is further modified and as more effective ways of presenting current information are found. For such purposes, feedback on the codebook's use is both welcomed and appreciated.

Contact about this codebook

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Other information

Some background information on the AHS is included in Appendix A. More information can be found on HUD USER at: http://www.huduser.org/datasets/ahs.html or at the Census Bureau at: http://www.census.gov/hhes/www/ahs.html.

Acknowledgements

In developing this Codebook, ICF International has greatly benefited from the knowledge, information, and comments from people at both HUD and Census. In particular, ICF would like to thank:

- Ronald J. Sepanik, HUD
- David A. Vandenbroucke, HUD
- Thomas Blatt, Census
- Carolyn Lynch, Census
- Barbara Williams, Census
We are indebted to David Yao of HUD for his original data file structure diagram (under the section on Data Structure) and David Vandenbroucke for making it available to us.

The primary ICF staff on this project were: Kevin S. Blake, Pooja Patel, Mariana Carrera, Gregory J. Watson, Joshua Leftin, and Rebecca Kellerson.
How To Use the Codebook

This codebook focuses on the AHS as it has been conducted since 1997. The codebook contains several resources to help users locate information on specific variables and learn more about each subject covered in the survey and the codebook. Variables are divided into 16 sections based on subject matter. The table of contents lists these sections and the page numbers on which they start. The variable listing in each section is preceded by a summary of what's available as well as helpful notes for users. An alphabetical listing of variables, section references, and data modules is located after the section on data structure. The Appendices include background information on the AHS, detailed definitions of terms used in the survey, and supplemental information on technical matters important to using the data. In addition, an index is located at the end of the codebook with page references for every variable and other important topics.

For information on the AHS before 1997, please refer to the other Codebooks cited under Additional Resources at the end of this Introduction section.

Each variable listing contains the following information. The FRENT variable is used as an example:

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>FRENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brief description of variable</td>
<td>Frequency of rent payment</td>
</tr>
<tr>
<td>Response codings. “B”, “D”, “R”, “.”, and blank, are different types of missing value codings.</td>
<td>1:52 1-52 times per year</td>
</tr>
<tr>
<td></td>
<td>53 53 times or more</td>
</tr>
<tr>
<td></td>
<td>B Not applicable</td>
</tr>
</tbody>
</table>

This entry describes the question. This long description should be viewed as a reasonably accurate, although not exact rendering. The long description was created off of the basic questions filling in text as appropriate. However, this text may change based the exact questionnaire skip patterns and housing unit circumstances. To determine the exact questions asked, users must refer to the Questionnaire code on the HUD User website, and manually simulate the application of the instrument for the particular household.

Long description: How often is the rent payment for this unit due?

Identification of variable as Character or Numeric in the data set. In most cases, Census treats any variable with 2 or more digits as numeric.

Type: Numeric
<table>
<thead>
<tr>
<th>Lists Edit Flag variable, if applicable. The Edit Flag variable reports if there was an edit or allocation made to the original variable, and what type of change was made for that observation.</th>
<th><strong>Edit flag variable:</strong> JFRENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>If variable is allocated, which matrix provides information. Appendix B provides descriptions of the process and the matrices used. Allocations occur to fill in missing values.</td>
<td><strong>Allocation Matrix:</strong> Matrix E</td>
</tr>
<tr>
<td>Whether or not variable is topcoded. “Topcoded” refers to whether or not the extreme outlier values were adjusted to preserve respondent confidentiality. The Notes section contains a description of how a variable is topcoded.</td>
<td><strong>Topcoded:</strong> No</td>
</tr>
</tbody>
</table>
| Module in which variable is located. Module refers to the computer file where the raw data resides. In 2001, the information in household, toppf, and weight files were combined into one new file called newhouse. The *Module 1999 and earlier* line is omitted if the variable is new in 2001. The *Module 2001 and later* line is omitted if the variable is no longer included in the data. | **Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse |
| Unit of observation is what level the data is collected on. This is typically the household or individual level. | **Unit of observation:** HOUSEHOLD |
| List of survey years and type when variable is present in the past three surveys. | **Present in survey year(s):** 1997N, 1998MSA, 1999N, 2001N |
| Notes are included to clarify a definition, highlight important changes in wording or respondents across years and other facts that may affect the comparability or reliability of the question. Only included if applicable. | **Notes:** |
This is an “English translation” of the Census blanking edits to indicate when values are “out of universe” or not present subject to certain conditions. The exact code restricting universes can be found in Appendix B.

**Conditions not in universe:**
1. \((\text{URE interview or vacant interview}) \text{ AND } (\text{Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory})\); OR
2. \((\text{URE interview or vacant interview}) \text{ AND } (\text{For sale only or Sold, but not yet occupied})\); OR
3. \((\text{NOT occupied interview or URE interview or vacant interview})\); OR
4. \((\text{Occupied interview and Owned}) \text{ AND } (\text{Respondent has homeowner's insurance})\); OR
5. \((\text{Occupied interview and Owned}) \text{ AND } (\text{Respondent does not have homeowner's insurance})\); OR
6. \((\text{Occupied interview}) \text{ AND } (\text{Occupied without payment})\)

Some questions are asked in all surveys, some are not. This codebook shows when each question was asked in the national and metropolitan surveys since 1997. Even within a survey, be careful of homes where a question was not applicable, such as vacant, demolished, and newly built homes. The codebook shows codes for each of these situations. For example, code R in SATPOL (whether respondents are satisfied with police patrol in their neighborhoods) indicates the respondent refused to answer, while code B indicates not applicable, because the respondent was not asked the question, for example.

The codebook includes more detailed information on the following to help researchers use the data:

- **Weighting:** The introduction to Sample Status, Weights, Interview Status provides variables used for weighting and explains cases of zero weighted units.

- **Allocation:** To preserve the integrity of the survey data, the Census Bureau allocates, i.e. assigns, values to observations for certain missing variables. The codebook contains a chapter on allocation variables. In addition, Appendix B contains the matrices that Census uses to assign values when responses are missing.

- **Universes:** The codebook includes approximations based on Census’s blanking edits in the Q-Code as to when questions are not asked. These have been translated into more reader friendly terminology under variable descriptions and the complete codings are included in Appendix C.

- **Modules:** The alphabetical and by section variable lists also identify the module in which the data for a particular variable are located.
Users can also take advantage of several features of Adobe Reader or Acrobat to make using the codebook easier and faster. These suggestions are made based on Adobe Reader 5.0. If you are using an older version, the most recent version of the free Adobe Reader can be downloaded for free from http://www.adobe.com.

- **Searching**: Variables can be quickly located using the search function, which can be accessed by either clicking on the “binoculars” icon on the tool bar or pressing Control + F. To direct your search to a particular variable and its description if you know the variable name, include an equals sign after the variable. For example, the find the coding for the variable BANK, whether the first mortgage was borrowed from a bank, type BANK = (note there are two spaces after the variable name before =) into the find box.

- **Copying**: Information can be copied out of the codebook into another software package. This is useful for creating other documentation or to put variable definitions and codings into other programs. The text selection option can be used to copy text from this codebook into another document or software program. The location of the text selection tools varies with the version of Acrobat Reader. In version 5.0, there is a toolbar icon with the letter “T” and a dotted box next to it. Clicking on that will give you the text selection tool. Clicking on the drop-down arrow next to it will give the choice of that tool or the column selection tool. Column select allows you to specify a region of the screen to select, instead of having to select whole lines. These tools can also be accessed by pressing V and Shift + V, respectively.

- **Extracting pages**: Adobe Acrobat contains a function that allows users to extract pages from document. (Unfortunately, this feature is not available in Adobe Reader.) The extract pages function is located under the “document” menu on the toolbar.

### Data Structure and File-Flattening

#### Data Structure

The “raw state” of the AHS data is a collection of files, each containing data in a different format or layout. Each record type corresponds to one or more module(s) in the data collection instrument or processing. This file format corresponds roughly to the actual data collection process. The files in 2001 are:

- **HOMIMP**: Questions about upgrades and remodeling
- **JTW**: Journey to work or commuting information
- **MORTG**: Mortgage information
- **NEWHOUSE**: Household-level information, data recodes, unit characteristics, and weighting information
- **OWNER**: Questions just for owners of rental properties
- **PERSON**: Individual person level information
RATIOV  Verification of income to cost when the ratio of income to cost is outside of certain tolerances. (Note: This file is present beginning with the 1998 AHS metro sample. This file is not present in 1997.)

RMOV  Recent mover information

The file NEWHOUSE was added in 2001, combining previous modules HOUSEHLD, TOPPUF, and WEIGHT. This change allows users to perform a greater number of household-level analyses without having to merge the component data files together. Prior to 2001, the information in NEWHOUSE is kept in three separate files. The modules are:

HOUSEHLD  Household-level information (on internal Census Bureau data, this file is called “houshld”)

TOPPUF  General unit characteristics and data recodes

WEIGHT  Weighting information

The files are available in both SAS and ASCII formats. The ASCII files are not a Census Bureau product. The ASCII versions have the same multi-file layout as the SAS versions, but differ in the coding of missing values. For a description of missing value codes in both file formats, please see the subtitle "Missing Values" at the beginning of Allocation Variables chapter.

The general structure of the collection of files in 1997 is different from the 1995 file structure and earlier versions. The 1997 files are more analogous to a relational database, so it is not possible to simply merge the files together to create the flat file. Each file is based on the unit of observation for that file. For example, the file about the housing unit structure has one observation for each housing unit. The file about the people who live in the housing unit has one observation for each person in the household; if there are multiple persons in the household, there will be multiple observations. As a result, the files have different numbers of observations depending on base unit of observation.

**Unit of Observation**

There are five basic categories for “Unit of Observation” which are described briefly in the following table.

<table>
<thead>
<tr>
<th>Unit of Observation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Household</td>
<td>This variable applies to everyone in the household or the characteristics of the housing unit.</td>
</tr>
<tr>
<td>Person</td>
<td>This variable applies to an individual in the household.</td>
</tr>
<tr>
<td>JTW/Person</td>
<td>This variable, on Journey to Work (Commuting), is at the person level.</td>
</tr>
<tr>
<td>MOVERS/Person</td>
<td>This variable refers to an item dealing with movement of the household in whole or in part, and also potentially household formation.</td>
</tr>
<tr>
<td>Home Improvement</td>
<td>This variable refers to upgrades/modifications made to the structure, usually part of the list of potential changes.</td>
</tr>
</tbody>
</table>
**Single File Version**

Some users of the AHS use the data in the format of the different modules, while others use a “single file” or “flat file” version similar to the format used in 1995 and earlier. These users have generally created the single file version by using a SAS program developed by ICF that is distributed with the data. Variables which are converted (have their names changed) in the creation of the single file version are noted in the codebook text.

For a more complete description of the single file format, please see the Documentation of Changes in the 1997 AHS document available on HUD User.

**Conditions not in universe**

Many users, as well as HUD, have requested that information on the universes applying to certain variables be included in the codebook. This is unfortunately a very difficult task because it requires tracking through the exact question flow and then all of the edits imposed by the Census Bureau later.

However, a reasonable approximation is to look at Census’s “blanking edits,” conditions where Census made certain that variables were not in the universe. This is intended to be a “plain English” version. The goal of is to have text that says: “Owners are excluded” as opposed to “([Tenure ne 1]).” The “plain English” version is included with the variable description. The exact coding is present in an appendix.

This concept is still very much a work in progress.

Users are cautioned that the “true” out-of-universe conditions may be larger than the “conditions not in universe” derived from the blanking edits.

**Allocation Matrices**

In certain circumstances, the Census Bureau will “allocate” missing values based on other information. To do this, they use standard matrices of information.

An appendix describing each matrix and the allocation process is included.

**Discussion of the File-Flattening Program**

Users can use the raw information in its current state, develop their own programs to read the data in and convert it, or convert the data into a format that is similar to the older format. ICF Consulting has also developed a conversion program that combines the different data files into a flat-file format that is similar to that of the 1995 dataset. The final format is a SAS dataset with a similar structure to the original flat file with each observation equal to one housing unit. That program can be found on the HUD USER Web site (www.huduser.org) under the links for AHS data. The program is also included in the distribution of the data in SAS format from the HUD.
Notes on Merging Individual Files

This section describes the data structure for the AHS when using the data in its “native”
distribution format – not converted to a flat file. There are also some brief examples of how
certain data can be merged together for common tasks. These examples only provide a short
summary of the logic behind merging the files together and not the exact code. Additional
examples are included in Appendix H.

Basic Diagram

The following diagram provides the basic overview of how the different component files
of the AHS merge together. This is based on the 1999 and later distributions of the AHS.

As can be seen from the diagram, the “NEWHOUSE“ file serves as the core file which
other data are then merged onto. Users should note that multiple variables are needed to
merge on certain data, and it is not always the same data. Users should also note that some of
the other files are only present in the National or the Metro distributions.

The most important variable for merging is the CONTROL variable, which is present in all of the
files. This variable is the control code for the housing unit. CONTROL is a 12-digit variable
unique to each housing unit in the national survey data. In the metropolitan survey data, CONTROL is only unique to a housing unit inside of an SMSA. Therefore, files from the metropolitan surveys must be merged by using SMSA CONTROL in order to correctly match housing units’ characteristics across files.

Each file has its own level of observation. The following table shows the file, level of observation, and the variables needed to merge on, and to what file it should be merged. The word “(multiple)” next to the merging variable indicates that there are multiple observations with the same values for the merging variable inside of a single household.

### File Matching Key

<table>
<thead>
<tr>
<th>File</th>
<th>Unit of observation</th>
<th>Merging variables¹</th>
<th>To what:</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOMIMP</td>
<td>Home improvements, upgrades, and alterations</td>
<td>CONTROL (multiple)</td>
<td>NEWHOUSE</td>
</tr>
<tr>
<td>HOUSEHLD</td>
<td>Household</td>
<td>CONTROL</td>
<td>TOPPUF</td>
</tr>
<tr>
<td>JTW</td>
<td>Individual commuting patterns</td>
<td>CONTROL (multiple)</td>
<td>PERSON</td>
</tr>
<tr>
<td>MORTG</td>
<td>Mortgages</td>
<td>CONTROL (multiple)</td>
<td>NEWHOUSE</td>
</tr>
<tr>
<td>NEWHOUSE</td>
<td>Household</td>
<td>CONTROL</td>
<td>all other files</td>
</tr>
<tr>
<td>OWNER</td>
<td>Owners of rental properties</td>
<td>CONTROL</td>
<td>NEWHOUSE</td>
</tr>
<tr>
<td>PERSON</td>
<td>Persons comprising household</td>
<td>1. CONTROL (multiple)</td>
<td>1. NEWHOUSE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. CONTROL (multiple) MOVGRP (multiple)</td>
<td>2. RMOV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. CONTROL (multiple) PLINE</td>
<td>3. JTW</td>
</tr>
<tr>
<td>RATIOV</td>
<td>Special cases, household level</td>
<td>CONTROL</td>
<td>NEWHOUSE</td>
</tr>
<tr>
<td>RMOV</td>
<td>Groups of persons inside of a household who are recent movers</td>
<td>CONTROL (multiple) MOVGRP (multiple)</td>
<td>PERSON</td>
</tr>
<tr>
<td>TOPPUF</td>
<td>Housing unit</td>
<td>CONTROL</td>
<td>all other files</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>Household</td>
<td>CONTROL</td>
<td>TOPPUF</td>
</tr>
</tbody>
</table>

¹CONTROL codes for housing units for the AHS Metro Survey data are only unique within each SMSA. Therefore the SMSA variable must also be used when merging these data files. When using metropolitan data, substitute “SMSA CONTROL” for every occurrence of “CONTROL”:
The column that lists into which file the data may be merged should be used as guidance only. There are other valid possibilities. For example, TOPPUF and HOUSEHLD can be thought of interchangeably for merging purposes.

When combining the data, extreme care must be taken. The basic level of observation is generally the housing unit, and improper merging or improper use of weights will lead to inaccurate results.

**Merging Variables:** In order to keep all of the responses for a particular housing unit together, users must merge or join files using the variables described in the table on the following page. Failure to use the correct merging variables will lead to incorrect merging and combining of data from different households or housing units together.

**Weights:** Weights are assigned only at the household level; there are no person-level weights present in the AHS. The standard weight variable, WEIGHT, is calculated based on 1980 geography as were all AHS weights from 1985 onwards. So that tabulations using the 2001 microdata can be matched to the published tables, the Census Bureau and HUD added a variable, WGT90GEO, to the 2001 AHS microdata. This new weight is calculated based on 1990 metropolitan geography. Both weights sum to national control totals for total number of units for 2001.
Householder: The householder is not necessarily the first member listed for the household or even the person with the lowest PLINE value. The householder is determined through the REL variable. REL values of 1 or 2 identify the householder.

Number of Observations per Housing Unit for a Module: Only the NEWHOUSE in 2001 and later, and HOUSEHLD, TOPPUF, and WEIGHT before 2001, module have exactly one observation for every housing unit in the AHS. Other modules may have none, one, or more than one observation for each housing unit. Certain modules have fewer total observations, such as the HOMIMP module because of the relatively few cases doing home improvements. Some have more, such as the PERSON module because often more than one person lives in a household.

Merging or Joining: When combining data from the different modules, users must be careful to retain the data in a valid format. An overriding goal during the creation of the file-flattening program was to allow all the data to be analyzed at a housing unit level while still allowing the flexibility to examine the data at a greater level of detail, such as the person level.

Validating Combining of Files: Users are strongly encouraged to check their merging or joining of data by comparing their results against summary statistics generated with the public use file (PUF), which is available from the HUD USER Web site. Those summary statistics will match exactly. Users may also wish to compare against results published in the printed AHS report, but there is a chance that those will not match exactly due to the Census Bureau’s use of internal data.

Merging and Missing Values: When combining data, users should be certain that they understand how the statistical package they are using treats situations where a one-to-one correspondence in observations for the two data sets does not exist. The basic issue is how the program carries values from one observation to the next. Different statistical packages handle this in different ways depending on the options used. Some statistical packages will carry the value through while others will create a missing value based on the merge. For example, if the NEWHOUSE module has one observation and the PERSON module has more than one matching observation, does the merging technique apply the values from the NEWHOUSE set to every matching observation in the PERSON set, or just to the first matching person?
Additional AHS resources

The U.S. Department of Census American Housing Survey website (http://www.census.gov/hhes/www/ahs.html) contains more AHS-related resources. These include the Field Representatives Manual, weighting specifications, recode specifications, edit specifications, and historical changes.

The AHS website on HUDUSER (http://www.huduser.org) contains the computer code for the 1997 survey instrument, user supplied programs, metropolitan data, and other data resources.

The HUD USER Web site also has a page to distribute user-contributed programs developed using the AHS. These user-contributed programs can be found at http://www.huduser.org/datasets/ahs/ahsprev.html. No warranties about the suitability of these programs are provided by HUD. If you wish to contribute to this library of programs, please send them to: Dav Vandenbroucke at David_A_Vandenbroucke@hud.gov
### Variables Listed Alphabetically

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCESS</td>
<td>Direct access to unit</td>
<td>Unit</td>
</tr>
<tr>
<td>ACCESSB</td>
<td>Entry system required to access building</td>
<td>Unit</td>
</tr>
<tr>
<td>ACCESSC</td>
<td>Entry system required to access community</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>ADDTN2</td>
<td>Percentage of 2nd mortgage used for additions/improvements</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>ADDTNS</td>
<td>Percentage of 1st mortgage used for additions/improvements</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AFUEL</td>
<td>Type of fuel used for air conditioning</td>
<td>Utilities</td>
</tr>
<tr>
<td>AFUR</td>
<td>Forced air furnace as supplemental heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>AGE</td>
<td>Age of person</td>
<td>Household Composition</td>
</tr>
<tr>
<td>AGERES</td>
<td>Age restricted development</td>
<td>Unit</td>
</tr>
<tr>
<td>AIR</td>
<td>Room air conditioner</td>
<td>Unit</td>
</tr>
<tr>
<td>AIRSYS</td>
<td>Central air conditioner</td>
<td>Unit</td>
</tr>
<tr>
<td>ALMV</td>
<td>All movers lived in same previous residence</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>AMMORT</td>
<td>Amount of 1st mortgage when acquired</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMMRT2</td>
<td>Amount of 2nd mortgage when acquired</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMMRT3</td>
<td>Amount borrowed by 3rd mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMMRT4</td>
<td>Amount borrowed by 4th &amp; other mortgages</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMPM</td>
<td>Time usually leave for work - am or pm</td>
<td>Commuting</td>
</tr>
<tr>
<td>AMRTZ</td>
<td>Years needed to pay off 1st mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMRTZ2</td>
<td>Years needed to pay off 2nd mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMTE</td>
<td>Average monthly cost of electricity</td>
<td>Utilities</td>
</tr>
<tr>
<td>AMTF</td>
<td>Annual cost of other fuels</td>
<td>Utilities</td>
</tr>
<tr>
<td>AMTG</td>
<td>Average monthly cost of gas</td>
<td>Utilities</td>
</tr>
<tr>
<td>AMTI</td>
<td>Annual cost of homeowners insurance</td>
<td>Utilities</td>
</tr>
<tr>
<td>AMTM</td>
<td>Amount of other charges included in 1st mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMTM2</td>
<td>Amount of other charges included in 2nd mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMTO</td>
<td>Annual cost of fuel oil</td>
<td>Utilities</td>
</tr>
<tr>
<td>AMTT</td>
<td>Annual cost of garbage &amp; trash</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMTW</td>
<td>Annual cost of water &amp; sewage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>AMTX</td>
<td>Annual real estate tax payment</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>ANCHOR</td>
<td>Method used to anchor mobile home</td>
<td>Mobile Homes</td>
</tr>
<tr>
<td>ANYCAR</td>
<td>Wall-to-wall carpeting in any area of unit</td>
<td>Unit</td>
</tr>
<tr>
<td>ANYPNT</td>
<td>Any painting done on inside of unit</td>
<td>Unit</td>
</tr>
<tr>
<td>ANYRUG</td>
<td>Any rugs or carpeting in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>APPLY</td>
<td>How got to live in public housing</td>
<td>Household Composition</td>
</tr>
<tr>
<td>APTAD</td>
<td>Space added to apartment</td>
<td>Upgrade and Remodeling</td>
</tr>
<tr>
<td>APTCH</td>
<td>Type of change to apartment</td>
<td>Upgrade and Remodeling</td>
</tr>
<tr>
<td>APTCM</td>
<td>Apartment combined with other apartment</td>
<td>Upgrade and Remodeling</td>
</tr>
<tr>
<td>APTFL</td>
<td>Number of floors in the apartment itself</td>
<td>Unit</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Category</td>
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<tr>
<td>APTSP</td>
<td>Apartment split into several apartments</td>
<td>Upgrade and Remodeling</td>
</tr>
<tr>
<td>ARM</td>
<td>1st mortgage changes due to interest rate</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>ARM2</td>
<td>2nd mortgage changes due to interest rate</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>ARMASK</td>
<td>1st mortgage changes for other reason</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>ARMASK2</td>
<td>2nd mortgage changes for other reason</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>ASSTSERV</td>
<td>Manager provides personal care assistance</td>
<td>Unit</td>
</tr>
<tr>
<td>ATBSUN</td>
<td>Number of unfinished attics/basements in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>BADPER</td>
<td>People in neighborhood are bothersome</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>BADPRP</td>
<td>Undesirable neighborhood/property bothersome</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>BADSRSV</td>
<td>Poor city/county services are bothersome</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>BADSTEP</td>
<td>Loose/broken/missing steps in common stairs</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BANK</td>
<td>1st mortgage borrowed from bank</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>BANK2</td>
<td>2nd mortgage borrowed from bank</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>BATHS</td>
<td>Number of full bathrooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>BBLDG</td>
<td>Type B noninterview building</td>
<td>Sample status, weights, interview status</td>
</tr>
<tr>
<td>BDCARP</td>
<td>Wall-to-wall carpeting in bedroom</td>
<td>Unit</td>
</tr>
<tr>
<td>BDSTPQ</td>
<td>Loose/broken/missing steps in common stairs</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BEAF78</td>
<td>Unit built before/after 1978</td>
<td>Lead Based Paint</td>
</tr>
<tr>
<td>BEDRMS</td>
<td>Number of bedrooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>BEDX</td>
<td>Number of bedrooms with wall-to-wall carpeting</td>
<td>Unit</td>
</tr>
<tr>
<td>BIGP</td>
<td>Area of peeling paint larger than 8 x 11</td>
<td>Lead Based Paint</td>
</tr>
<tr>
<td>BIGPHEL</td>
<td>Peeling paint outside larger than door</td>
<td>Lead Based Paint</td>
</tr>
<tr>
<td>BILLF</td>
<td>Type of billing for other fuels</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLFE</td>
<td>Other fuels billed with electricity</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLFG</td>
<td>Other fuels billed with gas</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLFO</td>
<td>Other fuels billed with fuel oil</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLFT</td>
<td>Other fuels billed with garbage/trash</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLFW</td>
<td>Other fuels billed with water/sewage</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLG</td>
<td>Type of billing for gas</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLGE</td>
<td>Gas billed with electricity</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLGF</td>
<td>Gas billed with fuel oil</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLGO</td>
<td>Gas billed with other fuels</td>
<td>Utilities</td>
</tr>
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<td>BILLGT</td>
<td>Gas billed with garbage/trash</td>
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<td>BILLGFW</td>
<td>Gas billed with water/sewage</td>
<td>Utilities</td>
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<td>BILLOG</td>
<td>Type of billing for fuel oil</td>
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<td>Fuel oil billed with gas</td>
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<td>Fuel oil billed with garbage/trash</td>
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<td>BILLOW</td>
<td>Fuel oil billed with water/sewage</td>
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<td>Variable</td>
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<tr>
<td>BILLT</td>
<td>Type of billing for garbage &amp; trash</td>
<td>Utilities</td>
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<tr>
<td>BILLTE</td>
<td>Garbage/trash billed with electricity</td>
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<td>BILLTF</td>
<td>Garbage/trash billed with other fuels</td>
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<td>Garbage/trash billed with gas</td>
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<tr>
<td>BILLTO</td>
<td>Garbage/trash billed with fuel oil</td>
<td>Utilities</td>
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<tr>
<td>BILLTW</td>
<td>Garbage/trash billed with water/sewage</td>
<td>Utilities</td>
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<tr>
<td>BILLW</td>
<td>Type of billing for water &amp; sewage</td>
<td>Utilities</td>
</tr>
<tr>
<td>BILLWE</td>
<td>Water/sewage billed with electricity</td>
<td>Utilities</td>
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<tr>
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<td>Water/sewage billed with other fuels</td>
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<td>Water/sewage billed with gas</td>
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<tr>
<td>BILLWO</td>
<td>Water/sewage billed with fuel oil</td>
<td>Utilities</td>
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<tr>
<td>BILLWT</td>
<td>Water/sewage billed with garbage/trash</td>
<td>Utilities</td>
</tr>
<tr>
<td>BLDMNT</td>
<td>Satisfaction with building maintenance</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BLEAK</td>
<td>Water leak in basement</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BLOON</td>
<td>1st mortgage's last payment biggest</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>BLOON2</td>
<td>2nd mortgage's last payment biggest</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>BOARDU</td>
<td>Type B unit boarded up</td>
<td>Sample status, weights, interview status</td>
</tr>
<tr>
<td>BSINK</td>
<td>Unit has a bathroom sink</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BUILT</td>
<td>Year unit was built</td>
<td>Unit</td>
</tr>
<tr>
<td>BURNER</td>
<td>Unit has working built-in cooking burners</td>
<td>Unit</td>
</tr>
<tr>
<td>BUSIN</td>
<td>Number of offices/business rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>BUSPER</td>
<td># of rooms used for business/personal use</td>
<td>Unit</td>
</tr>
<tr>
<td>BUYE</td>
<td>Pay for electricity separately</td>
<td>Utilities</td>
</tr>
<tr>
<td>BUYE2</td>
<td>Pay for electricity separately</td>
<td>Utilities</td>
</tr>
<tr>
<td>BUYF</td>
<td>Pay for other fuels separately</td>
<td>Utilities</td>
</tr>
<tr>
<td>BUYF2</td>
<td>Pay for other fuels separately</td>
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<td>BUYG</td>
<td>Pay for gas separately</td>
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<tr>
<td>BUYG2</td>
<td>Pay for gas separately</td>
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<tr>
<td>BUYI</td>
<td>Household has homeowners insurance</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>BUYO</td>
<td>Pay for fuel oil separately</td>
<td>Utilities</td>
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<tr>
<td>BUYO2</td>
<td>Pay for fuel oil separately</td>
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</tr>
<tr>
<td>BUYT</td>
<td>Pay for garbage/trash separately</td>
<td>Housing Cost</td>
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<tr>
<td>BUYT2</td>
<td>Pay for garbage/trash separately</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>BUYW</td>
<td>Pay for water/sewage separately</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>BUYW2</td>
<td>Pay for water/sewage separately</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>CABNX</td>
<td>Number of cabinets replaced/repaired</td>
<td>Upgrade and Remodeling</td>
</tr>
<tr>
<td>CABREP</td>
<td>Replaced/repaired any cabinets in unit</td>
<td>Upgrade and Remodeling</td>
</tr>
<tr>
<td>CAMF</td>
<td>Frequency of assoc/mobile home park fee</td>
<td>Mobile Homes</td>
</tr>
<tr>
<td>CAMFQ</td>
<td>Frequency of assoc/mobile home park fee</td>
<td>Mobile Homes</td>
</tr>
<tr>
<td>CANVAR</td>
<td>Term of 1st mortgage can vary</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Domain</td>
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<tr>
<td>------------</td>
<td>-------------------------------------------------------</td>
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<tr>
<td>CANVR2</td>
<td>Term of 2nd mortgage can vary</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>CARS</td>
<td>Number of cars kept for use by household members</td>
<td>Commuting</td>
</tr>
<tr>
<td>CASH</td>
<td>Amount of cash received from 1st mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>CASH2</td>
<td>Amount of cash received from 2nd mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>CELLAR</td>
<td>Unit has a basement</td>
<td>Unit</td>
</tr>
<tr>
<td>CFUEL</td>
<td>Fuel used most for cooking</td>
<td>Utilities</td>
</tr>
<tr>
<td>CITSHP</td>
<td>U.S. Citizenship</td>
<td>Household Composition</td>
</tr>
<tr>
<td>CLIMB</td>
<td>Number of floors from main entrance to apartment</td>
<td>Unit</td>
</tr>
<tr>
<td>CMSA</td>
<td>1980 design CMSA code</td>
<td>Geography</td>
</tr>
<tr>
<td>COOKST</td>
<td>Cook stove used as supplemental heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>COMMRECR</td>
<td>Community recreational facilities available</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>COMMSERV</td>
<td>Community services provided</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>CONDO</td>
<td>Unit is condominium or cooperative</td>
<td>Unit</td>
</tr>
<tr>
<td>CONFEE</td>
<td>Monthly condo/homeowner’s association/mobile home fee</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>CONTROL</td>
<td>Control number</td>
<td>Sample status, weights, interview status</td>
</tr>
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<td>CONTROL</td>
<td>Control number</td>
<td>Sample status, weights, interview status</td>
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<tr>
<td>CONTROL</td>
<td>Control number</td>
<td>Sample status, weights, interview status</td>
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<td>CONTROL</td>
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<td>Sample status, weights, interview status</td>
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<td>CONTROL</td>
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<td>Sample status, weights, interview status</td>
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<td>CONTROL</td>
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<td>CONTROL</td>
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<td>CONTROL</td>
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<td>CONTROL</td>
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<tr>
<td>CONTROL</td>
<td>Control number</td>
<td>Sample status, weights, interview status</td>
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<tr>
<td>CONTROL</td>
<td>Control number</td>
<td>Sample status, weights, interview status</td>
</tr>
<tr>
<td>COOK</td>
<td>Unit has working cookstove or range/oven</td>
<td>Unit</td>
</tr>
<tr>
<td>COUNTY</td>
<td>County code</td>
<td>Geography</td>
</tr>
<tr>
<td>CPRICE</td>
<td>Cost of construction plus value of land</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>CRACKS</td>
<td>Open cracks wider than dime</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>CRIMEA</td>
<td>Neighborhood has neighborhood crime</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>CRIMEB</td>
<td>Neighborhood crime bothersome</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>CRIMEC</td>
<td>Crime so bad you want to move</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>CROPSL</td>
<td>Receive farm income</td>
<td>Income</td>
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<tr>
<td>CSTMNT</td>
<td>Annual cost for routine maintenance</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>CUSHOM</td>
<td>How owner obtained unit</td>
<td>Household Composition</td>
</tr>
<tr>
<td>DAFUR</td>
<td>Forced air furnace - DK if supplemental/parallel</td>
<td>Utilities</td>
</tr>
<tr>
<td>DATE</td>
<td>Interview date</td>
<td>Sample status, weights, interview status</td>
</tr>
<tr>
<td>DCOKST</td>
<td>Cookstove - DK if supplemental/parallel heat equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>DEGREE</td>
<td>Average heating/cooling degree days</td>
<td>Utilities</td>
</tr>
<tr>
<td>DELECT</td>
<td>Built-in electric unit-DK if supplemental/parallel</td>
<td>Utilities</td>
</tr>
<tr>
<td>DENS</td>
<td>Number of dens/libraries/tv rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
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</tr>
<tr>
<td>----------</td>
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</tr>
<tr>
<td>DFIRE</td>
<td>Type C-30/31 severely damaged by fire</td>
<td></td>
</tr>
<tr>
<td>DFLOT</td>
<td>Vented room heater - DK if supplemental/parallel</td>
<td></td>
</tr>
<tr>
<td>DFRPL</td>
<td>Fireplace w/out inserts-DK supplemental/parallel</td>
<td></td>
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<tr>
<td>DFRPLI</td>
<td>Fireplace w/ inserts-DK if supplemental/parallel</td>
<td></td>
</tr>
<tr>
<td>DFUEL</td>
<td>Fuel used by clothes dryer</td>
<td></td>
</tr>
<tr>
<td>DHOTH</td>
<td>Other type of heat equipment-DK if supplemental/parallel</td>
<td></td>
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<tr>
<td>DHPMP</td>
<td>Heat pump - DK is supplemental/parallel heat equipment</td>
<td></td>
</tr>
<tr>
<td>DINING</td>
<td>Number of dining rooms in unit</td>
<td></td>
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<tr>
<td>DIRAC</td>
<td>Number of offices having direct access</td>
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<tr>
<td>DISAS</td>
<td>Type C severely damaged by natural disaster</td>
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<tr>
<td>DISH</td>
<td>Unit has working dishwasher</td>
<td></td>
</tr>
<tr>
<td>DISPL</td>
<td>Unit has working garbage disposal</td>
<td></td>
</tr>
<tr>
<td>DISTJ</td>
<td>Number of miles traveled to work</td>
<td></td>
</tr>
<tr>
<td>DLINE1</td>
<td>Line Number of respondent</td>
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<tr>
<td>DOORX</td>
<td>Number of doors replaced/repaired</td>
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<tr>
<td>DORREP</td>
<td>Any doors repaired/replaced in unit</td>
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<tr>
<td>DPLF</td>
<td>Pipeless furnace - DK if supplemental/parallel</td>
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<tr>
<td>DRSHOP</td>
<td>Medical office/community store on property</td>
<td></td>
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<tr>
<td>DRY</td>
<td>Unit has working clothes dryer</td>
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<tr>
<td>DTEAM</td>
<td>Steam/hot water system-DK if supplemental/parallel</td>
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<tr>
<td>DSTOVE</td>
<td>Woodburning stove - DK if supplemental/parallel</td>
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<td>DWNPAY</td>
<td>Main source of downpayment on unit</td>
<td></td>
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<tr>
<td>EABAN</td>
<td>Abandoned/vandalized buildings within 1/2 blk</td>
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</tr>
<tr>
<td>EAGE</td>
<td>Unit about same age as nearby units</td>
<td></td>
</tr>
<tr>
<td>EAPTB1</td>
<td>Apartment buildings within 1/2 block of unit</td>
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<tr>
<td>EBAR</td>
<td>Windows covered with metal bars</td>
<td></td>
</tr>
<tr>
<td>EBARCL</td>
<td>Buildings w/ bars on windows within 1/2 blk</td>
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</tr>
<tr>
<td>EBOARD</td>
<td>Windows boarded up</td>
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<tr>
<td>EBROKE</td>
<td>Windows broken</td>
<td></td>
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<tr>
<td>ECOM1</td>
<td>Business/institutions within 1/2 block</td>
<td></td>
</tr>
<tr>
<td>ECOM2</td>
<td>Factories/other industry within 1/2 block</td>
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<tr>
<td>ECRUM</td>
<td>Holes/cracks or crumbling in foundation</td>
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<tr>
<td>EGOD</td>
<td>No listed conditions seen in/on unit</td>
<td></td>
</tr>
<tr>
<td>EGRED</td>
<td>Open spaces within 1/2 block of unit</td>
<td></td>
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<tr>
<td>EHEIGHT</td>
<td>Height of apartment buildings within 1/2 blk</td>
<td></td>
</tr>
<tr>
<td>EHIGH</td>
<td>Apartment buildings 7+ stories tall within 1/2 blk</td>
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<tr>
<td>EHOLES</td>
<td>Roof has holes</td>
<td></td>
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<tr>
<td>EJUNK</td>
<td>Trash/junk in streets/properties in 1/2 blk</td>
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<tr>
<td>ELECT</td>
<td>Electrical units used as supplemental heat equipment</td>
<td></td>
</tr>
<tr>
<td>ELEV</td>
<td>Working passenger elevator</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Variable</td>
<td>Description</td>
<td>Category</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>ELEVWK</td>
<td>At least one elevator in working order</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ELOW1</td>
<td>Single-family town/rowhouses in 1/2 blk</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>ELOW2</td>
<td>Apartment buildings &lt;4 stories tall within 1/2 blk</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EMID</td>
<td>Apartment buildings 4-6 stories within 1/2 block</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EMISSR</td>
<td>Roof missing shingles/other roofing materials</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EMISSW</td>
<td>Outside walls missing siding/bricks/etc</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EMOBIL</td>
<td>Mobile homes within 1/2 block of unit</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EPRKG</td>
<td>Parking lots within 1/2 block of unit</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EPRKGA</td>
<td>Nearby parking lots useable by anyone</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EPRKGR</td>
<td>Nearby parking lots for residents only</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EPRKGS</td>
<td>Nearby parking lots for shoppers/workers</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EROAD</td>
<td>Roads within 1/2 block need repairs</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>ESAGR</td>
<td>Roof's surface sags or is uneven</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ESFD</td>
<td>Single family homes within 1/2 block</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>ESLOPW</td>
<td>Outside walls slope/lean/slab/buckle</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ETRANS</td>
<td>Railroad/airport/4-lane hwy within 1/2 block</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EVROD</td>
<td>Evidence of rodents in unit</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EVRTES</td>
<td>Unit ever tested for lead paint</td>
<td>Lead Based Paint</td>
</tr>
<tr>
<td>EWATER</td>
<td>Bodies of water within 1/2 block of unit</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>EXCLUS</td>
<td>Number offices used exclusively for business</td>
<td>Unit</td>
</tr>
<tr>
<td>EXPOSE</td>
<td>Type B interior exposed to elements</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EXTLN2</td>
<td>2nd mortgage refinanced to renew/extend</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>EXTLON</td>
<td>1st mortgage refinanced to renew/extend</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>FAFUR</td>
<td>Fuel used by forced warm-air furnace</td>
<td>Utilities</td>
</tr>
<tr>
<td>FAMNUM</td>
<td>Family number</td>
<td>Household Composition</td>
</tr>
<tr>
<td>FAMREL</td>
<td>Family relationship</td>
<td>Household Composition</td>
</tr>
<tr>
<td>FAMRM</td>
<td>Number of family rooms/great rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>FAMTYP</td>
<td>Family type</td>
<td>Household Composition</td>
</tr>
<tr>
<td>FCOKST</td>
<td>Fuel used by cookstove</td>
<td>Utilities</td>
</tr>
<tr>
<td>FELECT</td>
<td>Fuel used by built-in electric units</td>
<td>Utilities</td>
</tr>
<tr>
<td>FFLIN</td>
<td>Fuel used by unvented room heaters</td>
<td>Utilities</td>
</tr>
<tr>
<td>FFLOT</td>
<td>Fuel used by vented room heaters</td>
<td>Utilities</td>
</tr>
<tr>
<td>FFRPL</td>
<td>Fuel used by fireplace without inserts</td>
<td>Utilities</td>
</tr>
<tr>
<td>FFRPLI</td>
<td>Fuel used by fireplace with inserts</td>
<td>Utilities</td>
</tr>
<tr>
<td>FHOTH</td>
<td>Fuel used by other supplemental heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>FHPMP</td>
<td>Fuel used by electric heat pump</td>
<td>Utilities</td>
</tr>
<tr>
<td>FIXED</td>
<td>1st mortgage changes for taxes/insurance</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>FIXED2</td>
<td>2nd mortgage changes for taxes/insurance</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>FLIN</td>
<td>Heating equipment not vented to outside</td>
<td>Utilities</td>
</tr>
<tr>
<td>FLOODPLN</td>
<td>Unit in a flood plain</td>
<td>Unit</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Category</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
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</tr>
<tr>
<td>FLOORS</td>
<td>Number of stories in building</td>
<td>Unit</td>
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<tr>
<td>FLOT</td>
<td>Heating equipment vented to outside</td>
<td>Unit</td>
</tr>
<tr>
<td>FLRENT</td>
<td>Frequency of land/site rent payment</td>
<td>Housing Cost</td>
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<tr>
<td>FMHOTF</td>
<td>Frequency of other mobile home fee payments</td>
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</tr>
<tr>
<td>FMR</td>
<td>Fair market rent (average)</td>
<td>Income Limits FY2003</td>
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<td>FMRA</td>
<td>Fair market rent (minimum)</td>
<td>Income Limits FY2003</td>
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<tr>
<td>FMRB</td>
<td>Fair market rent (maximum)</td>
<td>Income Limits FY2003</td>
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<td>FOOD</td>
<td>Meals included in rent paid to household</td>
<td>Income</td>
</tr>
<tr>
<td>FPINS</td>
<td>Fireplace has inserts</td>
<td>Unit</td>
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<tr>
<td>FPLF</td>
<td>Fuel used by built-in pipeless furnace</td>
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<td>FPLWK</td>
<td>Unit has useable fireplace</td>
<td>Unit</td>
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<td>FPORHT</td>
<td>Fuel used by portable electric heaters</td>
<td>Utilities</td>
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<tr>
<td>FREEZE</td>
<td>Unit cold for 24+ hrs was uncomfortable</td>
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<td>FRENTH</td>
<td>Frequency of rent payment</td>
<td>Housing Cost</td>
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<tr>
<td>FRPL</td>
<td>Fireplace does not have inserts</td>
<td>Unit</td>
</tr>
<tr>
<td>FRPLI</td>
<td>Fireplace has inserts</td>
<td>Unit</td>
</tr>
<tr>
<td>FRSIT</td>
<td>First site mobile home ever placed on</td>
<td>Mobile Homes</td>
</tr>
<tr>
<td>FRSTHO</td>
<td>Ever owned home before</td>
<td>Household Composition</td>
</tr>
<tr>
<td>FRSTOC</td>
<td>Current occupants are first occupants</td>
<td>Unit</td>
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<tr>
<td>FSTEAM</td>
<td>Fuel used by steam/hot water system</td>
<td>Utilities</td>
</tr>
<tr>
<td>FSTOVE</td>
<td>Fuel used by woodburning/franklin stove</td>
<td>Utilities</td>
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<tr>
<td>GARAGE</td>
<td>Garage or carport included with unit</td>
<td>Unit</td>
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<tr>
<td>GASPI2</td>
<td>Source of gas heat for vacant units</td>
<td>Utilities</td>
</tr>
<tr>
<td>GASPIP</td>
<td>Gas from underground pipes or bottles</td>
<td>Utilities</td>
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<tr>
<td>GATED</td>
<td>Walls/fences surrounding community</td>
<td>Neighborhood</td>
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<tr>
<td>GPM</td>
<td>1st mortgage payments rise on fixed schedule part</td>
<td>Housing Cost</td>
</tr>
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<td>GPM2</td>
<td>2nd mortgage payments rise on fixed schedule part</td>
<td>Housing Cost</td>
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<tr>
<td>GPMW</td>
<td>1st mortgage payments rise on fixed schedule whole</td>
<td>Housing Cost</td>
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<td>GPMW2</td>
<td>2nd mortgage payments rise on fixed schedule whole</td>
<td>Housing Cost</td>
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<tr>
<td>GRAD</td>
<td>Educational level of person</td>
<td>Household Composition</td>
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<tr>
<td>GRDMNT</td>
<td>Satisfaction with grounds maintenance</td>
<td>Unit Quality</td>
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<tr>
<td>GTCAS2</td>
<td>2nd mortgage refinanced to receive cash</td>
<td>Housing Cost</td>
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<tr>
<td>GTCASH</td>
<td>1st mortgage refinanced to receive cash</td>
<td>Housing Cost</td>
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<tr>
<td>HALB</td>
<td>Additional half bathrooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>HALFB</td>
<td>Number of half bathrooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>HEARHS</td>
<td>How first heard about this unit</td>
<td>Housing Cost</td>
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<tr>
<td>HEBAL1</td>
<td>Outstanding loan against 1st home equity loan</td>
<td>Housing Cost</td>
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<tr>
<td>HEBAL2</td>
<td>Outstanding loan against 2nd home equity loan</td>
<td>Housing Cost</td>
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<tr>
<td>HEBAL3</td>
<td>Outstanding loan against 3rd home equity loan</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HEBAM1</td>
<td>Outstanding balance on 1st home equity loan</td>
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</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Category</td>
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<tr>
<td>HEBAM2</td>
<td>Outstanding balance on 2nd home equity loan</td>
<td>Housing Cost</td>
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<tr>
<td>HEBAM3</td>
<td>Outstanding balance on 3rd home equity loan</td>
<td>Housing Cost</td>
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<tr>
<td>HECR1</td>
<td>Credit limit on 1st home equity loan</td>
<td>Housing Cost</td>
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<tr>
<td>HECR2</td>
<td>Credit limit on 2nd home equity loan</td>
<td>Housing Cost</td>
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<tr>
<td>HECR3</td>
<td>Credit limit on 3rd home equity loan</td>
<td>Housing Cost</td>
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<tr>
<td>HEINF1</td>
<td>Interest rate on 1st home equity loan - fraction</td>
<td>Housing Cost</td>
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<tr>
<td>HEINF2</td>
<td>Interest rate on 2nd home equity loan - fraction</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HEINF3</td>
<td>Interest rate on 3rd home equity loan - fraction</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HEINW1</td>
<td>Interest rate on 1st home equity loan - whole #</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HEINW2</td>
<td>Interest rate on 2nd home equity loan - whole #</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HEINW3</td>
<td>Interest rate on 3rd home equity loan - whole #</td>
<td>Housing Cost</td>
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<tr>
<td>HEL</td>
<td>Has a home equity loan</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HELC</td>
<td>Has a home equity line of credit</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HELCN</td>
<td>Number of home equity lines of credit</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HELMP1</td>
<td>1st home equity loan lump sum</td>
<td>Housing Cost</td>
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<tr>
<td>HELMP2</td>
<td>2nd home equity loan lump sum</td>
<td>Housing Cost</td>
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<tr>
<td>HELMP3</td>
<td>3rd home equity loan lump sum</td>
<td>Housing Cost</td>
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<td>HELUMN</td>
<td>Number of lump sum home equity loans</td>
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<td>HELUMP</td>
<td>Has a lump sum home equity loan</td>
<td>Housing Cost</td>
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<td>HENUM</td>
<td>Number of home equity loans</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HEPMT1</td>
<td>1st home equity loan monthly payment</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HEPMT2</td>
<td>2nd home equity loan monthly payment</td>
<td>Housing Cost</td>
</tr>
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<td>HEPMT3</td>
<td>3rd home equity loan monthly payment</td>
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<tr>
<td>HEQUIP</td>
<td>Main heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>HERE</td>
<td>Nonrelative is present</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HETYP1</td>
<td>1st home equity loan type</td>
<td>Housing Cost</td>
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<tr>
<td>HETYP2</td>
<td>2nd home equity loan type</td>
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</tr>
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<td>HETYP3</td>
<td>3rd home equity loan type</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>HFUEL</td>
<td>Fuel used most for heating unit</td>
<td>Utilities</td>
</tr>
<tr>
<td>HHA GE</td>
<td>Age of householdan</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHCITSHP</td>
<td>US Citizenship of householder</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHFOOD</td>
<td>Lodger contributes to household for food</td>
<td>Income</td>
</tr>
<tr>
<td>HHGRAD</td>
<td>Education level of householder</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHHINUSYR</td>
<td>Year householder came to US</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHMAR</td>
<td>Marital status of householder</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHMORT</td>
<td>Lodger contributes to household for mortgage/rent</td>
<td>Income</td>
</tr>
<tr>
<td>HHMOVE</td>
<td>Year householder moved in</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>HHMOVEM</td>
<td>Month householder moved in</td>
<td>Recent Movers</td>
</tr>
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<td>HHMVG</td>
<td>Recent mover group of householder</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>HHNATVTY</td>
<td>Country of birth of householder</td>
<td>Household Composition</td>
</tr>
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<td>Variable</td>
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<td>Section</td>
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<tr>
<td>HHOTH</td>
<td>Lodger contributes to household for other costs</td>
<td>Income</td>
</tr>
<tr>
<td>HHPLINE</td>
<td>Line number of householder</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHRACE</td>
<td>Race of householder</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHREL</td>
<td>Relationship of householder to household</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHSEX</td>
<td>Sex of householder</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHSPAN</td>
<td>Spanish origin of householder</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHSPOS</td>
<td>Line number of spouse of householder</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HHTEN</td>
<td>Householder is owner/renter of unit</td>
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</tr>
<tr>
<td>HHUTFU</td>
<td>Lodger contributes to household for utilities</td>
<td>Income</td>
</tr>
<tr>
<td>HHWLQ</td>
<td>Householder worked at all last week</td>
<td>Household Composition</td>
</tr>
<tr>
<td>HISTRY</td>
<td>Status of unit</td>
<td>Sample status, weights, interview status</td>
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<tr>
<td>HJOB</td>
<td>Reports to work at same place each day</td>
<td>Commuting</td>
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<tr>
<td>HOLE</td>
<td>Holes in floor</td>
<td>Unit Quality</td>
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<tr>
<td>HOTH</td>
<td>Other equipment used as supplemental heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>HOTPIP</td>
<td>Unit has hot &amp; cold running water</td>
<td>Unit</td>
</tr>
<tr>
<td>HOWH</td>
<td>Rating of unit as a place to live</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>HOWN</td>
<td>Rating of neighborhood as place to live</td>
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<tr>
<td>HPMP</td>
<td>Heat pump used as supplemental heating equipment</td>
<td>Utilities</td>
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<tr>
<td>HUHIS</td>
<td>What happened to the old unit</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>IFBLOW</td>
<td>Fuses blown or circuit breakers tripped</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IFCOLD</td>
<td>Main heating equipment broke down</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IDFDRY</td>
<td>Unit completely without running water</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IFFEE</td>
<td>Condo/co-op/assoc/mobile home park fee required</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>IFOTH</td>
<td>Other mobile home fees required</td>
<td>Mobile Homes</td>
</tr>
<tr>
<td>IFSEW</td>
<td>Sewage system broke down</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IFTLT</td>
<td>Any toilet breakdowns in last 3 months</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ILEAK</td>
<td>Any inside water leaks in last 12 months</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IMAINT</td>
<td>Receive adequate maintenance</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IMPROV</td>
<td>Funds from 1st home equity loan used for additions/improvements</td>
<td>Housing Cost</td>
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<tr>
<td>IMPR2</td>
<td>Funds from 2nd home equity loan used for additions/improvements</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>INCP</td>
<td>Offstreet parking included</td>
<td>Housing Cost</td>
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<td>INCER2</td>
<td>2nd mortgage refinanced to increase payment</td>
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<tr>
<td>INCPR2</td>
<td>2nd mortgage refinanced to increase payment</td>
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<td>INC</td>
<td>Pay separate rent for land</td>
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<td>INPMT2</td>
<td>2nd mortgage payment includes insurance</td>
<td>Housing Cost</td>
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<td>INSPMT</td>
<td>1st mortgage payment includes insurance</td>
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<tr>
<td>INTF</td>
<td>Interest rate of 1st mortgage - fraction</td>
<td>Housing Cost</td>
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<tr>
<td>INTF2</td>
<td>Interest rate of 2nd mortgage - fraction</td>
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<td>INTW</td>
<td>Interest rate of 1st mortgage - whole #</td>
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<td>INTW2</td>
<td>Interest rate of 2nd mortgage - whole #</td>
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<td>Variable</td>
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<td>Year came to U.S.</td>
<td>Household Composition</td>
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<td>INV20K</td>
<td>Total savings/investments over $25,000</td>
<td>Income</td>
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<td>Poverty level income</td>
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<td>Sample status, weights, interview status</td>
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<td>JAFUEL</td>
<td>Edit flag for AFUEL</td>
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<tr>
<td>JAMEDU</td>
<td>Edit flag for SAMEDU</td>
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<td>KEXCLU</td>
<td>Kitchen facilities for household use only</td>
<td>Unit</td>
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<td>Variable</td>
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<tr>
<td>KITCH</td>
<td>Number of kitchens in unit</td>
<td>Unit</td>
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<tr>
<td>KITCHEN</td>
<td>Complete kitchen facilities in unit</td>
<td>Unit</td>
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<td>L30</td>
<td>Extremely low income limit (average)</td>
<td>Income Limits FY2003</td>
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<tr>
<td>L30A</td>
<td>Extremely low income limit (minimum)</td>
<td>Income Limits FY2003</td>
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<td>L30B</td>
<td>Extremely low income limit (maximum)</td>
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<td>L50</td>
<td>Very low income limit (average)</td>
<td>Income Limits FY2003</td>
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<td>L50A</td>
<td>Very low income limit (minimum)</td>
<td>Income Limits FY2003</td>
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<td>Very low income limit (maximum)</td>
<td>Income Limits FY2003</td>
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<td>L80</td>
<td>Low income limit (average)</td>
<td>Income Limits FY2003</td>
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<td>Low income limit (minimum)</td>
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<td>L80B</td>
<td>Low income limit (maximum)</td>
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<tr>
<td>LANDC</td>
<td>Land contract for mortgage</td>
<td>Housing Cost</td>
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<tr>
<td>LANPMT</td>
<td>Land rent included with mortgage payment</td>
<td>Housing Cost</td>
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<tr>
<td>LAT70S</td>
<td>Year unit built in late 1970s</td>
<td>Unit</td>
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<tr>
<td>LAUNDY</td>
<td>Number of laundry/utility rooms in unit</td>
<td>Unit</td>
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<tr>
<td>LDMAYB</td>
<td>Seller/agent said lead paint possible</td>
<td>Lead Based Paint</td>
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<tr>
<td>LDTEST</td>
<td>Unit tested for lead paint</td>
<td>Lead Based Paint</td>
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<tr>
<td>LEAK</td>
<td>Any outside water leaks in last 12 months</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>LISCH</td>
<td>Any changes to apartment in last 2 years</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>LITTER</td>
<td>Litter in neighborhood bothersome</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>LIVEAT</td>
<td>Everyone in household lives or eats together</td>
<td>Household Composition</td>
</tr>
<tr>
<td>LIVING</td>
<td>Number of living rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>LMED</td>
<td>Average median income (average)</td>
<td>Income Limits FY2003</td>
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<td>LMDA</td>
<td>Average median income (minimum)</td>
<td>Income Limits FY2003</td>
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<td>LMDAB</td>
<td>Average median income (maximum)</td>
<td>Income Limits FY2003</td>
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<tr>
<td>LDRNRT</td>
<td>Amount lodger pays to household</td>
<td>Income</td>
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<tr>
<td>LODSTA</td>
<td>Lodger pays fixed amount to household</td>
<td>Income</td>
</tr>
<tr>
<td>LONGIT</td>
<td>Characteristics of household in 70/80/90</td>
<td>Household Composition</td>
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<tr>
<td>LOOKHS</td>
<td>Looked at both houses/mobile home &amp; apartments</td>
<td>Housing Cost</td>
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<tr>
<td>LOOKNS</td>
<td>Looked at other neighborhoods</td>
<td>Housing Cost</td>
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<td>LOON</td>
<td>% of 1st mortgage due in last payment</td>
<td>Housing Cost</td>
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<tr>
<td>LOON2</td>
<td>% of 2nd mortgage due in last payment</td>
<td>Housing Cost</td>
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<tr>
<td>LOT</td>
<td>Square footage of lot</td>
<td>Unit</td>
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<td>LOWIN2</td>
<td>2nd mortgage refinanced to get lower interest</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>LOWINT</td>
<td>1st mortgage refinanced to get lower interest</td>
<td>Housing Cost</td>
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<tr>
<td>LPRICE</td>
<td>Purchase price of unit and land</td>
<td>Housing Cost</td>
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<td>LRENT</td>
<td>Land/site rent</td>
<td>Housing Cost</td>
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<tr>
<td>LT25K</td>
<td>Income in last 12 months over $25,000</td>
<td>Income</td>
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<td>LTSOK</td>
<td>Hallway lights working</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>LTSOK1</td>
<td>Hallway lights working</td>
<td>Unit Quality</td>
</tr>
</tbody>
</table>
LTSOK2   All hallway lights working   Unit Quality
LVALUE   Current value of land   Housing Cost
LVCARP   Wall-to-wall carpeting in living room   Unit
M3ROD   Rodents seen in unit recently   Unit Quality
MAJR1   Starts major maintenance/repairs soon enough   Unit Quality
MAJR2   Solves major problems quickly   Unit Quality
MAJR3   Polite/considerate of home (major repairs)   Unit Quality
MAR   Marital status of person   Household Composition
MARKET   Unit for rent only, sale only, or either   Sample status, weights, interview status
MARKT   Unit currently for rent or sale   Sample status, weights, interview status
MATBUY   Got 1st mortgage in same year bought unit   Housing Cost
MATBY2   Got 2nd mortgage in same year bought unit   Housing Cost
MCNT   Number of regular mortgages   Housing Cost
MCOM   1st mortgage covers business on property   Housing Cost
MCOM2   2nd mortgage covers business on property   Housing Cost
METRO   Central city / suburban status   Geography
METRO2   Central city / suburban status   Geography
MFARM   1st mortgage covers farm land   Housing Cost
MFARM2   2nd mortgage covers farm land   Housing Cost
MG   Any mortgages on this property   Housing Cost
MH32   Mobile home on property used for living quarters   Housing Cost
MH41   Model year of 1st mobile home used for living quarters   Mobile Homes
MH42   Model year of 2nd mobile home used for living quarters   Mobile Homes
MH43   Model year of 3rd mobile home used for living quarters   Mobile Homes
MH44   Model year of 4th mobile home used for living quarters   Mobile Homes
MH45   Model year of 5th mobile home used for living quarters   Mobile Homes
MHGONE   Old mobile home gone   Mobile Homes
MHOTFE   Amount of other required mobile home fees   Housing Cost
MHSSEQ   Type of mobile home foundation   Mobile Homes
MHSTAY   Mobile home to stay or be moved   Mobile Homes
MICE   Mice seen in unit recently   Unit Quality
MINR1   Starts minor maintenance/repairs soon enough   Unit Quality
MINR2   Solves minor problems quickly   Unit Quality
MINR3   Polite/considerate of home (minimum repairs)   Unit Quality
MOBILTP   Manufactured/mobile home type   Unit
MOPERM   #months since occupied as permanent home   Unit
MORTN1   Type of 1st mortgage   Housing Cost
MORTN2   Type of 2nd mortgage   Housing Cost
MOVAC   #months unit has been vacant   Sample status, weights, interview status
MOVE   Year person moved in   Recent Movers
<table>
<thead>
<tr>
<th>Variable</th>
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<tr>
<td>MOVGRP</td>
<td>Recent mover group</td>
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<tr>
<td>MOVM</td>
<td>Month person moved in</td>
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<td>MRTYP1</td>
<td>Type of 1st mortgage</td>
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<td>MRTYP2</td>
<td>Type of 2nd mortgage</td>
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<td>MUSTEL</td>
<td>Knew you must be told about lead paint</td>
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<tr>
<td>MVCNT1</td>
<td>Number of people in mover group #1</td>
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<tr>
<td>MVCNT2</td>
<td>Number of people in mover group #2</td>
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<td>MVCNT3</td>
<td>Number of people in mover group #3</td>
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<td>MVG</td>
<td>Recent mover group</td>
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<td>NATVTY</td>
<td>Country of birth</td>
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<td>NEWMOR</td>
<td>1st mortgage new or assumed</td>
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<td>NEWMR2</td>
<td>2nd mortgage new or assumed</td>
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<td>NEWTRN</td>
<td>Neighborhood Public transportation satisfactory</td>
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<td>NLBSY</td>
<td>Stopped looking at homes - too busy</td>
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<td>NLEAK1</td>
<td>Inside water leak from some other source</td>
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<tr>
<td>NLEAK2</td>
<td>Source of inside water leak unknown</td>
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<tr>
<td>NLHPPY</td>
<td>Stopped looking - happy with this unit</td>
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<tr>
<td>NLMOBL</td>
<td>Stopped looking - had trouble traveling</td>
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<tr>
<td>NLMOV</td>
<td>Stopped looking - had to move quickly</td>
</tr>
<tr>
<td>NLNLIK</td>
<td>Stopped looking - don't like looking</td>
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<tr>
<td>NLNPR</td>
<td>Stopped looking for no particular reason</td>
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<tr>
<td>NLOTSUR</td>
<td>Stopped looking for some other reason</td>
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<tr>
<td>NLUNK</td>
<td>Stopped looking - didn't know of others</td>
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<td>NOINT</td>
<td>Noninterview reason</td>
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<td>NOISE</td>
<td>Noise in neighborhood is bothersome</td>
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<td>NOISN1</td>
<td>Hear neighbors through floor/walls/ceiling</td>
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<td>NOISN2</td>
<td>Loudness of neighbor's noise bothersome</td>
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<tr>
<td>NOISN3</td>
<td>Timing of neighbor's noise bothersome</td>
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<td>NONE</td>
<td>No supplemental heating equipment</td>
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<td>NOOTHRM</td>
<td>No other rooms in unit</td>
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<td>NOPROB</td>
<td>Nothing bothersome in neighborhood</td>
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<tr>
<td>NORC</td>
<td>Majority of neighbors 55+</td>
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<tr>
<td>NSTEPC</td>
<td>Entrance accessible w/o steps or stairs</td>
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<tr>
<td>NOTSUR</td>
<td>Not sure if rodents were rats or mice</td>
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<tr>
<td>NOWIRE</td>
<td>Electrical wiring concealed by walls/wiring</td>
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<tr>
<td>NPROBS</td>
<td>Anything bothersome in neighborhood</td>
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<td>NROWNRC</td>
<td>Ownership shared w/ person not living here</td>
</tr>
<tr>
<td>NRPAYM</td>
<td>Person not living here help pay mortgage/util</td>
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<tr>
<td>NUMAIR</td>
<td>Number of room air conditioners</td>
</tr>
<tr>
<td>NUMBLOW</td>
<td>#times fuses blown or breakers tripped</td>
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Variables Listed Alphabetically
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<th>Variable</th>
<th>Description</th>
<th>Category</th>
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<td>NUMCOLD</td>
<td>#times main heating equipment broke down</td>
<td>Unit Quality</td>
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<tr>
<td>NUMDRY</td>
<td>#times completely without running water</td>
<td>Unit Quality</td>
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<td>NUMHS</td>
<td>#homes looked at before choosing this one</td>
<td>Recent Movers</td>
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<tr>
<td>NUMMOR</td>
<td>Number of mortgages including home equity loans</td>
<td>Housing Cost</td>
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<tr>
<td>NUMSEW</td>
<td>Number of sewage system breakdowns</td>
<td>Unit Quality</td>
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<td>NUMMTLT</td>
<td>Number of toilet breakdowns 6 hours or more</td>
<td>Unit Quality</td>
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<tr>
<td>NUNIT2</td>
<td>Structure type</td>
<td>Unit</td>
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<td>NUNITS</td>
<td>Number of units in building</td>
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<td>OAFUEL</td>
<td>Fuel used by other central a/c unit</td>
<td>Utilities</td>
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<td>OARSYS</td>
<td>Unit has another central a/c system</td>
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<td>OBEDRM</td>
<td>Number of offices used for bedroom</td>
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<td>ODIN</td>
<td>Number of offices used as dining room</td>
<td>Unit</td>
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<tr>
<td>ODIRAC</td>
<td>Number of offices having direct access</td>
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<td>ODORA</td>
<td>Neighborhood has bad smells</td>
<td>Neighborhood</td>
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<td>ODORB</td>
<td>Neighborhood smells are bothersome</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>ODORC</td>
<td>Smells are so bad you want to move</td>
<td>Neighborhood</td>
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<td>OKITCH</td>
<td>Number of offices used for kitchen</td>
<td>Unit</td>
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<tr>
<td>OLIVIN</td>
<td>Number of offices used for living room</td>
<td>Unit</td>
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<td>OMAINT</td>
<td>Buildings &amp; grounds maintained properly</td>
<td>Unit Quality</td>
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<tr>
<td>OOTHRM</td>
<td>Number of offices used for other room</td>
<td>Unit</td>
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<td>OTBUP</td>
<td>Other building on property used as living quarters</td>
<td>Unit</td>
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<td>OTHCLD</td>
<td>Unit cold for some other reason</td>
<td>Unit Quality</td>
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<td>OTHEST</td>
<td>Anyone home who can estimate nonrelative income</td>
<td>Income</td>
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<tr>
<td>OTHFN</td>
<td>Number of other finished rooms in unit</td>
<td>Unit</td>
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<td>OTHLQ</td>
<td>Other living qtrs on property</td>
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<td>OTHLQ1</td>
<td>Other apartments in building</td>
<td>Unit</td>
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<td>OTHLQ2</td>
<td>Other apartments in building</td>
<td>Unit</td>
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<tr>
<td>OTHNHD</td>
<td>Other problems bothersome in neighborhood</td>
<td>Neighborhood</td>
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<td>OTHPMT</td>
<td>Other charges including in 1st mortgage payment</td>
<td>Housing Cost</td>
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<td>OTHREF</td>
<td>1st mortgage refinanced for other reason</td>
<td>Housing Cost</td>
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<td>OTHRUN</td>
<td>Number of other unfinished rooms in unit</td>
<td>Unit</td>
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<td>OTLEAK</td>
<td>Water leak from other outside source</td>
<td>Unit Quality</td>
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<td>OTPMT2</td>
<td>Other charges including in 2nd mortgage payment</td>
<td>Housing Cost</td>
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<td>OTREF2</td>
<td>2nd mortgage refinanced for other reason</td>
<td>Housing Cost</td>
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<td>OUTPEL</td>
<td>Outside paint peeling or flaking</td>
<td>Lead Based Paint</td>
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<tr>
<td>OUTPNT</td>
<td>Any part of outside of unit painted</td>
<td>Lead Based Paint</td>
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<td>OVEN</td>
<td>Unit has a working microwave oven</td>
<td>Unit</td>
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<tr>
<td>OWNHHERE</td>
<td>Owner/resident manager lives on-site</td>
<td>Unit</td>
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<tr>
<td>OWINLOT</td>
<td>Household owns the land</td>
<td>Unit</td>
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<td>PAFUR</td>
<td>Forced air furnace is parallel supplemental equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>Variable</td>
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<td>Category</td>
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<td>PAPHLT</td>
<td>Received pamphlet about lead paint</td>
<td>Lead Based Paint</td>
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<tr>
<td>PAR</td>
<td>Line number of parent of person</td>
<td>Household Composition</td>
</tr>
<tr>
<td>PASS</td>
<td>Number of passengers in carpool</td>
<td>Commuting</td>
</tr>
<tr>
<td>PCOKST</td>
<td>Cookstove is parallel supplemental heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>PEEAM</td>
<td>Number of other rooms with peeling paint</td>
<td>Lead Based Paint</td>
</tr>
<tr>
<td>PEELSZ</td>
<td>Size of area of peeling/flaking paint</td>
<td>Lead Based Paint</td>
</tr>
<tr>
<td>PEELECT</td>
<td>Built-in electric unit is parallel equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>PER</td>
<td>Number of persons in household</td>
<td>Household Composition</td>
</tr>
<tr>
<td>PERSERV</td>
<td>Management provides personal care assistance</td>
<td>Unit</td>
</tr>
<tr>
<td>PERSINT</td>
<td>Personal/telephone interview</td>
<td>Household Composition</td>
</tr>
<tr>
<td>PERSON</td>
<td>Line number of person</td>
<td>Household Composition</td>
</tr>
<tr>
<td>PERSON</td>
<td>Line number of person</td>
<td>Household Composition</td>
</tr>
<tr>
<td>PERUS1</td>
<td>Percentage of 1st mortgage loan used for additions/improvements</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>PERUS2</td>
<td>Percentage of 2nd mortgage loan used for additions/improvements</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>PFLOT</td>
<td>Vented room heater is parallel supplemental equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>PFRPL</td>
<td>Fireplace without inserts is parallel equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>PFRPLI</td>
<td>Fireplace w/ inserts is parallel equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>PHONE</td>
<td>Telephone available for use</td>
<td>Unit</td>
</tr>
<tr>
<td>PHOTH</td>
<td>Some other type is parallel supplemental equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>PHPMP</td>
<td>Heat pump is parallel supplemental equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>PILEAK</td>
<td>Inside water leak from leaking pipes</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>PINCO2</td>
<td>2nd mortgage covers other units</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>PINCOP</td>
<td>1st mortgage covers other units</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>PLEAK</td>
<td>Inside water leak from plumbing fixtures</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>PLF</td>
<td>Pipeless furnace used as supplemental heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>PLINE</td>
<td>Line number of person</td>
<td>Household Composition</td>
</tr>
<tr>
<td>PLUGS</td>
<td>Every room has working electrical plug</td>
<td>Unit</td>
</tr>
<tr>
<td>PLUMB</td>
<td>Complete plumbing facilities in unit</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>PMAMT2</td>
<td>Amount of mortgage insurance included in 2nd mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>PMIAMT</td>
<td>Amount of mortgage insurance included in 1st mortgage</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>PMIPMT</td>
<td>1st mortgage payments include private mortgage insurance</td>
<td>Housing Cost</td>
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<tr>
<td>PMOVM</td>
<td>Month of previous move before this one</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>PMOYVR</td>
<td>Year of previous move before this one</td>
<td>Recent Movers</td>
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<td>PMPMT2</td>
<td>2nd mortgage payments include private mortgage insurance</td>
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<td>PMSA</td>
<td>1990 design PMSA code</td>
<td>Geography</td>
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<td>PMT</td>
<td>Monthly payment for 1st mortgage</td>
<td>Housing Cost</td>
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<td>Monthly payment for 2nd mortgage</td>
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<td>PMT3</td>
<td>Monthly payment for 3rd mortgage</td>
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<tr>
<td>PMT4</td>
<td>Monthly payment for all other mortgages</td>
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<td>POOR</td>
<td>Household income as percent of poverty line</td>
<td>Housing Cost</td>
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<td>Variable</td>
<td>Description</td>
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<tr>
<td>QSS</td>
<td>Received social security or pension</td>
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<td>QSSI</td>
<td>(FAM)Received supplemental security income</td>
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<tr>
<td>QWELF</td>
<td>Received ssi, afdc, other welfare</td>
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<tr>
<td>QWELF</td>
<td>Received workers company or other disability</td>
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<tr>
<td>RAC</td>
<td>Cost of replacements/additions to unit</td>
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<tr>
<td>RACE</td>
<td>Race of person</td>
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<tr>
<td>RACOST</td>
<td>Cost of alteration/repair</td>
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<td>RAD</td>
<td>Household member performed alteration/repair</td>
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<td>RAILOK</td>
<td>Railings on common stairs firmly attached</td>
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<tr>
<td>RAILOK1</td>
<td>Railings on stairs firmly attached</td>
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<tr>
<td>RAILOK2</td>
<td>All stair railings firmly attached</td>
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<tr>
<td>RAM</td>
<td>Has reserve annuity or home equity conversion mortgage</td>
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<td>RAMAP</td>
<td>Applied for reverse annuity mortgage</td>
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<tr>
<td>RAMORT</td>
<td>Heard of reverse annuity mortgage</td>
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<tr>
<td>RAN</td>
<td>Number of replacements/additions made to unit</td>
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<td>RAS</td>
<td>Type of alteration/repair - 1999 version</td>
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<td>RAS</td>
<td>Rats seen in unit recently</td>
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<tr>
<td>RAY</td>
<td>Alteration/repair is addition/replacement</td>
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<td>RCARP</td>
<td>Receive help w/ transportation expenses</td>
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<td>RCLOT</td>
<td>Receive help with clothing expenses</td>
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<td>RCNTRL</td>
<td>Rent limited by rent control/stabilization</td>
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<td>RCOST</td>
<td>Receive help with rent payments</td>
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<td>RECRM</td>
<td>Number of recreation rooms in unit</td>
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<td>REDMON</td>
<td>Refinanced to reduce monthly payment</td>
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<tr>
<td>REDPA2</td>
<td>Reason for refinancing reduced payment of 2nd</td>
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<tr>
<td>REDPAY</td>
<td>Reason for refinancing reduced payment of 1st</td>
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<td>REFI</td>
<td>Mortgage a refinancing of previous mortgage</td>
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<td>REFI2</td>
<td>2nd mortgage a refinancing of 1st mortgage</td>
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<td>REFR</td>
<td>Unit has a working refrigerator</td>
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<td>REGION</td>
<td>Census region</td>
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<td>REGMOR</td>
<td>Number of regular mortgages on unit</td>
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<td>REL</td>
<td>Relationship of person to reference person</td>
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<td>REMP</td>
<td>Employed by household</td>
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<td>RENW</td>
<td>Income info required for lease renewal</td>
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<td>RENT</td>
<td>Amount reported for payment period in FRENT</td>
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<tr>
<td>REPHA</td>
<td>Report income to public housing authority</td>
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Income
Household Composition
Income
Income
Income Limits FY2003
Income
Upgrade and Remodeling
Household Composition
Upgrade and Remodeling
Upgrade and Remodeling
Upgrade and Remodeling
Upgrade and Remodeling
Unit Quality
Unit Quality
Unit Quality
Housing Cost
Housing Cost
Income
Income
Upgrade and Remodeling
Upgrade and Remodeling
Income Limits FY2003
Upgraded and Remodeling
Upgrade and Remodeling
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Income
Housing Cost
Housing Cost
Housing Cost
Unit
Geography
Housing Cost
Household Composition
Household Composition
Housing Cost
Housing Cost
Income
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<th>Variable</th>
<th>Description</th>
<th>Category</th>
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<td>RESMOR</td>
<td>Amount of 1st mortgage applies only to unit</td>
<td>Housing Cost</td>
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<tr>
<td>RESMR2</td>
<td>Amount of 2nd mortgage applies only to unit</td>
<td>Housing Cost</td>
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<td>RESPTYP</td>
<td>Type of respondent</td>
<td>Household Composition</td>
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<td>REUAD</td>
<td>Reason unit got added to sample</td>
<td>Sample status, weights, interview status</td>
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<td>RGROC</td>
<td>Receive help with grocery bills</td>
<td>Income</td>
</tr>
<tr>
<td>RKIDC</td>
<td>Receive help with child care payments</td>
<td>Income</td>
</tr>
<tr>
<td>RLEAK</td>
<td>Water leak in roof</td>
<td>Unit</td>
</tr>
<tr>
<td>RMEDI</td>
<td>Receive help with medical bills</td>
<td>Income</td>
</tr>
<tr>
<td>RMOV</td>
<td>Mover group number</td>
<td>Recent Movers</td>
</tr>
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<td>RNTADJ</td>
<td>Rent adjusted because relationship w/ owner</td>
<td>Housing Cost</td>
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<td>RNTDUE</td>
<td>Frequency of lodger’s rent payment to household</td>
<td>Income</td>
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<tr>
<td>ROOMS</td>
<td>Number of rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>ROOMSA</td>
<td>Rooms used for both business &amp; other</td>
<td>Unit</td>
</tr>
<tr>
<td>ROOMSB</td>
<td>Number of rooms used for both business &amp; other</td>
<td>Unit</td>
</tr>
<tr>
<td>RROTHE</td>
<td>Received other assistance making ends meet</td>
<td>Income</td>
</tr>
<tr>
<td>RUTIL</td>
<td>Receive help with utility bills</td>
<td>Sample status, weights, interview status</td>
</tr>
<tr>
<td>S150MV</td>
<td>Vacant/URE unit &lt;= 150 miles of owners res.</td>
<td>Sample status, weights, interview status</td>
</tr>
<tr>
<td>SAFUR</td>
<td>Forced air furnace is supplemental heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>SAL</td>
<td>Wage &amp; salary income of person</td>
<td>Income</td>
</tr>
<tr>
<td>SAMEDU</td>
<td>Same HU as last enumeration</td>
<td>Sample status, weights, interview status</td>
</tr>
<tr>
<td>SAMEHH</td>
<td>Same household members live in unit</td>
<td>Household Composition</td>
</tr>
<tr>
<td>SAMEHH2</td>
<td>Same household members live in unit (recode)</td>
<td>Household Composition</td>
</tr>
<tr>
<td>SATPOL</td>
<td>Neighborhood police protection satisfactory</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>SCH</td>
<td>Neighborhood public Elementary school satisfactory</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>SCHCLS</td>
<td>Neighborhood public Elementary school within 1 mile</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>SCHM</td>
<td>Public Elementary school so bad you want to move</td>
<td>Neighborhood</td>
</tr>
<tr>
<td>SCHNO</td>
<td>Nobody in household attends school</td>
<td>Household Composition</td>
</tr>
<tr>
<td>SCHOTH</td>
<td>Someone in household attends other type of school</td>
<td>Household Composition</td>
</tr>
<tr>
<td>SCHPRI</td>
<td>Someone in household attends private school</td>
<td>Household Composition</td>
</tr>
<tr>
<td>SCHPUB</td>
<td>Someone in household attends public school</td>
<td>Household Composition</td>
</tr>
<tr>
<td>SCOAL</td>
<td>Supplemental heating equipment uses coal/coke</td>
<td>Utilities</td>
</tr>
<tr>
<td>SCOKST</td>
<td>Cookstove is supplemental heating equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>SELECT</td>
<td>Built-in electric units are supplemental heat equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>SELL</td>
<td>Borrowed 1st mortgage from former owner</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>SELL2</td>
<td>Borrowed 2nd mortgage from former owner</td>
<td>Housing Cost</td>
</tr>
<tr>
<td>SEWDIS</td>
<td>Type of sewage disposal</td>
<td>Unit</td>
</tr>
<tr>
<td>SEWDUS</td>
<td>Number of units connected to sewage system</td>
<td>Unit</td>
</tr>
<tr>
<td>SEX</td>
<td>Sex of person</td>
<td>Household Composition</td>
</tr>
<tr>
<td>SFLIN</td>
<td>Unvented room heaters are supplemental heat equipment</td>
<td>Utilities</td>
</tr>
<tr>
<td>SFLOT</td>
<td>Vented room heaters are supplemental heat equipment</td>
<td>Utilities</td>
</tr>
</tbody>
</table>
SFRPL  Fireplace without inserts is supplemental equipment
SFRPLI  Fireplace w/ inserts is supplemental heat equipment
SGAS  Supplemental heating equipment uses gas
SHARAT  Unit shares attic or basement
SHARFR  Unit shares furnace or boiler
SHARPF  Unit shares plumbing facilities
SHOTH  Some other type is supplemental heating equipment
SHP  Neighborhood shopping satisfactory
SHPCLS  Neighborhood stores within 1 mile
SHPMP  Heat pump is supplemental heating equipment
SINHV  Inherited this vacant/URE unit
SINK  Unit has kitchen sink
SINVV  Own vacant/URE unit as an investment
SJUICE  Supplemental heating equipment uses electricity
SKERO  Supplemental heating equipment uses kerosene
SMPEEL  Peeling paint more/less than 1/2 door
SMSA  1980 design PMSA code
SDPNT  Old paint sanded or scraped
SNITEV  Number of nights owner spends at vacant/URE unit
SOIL  Supplemental heating equipment uses fuel oil
SOTHER  Supplemental heating equipment uses other fuel
SOTHV  Own vacant/URE unit for some other reason
SPAN  Spanish origin of person
SPLF  Pipeless furnace is supplemental heating equipment
SPORTH  Portable heaters are supplemental heating equipment
SPOS  Line number of spouse of person
SRECV  Own vacant/URE unit for recreation
SRENTV  Number of nights vacant/URE unit was rented out
SSELV  Want to sell vacant/URE unit - not sold yet
STSTEAM  Steam/hot water system is supplemental heat equipment
SSTOVE  Woodburning stove is supplemental heating equipment
SSUN  Supplemental heating equipment uses solar energy
STATE  FIPS state code
STATUS  Interview status
STORAGE  Interview status
STEAM  Steam system used as supplemental heating equipment
STORG  Number of storage rooms/pantries in unit
STOVE  Wood stove used as supplemental heating equipment
STRNA  Neighborhood has heavy street noise/traffic
STRNB  Neighborhood street noise/traffic bothersome

Variables Listed Alphabetically

October 10, 2006
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRNC</td>
<td>St. noise/traffic so bad you want to move</td>
</tr>
<tr>
<td>SUBFIX</td>
<td>Household got government loan/grant for alterations</td>
</tr>
<tr>
<td>SUBMOR</td>
<td>Government program provides 1st mortgage</td>
</tr>
<tr>
<td>SUBMR2</td>
<td>Government program provides 2nd mortgage</td>
</tr>
<tr>
<td>SUBMR3</td>
<td>Government program provides 3rd mortgage</td>
</tr>
<tr>
<td>SUBMR4</td>
<td>Government program provides 4th &amp; other mortgage</td>
</tr>
<tr>
<td>SUBRN</td>
<td>Government subsidizes rent for unit</td>
</tr>
<tr>
<td>SUBRN1</td>
<td>Government subsidizes rent for unit</td>
</tr>
<tr>
<td>SUBRN2</td>
<td>Government subsidizes rent for unit</td>
</tr>
<tr>
<td>SWOOD</td>
<td>Supplemental heating equipment uses wood</td>
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<tr>
<td>SXUREV</td>
<td>Vacant/URE unit was previous residence</td>
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<tr>
<td>TADJ</td>
<td>Purchase price changed due to inspection/test</td>
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<tr>
<td>TALWIR</td>
<td>Aluminum wiring inspected before purchase</td>
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<tr>
<td>TASB</td>
<td>Unit tested for asbestos before purchase</td>
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<tr>
<td>TAXPMT</td>
<td>Property taxes included in 1st mortgage</td>
</tr>
<tr>
<td>TELAV</td>
<td>Telephone available elsewhere</td>
</tr>
<tr>
<td>TELHH</td>
<td>Telephone in housing unit</td>
</tr>
<tr>
<td>TEN</td>
<td>This person is owner/renter of unit</td>
</tr>
<tr>
<td>TENURE</td>
<td>Owner/renter status of unit</td>
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<tr>
<td>TERM</td>
<td>Term of 1st mortgage</td>
</tr>
<tr>
<td>TERM2</td>
<td>Term of 2nd mortgage</td>
</tr>
<tr>
<td>TIMEJ</td>
<td>Length of trip to work</td>
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<td>TIMSHR</td>
<td>Ownership of unit time shared</td>
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<tr>
<td>TLRMOV</td>
<td>Number of people moved into unit in last 2 years</td>
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<tr>
<td>TOILET</td>
<td>Unit has a flush toilet</td>
</tr>
<tr>
<td>TPARK</td>
<td>Number of mobile homes in group</td>
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<tr>
<td>TPBPA1</td>
<td>Unit tested for lead paint before purchase</td>
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<tr>
<td>TPBPIP</td>
<td>Lead pipes inspected before purchase</td>
</tr>
<tr>
<td>TPBSOL</td>
<td>Lead solder inspected before purchase</td>
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<tr>
<td>TRADON</td>
<td>Unit tested for radon before purchase</td>
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<td>TRAN</td>
<td>Method of transportation to work</td>
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<td>TRASH</td>
<td>Unit has working built-in trash compacter</td>
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<td>TREP</td>
<td>Repairs made because of inspection/test</td>
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<td>TRN</td>
<td>Is the public transportation satisfactory?</td>
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<tr>
<td>TRUCKS</td>
<td>Number of vans or trucks for household use</td>
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<tr>
<td>TUB</td>
<td>Unit has a bathtub or shower</td>
</tr>
<tr>
<td>TWATER</td>
<td>Water quality tested before purchase</td>
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<td>TXPMT2</td>
<td>Property taxes included in 2nd mortgage</td>
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<td>TXRE</td>
<td>Received real estate property tax rebate</td>
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<td>TYPE</td>
<td>Structure type</td>
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<td>Neighborhood</td>
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<td>Upgrade and Remodeling</td>
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<td>Income</td>
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<td></td>
<td>Utilities</td>
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<td>Sample status, weights, interview status</td>
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<td>Housing Cost</td>
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<td></td>
<td>Unit Quality</td>
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<td>Housing Cost</td>
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<td></td>
<td>Unit</td>
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<td></td>
<td>Household Composition</td>
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<td>Housing Cost</td>
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<tr>
<td>UNITSF</td>
<td>Square footage of unit</td>
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<tr>
<td>USEGAS</td>
<td>Household uses gas</td>
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<tr>
<td>USETRN</td>
<td>Someone in household uses Public transportation</td>
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<tr>
<td>USFCAM</td>
<td>Amount of square foot change in unit</td>
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<tr>
<td>USFCHG</td>
<td>Change in square footage of unit</td>
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<td>VACANCY</td>
<td>Vacancy status</td>
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<tr>
<td>VACVAC</td>
<td>Unit for vacation or other short-term use</td>
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<td>Current market value of unit</td>
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<td>VARM</td>
<td>1st mortgage changes for other reason</td>
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<tr>
<td>VARM2</td>
<td>2nd mortgage changes for other reason</td>
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<tr>
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<td>1st mortgage payments change</td>
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<td>VARY2</td>
<td>2nd mortgage payments change</td>
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<td>VCHER</td>
<td>Received voucher to help pay rent</td>
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<td>VEHCL</td>
<td>Drive to work alone or with others</td>
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<tr>
<td>VOTHER</td>
<td>Total amount of other income</td>
</tr>
<tr>
<td>VOTHER2</td>
<td>Total amount of other income</td>
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<tr>
<td>WALLX</td>
<td>#inside walls/ceilings repaired/replaced</td>
</tr>
<tr>
<td>WALREP</td>
<td>Inside walls/ceilings repaired/replaced</td>
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<tr>
<td>WASH</td>
<td>Unit has a working washing machine</td>
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<td>WATER</td>
<td>Source of water for unit</td>
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<td>WATERD</td>
<td>Source of drinking water</td>
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<tr>
<td>WATERS</td>
<td>Water safe for drinking &amp; cooking</td>
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<td>WEIGHT</td>
<td>Final weight based on 1980 Census geography</td>
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<td>WELDUS</td>
<td>Number of units this water source serves</td>
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<tr>
<td>WELL</td>
<td>Well drilled or dug</td>
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<tr>
<td>WFPROP</td>
<td>Unit is waterfront property</td>
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<td>WFUEL</td>
<td>Fuel used most to heat water</td>
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<td>WGT90GEO</td>
<td>Final weight based on 1990 Census geography</td>
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<tr>
<td>WHAVL</td>
<td>Liked unit because only one available</td>
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<tr>
<td>WHDSN</td>
<td>Liked unit because of room layout/design</td>
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<tr>
<td>WHDY</td>
<td>Number of days worked at home</td>
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<tr>
<td>WHEXT</td>
<td>Liked unit because of exterior appearance</td>
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<tr>
<td>WHFIN</td>
<td>Liked unit for financial reasons</td>
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<tr>
<td>WHHRB</td>
<td>#hours worked at home (self-employed)</td>
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<tr>
<td>WHHRW</td>
<td>#hours worked at home (wage &amp; salary)</td>
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<tr>
<td>WHKIT</td>
<td>Liked unit because of kitchen</td>
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<tr>
<td>WHNGET</td>
<td>Year unit bought/obtained/received</td>
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<tr>
<td>WHOME</td>
<td>Work at home for employer</td>
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<tr>
<td>WHOTH</td>
<td>Liked unit for other reasons</td>
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<table>
<thead>
<tr>
<th>Variable</th>
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<td>Sample status, weights, interview status</td>
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Variables Listed Alphabetically
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<th>Variable</th>
<th>Description</th>
<th>Category</th>
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<tbody>
<tr>
<td>WHQUL</td>
<td>Liked unit because of construction quality</td>
<td>Recent Movers</td>
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<tr>
<td>WHSIZ</td>
<td>Liked unit because of size</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>WHYCD1</td>
<td>Unit cold due to utility interruption</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>WHYCD2</td>
<td>Unit cold due to inadeq. heating capacity</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>WHYCD3</td>
<td>Unit cold due to inadequate insulation</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>WHYCD4</td>
<td>Unit cold due to cost of heating</td>
<td>Unit Quality</td>
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<tr>
<td>WHYCD5</td>
<td>Unit cold because of some other reason</td>
<td>Unit Quality</td>
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<tr>
<td>WHYMOVE</td>
<td>Main reason moved</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>WHYRD</td>
<td>Liked unit because of yard/trees/view</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>WHYTHO</td>
<td>Main reason this unit was chosen</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>WHYTON</td>
<td>Main reason this neighborhood was chosen</td>
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<tr>
<td>WINREP</td>
<td>Windows repaired or replaced</td>
<td>Upgrade and Remodeling</td>
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<td>WINUS</td>
<td>Place of work outside the U.S.</td>
<td>Household Composition</td>
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<td>WINX</td>
<td>Number of windows repaired or replaced</td>
<td>Upgrade and Remodeling</td>
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<tr>
<td>WLEAK</td>
<td>Water leak in wall or closed door/window</td>
<td>Unit Quality</td>
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<tr>
<td>WLINEQ</td>
<td>Work at all last week</td>
<td>Household Composition</td>
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<tr>
<td>WMCHEP</td>
<td>Moved here for less expensive rent/maintenance</td>
<td>Recent Movers</td>
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<tr>
<td>WMCHTN</td>
<td>Moved here to own not rent or vice versa</td>
<td>Recent Movers</td>
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<tr>
<td>WMCHTN</td>
<td>Moved here to own not rent or vice versa</td>
<td>Recent Movers</td>
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<tr>
<td>WMCHTN</td>
<td>Moved to be closer to work/school/other</td>
<td>Recent Movers</td>
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<tr>
<td>WMCNDO</td>
<td>Moved because unit was going condo/co-op</td>
<td>Recent Movers</td>
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<tr>
<td>WMDISL</td>
<td>Moved because of disaster loss</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>WMFAML</td>
<td>Moved for other family/personal reasons</td>
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<tr>
<td>WMFEMP</td>
<td>Moved for other financial/employment reasons</td>
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<tr>
<td>WMGOPV</td>
<td>Moved because government using land/unit</td>
<td>Recent Movers</td>
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<tr>
<td>WMGOV</td>
<td>Moved because government using land/unit</td>
<td>Recent Movers</td>
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<tr>
<td>WMGOVT</td>
<td>Force to move by government</td>
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<td>WMHOUS</td>
<td>Moved for other housing related reasons</td>
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<td>WMJ OBS</td>
<td>Moved for new job or job transfer</td>
<td>Recent Movers</td>
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<td>WMLARG</td>
<td>Moved because needed larger unit</td>
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<td>WMMARR</td>
<td>Moved because of marital status change</td>
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<tr>
<td>WMINFIT</td>
<td>Moved because unit was condemned</td>
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<tr>
<td>WMONHH</td>
<td>Moved to establish own household</td>
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<tr>
<td>WMOTH</td>
<td>Moved for some other reason</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>WMOWNR</td>
<td>Moved because owner taking over unit</td>
<td>Recent Movers</td>
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<tr>
<td>WMPRIV</td>
<td>Moved cause private company/person wants unit</td>
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<tr>
<td>WMQUAL</td>
<td>Moved to obtain higher quality unit</td>
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<tr>
<td>WMREPR</td>
<td>Moved because unit closed for repairs</td>
<td>Recent Movers</td>
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<td>WNFUN</td>
<td>Chose neighborhood for close leisure activity</td>
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<td>WNHOM</td>
<td>Chose neighborhood because of unit</td>
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<td>WNJ OB</td>
<td>Chose neighborhood because close to work</td>
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<tr>
<td>WNLOOK</td>
<td>Chose neighborhood for its looks/design</td>
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October 10, 2006 Variables Listed Alphabetically 45
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>Category</th>
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<tr>
<td>WNOTHR</td>
<td>Chose neighborhood for other reasons</td>
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<td>WNPEPL</td>
<td>Chose neighborhood since close to friends/family</td>
<td>Recent Movers</td>
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<td>WNSCH</td>
<td>Chose neighborhood because of good schools</td>
<td>Recent Movers</td>
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<td>WNSRV</td>
<td>Chose neighborhood for other public services</td>
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<td>WNTRAN</td>
<td>Chose neighborhood since close to Public trans.</td>
<td>Recent Movers</td>
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<td>WTIME</td>
<td>Time usually leave for work</td>
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<td>WTRHRL</td>
<td>Source of inside water leak is broken water heat</td>
<td>Unit Quality</td>
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<td>XCOND</td>
<td>Previous residence was condo/co-op</td>
<td>Recent Movers</td>
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<td>XCOOP</td>
<td>Previous residence was a cooperative</td>
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<td>XCOST</td>
<td>Current housing costs same as old unit</td>
<td>Recent Movers</td>
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<td>XHEAD</td>
<td>Prev unit owned/rented by one who moved here</td>
<td>Recent Movers</td>
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<tr>
<td>XHRATE</td>
<td>Current unit better/worse than old unit</td>
<td>Recent Movers</td>
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<tr>
<td>XINUS</td>
<td>Previous residence outside united states</td>
<td>Recent Movers</td>
</tr>
<tr>
<td>XNRATE</td>
<td>Current neighborhood better/worse than old one</td>
<td>Recent Movers</td>
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<td>XPER</td>
<td>#people living in last unit before move</td>
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<td>XREL</td>
<td>Previous unit owner/rented by relative</td>
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<td>XTN</td>
<td>Tenure of previous residence</td>
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<td>Type of unit of previous residence</td>
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<td>YRMOR</td>
<td>Year 1st mortgage obtained</td>
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<td>YRMOR2</td>
<td>Year 2nd mortgage obtained</td>
<td>Housing Cost</td>
</tr>
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<td>YRRND</td>
<td>Unit suitable for year round use</td>
<td>Unit</td>
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<td>ZADEQ</td>
<td>Recoded adequacy of housing</td>
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<td>ZADULT</td>
<td>Number of adults 18+ in household</td>
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<td>ZINC</td>
<td>Family income</td>
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<td>ZINC2</td>
<td>Household Income</td>
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<td>ZINCH</td>
<td>This month's income same as 1 year ago</td>
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<td>ZINCN</td>
<td>Expected income in next 12 months</td>
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<td>ZMVGRP</td>
<td>Total Number of mover groups in the household</td>
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<td>Defined area of &gt; 100,000 population</td>
<td>Geography</td>
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<tr>
<td>ZSMHC</td>
<td>Monthly housing costs</td>
<td>Housing</td>
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## Variables Listed by Topic

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<tr>
<th>Variable</th>
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<tr>
<td>BBLDG</td>
<td>Type B noninterview building</td>
<td>Sample status, weights, interview status</td>
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<td>BOARDDU</td>
<td>Type B unit boarded up</td>
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<td>CONTROL</td>
<td>Control number</td>
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<td>MOVAC</td>
<td># months unit has been vacant</td>
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<td>NOINT</td>
<td>Noninterview reason</td>
<td>Sample status, weights, interview status</td>
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<td>PWT</td>
<td>Pure weight - inverse of prob of selection</td>
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<td>REUAD</td>
<td>Reason unit got added to sample</td>
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<td>Vacant/URE unit &lt;= 150 miles of owners res.</td>
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<td>Same HU as last enumeration</td>
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<td>SXUREV</td>
<td>Vacant/URE unit was previous residence</td>
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<td>VACVAC</td>
<td>Unit for vacation or other short-term use</td>
<td>Sample status, weights, interview status</td>
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<td>WEIGHT</td>
<td>Final weight based on 1980 Census geography</td>
<td>Sample status, weights, interview status</td>
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<td>Final weight based on 1990 Census geography</td>
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<td>County code</td>
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<td>Central city / suburban status</td>
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<tr>
<td>METRO3</td>
<td>Central city / suburban status</td>
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<td>1990 design PMSA code</td>
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<td>Census tract for 1970, 1980 or 1990 containing case</td>
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<td>Census region</td>
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<td>Variable</td>
<td>Description</td>
<td>Unit</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>ACCESS</td>
<td>Direct access to unit</td>
<td>Unit</td>
</tr>
<tr>
<td>ACCESSB</td>
<td>Entry system required to access building</td>
<td>Unit</td>
</tr>
<tr>
<td>AGERES</td>
<td>Age restricted development</td>
<td>Unit</td>
</tr>
<tr>
<td>AIR</td>
<td>Room air conditioner</td>
<td>Unit</td>
</tr>
<tr>
<td>AIRSYS</td>
<td>Central air conditioner</td>
<td>Unit</td>
</tr>
<tr>
<td>ANYCAR</td>
<td>Wall-to-wall carpeting in any area of unit</td>
<td>Unit</td>
</tr>
<tr>
<td>ANYPNT</td>
<td>Any painting done on inside of unit</td>
<td>Unit</td>
</tr>
<tr>
<td>ANYRUG</td>
<td>Any rugs or carpeting in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>APTFL</td>
<td>Number of floors in the apartment itself</td>
<td>Unit</td>
</tr>
<tr>
<td>ASSTSERV</td>
<td>Manager provides personal care assistance</td>
<td>Unit</td>
</tr>
<tr>
<td>ATBSUN</td>
<td>Number of unfinished attics/basements in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>BATHS</td>
<td>Number of full bathrooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>BDCARP</td>
<td>Wall-to-wall carpeting in bedroom</td>
<td>Unit</td>
</tr>
<tr>
<td>BEDRMS</td>
<td>Number of bedrooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>BEDX</td>
<td>Number of bedrooms with wall-to-wall carpeting</td>
<td>Unit</td>
</tr>
<tr>
<td>BUILT</td>
<td>Year unit was built</td>
<td>Unit</td>
</tr>
<tr>
<td>BURNER</td>
<td>Unit has working built-in cooking burners</td>
<td>Unit</td>
</tr>
<tr>
<td>BUSIN</td>
<td>Number of offices/business rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>BUSPER</td>
<td>#rooms used for business/personal use</td>
<td>Unit</td>
</tr>
<tr>
<td>CELLAR</td>
<td>Unit has a basement</td>
<td>Unit</td>
</tr>
<tr>
<td>CLIMB</td>
<td>Number of floors from main entrance to apartment</td>
<td>Unit</td>
</tr>
<tr>
<td>CONDO</td>
<td>Unit is condominium or cooperative</td>
<td>Unit</td>
</tr>
<tr>
<td>COOK</td>
<td>Unit has working cookstove or range/oven</td>
<td>Unit</td>
</tr>
<tr>
<td>DENS</td>
<td>Number of dens/libraries/tv rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>DINING</td>
<td>Number of dining rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>DIRAC</td>
<td>Number of offices having direct access</td>
<td>Unit</td>
</tr>
<tr>
<td>DISH</td>
<td>Unit has working dishwasher</td>
<td>Unit</td>
</tr>
<tr>
<td>DISPL</td>
<td>Unit has working garbage disposal</td>
<td>Unit</td>
</tr>
<tr>
<td>DRSHOP</td>
<td>Medical office/community store on property</td>
<td>Unit</td>
</tr>
<tr>
<td>DRY</td>
<td>Unit has working clothes dryer</td>
<td>Unit</td>
</tr>
<tr>
<td>DSTEAM</td>
<td>Steam/hot water system-DK if supplemental/parallel</td>
<td>Unit</td>
</tr>
<tr>
<td>DSTOVE</td>
<td>Woodburning stove - DK if supplemental/parallel</td>
<td>Unit</td>
</tr>
<tr>
<td>EBAR</td>
<td>Windows covered with metal bars</td>
<td>Unit</td>
</tr>
<tr>
<td>EHEIGHT</td>
<td>Height of apartment buildings within 1/2 blk</td>
<td>Unit</td>
</tr>
<tr>
<td>ELEV</td>
<td>Working passenger elevator</td>
<td>Unit</td>
</tr>
<tr>
<td>EXCLUS</td>
<td>Number offices used exclusively for business</td>
<td>Unit</td>
</tr>
<tr>
<td>FAMRM</td>
<td>Number of family rooms/great rooms in unit</td>
<td>Unit</td>
</tr>
<tr>
<td>FLOODPLN</td>
<td>Unit in a flood plain</td>
<td>Unit</td>
</tr>
<tr>
<td>FLOORS</td>
<td>Number of stories in building</td>
<td>Unit</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Unit</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>FLOT</td>
<td>Heating equipment vented to outside</td>
<td></td>
</tr>
<tr>
<td>FPINS</td>
<td>Fireplace has inserts</td>
<td></td>
</tr>
<tr>
<td>FPLWK</td>
<td>Unit has useable fireplace</td>
<td></td>
</tr>
<tr>
<td>FRPL</td>
<td>Fireplace does not have inserts</td>
<td></td>
</tr>
<tr>
<td>FRPLI</td>
<td>Fireplace has inserts</td>
<td></td>
</tr>
<tr>
<td>FRSTOC</td>
<td>Current occupants are first occupants</td>
<td></td>
</tr>
<tr>
<td>GARAGE</td>
<td>Garage or carport included with unit</td>
<td></td>
</tr>
<tr>
<td>HALB</td>
<td>Additional half bathrooms in unit</td>
<td></td>
</tr>
<tr>
<td>HALFB</td>
<td>Number of half bathrooms in unit</td>
<td></td>
</tr>
<tr>
<td>HOTPIP</td>
<td>Unit has hot &amp; cold running water</td>
<td></td>
</tr>
<tr>
<td>INCP</td>
<td>Offstreet parking included</td>
<td></td>
</tr>
<tr>
<td>KEXCLU</td>
<td>Kitchen facilities for household use only</td>
<td></td>
</tr>
<tr>
<td>KITCH</td>
<td>Number of kitchens in unit</td>
<td></td>
</tr>
<tr>
<td>KITCHEN</td>
<td>Complete kitchen facilities in unit</td>
<td></td>
</tr>
<tr>
<td>LAT70S</td>
<td>Year unit built in late 1970s</td>
<td></td>
</tr>
<tr>
<td>LAUNDY</td>
<td>Number of laundry/utility rooms in unit</td>
<td></td>
</tr>
<tr>
<td>LIVING</td>
<td>Number of living rooms in unit</td>
<td></td>
</tr>
<tr>
<td>LOT</td>
<td>Square footage of lot</td>
<td></td>
</tr>
<tr>
<td>LVCARP</td>
<td>Wall-to-wall carpeting in living room</td>
<td></td>
</tr>
<tr>
<td>MOBILTYP</td>
<td>Manufactured/mobile home type</td>
<td></td>
</tr>
<tr>
<td>MOPERM</td>
<td># months since occupied as permanent home</td>
<td></td>
</tr>
<tr>
<td>NOOOTHRM</td>
<td>No other rooms in unit</td>
<td></td>
</tr>
<tr>
<td>NUMAIR</td>
<td>Number of room air conditioners</td>
<td></td>
</tr>
<tr>
<td>NUNIT2</td>
<td>Structure type</td>
<td></td>
</tr>
<tr>
<td>NUNIT5</td>
<td>Number of units in building</td>
<td></td>
</tr>
<tr>
<td>OARSYS</td>
<td>Unit has another central a/c system</td>
<td></td>
</tr>
<tr>
<td>OBEDRM</td>
<td>Number of offices used for bedroom</td>
<td></td>
</tr>
<tr>
<td>ODIN</td>
<td>Number of offices used as dining room</td>
<td></td>
</tr>
<tr>
<td>ODIRAC</td>
<td>Number of offices having direct access</td>
<td></td>
</tr>
<tr>
<td>OKITCH</td>
<td>Number of offices used for kitchen</td>
<td></td>
</tr>
<tr>
<td>OLIVIN</td>
<td>Number of offices used for living room</td>
<td></td>
</tr>
<tr>
<td>OOTHRM</td>
<td>Number of offices used for other room</td>
<td></td>
</tr>
<tr>
<td>OTBUP</td>
<td>Other building on property used as living quarters</td>
<td></td>
</tr>
<tr>
<td>OTHFN</td>
<td>Number of other finished rooms in unit</td>
<td></td>
</tr>
<tr>
<td>OTHLQ</td>
<td>Other living quarters on property</td>
<td></td>
</tr>
<tr>
<td>OTHLQ1</td>
<td>Other apartments in building</td>
<td></td>
</tr>
<tr>
<td>OTHLQ2</td>
<td>Other apartments in building</td>
<td></td>
</tr>
<tr>
<td>OTHRUN</td>
<td>Number of other unfinished rooms in unit</td>
<td></td>
</tr>
<tr>
<td>OVEN</td>
<td>Unit has a working microwave oven</td>
<td></td>
</tr>
<tr>
<td>OWNHERE</td>
<td>Owner/resident manager lives on-site</td>
<td></td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Unit</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>OWNLOT</td>
<td>Household owns the land</td>
<td></td>
</tr>
<tr>
<td>PERSERV</td>
<td>Management provides personal care assistance</td>
<td></td>
</tr>
<tr>
<td>PHONE</td>
<td>Telephone available for use</td>
<td></td>
</tr>
<tr>
<td>PLUGS</td>
<td>Every room has working electrical plug</td>
<td></td>
</tr>
<tr>
<td>PORCH</td>
<td>Unit has porch/deck/balcony/patio</td>
<td></td>
</tr>
<tr>
<td>PUBSEW</td>
<td>Unit connected to public sewer</td>
<td></td>
</tr>
<tr>
<td>RECRM</td>
<td>Number of recreation rooms in unit</td>
<td></td>
</tr>
<tr>
<td>REFR</td>
<td>Unit has a working refrigerator</td>
<td></td>
</tr>
<tr>
<td>ROOMS</td>
<td>Number of rooms in unit</td>
<td></td>
</tr>
<tr>
<td>ROOMSA</td>
<td>Rooms used for both business &amp; other</td>
<td></td>
</tr>
<tr>
<td>ROOMSB</td>
<td>Number of rooms used for both business &amp; other</td>
<td></td>
</tr>
<tr>
<td>SEWDIS</td>
<td>Type of sewage disposal</td>
<td></td>
</tr>
<tr>
<td>SEWDUS</td>
<td>Number of units connected to sewage system</td>
<td></td>
</tr>
<tr>
<td>SHARAT</td>
<td>Unit shares attic or basement</td>
<td></td>
</tr>
<tr>
<td>SHARFR</td>
<td>Unit shares furnace or boiler</td>
<td></td>
</tr>
<tr>
<td>SINVV</td>
<td>Own vacant/URE unit as an investment</td>
<td></td>
</tr>
<tr>
<td>SOTHV</td>
<td>Own vacant/URE unit for some other reason</td>
<td></td>
</tr>
<tr>
<td>SRECV</td>
<td>Own vacant/URE unit for recreation</td>
<td></td>
</tr>
<tr>
<td>SRENTV</td>
<td>Number of nights vacant/URE unit was rented out</td>
<td></td>
</tr>
<tr>
<td>SSELV</td>
<td>Want to sell vacant/URE unit - not sold yet</td>
<td></td>
</tr>
<tr>
<td>STEAM</td>
<td>Steam system used as supplemental heating equipment</td>
<td></td>
</tr>
<tr>
<td>STORG</td>
<td>Number of storage rooms/pantries in unit</td>
<td></td>
</tr>
<tr>
<td>TELAV</td>
<td>Telephone available elsewhere</td>
<td></td>
</tr>
<tr>
<td>TELHH</td>
<td>Telephone in housing unit</td>
<td></td>
</tr>
<tr>
<td>TENURE</td>
<td>Owner/renter status of unit</td>
<td></td>
</tr>
<tr>
<td>TIMSHR</td>
<td>Ownership of unit time shared</td>
<td></td>
</tr>
<tr>
<td>TRASH</td>
<td>Unit has working built-in trash compacter</td>
<td></td>
</tr>
<tr>
<td>TUB</td>
<td>Unit has a bathtub or shower</td>
<td></td>
</tr>
<tr>
<td>TYPE</td>
<td>Structure type</td>
<td></td>
</tr>
<tr>
<td>UNITSF</td>
<td>Square footage of unit</td>
<td></td>
</tr>
<tr>
<td>VACANCY</td>
<td>Vacancy status</td>
<td></td>
</tr>
<tr>
<td>WASH</td>
<td>Unit has a working washing machine</td>
<td></td>
</tr>
<tr>
<td>WATER</td>
<td>Source of water for unit</td>
<td></td>
</tr>
<tr>
<td>WATERD</td>
<td>Source of drinking water</td>
<td></td>
</tr>
<tr>
<td>WELDUS</td>
<td>Number of units this water source serves</td>
<td></td>
</tr>
<tr>
<td>WELL</td>
<td>Well drilled or dug</td>
<td></td>
</tr>
<tr>
<td>WFPROP</td>
<td>Unit is waterfront property</td>
<td></td>
</tr>
<tr>
<td>WHNGET</td>
<td>Year unit bought/obtained/received</td>
<td></td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Unit</td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>YRRND</td>
<td>Unit suitable for year round use</td>
<td>Unit</td>
</tr>
<tr>
<td>BADSTEP</td>
<td>Loose/broken/missing steps in common stairs</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BDSTPQ</td>
<td>Loose/broken/missing steps in common stairs</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BLDMNT</td>
<td>Satisfaction with building maintenance</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BLEAK</td>
<td>Water leak in basement</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>BSINK</td>
<td>Unit has a bathroom sink</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>CRACKS</td>
<td>Open cracks wider than dime</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>DFIRE</td>
<td>Type C-30/31 severely damaged by fire</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>DISAS</td>
<td>Type C severely damaged by natural disaster</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>DORREP</td>
<td>Any doors repaired/replaced in unit</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EBOARD</td>
<td>Windows boarded up</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EBROKE</td>
<td>Windows broken</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ECRUMB</td>
<td>Holes/cracks or crumbling in foundation</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EGOOD</td>
<td>No listed conditions seen in/on unit</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EHOLE</td>
<td>Roof has holes</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ELEVVK</td>
<td>At least one elevator in working order</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EMISSR</td>
<td>Roof missing shingles/other roofing materials</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EMISSW</td>
<td>Outside walls missing siding/bricks/etc</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ESAGR</td>
<td>Roof's surface sags or is uneven</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ESLOPW</td>
<td>Outside walls slope/lean/slat/buckle</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EVROD</td>
<td>Evidence of rodents in unit</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>EXPOSE</td>
<td>Type B interior exposed to elements</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>FREEZE</td>
<td>Unit cold for 24+ hrs was uncomfortable</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>GRDMNT</td>
<td>Satisfaction with grounds maintenance</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>HOLES</td>
<td>Holes in floor</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>HOWH</td>
<td>Rating of unit as a place to live</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IFBLOW</td>
<td>Fuses blown or circuit breakers tripped</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IFCOLD</td>
<td>Main heating equipment broke down</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IFDRY</td>
<td>Unit completely without running water</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IFSEW</td>
<td>Sewage system broke down</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IFTLT</td>
<td>Any toilet breakdowns in last 3 months</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>ILEAK</td>
<td>Any inside water leaks in last 12 months</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>IMAINT</td>
<td>Receive adequate maintenance</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>LEAK</td>
<td>Any outside water leaks in last 12 months</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>LTSOK</td>
<td>Hallway lights working</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>LTSOK1</td>
<td>Hallway lights working</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>LTSOK2</td>
<td>All hallway lights working</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>M3ROD</td>
<td>Rodents seen in unit recently</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>MAJR1</td>
<td>Starts major maintenance/repairs soon enough</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
<td>Unit Quality</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>MAJR2</td>
<td>Solves major problems quickly</td>
<td></td>
</tr>
<tr>
<td>MAJR3</td>
<td>Polite/considerate of home (major repairs)</td>
<td></td>
</tr>
<tr>
<td>MICE</td>
<td>Mice seen in unit recently</td>
<td></td>
</tr>
<tr>
<td>MINR1</td>
<td>Starts minor maintenance/repairs soon enough</td>
<td></td>
</tr>
<tr>
<td>MINR2</td>
<td>Solves minor problems quickly</td>
<td></td>
</tr>
<tr>
<td>MINR3</td>
<td>Polite/considerate of home (minimum repairs)</td>
<td></td>
</tr>
<tr>
<td>NLEAK1</td>
<td>Inside water leak from some other source</td>
<td></td>
</tr>
<tr>
<td>NLEAK2</td>
<td>Source of inside water leak unknown</td>
<td></td>
</tr>
<tr>
<td>NOTSUR</td>
<td>Not sure if rodents were rats or mice</td>
<td></td>
</tr>
<tr>
<td>NOWIRE</td>
<td>Electrical wiring concealed by walls/wiring</td>
<td></td>
</tr>
<tr>
<td>NUMBLOW</td>
<td>#times fuses blown or breakers tripped</td>
<td></td>
</tr>
<tr>
<td>NUMCOLD</td>
<td>#times main heating equipment broke down</td>
<td></td>
</tr>
<tr>
<td>NUMDRY</td>
<td>#times completely without running water</td>
<td></td>
</tr>
<tr>
<td>NUMSEW</td>
<td>Number of sewage system breakdowns</td>
<td></td>
</tr>
<tr>
<td>NUMTLT</td>
<td>Number of toilet breakdowns 6 hours or more</td>
<td></td>
</tr>
<tr>
<td>OMAINT</td>
<td>Buildings &amp; grounds maintained properly</td>
<td></td>
</tr>
<tr>
<td>OTHCLD</td>
<td>Unit cold for some other reason</td>
<td></td>
</tr>
<tr>
<td>OTLEAK</td>
<td>Water leak from other outside source</td>
<td></td>
</tr>
<tr>
<td>PILEAK</td>
<td>Inside water leak from leaking pipes</td>
<td></td>
</tr>
<tr>
<td>PLEAK</td>
<td>Inside water leak from plumbing fixtures</td>
<td></td>
</tr>
<tr>
<td>PLUMB</td>
<td>Complete plumbing facilities in unit</td>
<td></td>
</tr>
<tr>
<td>RAILOK</td>
<td>Railings on common stairs firmly attached</td>
<td></td>
</tr>
<tr>
<td>RAILOK1</td>
<td>Railings on stairs firmly attached</td>
<td></td>
</tr>
<tr>
<td>RAILOK2</td>
<td>All stair railings firmly attached</td>
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<td>RATS</td>
<td>Rats seen in unit recently</td>
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<tr>
<td>RLEAK</td>
<td>Water leak in roof</td>
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<tr>
<td>TALWIR</td>
<td>Aluminum wiring inspected before purchase</td>
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<tr>
<td>TASB</td>
<td>Unit tested for asbestos before purchase</td>
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<tr>
<td>TOILET</td>
<td>Unit has a flush toilet</td>
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<tr>
<td>TRADON</td>
<td>Unit tested for radon before purchase</td>
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<tr>
<td>TREP</td>
<td>Repairs made because of inspection/test</td>
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<tr>
<td>TWATER</td>
<td>Water quality tested before purchase</td>
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<td>WATERS</td>
<td>Water safe for drinking &amp; cooking</td>
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<td>WHYCD1</td>
<td>Unit cold due to utility interruption</td>
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<td>WHYCD2</td>
<td>Unit cold due to inadeq. heating capacity</td>
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<td>WHYCD3</td>
<td>Unit cold due to inadequate insulation</td>
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<td>WHYCD4</td>
<td>Unit cold due to cost of heating</td>
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<tr>
<td>WHYCD5</td>
<td>Unit cold because of some other reason</td>
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<td>WLEAK</td>
<td>Water leak in wall or closed door/window</td>
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<td>WTRHRL</td>
<td>Source of inside water leak is broken water heat</td>
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<td>Amount of other charges included in 1st mortgage</td>
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<td>2nd mortgage changes due to interest rate</td>
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<td>1st mortgage changes for other reason</td>
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<td>2nd mortgage changes for other reason</td>
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<td>BANK</td>
<td>1st mortgage borrowed from bank</td>
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<td>BANK2</td>
<td>2nd mortgage borrowed from bank</td>
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<td>BLOON</td>
<td>1st mortgage's last payment biggest</td>
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<td>2nd mortgage's last payment biggest</td>
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<td>BUYI</td>
<td>Household has homeowners insurance</td>
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<td>BUYT</td>
<td>Pay for garbage/trash separately</td>
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<td>Pay for garbage/trash separately</td>
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<td>Pay for water/sewage separately</td>
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<td>Pay for water/sewage separately</td>
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<td>Term of 2nd mortgage can vary</td>
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<td>Monthly condo/homeowner's association/mobile home fee</td>
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<td>Cost of construction plus value of land</td>
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<td>Annual cost for routine maintenance</td>
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<td>Main source of downpayment on unit</td>
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<td>2nd mortgage refinanced to renew/extend</td>
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<td>1st mortgage refinanced to renew/extend</td>
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<td>1st mortgage changes for taxes/insurance</td>
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<td>FIXED2</td>
<td>2nd mortgage changes for taxes/insurance</td>
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<td>Frequency of land/site rent payment</td>
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<td>FMHOTF</td>
<td>Frequency of other mobile home fee payments</td>
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<td>Frequency of rent payment</td>
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<td>1st mortgage payments rise on fixed schedule part</td>
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<td>2nd mortgage payments rise on fixed schedule part</td>
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<td>GPMW</td>
<td>1st mortgage payments rise on fixed schedule whole</td>
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<td>GPMW2</td>
<td>2nd mortgage payments rise on fixed schedule whole</td>
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<td>GTCAS2</td>
<td>2nd mortgage refinanced to receive cash</td>
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<td>GTCASH</td>
<td>1st mortgage refinanced to receive cash</td>
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<td>HEARHS</td>
<td>How first heard about this unit</td>
<td>Housing Cost</td>
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<td>HEBAL1</td>
<td>Outstanding loan against 1st home equity loan</td>
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<td>HEBAL2</td>
<td>Outstanding loan against 2nd home equity loan</td>
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<td>HEBAL3</td>
<td>Outstanding loan against 3rd home equity loan</td>
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<td>Outstanding balance on 1st home equity loan</td>
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<td>Outstanding balance on 2nd home equity loan</td>
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<td>Outstanding balance on 3rd home equity loan</td>
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<td>Credit limit on 1st home equity loan</td>
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<td>Credit limit on 2nd home equity loan</td>
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<td>HECR3</td>
<td>Credit limit on 3rd home equity loan</td>
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<td>HEINF1</td>
<td>Interest rate on 1st home equity loan - fraction</td>
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<td>Interest rate on 2nd home equity loan - fraction</td>
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<td>Interest rate on 3rd home equity loan - fraction</td>
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<td>HEINW1</td>
<td>Interest rate on 1st home equity loan - whole #</td>
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<td>Interest rate on 2nd home equity loan - whole #</td>
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<td>HEINW3</td>
<td>Interest rate on 3rd home equity loan - whole #</td>
<td>Housing Cost</td>
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<td>HEL</td>
<td>Has a home equity loan</td>
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<td>HELC</td>
<td>Has a home equity line of credit</td>
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<td>HELCN</td>
<td>Number of home equity lines of credit</td>
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<tr>
<td>HELMP1</td>
<td>1st home equity loan lump sum</td>
<td>Housing Cost</td>
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<td>HELMP2</td>
<td>2nd home equity loan lump sum</td>
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<td>HELMP3</td>
<td>3rd home equity loan lump sum</td>
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<td>HELUMN</td>
<td>Number of lump sum home equity loans</td>
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<td>Has a lump sum home equity loan</td>
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<td>HENUM</td>
<td>Number of home equity loans</td>
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<td>HEPMT1</td>
<td>1st home equity loan monthly payment</td>
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<td>HEPMT3</td>
<td>3rd home equity loan monthly payment</td>
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<td>1st home equity loan type</td>
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<td>HETYP2</td>
<td>2nd home equity loan type</td>
<td>Housing Cost</td>
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</tbody>
</table>
HETYP3  3rd home equity loan type
IFFEE  Condo/co-op/assoc/mobile home park fee required
IMPROV  Funds from 1st home equity loan used for additions/improvements
IMPRV2  Funds from 2nd home equity loan used for additions/improvements
INCPER  1st mortgage refinanced to increase payment
INCR2  2nd mortgage refinanced to increase payment
INCS  Pay separate rent for land
INPMT2  2nd mortgage payment includes insurance
INSPMT  1st mortgage payment includes insurance
INTF  Interest rate of 1st mortgage - fraction
INTF2  Interest rate of 2nd mortgage - fraction
INTW  Interest rate of 1st mortgage - whole #
INTW2  Interest rate of 2nd mortgage - whole #
LANDC  Land contract for mortgage
LANPMT  Land rent included with mortgage payment
LOOKHS  Looked at both houses/mobile home & apartments
LOOKNS  Looked at other neighborhoods
LOON  % of 1st mortgage due in last payment
LOON2  % of 2nd mortgage due in last payment
LOWIN2  2nd mortgage refinanced to get lower interest
LOWINT  1st mortgage refinanced to get lower interest
LPRICE  Purchase price of unit and land
LRENT  Land/site rent
LVALUE  Current value of land
MATBUY  Got 1st mortgage in same year bought unit
MATBY2  Got 2nd mortgage in same year bought unit
MCNT  Number of regular mortgages
MCOM  1st mortgage covers business on property
MCOM2  2nd mortgage covers business on property
MFARM  1st mortgage covers farm land
MFARM2  2nd mortgage covers farm land
MG  Any mortgages on this property
MH32  Mobile home on property used for living quarters
MHOTFE  Amount of other required mobile home fees
MORTIN  Type of 1st mortgage
MORTN2  Type of 2nd mortgage
MRTYP1  Type of 1st mortgage
MRTYP2  Type of 2nd mortgage
NEWMOR  1st mortgage new or assumed
NEWMR2  2nd mortgage new or assumed
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<td>Number of mortgages including home equity loans</td>
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<td>OTHREF</td>
<td>1st mortgage refinanced for other reason</td>
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<td>OTPMT2</td>
<td>Other charges including in 2nd mortgage payment</td>
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<td>OTREF2</td>
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<td>Percentage of 1st mortgage loan used for additions/improvements</td>
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<td>Household income as percent of poverty line</td>
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<td>Has reserve annuity or home equity conversion mortgage</td>
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<td>Heard of reverse annuity mortgage</td>
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<td>REDMON</td>
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<td>Reason for refinancing reduced payment of 2nd</td>
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<td>Reason for refinancing reduced payment of 1st</td>
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<td>Amount reported for payment period in FRENT</td>
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<td>Amount of 1st mortgage applies only to unit</td>
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<td>Borrowed 1st mortgage from former owner</td>
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<td>Borrowed 2nd mortgage from former owner</td>
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<td>Government program provides 3rd mortgage</td>
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<td>How got to live in public housing</td>
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<td>CITSHP</td>
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<td>Line Number of respondent</td>
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<td>FRSTHO</td>
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<td>HHTEN</td>
<td>Householder is owner/renter of unit</td>
</tr>
<tr>
<td>HHWLNEQ</td>
<td>Householder worked at all last week</td>
</tr>
<tr>
<td>INUSYR</td>
<td>Year came to U.S.</td>
</tr>
<tr>
<td>LIVEAT</td>
<td>Everyone in household lives or eats together</td>
</tr>
<tr>
<td>LONGIT</td>
<td>Characteristics of household in 70/80/90</td>
</tr>
<tr>
<td>MAR</td>
<td>Marital status of person</td>
</tr>
<tr>
<td>NATVTY</td>
<td>Country of birth</td>
</tr>
<tr>
<td>NOSTEP</td>
<td>Entrance accessible w/o steps or stairs</td>
</tr>
<tr>
<td>NROWNR</td>
<td>Ownership shared w/ person not living here</td>
</tr>
<tr>
<td>NRPAYM</td>
<td>Person not living here help pay mortgage/util</td>
</tr>
<tr>
<td>PAR</td>
<td>Line number of parent of person</td>
</tr>
<tr>
<td>PER</td>
<td>Number of persons in household</td>
</tr>
<tr>
<td>PERSINT</td>
<td>Personal/telephone interview</td>
</tr>
<tr>
<td>PERSON</td>
<td>Line number of person</td>
</tr>
<tr>
<td>PLINE</td>
<td>Line number of person</td>
</tr>
<tr>
<td>PREOCC</td>
<td>Received unit as gift or purchased it</td>
</tr>
<tr>
<td>QIDRI</td>
<td>(FAM)Interest/rental/royalty/estate income</td>
</tr>
<tr>
<td>QOTALM</td>
<td>(FAM)VA/unemploy/child support/alim/other</td>
</tr>
<tr>
<td>QRETIR</td>
<td>(FAM)Received retirement or survivor pension</td>
</tr>
<tr>
<td>QSELF</td>
<td>(FAM)Received self-employment income</td>
</tr>
<tr>
<td>QSSI</td>
<td>(FAM)Received supplemental security income</td>
</tr>
<tr>
<td>RACE</td>
<td>Race of person</td>
</tr>
<tr>
<td>REL</td>
<td>Relationship of person to reference person</td>
</tr>
<tr>
<td>REMP</td>
<td>Employed by household</td>
</tr>
<tr>
<td>RESPTYP</td>
<td>Type of respondent</td>
</tr>
<tr>
<td>SAMEHH</td>
<td>Same household members live in unit</td>
</tr>
<tr>
<td>SAMEHH2</td>
<td>Same household members live in unit (recode)</td>
</tr>
<tr>
<td>SCHNO</td>
<td>Nobody in household attends school</td>
</tr>
<tr>
<td>SCHOTH</td>
<td>Someone in household attends other type of school</td>
</tr>
<tr>
<td>SCHPRI1</td>
<td>Someone in household attends private school</td>
</tr>
<tr>
<td>SCHPUB</td>
<td>Someone in household attends public school</td>
</tr>
<tr>
<td>SEX</td>
<td>Sex of person</td>
</tr>
<tr>
<td>SNITEV</td>
<td>Number of nights owner spends at vacant/URE unit</td>
</tr>
<tr>
<td>SPAN</td>
<td>Spanish origin of person</td>
</tr>
<tr>
<td>SPOS</td>
<td>Line number of spouse of person</td>
</tr>
<tr>
<td>STATUS</td>
<td>Interview status</td>
</tr>
<tr>
<td>TEN</td>
<td>This person is owner/renter of unit</td>
</tr>
<tr>
<td>WHDY</td>
<td>Number of days worked at home</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>WHHRB</td>
<td># hours worked at home (self-employed)</td>
</tr>
<tr>
<td>WHHRW</td>
<td># hours worked at home (wage &amp; salary)</td>
</tr>
<tr>
<td>WHOHOME</td>
<td>Work at home for employer</td>
</tr>
<tr>
<td>WINUS</td>
<td>Place of work outside the U.S.</td>
</tr>
<tr>
<td>WLINEQ</td>
<td>Work at all last week</td>
</tr>
<tr>
<td>ZADULT</td>
<td>Number of adults 18+ in household</td>
</tr>
<tr>
<td>ZMVGRP</td>
<td>Total Number of mover groups in the household</td>
</tr>
<tr>
<td>CROPSL</td>
<td>Receive farm income</td>
</tr>
<tr>
<td>FOOD</td>
<td>Meals included in rent paid to household</td>
</tr>
<tr>
<td>HHFOOD</td>
<td>Lodger contributes to household for food</td>
</tr>
<tr>
<td>HHMORT</td>
<td>Lodger contributes to household for mortgage/rent</td>
</tr>
<tr>
<td>HHOTH</td>
<td>Lodger contributes to household for other costs</td>
</tr>
<tr>
<td>HHUTFU</td>
<td>Lodger contributes to household for utilities</td>
</tr>
<tr>
<td>INV20K</td>
<td>Total savings/investments over $25,000</td>
</tr>
<tr>
<td>LODRNT</td>
<td>Amount lodger pays to household</td>
</tr>
<tr>
<td>LODSTA</td>
<td>Lodger pays fixed amount to household</td>
</tr>
<tr>
<td>LT25K</td>
<td>Income in last 12 months over $25,000</td>
</tr>
<tr>
<td>OTHEST</td>
<td>Anyone home who can estimate nonrelative income</td>
</tr>
<tr>
<td>PQIDRI</td>
<td>Received interest, dividends, royalty income</td>
</tr>
<tr>
<td>PQOTALM</td>
<td>Received VA/unemployment/child support/alimony/other income</td>
</tr>
<tr>
<td>PQOTHNR</td>
<td>Other income received by nonrelative</td>
</tr>
<tr>
<td>PQRETIR</td>
<td>Received retirement or survivor pension</td>
</tr>
<tr>
<td>PQSAL</td>
<td>Wages/salary received by reference person/relative</td>
</tr>
<tr>
<td>PQSALNR</td>
<td>Salary received by nonrelative</td>
</tr>
<tr>
<td>PQSELF</td>
<td>Received self-employment income</td>
</tr>
<tr>
<td>PQSELFNFR</td>
<td>Received self-employment income by nonrelative</td>
</tr>
<tr>
<td>PQSS</td>
<td>Received Social Security or Railroad Retirement pension</td>
</tr>
<tr>
<td>PQSSI</td>
<td>Received Supplemental Security Income</td>
</tr>
<tr>
<td>PQWELF</td>
<td>Received SSI, AFDC, other welfare</td>
</tr>
<tr>
<td>PQWKCMP</td>
<td>Received SSDI, work, comp., vet. or other disability payments</td>
</tr>
<tr>
<td>PVOTHER</td>
<td>Sum of a person's other income</td>
</tr>
<tr>
<td>QALIM</td>
<td>Received alimony or child support</td>
</tr>
<tr>
<td>QBINV</td>
<td>Household has farm or business investments</td>
</tr>
<tr>
<td>QBUS</td>
<td>Received income from business/farm/ranch</td>
</tr>
<tr>
<td>QDIV</td>
<td>Received dividends from stock</td>
</tr>
<tr>
<td>QFS1</td>
<td>Received food stamps in last 12 months</td>
</tr>
<tr>
<td>QINT</td>
<td>Received interest from savings, cd, etc</td>
</tr>
<tr>
<td>QMEN</td>
<td>Any income not already mentioned</td>
</tr>
<tr>
<td>QOINV</td>
<td>Household has other investments</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>QOTHER</td>
<td>Received unemployment/vet payments/other inc</td>
</tr>
<tr>
<td>QRENT</td>
<td>Received rental income</td>
</tr>
<tr>
<td>QSAVNG</td>
<td>Household has savings</td>
</tr>
<tr>
<td>QSS</td>
<td>Received social security or pension</td>
</tr>
<tr>
<td>QWELF</td>
<td>Received ssi, afdc, other welfare</td>
</tr>
<tr>
<td>QWKCMP</td>
<td>Received workers company or other disability</td>
</tr>
<tr>
<td>RCARP</td>
<td>Receive help w/ transportation expenses</td>
</tr>
<tr>
<td>RCLLOT</td>
<td>Receive help with clothing expenses</td>
</tr>
<tr>
<td>RCOST</td>
<td>Receive help with rent payments</td>
</tr>
<tr>
<td>REPRA</td>
<td>Report income to public housing authority</td>
</tr>
<tr>
<td>RGROC</td>
<td>Receive help with grocery bills</td>
</tr>
<tr>
<td>RKIDC</td>
<td>Receive help with child care payments</td>
</tr>
<tr>
<td>RMEDI</td>
<td>Receive help with medical bills</td>
</tr>
<tr>
<td>RNTDUE</td>
<td>Frequency of lodger's rent payment to household</td>
</tr>
<tr>
<td>ROTHER</td>
<td>Received other assistance making ends meet</td>
</tr>
<tr>
<td>RUTIL</td>
<td>Receive help with utility bills</td>
</tr>
<tr>
<td>SAL</td>
<td>Wage &amp; salary income of person</td>
</tr>
<tr>
<td>SUBRNT1</td>
<td>Government subsidizes rent for unit</td>
</tr>
<tr>
<td>SUBRNT2</td>
<td>Government subsidizes rent for unit</td>
</tr>
<tr>
<td>VCHER</td>
<td>Received voucher to help pay rent</td>
</tr>
<tr>
<td>VOTHER</td>
<td>Total amount of other income</td>
</tr>
<tr>
<td>ZINC</td>
<td>Family income</td>
</tr>
<tr>
<td>ZINC2</td>
<td>Household Income</td>
</tr>
<tr>
<td>ZINCN</td>
<td>Expected income in next 12 months</td>
</tr>
<tr>
<td>ACCESSC</td>
<td>Entry system required to access community</td>
</tr>
<tr>
<td>BADPER</td>
<td>People in neighborhood are bothersome</td>
</tr>
<tr>
<td>BADPRP</td>
<td>Undesirable neighborhood/property bothersome</td>
</tr>
<tr>
<td>BADSRV</td>
<td>Poor city/county services are bothersome</td>
</tr>
<tr>
<td>COMMRECR</td>
<td>Community recreational facilities available</td>
</tr>
<tr>
<td>COMMSERV</td>
<td>Community services provided</td>
</tr>
<tr>
<td>CRIMEA</td>
<td>Neighborhood has neighborhood crime</td>
</tr>
<tr>
<td>CRIMEB</td>
<td>Neighborhood crime bothersome</td>
</tr>
<tr>
<td>CRIMEC</td>
<td>Crime so bad you want to move</td>
</tr>
<tr>
<td>EABAN</td>
<td>Abandoned/vandalized buildings within 1/2 blk</td>
</tr>
<tr>
<td>EAGE</td>
<td>Unit about same age as nearby units</td>
</tr>
<tr>
<td>EAPBL</td>
<td>Apartment buildings within 1/2 block of unit</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>EBARCL</td>
<td>Buildings w/ bars on windows within 1/2 blk</td>
</tr>
<tr>
<td>ECOM1</td>
<td>Business/institutions within 1/2 block</td>
</tr>
<tr>
<td>ECOM2</td>
<td>Factories/other industry within 1/2 block</td>
</tr>
<tr>
<td>EGREEN</td>
<td>Open spaces within 1/2 block of unit</td>
</tr>
<tr>
<td>EHIGH</td>
<td>Apartment buildings 7+ stories tall within 1/2 blk</td>
</tr>
<tr>
<td>EJUNK</td>
<td>Trash/junk in streets/properties in 1/2 blk</td>
</tr>
<tr>
<td>ELOW1</td>
<td>Single-family town/rowhouses in 1/2 blk</td>
</tr>
<tr>
<td>ELOW2</td>
<td>Apartment buildings &lt;4 stories tall within 1/2 blk</td>
</tr>
<tr>
<td>EMID</td>
<td>Apartment buildings 4-6 stories within 1/2 block</td>
</tr>
<tr>
<td>EMOBIL</td>
<td>Mobile homes within 1/2 block of unit</td>
</tr>
<tr>
<td>EPRKG</td>
<td>Parking lots within 1/2 block of unit</td>
</tr>
<tr>
<td>EPRKGA</td>
<td>Nearby parking lots useable by anyone</td>
</tr>
<tr>
<td>EPRKGR</td>
<td>Nearby parking lots for residents only</td>
</tr>
<tr>
<td>EPRKGS</td>
<td>Nearby parking lots for shoppers/workers</td>
</tr>
<tr>
<td>EROAD</td>
<td>Roads within 1/2 block need repairs</td>
</tr>
<tr>
<td>ESFD</td>
<td>Single family homes within 1/2 block</td>
</tr>
<tr>
<td>ETRANS</td>
<td>Railroad/airport/4-lane hwy within 1/2 block</td>
</tr>
<tr>
<td>EWATER</td>
<td>Bodies of water within 1/2 block of unit</td>
</tr>
<tr>
<td>GATED</td>
<td>Walls/fences surrounding community</td>
</tr>
<tr>
<td>HOWN</td>
<td>Rating of neighborhood as place to live</td>
</tr>
<tr>
<td>LITTER</td>
<td>Litter in neighborhood bothersome</td>
</tr>
<tr>
<td>NEWTRN</td>
<td>Neighborhood Public transportation satisfactory</td>
</tr>
<tr>
<td>NOISE</td>
<td>Noise in neighborhood is bothersome</td>
</tr>
<tr>
<td>NOISN1</td>
<td>Hear neighbors through floor/walls/ceiling</td>
</tr>
<tr>
<td>NOISN2</td>
<td>Loudness of neighbor's noise bothersome</td>
</tr>
<tr>
<td>NOISN3</td>
<td>Timing of neighbor's noise bothersome</td>
</tr>
<tr>
<td>NOPROB</td>
<td>Nothing bothersome in neighborhood</td>
</tr>
<tr>
<td>NORC</td>
<td>Majority of neighbors 55+</td>
</tr>
<tr>
<td>NPROBS</td>
<td>Anything bothersome in neighborhood</td>
</tr>
<tr>
<td>ODORA</td>
<td>Neighborhood has bad smells</td>
</tr>
<tr>
<td>ODORB</td>
<td>Neighborhood smells are bothersome</td>
</tr>
<tr>
<td>ODORC</td>
<td>Smells are so bad you want to move</td>
</tr>
<tr>
<td>OTHNHD</td>
<td>Other problems bothersome in neighborhood</td>
</tr>
<tr>
<td>SATPOL</td>
<td>Neighborhood police protection satisfactory</td>
</tr>
<tr>
<td>SCH</td>
<td>Neighborhood public Elementary school satisfactory</td>
</tr>
<tr>
<td>SCHCLS</td>
<td>Neighborhood public Elementary school within 1 mile</td>
</tr>
<tr>
<td>SCHM</td>
<td>Public Elementary school so bad you want to move</td>
</tr>
<tr>
<td>SHARPF</td>
<td>Unit shares plumbing facilities</td>
</tr>
<tr>
<td>SHP</td>
<td>Neighborhood shopping satisfactory</td>
</tr>
<tr>
<td>SHPCLS</td>
<td>Neighborhood stores within 1 mile</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>STRNA</td>
<td>Neighborhood has heavy street noise/traffic</td>
</tr>
<tr>
<td>STRNB</td>
<td>Neighborhood street noise/traffic bothersome</td>
</tr>
<tr>
<td>STRNC</td>
<td>St. noise/traffic so bad you want to move</td>
</tr>
<tr>
<td>AFUEL</td>
<td>Type of fuel used for air conditioning</td>
</tr>
<tr>
<td>AFUR</td>
<td>Forced air furnace as supplemental heating equipment</td>
</tr>
<tr>
<td>AMTE</td>
<td>Average monthly cost of electricity</td>
</tr>
<tr>
<td>AMTF</td>
<td>Annual cost of other fuels</td>
</tr>
<tr>
<td>AMTG</td>
<td>Average monthly cost of gas</td>
</tr>
<tr>
<td>AMTO</td>
<td>Annual cost of fuel oil</td>
</tr>
<tr>
<td>BILLF</td>
<td>Type of billing for other fuels</td>
</tr>
<tr>
<td>BILLFE</td>
<td>Other fuels billed with electricity</td>
</tr>
<tr>
<td>BILLFG</td>
<td>Other fuels billed with gas</td>
</tr>
<tr>
<td>BILLFO</td>
<td>Other fuels billed with fuel oil</td>
</tr>
<tr>
<td>BILLFT</td>
<td>Other fuels billed with garbage/trash</td>
</tr>
<tr>
<td>BILLFW</td>
<td>Other fuels billed with water/sewage</td>
</tr>
<tr>
<td>BILLGE</td>
<td>Gas billed with electricity</td>
</tr>
<tr>
<td>BILLGF</td>
<td>Gas billed with fuel oil</td>
</tr>
<tr>
<td>BILLGO</td>
<td>Gas billed with other fuels</td>
</tr>
<tr>
<td>BILLGT</td>
<td>Gas billed with garbage/trash</td>
</tr>
<tr>
<td>BILLGW</td>
<td>Gas billed with water/sewage</td>
</tr>
<tr>
<td>BILLO</td>
<td>Type of billing for fuel oil</td>
</tr>
<tr>
<td>BILLOE</td>
<td>Fuel oil billed with electricity</td>
</tr>
<tr>
<td>BILLOF</td>
<td>Fuel oil billed with other fuels</td>
</tr>
<tr>
<td>BILLOG</td>
<td>Fuel oil billed with gas</td>
</tr>
<tr>
<td>BILLOT</td>
<td>Fuel oil billed with garbage/trash</td>
</tr>
<tr>
<td>BILLOW</td>
<td>Fuel oil billed with water/sewage</td>
</tr>
<tr>
<td>BILLT</td>
<td>Type of billing for garbage &amp; trash</td>
</tr>
<tr>
<td>BILLTE</td>
<td>Garbage/trash billed with electricity</td>
</tr>
<tr>
<td>BILLTF</td>
<td>Garbage/trash billed with other fuels</td>
</tr>
<tr>
<td>BILLTG</td>
<td>Garbage/trash billed with gas</td>
</tr>
<tr>
<td>BILLTO</td>
<td>Garbage/trash billed with fuel oil</td>
</tr>
<tr>
<td>BILLTW</td>
<td>Garbage/trash billed with water/sewage</td>
</tr>
<tr>
<td>BILLWE</td>
<td>Water/sewage billed with electricity</td>
</tr>
<tr>
<td>BILLWF</td>
<td>Water/sewage billed with other fuels</td>
</tr>
<tr>
<td>BILLWG</td>
<td>Water/sewage billed with gas</td>
</tr>
<tr>
<td>BILLWO</td>
<td>Water/sewage billed with fuel oil</td>
</tr>
<tr>
<td>BILLWT</td>
<td>Water/sewage billed with garbage/trash</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BUYE</td>
<td>Pay for electricity separately</td>
</tr>
<tr>
<td>BUYE2</td>
<td>Pay for electricity separately</td>
</tr>
<tr>
<td>BUYF</td>
<td>Pay for other fuels separately</td>
</tr>
<tr>
<td>BUYF2</td>
<td>Pay for other fuels separately</td>
</tr>
<tr>
<td>BUYG</td>
<td>Pay for gas separately</td>
</tr>
<tr>
<td>BUYG2</td>
<td>Pay for gas separately</td>
</tr>
<tr>
<td>BUYO</td>
<td>Pay for fuel oil separately</td>
</tr>
<tr>
<td>BUYO2</td>
<td>Pay for fuel oil separately</td>
</tr>
<tr>
<td>CFUEL</td>
<td>Fuel used most for cooking</td>
</tr>
<tr>
<td>COKST</td>
<td>Cook stove used as supplemental heating equipment</td>
</tr>
<tr>
<td>DAFUR</td>
<td>Forced air furnace - DK if supplemental/parallel</td>
</tr>
<tr>
<td>DCOKST</td>
<td>Cookstove - DK if supplemental/parallel heat equipment</td>
</tr>
<tr>
<td>DEGREE</td>
<td>Average heating/cooling degree days</td>
</tr>
<tr>
<td>DELECT</td>
<td>Built-in electric unit-DK if supplemental/parallel</td>
</tr>
<tr>
<td>DFLOT</td>
<td>Vented room heater - DK if supplemental/parallel</td>
</tr>
<tr>
<td>DFRPL</td>
<td>Fireplace w/out inserts-DK supplemental/parallel</td>
</tr>
<tr>
<td>DFRPLI</td>
<td>Fireplace w/ inserts-DK if supplemental/parallel</td>
</tr>
<tr>
<td>DFUEL</td>
<td>Fuel used by clothes dryer</td>
</tr>
<tr>
<td>DHOTH</td>
<td>Other type of heat equipment-DK if supplemental/parallel</td>
</tr>
<tr>
<td>DHPMP</td>
<td>Heat pump - DK if supplemental/parallel heat equipment</td>
</tr>
<tr>
<td>DPLF</td>
<td>Pipeless furnace - DK if supplemental/parallel</td>
</tr>
<tr>
<td>ELECT</td>
<td>Electrical units used as supplemental heat equipment</td>
</tr>
<tr>
<td>FAFUR</td>
<td>Fuel used by forced warm-air furnace</td>
</tr>
<tr>
<td>FCOKST</td>
<td>Fuel used by cookstove</td>
</tr>
<tr>
<td>FELECT</td>
<td>Fuel used by built-in electric units</td>
</tr>
<tr>
<td>FFLIN</td>
<td>Fuel used by unvented room heaters</td>
</tr>
<tr>
<td>FFLOT</td>
<td>Fuel used by vented room heaters</td>
</tr>
<tr>
<td>FFRPL</td>
<td>Fuel used by fireplace without inserts</td>
</tr>
<tr>
<td>FFRPLI</td>
<td>Fuel used by fireplace with inserts</td>
</tr>
<tr>
<td>FHOTH</td>
<td>Fuel used by other supplemental heating equipment</td>
</tr>
<tr>
<td>FHPMP</td>
<td>Fuel used by electric heat pump</td>
</tr>
<tr>
<td>FLIN</td>
<td>Heating equipment not vented to outside</td>
</tr>
<tr>
<td>FPLF</td>
<td>Fuel used by built-in pipeless furnace</td>
</tr>
<tr>
<td>FPORTH</td>
<td>Fuel used by portable electric heaters</td>
</tr>
<tr>
<td>FSTEAM</td>
<td>Fuel used by steam/hot water system</td>
</tr>
<tr>
<td>FSTOVE</td>
<td>Fuel used by woodburning/franklin stove</td>
</tr>
<tr>
<td>GASPI2</td>
<td>Source of gas heat for vacant units</td>
</tr>
<tr>
<td>GASPIP</td>
<td>Gas from underground pipes or bottles</td>
</tr>
<tr>
<td>HEQUIP</td>
<td>Main heating equipment</td>
</tr>
<tr>
<td>HFUEL</td>
<td>Fuel used most for heating unit</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>HOTH</td>
<td>Other equipment used as supplemental heating equipment</td>
</tr>
<tr>
<td>HPMP</td>
<td>Heat pump used as supplemental heating equipment</td>
</tr>
<tr>
<td>NONE</td>
<td>No supplemental heating equipment</td>
</tr>
<tr>
<td>OAFUEL</td>
<td>Fuel used by other central a/c unit</td>
</tr>
<tr>
<td>PAFUR</td>
<td>Forced air furnace is parallel supplemental equipment</td>
</tr>
<tr>
<td>PCOKST</td>
<td>Cookstove is parallel supplemental heating equipment</td>
</tr>
<tr>
<td>PELECT</td>
<td>Built-in electric unit is parallel equipment</td>
</tr>
<tr>
<td>PFLOT</td>
<td>Vented room heater is parallel supplemental equipment</td>
</tr>
<tr>
<td>PFRPL</td>
<td>Fireplace without inserts is parallel equipment</td>
</tr>
<tr>
<td>PFRPLI</td>
<td>Fireplace w/ inserts is parallel equipment</td>
</tr>
<tr>
<td>PHOTH</td>
<td>Some other type is parallel supplemental equipment</td>
</tr>
<tr>
<td>PHPMP</td>
<td>Heat pump is parallel supplemental equipment</td>
</tr>
<tr>
<td>PLF</td>
<td>Pipeless furnace used as supplemental heating equipment</td>
</tr>
<tr>
<td>PORTH</td>
<td>Portable heaters used as supplemental heating equipment</td>
</tr>
<tr>
<td>PPLF</td>
<td>Pipeless furnace is parallel supplemental equipment</td>
</tr>
<tr>
<td>PSTEAM</td>
<td>Steam/hot water system is parallel equipment</td>
</tr>
<tr>
<td>PSTOVE</td>
<td>Woodburning stove is parallel supplemental heating equipment</td>
</tr>
<tr>
<td>SAFUR</td>
<td>Forced air furnace is supplemental heating equipment</td>
</tr>
<tr>
<td>SCOAL</td>
<td>Supplemental heating equipment uses coal/coke</td>
</tr>
<tr>
<td>SCOKST</td>
<td>Cookstove is supplemental heating equipment</td>
</tr>
<tr>
<td>SELECT</td>
<td>Built-in electric units are supplemental heat equipment</td>
</tr>
<tr>
<td>SFLIN</td>
<td>Unvented room heaters are supplemental heat equipment</td>
</tr>
<tr>
<td>SFLOT</td>
<td>Vented room heaters are supplemental heat equipment</td>
</tr>
<tr>
<td>SFRPL</td>
<td>Fireplace without inserts is parallel equipment</td>
</tr>
<tr>
<td>SFRPLI</td>
<td>Fireplace w/ inserts is supplemental heat equipment</td>
</tr>
<tr>
<td>SGAS</td>
<td>Supplemental heating equipment uses gas</td>
</tr>
<tr>
<td>SHOTH</td>
<td>Some other type is supplemental heating equipment</td>
</tr>
<tr>
<td>SHPMP</td>
<td>Heat pump is supplemental heating equipment</td>
</tr>
<tr>
<td>SJUICE</td>
<td>Supplemental heating equipment uses electricity</td>
</tr>
<tr>
<td>SKERO</td>
<td>Supplemental heating equipment uses kerosene</td>
</tr>
<tr>
<td>SOIL</td>
<td>Supplemental heating equipment uses fuel oil</td>
</tr>
<tr>
<td>SOTHER</td>
<td>Supplemental heating equipment uses other fuel</td>
</tr>
<tr>
<td>SPLF</td>
<td>Pipeless furnace is supplemental heating equipment</td>
</tr>
<tr>
<td>SPORTH</td>
<td>Portable heaters are supplemental heating equipment</td>
</tr>
<tr>
<td>SSTEAM</td>
<td>Steam/hot water system is supplemental heat equipment</td>
</tr>
<tr>
<td>SSTONE</td>
<td>Wood burning stove is supplemental heating equipment</td>
</tr>
<tr>
<td>SSUN</td>
<td>Supplemental heating equipment uses solar energy</td>
</tr>
<tr>
<td>STOVE</td>
<td>Wood stove used as supplemental heating equipment</td>
</tr>
<tr>
<td>SWOOD</td>
<td>Supplemental heating equipment uses wood</td>
</tr>
<tr>
<td>USEGAS</td>
<td>Household uses gas</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>WFUEL</td>
<td>Fuel used most to heat water</td>
</tr>
<tr>
<td>ALMV</td>
<td>All movers lived in same previous residence</td>
</tr>
<tr>
<td>HHMOVE</td>
<td>Year householder moved in</td>
</tr>
<tr>
<td>HMOVVM</td>
<td>Month householder moved in</td>
</tr>
<tr>
<td>HHMVG</td>
<td>Recent mover group of household</td>
</tr>
<tr>
<td>HUHIS</td>
<td>What happened to the old unit</td>
</tr>
<tr>
<td>LISCH</td>
<td>Any changes to apartment in last 2 years</td>
</tr>
<tr>
<td>MOVE</td>
<td>Year person moved in</td>
</tr>
<tr>
<td>MOVGRP</td>
<td>Recent mover group</td>
</tr>
<tr>
<td>MOVVM</td>
<td>Month person moved in</td>
</tr>
<tr>
<td>MVCNT1</td>
<td>Number of people in mover group #1</td>
</tr>
<tr>
<td>MVCNT2</td>
<td>Number of people in mover group #2</td>
</tr>
<tr>
<td>MVCNT3</td>
<td>Number of people in mover group #3</td>
</tr>
<tr>
<td>MVG</td>
<td>Recent mover group</td>
</tr>
<tr>
<td>NLBSY</td>
<td>Stopped looking at homes - too busy</td>
</tr>
<tr>
<td>NLHPPY</td>
<td>Stopped looking - happy with this unit</td>
</tr>
<tr>
<td>NLMOBL</td>
<td>Stopped looking - had trouble traveling</td>
</tr>
<tr>
<td>NLMOV</td>
<td>Stopped looking - had to move quickly</td>
</tr>
<tr>
<td>NLNLIK</td>
<td>Stopped looking - don't like looking</td>
</tr>
<tr>
<td>NLNPR</td>
<td>Stopped looking for no particular reason</td>
</tr>
<tr>
<td>NLOTHR</td>
<td>Stopped looking for some other reason</td>
</tr>
<tr>
<td>NLUNK</td>
<td>Stopped looking - didn't know of others</td>
</tr>
<tr>
<td>NUMHS</td>
<td># homes looked at before choosing this one</td>
</tr>
<tr>
<td>PMOVM</td>
<td>Month of previous move before this one</td>
</tr>
<tr>
<td>PMOVR</td>
<td>Year of previous move before this one</td>
</tr>
<tr>
<td>RMMOV</td>
<td>Mover group number</td>
</tr>
<tr>
<td>TLRMOV</td>
<td>Number of people moved into unit in last 2 years</td>
</tr>
<tr>
<td>WHAVL</td>
<td>Liked unit because only one available</td>
</tr>
<tr>
<td>WHDSN</td>
<td>Liked unit because of room layout/design</td>
</tr>
<tr>
<td>WHEXT</td>
<td>Liked unit because of exterior appearance</td>
</tr>
<tr>
<td>WHFIN</td>
<td>Liked unit for financial reasons</td>
</tr>
<tr>
<td>WHKIT</td>
<td>Liked unit because of kitchen</td>
</tr>
<tr>
<td>WHOOTH</td>
<td>Liked unit for other reasons</td>
</tr>
<tr>
<td>WHQUL</td>
<td>Liked unit because of construction quality</td>
</tr>
<tr>
<td>WHSIZ</td>
<td>Liked unit because of size</td>
</tr>
<tr>
<td>WHYMOVE</td>
<td>Main reason moved</td>
</tr>
<tr>
<td>WHYRD</td>
<td>Liked unit because of yard/trees/view</td>
</tr>
<tr>
<td>WHYTOH</td>
<td>Main reason this unit was chosen</td>
</tr>
<tr>
<td>WHYTON</td>
<td>Main reason this neighborhood was chosen</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>WMCHEP</td>
<td>Moved here for less expensive rent/maintenance</td>
</tr>
<tr>
<td>WMCHTN</td>
<td>Moved here to own not rent or vice versa</td>
</tr>
<tr>
<td>WMCLOS</td>
<td>Moved to be closer to work/school/other</td>
</tr>
<tr>
<td>WMCNDO</td>
<td>Moved because unit was going condo/co-op</td>
</tr>
<tr>
<td>WMDISL</td>
<td>Moved because of disaster loss</td>
</tr>
<tr>
<td>WMFAML</td>
<td>Moved for other family/personal reasons</td>
</tr>
<tr>
<td>WMFEMP</td>
<td>Moved for other financial/employment reasons</td>
</tr>
<tr>
<td>WMGOVP</td>
<td>Moved because government using land/unit</td>
</tr>
<tr>
<td>WMGOVT</td>
<td>Force to move by government</td>
</tr>
<tr>
<td>WMHOUS</td>
<td>Moved for other housing related reasons</td>
</tr>
<tr>
<td>WMJ OBS</td>
<td>Moved for new job or job transfer</td>
</tr>
<tr>
<td>WMLARG</td>
<td>Moved because needed larger unit</td>
</tr>
<tr>
<td>WMMARR</td>
<td>Moved because of marital status change</td>
</tr>
<tr>
<td>WMNFit</td>
<td>Moved because unit was condemned</td>
</tr>
<tr>
<td>WMNHH</td>
<td>Moved to establish own household</td>
</tr>
<tr>
<td>WMOTHr</td>
<td>Moved for some other reason</td>
</tr>
<tr>
<td>WMOWNR</td>
<td>Moved because owner taking over unit</td>
</tr>
<tr>
<td>WMPRIV</td>
<td>Moved cause private company/person wants unit</td>
</tr>
<tr>
<td>WMQUAL</td>
<td>Moved to obtain higher quality unit</td>
</tr>
<tr>
<td>WMREPR</td>
<td>Moved because unit closed for repairs</td>
</tr>
<tr>
<td>WNFUN</td>
<td>Chose neighborhood for close leisure activity</td>
</tr>
<tr>
<td>WNHME</td>
<td>Chose neighborhood because of unit</td>
</tr>
<tr>
<td>WNJOB</td>
<td>Chose neighborhood because close to work</td>
</tr>
<tr>
<td>WNLOOK</td>
<td>Chose neighborhood for its looks/design</td>
</tr>
<tr>
<td>WNOTHR</td>
<td>Chose neighborhood for other reasons</td>
</tr>
<tr>
<td>WNPEPL</td>
<td>Chose neighborhood since close to friends/family</td>
</tr>
<tr>
<td>WNSCH</td>
<td>Chose neighborhood because of good schools</td>
</tr>
<tr>
<td>WNSRV</td>
<td>Chose neighborhood for other public services</td>
</tr>
<tr>
<td>WNTRAN</td>
<td>Chose neighborhood since close to Public trans.</td>
</tr>
<tr>
<td>XCOND</td>
<td>Previous residence was condo/co-op</td>
</tr>
<tr>
<td>XCOOP</td>
<td>Previous residence was a cooperative</td>
</tr>
<tr>
<td>XCOST</td>
<td>Current housing costs same as old unit</td>
</tr>
<tr>
<td>XHEAD</td>
<td>Previous unit owned/rented by one who moved here</td>
</tr>
<tr>
<td>XHRATE</td>
<td>Current unit better/worse than old unit</td>
</tr>
<tr>
<td>XNUS</td>
<td>Previous residence outside United States</td>
</tr>
<tr>
<td>XNRATE</td>
<td>Current neighborhood better/worse than old one</td>
</tr>
<tr>
<td>XPER</td>
<td>#people living in last unit before move</td>
</tr>
<tr>
<td>XREL</td>
<td>Previous unit owner/rented by relative</td>
</tr>
<tr>
<td>XTEN</td>
<td>Tenure of previous residence</td>
</tr>
<tr>
<td>XUNIT</td>
<td>Type of unit of previous residence</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AMPM</td>
<td>Time usually leave for work - am or pm</td>
</tr>
<tr>
<td>CARS</td>
<td>Number of cars kept for use by household members</td>
</tr>
<tr>
<td>DISTJ</td>
<td>Number of miles traveled to work</td>
</tr>
<tr>
<td>HJOB</td>
<td>Reports to work at same place each day</td>
</tr>
<tr>
<td>PASS</td>
<td>Number of passengers in carpool</td>
</tr>
<tr>
<td>TIMEJ</td>
<td>Length of trip to work</td>
</tr>
<tr>
<td>TRAN</td>
<td>Method of transportation to work</td>
</tr>
<tr>
<td>TRN</td>
<td>Is the public transportation satisfactory?</td>
</tr>
<tr>
<td>TRUCKS</td>
<td>Number of vans or trucks for household use</td>
</tr>
<tr>
<td>USETRN</td>
<td>Someone in household uses Public transportation</td>
</tr>
<tr>
<td>VEHCL</td>
<td>Drive to work alone or with others</td>
</tr>
<tr>
<td>WTIME</td>
<td>Time usually leave for work</td>
</tr>
<tr>
<td>ANCHOR</td>
<td>Method used to anchor mobile home</td>
</tr>
<tr>
<td>CAMF</td>
<td>Frequency of assoc/mobile home park fee</td>
</tr>
<tr>
<td>CAMFQ</td>
<td>Frequency of assoc/mobile home park fee</td>
</tr>
<tr>
<td>FRSIT</td>
<td>First site mobile home ever placed on</td>
</tr>
<tr>
<td>IFOTHF</td>
<td>Other mobile home fees required</td>
</tr>
<tr>
<td>MH41</td>
<td>Model year of 1st mobile home used for living quarters</td>
</tr>
<tr>
<td>MH42</td>
<td>Model year of 2nd mobile home used for living quarters</td>
</tr>
<tr>
<td>MH43</td>
<td>Model year of 3rd mobile home used for living quarters</td>
</tr>
<tr>
<td>MH44</td>
<td>Model year of 4th mobile home used for living quarters</td>
</tr>
<tr>
<td>MH45</td>
<td>Model year of 5th mobile home used for living quarters</td>
</tr>
<tr>
<td>MHGONE</td>
<td>Old mobile home gone</td>
</tr>
<tr>
<td>MHSETQ</td>
<td>Type of mobile home foundation</td>
</tr>
<tr>
<td>MHSTAY</td>
<td>Mobile home to stay or be moved</td>
</tr>
<tr>
<td>TPARK</td>
<td>Number of mobile homes in group</td>
</tr>
<tr>
<td>BEAF78</td>
<td>Unit built before/after 1978</td>
</tr>
<tr>
<td>BIGP</td>
<td>Area of peeling paint larger than 8 x 11</td>
</tr>
<tr>
<td>BIGPEL</td>
<td>Peeling paint outside larger than door</td>
</tr>
<tr>
<td>EVRTES</td>
<td>Unit ever tested for lead paint</td>
</tr>
<tr>
<td>LDMAYB</td>
<td>Seller/agent said lead paint possible</td>
</tr>
<tr>
<td>LDTEST</td>
<td>Unit tested for lead paint</td>
</tr>
<tr>
<td>MUSTEL</td>
<td>Knew you must be told about lead paint</td>
</tr>
<tr>
<td>OUTPEL</td>
<td>Outside paint peeling or flaking</td>
</tr>
<tr>
<td>OUTPNT</td>
<td>Any part of outside of unit painted</td>
</tr>
<tr>
<td>PAPHLT</td>
<td>Received pamphlet about lead paint</td>
</tr>
<tr>
<td>PEEELAM</td>
<td>Number of other rooms with peeling paint</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>PEELSZ</td>
<td>Size of area of peeling/flaking paint</td>
</tr>
<tr>
<td>SMPEEL</td>
<td>Peeling paint more/less than 1/2 door</td>
</tr>
<tr>
<td>SNDPNT</td>
<td>Old paint sanded or scraped</td>
</tr>
<tr>
<td>TPBPAI</td>
<td>Unit tested for lead paint before purchase</td>
</tr>
<tr>
<td>TPBPIP</td>
<td>Lead pipes inspected before purchase</td>
</tr>
<tr>
<td>TPBSOL</td>
<td>Lead solder inspected before purchase</td>
</tr>
<tr>
<td>APTAD</td>
<td>Space added to apartment</td>
</tr>
<tr>
<td>APTCH</td>
<td>Type of change to apartment</td>
</tr>
<tr>
<td>APTCM</td>
<td>Apartment combined with other apartment</td>
</tr>
<tr>
<td>APTSP</td>
<td>Apartment split into several apartments</td>
</tr>
<tr>
<td>CABNX</td>
<td>Number of cabinets replaced/repaired</td>
</tr>
<tr>
<td>CABREP</td>
<td>Replaced/repaired any cabinets in unit</td>
</tr>
<tr>
<td>DOORX</td>
<td>Number of doors replaced/repaired</td>
</tr>
<tr>
<td>RAC</td>
<td>Cost of replacements/additions to unit</td>
</tr>
<tr>
<td>RACOST</td>
<td>Cost of alteration/repair</td>
</tr>
<tr>
<td>RAD</td>
<td>Household member performed alteration/repair</td>
</tr>
<tr>
<td>RAN</td>
<td>Number of replacements/additions made to unit</td>
</tr>
<tr>
<td>RAS</td>
<td>Type of alteration/repair - 1999 version</td>
</tr>
<tr>
<td>RAW</td>
<td>Alteration/repair is addition/replacement</td>
</tr>
<tr>
<td>RAY</td>
<td>Year alteration/repair completed</td>
</tr>
<tr>
<td>SUBFIX</td>
<td>Household got government loan/grant for alterations</td>
</tr>
<tr>
<td>USFCAM</td>
<td>Amount of square foot change in unit</td>
</tr>
<tr>
<td>USFCHG</td>
<td>Change in square footage of unit</td>
</tr>
<tr>
<td>WALLX</td>
<td>#inside walls/ceilings repaired/replaced</td>
</tr>
<tr>
<td>WALREP</td>
<td>Inside walls/ceilings repaired/replaced</td>
</tr>
<tr>
<td>WINREP</td>
<td>Windows repaired or replaced</td>
</tr>
<tr>
<td>WINX</td>
<td>Number of windows repaired or replaced</td>
</tr>
<tr>
<td>JAFUEL</td>
<td>Edit flag for AFUEL</td>
</tr>
<tr>
<td>JAGE</td>
<td>Edit flag for AGE</td>
</tr>
<tr>
<td>JAIR</td>
<td>Edit flag for AIR</td>
</tr>
<tr>
<td>JALMV</td>
<td>Edit flag for ALMV</td>
</tr>
<tr>
<td>JAMEDU</td>
<td>Edit flag for SAMEDU</td>
</tr>
<tr>
<td>JAMRTZ</td>
<td>Edit flag for AMRTZ</td>
</tr>
<tr>
<td>JAMTE</td>
<td>Edit flag for AMTE</td>
</tr>
<tr>
<td>JAMTF</td>
<td>Edit flag for AMTF</td>
</tr>
<tr>
<td>JAMTG</td>
<td>Edit flag for AMTG</td>
</tr>
<tr>
<td>JAMTI</td>
<td>Edit flag for AMTI</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>JAMTM</td>
<td>Edit flag for AMTM</td>
</tr>
<tr>
<td>JAMTM2</td>
<td>Edit flag for AMTM2</td>
</tr>
<tr>
<td>JAMTO</td>
<td>Edit flag for AMTO</td>
</tr>
<tr>
<td>JAMTT</td>
<td>Edit flag for AMTT</td>
</tr>
<tr>
<td>JAMTW</td>
<td>Edit flag for AMTW</td>
</tr>
<tr>
<td>JANPMT</td>
<td>Edit flag for LANPMT</td>
</tr>
<tr>
<td>JANVAR</td>
<td>Edit flag for CANVAR</td>
</tr>
<tr>
<td>JANVR2</td>
<td>Edit flag for CANVR2</td>
</tr>
<tr>
<td>JARAGE</td>
<td>Edit flag for GARAGE</td>
</tr>
<tr>
<td>ARSYS</td>
<td>Edit flag for OARSYS</td>
</tr>
<tr>
<td>JASPI2</td>
<td>Edit flag for GASPI2</td>
</tr>
<tr>
<td>JASPIP</td>
<td>Edit flag for GASPIP</td>
</tr>
<tr>
<td>JATBUY</td>
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<td>Edit flag for BURNER</td>
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<td>JUSPER</td>
<td>Edit flag for BUSPER</td>
<td>Allocation Variables</td>
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<td>JVACAN</td>
<td>Edit flag for VACANCY</td>
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<td>JVALU</td>
<td>Edit flag for VALUE</td>
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<td>Edit flag for MVCNT3</td>
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<td>Edit flag for WFUEL</td>
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JWHEXT  Edit flag for WHEXT  Allocation Variables
JWHFIN  Edit flag for WHFIN  Allocation Variables
JWHHRB  Edit flag for WHHRB  Allocation Variables
JWHHRW  Edit flag for WHHRW  Allocation Variables
JWHKIT  Edit flag for WHKIT  Allocation Variables
JWHOTH  Edit flag for WHOTH  Allocation Variables
JWHQUL  Edit flag for WHQUL  Allocation Variables
JWHSIZ  Edit flag for WHSIZ  Allocation Variables
JWHYRD  Edit flag for WHYRD  Allocation Variables
JWKCMPP  Edit flag for QWKCMPP  Allocation Variables
JWNFUN  Edit flag for WNFUN  Allocation Variables
JWNHER  Edit flag for OWNHERE  Allocation Variables
JWNJ OB  Edit flag for WNJ OB  Allocation Variables
JWNLOT  Edit flag for OWNLOT  Allocation Variables
JWNSCH  Edit flag for WNSCH  Allocation Variables
JWNSRV  Edit flag for WNSRV  Allocation Variables
JWTIME  Edit flag for WTIME  Allocation Variables
JXCLUS  Edit flag for EXCLUS  Allocation Variables
JXHEAD  Edit flag for XHEAD  Allocation Variables
JXPER  Edit flag for XPER  Allocation Variables
JXTEN  Edit flag for XTEN  Allocation Variables
JXUNIT  Edit flag for XUNIT  Allocation Variables
JYRMOR  Edit flag for YRMOR  Allocation Variables

FMR  Fair market rent (average)  Income Limits FY2003
FMRA  Fair market rent (minimum)  Income Limits FY2003
FMRB  Fair market rent (maximum)  Income Limits FY2003
IPOV  Poverty level income  Income Limits FY2003
JPQSELFN  Edit flag for PQSELFN  Income Limits FY2003
JPVOTHER  Edit flag for pvoother  Income Limits FY2003
L30  Extremely low income limit (average)  Income Limits FY2003
L30A  Extremely low income limit (minimum)  Income Limits FY2003
L30B  Extremely low income limit (maximum)  Income Limits FY2003
L50  Very low income limit (average)  Income Limits FY2003
L50A  Very low income limit (minimum)  Income Limits FY2003
L50B  Very low income limit (maximum)  Income Limits FY2003
L80  Low income limit (average)  Income Limits FY2003
L80A  Low income limit (minimum)  Income Limits FY2003
L80B  Low income limit (maximum)  Income Limits FY2003
LMED  Average median income (average)  Income Limits FY2003
<table>
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<tr>
<th>Variable</th>
<th>Description</th>
<th>Income Limits FY2003</th>
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<tbody>
<tr>
<td>LMEDA</td>
<td>Average median income (minimum)</td>
<td>Income Limits FY2003</td>
</tr>
<tr>
<td>LMEDB</td>
<td>Average median income (maximum)</td>
<td>Income Limits FY2003</td>
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<tr>
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<tr>
<td>RAS</td>
<td></td>
<td>Income Limits FY2003</td>
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<tr>
<td>VOTHER</td>
<td></td>
<td>Income Limits FY2003</td>
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</table>
Sample status, weights, interview status

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. Pure weight (PWT) is also provided. The remaining variables provide information on the status of the unit, on various aspects of the interview, on vacant units and non-interviews. These variables include the reasons for vacancy and non-interviews and some descriptions for units, which have been temporarily or definitely removed from the housing stock. A few concepts related to weights, vacancy, merger and conversions are discussed below. Finally, this section deals with the treatment of non-interviews and missing data in the AHS.

Notes:

Merging files
The most important variable for merging is the CONTROL variable. The CONTROL variable in each file contains the 12-digit control code for each housing unit. These codes are unique to each housing unit in the national survey data.

However, for the metropolitan survey data, these codes are only unique to a housing unit within an SMSA. For SAS users, the file-flattening program that can be downloaded with the data uses SMSA CONTROL in the file merging procedures. Users of other statistical programs must use both variables to identify a particular housing unit when writing their own programs to merge files from the metropolitan sample.

New Weight
In December 2002, HUD and Census released a new 2001 dataset in order to add a variable, WGT90GEO. The new variable is an alternative weight for AHS national records, but is not available for the metro data. This new weight is adjusted for 1990 metropolitan geography, as opposed to the standard weight, which is based on 1980 geography. This new weight is provided to allow matching to the printed reports. Both weights sum to national control totals for total units for 2001. Totals for all units will match when computed with both sets of weights, although occupied unit totals and any breakdown do not match. Additional information on how to use the new weight is described in the beginning of the chapter on Sample status, weighs, interview status.

HUD and Census recommend that WGT90GEO, the 1990 geography-based weight, be used only to match numbers from the public use file (PUF) with numbers in the publication at the US and Census region level. For historical comparisons and other analyses, use the 1980 geography-based weights (WEIGHT), as these are comparable to previous publications.

For more details about how weights are computed, see Appendix B of the 2001 AHS National Survey. Also, Table V in Appendix C of that publication compares some key tabulations using the two sets of weights.

Types and Treatment of Missing Data
There are three sources of missing data in the American Housing Survey Database: 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 (same as STATUS). 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 Non-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, language problems).

- **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, unit is permanent or temporary business or commercial storage, converted to institutional use). Note that vacant units and units occupied entirely by people with URE are not considered non-interviews. Type B non-interviews will be revisited each survey year, and if they become housing units again, they will be interviewed.

- **Type C:** The unit is not eligible for the sample, because it no longer exists or because of sampling, reasons (e.g., unit demolished, disaster loss, house or mobile home moved, unused permit abandoned, merged - not in current sample).

**Zero Weighted Units:** Users should note that, in addition to non-interview units 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.

**Vacancy Status:** A housing unit is vacant if no one is living in it at the time of the interview, unless its occupants are only temporarily absent. In addition, housing units where all the occupants have a usual residence elsewhere are grouped with vacant units. 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” units: Vacant housing units are available or intended for occupancy at any time of the year. A unit in a resort area which is usually occupied on a year round basis is considered year-round. A unit used only occasionally throughout the year is also considered year-round.

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

- **For rent** - Owners of some units offer them for rent. Other owners solicit offers either for rent or for sale. When separate categories for these are not shown, they are both included in for rent, as in the rental vacancy rate.

- **For sale only** - Units “for sale only” are offered for sale, and the owner does not solicit renter-occupants, even though the owner might eventually rent the unit.

- **Rented or sold** - 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 unit is classified as rented or sold.

- **Occasional use** - These are units held for weekend or other occasional use throughout the year. Second homes may be classified here or as seasonal.

- **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.

**URE:** These are temporarily occupied by persons with Usual Residence Elsewhere. If all people in a housing unit usually live elsewhere, the unit is classified as vacant. For example, a beach cottage occupied at the time of the interview by a family that has a usual residence in the city is included in the count of vacant units. Their home in the city or the home of a comparable vacationing family also can be in the AHS sample and would be reported as occupied since the occupants are only temporarily absent. URE units also may be classified in any of the vacancy categories: seasonal or for sale.

**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.

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 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.
BBLDG =
Type B noninterview building

1  Building contains at least one housing unit—either occupied or vacant.
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.
B  Not applicable
Blank  Not reported

Long description:
In ADDITION to the unit that is being classified as a TYPE B (Enter 2 or 3 if the building
does not contain any housing units)

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [Noninterview] AND [(NOT under construction or a storage) and (NOT OTHER unit or
converted to institutional unit or occupancy is NOT prohibited and interior is NOT exposed to the
elements and NOT other Type B noninterview)] ; OR
2: [NOT noninterview]
**BOARDU**

Type B unit boarded up

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don’t Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
Is the unit boarded up?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [Noninterview] AND [(NOT under construction or a storage) and (NOT OTHER unit or converted to institutional unit or occupancy is NOT prohibited and interior is NOT exposed to the elements and NOT other Type B noninterview)]; OR
2 : [NOT noninterview]

**CONTROL**

Control number

**Long description:**
This is the scrambled control number from the masterfile. It is used to preserve confidentiality and to enable longitudinal matches to earlier files.

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** homimp

**Module 2001 and later:** homimp

**Unit of observation:** HOUSEHOLD

CONTROL = Control number

Long description:
This is the scrambled control number from the masterfile. It is used to preserve confidentiality and to enable longitudinal matches to earlier files.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: jtw
Unit of observation: HOUSEHOLD

CONTROL = Control number

Long description:
This is the scrambled control number from the masterfile. It is used to preserve confidentiality and to enable longitudinal matches to earlier files.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: jtw
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
CONTROL =
Control number

Long description:
This is the scrambled control number from the masterfile. It is used to preserve
c confidentiali and to enable longitudinal matches to earlier files.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: owner
Unit of observation: HOUSEHOLD

CONTROL =
Control number

Long description:
This is the scrambled control number from the masterfile. It is used to preserve
confidentiality and to enable longitudinal matches to earlier files.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: owner
Module 2001 and later: person
Unit of observation: HOUSEHOLD
**CONTROL** =
Control number

Long description:
This is the scrambled control number from the masterfile. It is used to preserve confidentiality and to enable longitudinal matches to earlier files.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: ratiov
Unit of observation: HOUSEHOLD
CONTROL =
Control number

Long description:
This is the scrambled control number from the masterfile. It is used to preserve confidentiality and to enable longitudinal matches to earlier files.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: rmov
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
CONTROL =
Control number

Long description:
This is the scrambled control number from the masterfile. It is used to preserve confidentiality and to enable longitudinal matches to earlier files.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: weight
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

DATE =
Interview date

01011997:Present January 1, 1997 - Present

Type: Character
Edit flag variable: JDATE
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

HISTORY =
Status of unit

1 Returning sample unit from a previous enumeration
8 Added unit within current sample unit/property

Long description:
This recode indicates whether this unit had been in sample in a previous survey year or added unit within current sample unit/property. A unit has a value of '8', when it is a new unit found to exist:

   within a returning sample unit (a house splits so the basement is rented as an apartment) or,
   within the property containing a returning sample unit (someone moves a mobile home to the same property as an original sample unit, the mobile home is a separate housing unit but uses the same address)
Otherwise, the unit is given the value of '1'

**ISTATUS** =

Interview status

1  Occupied interview
2  URE (Usual Residence Elsewhere) interview
3  Vacant interview
4  Noninterview

**Type:** Character

*Edit flag variable:* None

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* toppuf
*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD

**MARKET**

Unit for rent only, sale only, or either

1  Rent only?
2  Rent or for sale?
3  Sale only?
B  Not applicable
R  Refused
Blank  Not reported

**Long description:**
Is it for ...

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(URE interview or vacant interview)] AND [(NOT ‘for rent or for sale’ and NOT ‘For sale only’ and NOT ‘sold, but not yet occupied’) or (((For rent or for sale or for sale only) or Sold, but not yet occupied) and Ownership of unit time shared or don't know or refused)]; OR
2 : [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)]; OR
3 : [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)]; OR
4 : [Occupied interview and Owned] AND [Unit is not currently for sale or rent]; OR
5 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**MARKT**
Unit currently for rent or sale

1  yes
2  no
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Is this home currently for rent or sale?

*Type:* Character
*Edit flag variable:* J MARKT
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(NOT 'for rent or for sale' and NOT For sale only and NOT 'sold, but not yet occupied') or (((For rent or for sale or for sale only) or Sold, but not yet occupied) and Ownership of unit time shared or don't know or refused)] ; OR
2 : [Occupied interview and (Rented or occupied without payment)] AND [[Mobile home]] ; OR
3 : [Occupied interview and (Rented or occupied without payment)] AND [[NOT mobile home]] ; OR
4 : [Noninterview] AND [[NOT occupied interview or URE interview or vacant interview]]
**MOVAC** =

# months unit has been vacant

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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>00</td>
<td>Less than 1 month</td>
</tr>
<tr>
<td>1:24</td>
<td>1-24 MONTHS</td>
</tr>
<tr>
<td>25</td>
<td>Over 2 years</td>
</tr>
<tr>
<td>26</td>
<td>NEVER OCCUPIED</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
</tbody>
</table>

**Long description:**

How many months has that unit has been vacant?

- **Type:** Numeric
- **Edit flag variable:** JMOVAC
- **Allocation Matrix:** Matrix E
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**

1: [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)] ; OR
2: [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)] ; OR
3: [Occupied interview and Owned] AND [(The current value of the land is between 1 and 999998) or Does not know what the current value of the land is or Refused to answer what the current value of the land was] ; OR
4: [Occupied interview and Owned] AND [Household doesn't own land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits or Not reported if household owns land on which mobile home sits] ; OR
5: [URE interview] ; OR
6: [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
NOINT =
Noninterview reason

1       Type A - No one home
2       Type A - Temporarily absent
3       Type A - Refused
4       Type A - Unable to locate
5       Type A - Language problem
6       Type A - Other, occupied
10      Type B - Permit granted, construction not started
11      Type B - Under construction, not ready
12      Type B - Permanent or temporary business or commercial storage
13      Type B - Unoccupied site for mobile home or tent
14      Type B - OTHER unit or converted to institutional unit
15      Type B - Occupancy prohibited
16      Type B - Interior exposed to the elements
17      Type B - not classified above, Specify
30      Type C - Demolished or disaster loss
31      Type C - House or mobile home moved
32      Type C - Unit eliminated in structural conversion
33      Type C - Merged not in current sample
36      Type C - Permit abandoned
37      Type C - not classified above
38      Type C - Unit eliminated in subsampling
39      Unit deleted in prelisting subsampling
B      Not applicable

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [NOT noninterview]
PWT =
Pure weight - inverse of prob of selection

00000-99999  0-99,999

Long description:
Product of base weight, weighting control factors, and sample adjustment factor.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: weight
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
REUAD =
Reason unit got added to sample

3  New Construction
4  Mobile Home moved in
5  House moved in
6  Building relisted due to structural changes
7  Unit created when original living quarters split into more units
8  Unit created when original quarters merged to fewer units
9  Conversion of nonresidential unit
10 Other, specify
11 Sample adjustment
B  Not applicable
D  Don't Know

Long description:
FR INSTRUCTION: Enter the reason this unit is being added.

Type: Numeric
Edit flag variable: JREUAD
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Unoccupied site for mobile home, trailer or tent or group quarters)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [HU is not part of a new incoming sample]; OR
3 : [Noninterview] AND [(Type A noninterview)]; OR
4 : [Noninterview] AND [(Type B noninterview)]; OR
5 : [Noninterview] AND [(Type C noninterview)]
**S150MV**
Vacant/URE unit <= 150 miles of owners res.

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
****ENTER CODE OR ASK****
Is this unit within 150 miles of the owner's current residence?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

**SAMEDU**
Same HU as last enumeration

1  Yes
2  No  (For example: replacement Mobile Home, wrong unit enumerated last time)
B  Not applicable

*Long description:*
Is this the same housing unit that
was at this address last enumeration period?

*Type:* Character
*Edit flag variable:* JAMEDU
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview or noninterview)] AND [HU is part of a new incoming sample]
SXUREV =
Vacant/URE unit was previous residence

X It was a previous usual residence
B Not applicable
D Don’t Know
R Refused
Blank Not reported

Long description:
Which of the following reasons is why the owner(s) own this vacant/URE housing unit?
Because

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**VACVAC**

Unit for vacation or other short-term use

1. Yes
2. No
B. Not applicable
D. Don't Know
R. Refused
Blank. Not reported

*Long description:*
Is this housing unit for vacation or other short-term use?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1. 
   
   ([URE interview or vacant interview]) AND ((Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)); OR
2. 
   
   ([URE interview or vacant interview]) AND ([For sale only or Sold, but not yet occupied]); OR
3. 
   
   ([NOT occupied interview or URE interview or vacant interview]); OR
4. 
   
   ([Occupied interview and Owned]) AND ([Respondent has homeowner's insurance]); OR
5. 
   
   ([Occupied interview and Owned]) AND ([Respondent does not have homeowner's insurance]); OR
6. 
   
   ([Occupied interview] AND [Rented]); OR
7. 
   
   ([Occupied interview] AND [Occupied without payment])
**WEIGHT**
Final weight based on 1980 Census geography

00000:99999 0-99,999

*Long description:*
Product of pure weight (PWT), noninterview adjustment factor, 1st stage ratio estimation factor, 2nd stage ratio estimation factor, and 3rd stage ratio estimation factors. Based on 1980 Census geography.

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* weight
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
This variable should be used to analyze 1999 and earlier data or to link the 2001 national data to the earlier datasets.
Please see the narrative about weights for a brief discussion.

**WGT90GEO**
Final weight based on 1990 Census geography

00000:99999 0-99,999

*Long description:*
Product of pure weight (PWT), noninterview adjustment factor, 1st stage ratio estimation factor, 2nd stage ratio estimation factor, and 3rd stage ratio estimation factors. Based on 1990 Census geography.

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 2001N, 2003N, 2005N

*Notes:*
This variable should be used to analyze the 2001 national data when trying to match to the published reports and geographic analysis.
Please see the narrative about weights for a brief discussion.
Geography

The national survey identifies the four Census regions (REGION). It also identifies the metropolitan areas over 100,000 in population (SMSA), shows which units are located within the central city of an SMSA (METRO3), and classifies climate severity to help analyze utility costs (DEGREE, in Utilities section).

The metropolitan survey's geographic variables are STATE, COUNTY, SMSA, and ZONE.

Every four years, the national survey includes a Metro supplement—additional survey data for the six largest metropolitan areas: Chicago, Detroit, Los Angeles, New York, Northern New Jersey, and Philadelphia. 1995, 1999, and 2003 are the years this supplement was included, and a note for the SMSA variable specifies exactly which areas were covered.

Notes:

**Metro Area Identification:** In the 1997 survey, the variable METRO was replaced with METRO3 because the census was unable to convert 1990-based urbanized areas to 1980-based geography used by the AHS. The new coding has fewer distinctions than the older one, making it more difficult to identify metropolitan area status. Pre-1997 data cannot be compared completely with later figures.

**County:** County codes are only available in the metropolitan files. The primary divisions of most states are termed counties. Exceptions are as follows:

- Louisiana uses the term “parish” rather than “county.”
- Alaska has county equivalents defined by the state.
- 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.

**1980 Design SMSA Code:** The SMSA codes are used to uniquely identify each MSA. When using the metropolitan data, the SMSA variable also must be used in conjunction with the CONTROL variable to merge files from the AHS metropolitan surveys because the CONTROL codes are only unique to housing units within each SMSA.

**Zone:** 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 portion of several counties. The areas in a zone are not always adjacent. The limited sample size in each zone precludes reliable analysis of any single zone.
CMSA =
1980 design CMSA code

00  Not in a 1980 design CMSA
07  Boston-Lawrence-Salem, MA-NH
10  Buffalo-Niagara Falls, NY
31  Dallas-Fort Worth, TX
34  Denver-Boulder, CO
41  Hartford-New Britain-Middletown, CT
47  Kansas City, MO - Kansas City, KS
49  Los Angeles-Anaheim-Riverside, CA
56  Miami-Fort 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  Saint Louis-East Saint Louis-Alton, MO-IL
91  Seattle-Tacoma, WA

Long description:
This is the 1980 design consolidated MSA code placed on the public use file. Due to confidentiality restrictions, only certain CMSA codes are allowed on the public use file.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: toppuf
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
<table>
<thead>
<tr>
<th>COUNTY</th>
<th>County code</th>
</tr>
</thead>
<tbody>
<tr>
<td>001:840</td>
<td>001-840</td>
</tr>
<tr>
<td>947</td>
<td>Fredericksburg City, VA AND Fauquier &amp; Spotsylvania Counties, VA</td>
</tr>
<tr>
<td>948</td>
<td>Fayette, Shelby, &amp; Tipton Counties, TN</td>
</tr>
<tr>
<td>949</td>
<td>Crawford County, AR AND Forrest County, MS</td>
</tr>
<tr>
<td>950</td>
<td>Gaston &amp; Lincoln Counties, NC</td>
</tr>
<tr>
<td>951</td>
<td>Cabarrus &amp; Rowan Counties, NC</td>
</tr>
<tr>
<td>952</td>
<td>Mecklenberg &amp; Union Counties, NC</td>
</tr>
<tr>
<td>953</td>
<td>Island, King, &amp; Snohomish Counties, WA</td>
</tr>
<tr>
<td>954</td>
<td>Franklin, Lincoln, St. Charles, &amp; Warren Counties, MO</td>
</tr>
<tr>
<td>955</td>
<td>Clinton, Monroe, &amp; St. Clair Counties, IL</td>
</tr>
<tr>
<td>956</td>
<td>Jersey &amp; Madison Counties, IL</td>
</tr>
<tr>
<td>957</td>
<td>No longer used</td>
</tr>
<tr>
<td>958</td>
<td>Fort Bend, Harris, Liberty, Montgomery, &amp; Waller Counties, TX</td>
</tr>
<tr>
<td>959</td>
<td>Hartford County, CT AND parts of Litchfield, Middlesex, New London, &amp; Tolland Counties</td>
</tr>
<tr>
<td>960</td>
<td>No longer used</td>
</tr>
<tr>
<td>961</td>
<td>Fairfield &amp; Madison Counties, OH</td>
</tr>
<tr>
<td>962</td>
<td>Delaware, Franklin, &amp; Pickaway Counties, OH</td>
</tr>
<tr>
<td>963</td>
<td>No longer used</td>
</tr>
<tr>
<td>964</td>
<td>Carroll &amp; Howard Counties, MD</td>
</tr>
<tr>
<td>965</td>
<td>Anne Arundel &amp; Queen Anne Counties, MD</td>
</tr>
<tr>
<td>966</td>
<td>Dekalb &amp; Fulton Counties, GA</td>
</tr>
<tr>
<td>967</td>
<td>Bartow, Cherokee, Douglas, Forsyth, &amp; Paulding Counties, GA</td>
</tr>
<tr>
<td>968</td>
<td>Coweta, Fayette, Henry, &amp; Spalding Counties, GA</td>
</tr>
<tr>
<td>969</td>
<td>Barrow, Newton, Rockdale, &amp; Walton Counties, GA</td>
</tr>
<tr>
<td>970</td>
<td>Comal, Guadalupe, &amp; Wilson Counties, TX</td>
</tr>
<tr>
<td>971</td>
<td>Genesee, Livingston, Ontario, Orleans, &amp; Wayne Counties, NY</td>
</tr>
<tr>
<td>972</td>
<td>Columbia &amp; Yamhill Counties, OR</td>
</tr>
<tr>
<td>973</td>
<td>Clackamas &amp; Multnomah Counties, OR</td>
</tr>
<tr>
<td>974</td>
<td>Jefferson, Plaquemines, St. Bernard, St. Charles, &amp; St. John the Baptist Parishes, LA</td>
</tr>
<tr>
<td>975</td>
<td>Johnson, Leavenworth, Miami, &amp; Wyandotte Counties, KS</td>
</tr>
<tr>
<td>976</td>
<td>Cass, Clay, Clinton, Lafayette, Platte, &amp; Ray Counties, MO</td>
</tr>
<tr>
<td>977</td>
<td>Douglas &amp; Jefferson Counties, CO</td>
</tr>
<tr>
<td>978</td>
<td>Boone, Campbell, &amp; Kenton Counties, KY AND Dearborn County, IN</td>
</tr>
<tr>
<td>979</td>
<td>Clermont &amp; Warren Counties, OH</td>
</tr>
<tr>
<td>980</td>
<td>Manassas &amp; Manassas Park Cities, VA AND Loudon, Prince William, &amp; Stafford Counties, VA</td>
</tr>
<tr>
<td>981</td>
<td>Fairfax &amp; Falls Church Cities, VA AND Fairfax County, VA</td>
</tr>
<tr>
<td>982</td>
<td>Calvert &amp; Charles Counties, MD</td>
</tr>
<tr>
<td>983</td>
<td>Hernando &amp; Pasco Counties, FL</td>
</tr>
<tr>
<td>984</td>
<td>Carver, Chisago, Isanti, Scott, Sherburne, &amp; Wright Counties MN AND Pierce &amp; Saint Croix Counties, WI</td>
</tr>
<tr>
<td>985</td>
<td>Johnson &amp; Tarrant Counties, TX</td>
</tr>
<tr>
<td>986</td>
<td>No longer used</td>
</tr>
<tr>
<td>987</td>
<td>Ellis, Kaufman, &amp; Rockwell Counties, TX</td>
</tr>
<tr>
<td>988</td>
<td>Canadian, Cleveland, Logan, McClain, Oklahoma, &amp; Pottawatomie Counties, OK</td>
</tr>
<tr>
<td>989</td>
<td>Chesapeake &amp; Suffolk Cities, VA AND Isle of Wight County, VA AND Currituck County, NC</td>
</tr>
<tr>
<td>990</td>
<td>Hampton, Poquoson, &amp; Williamsburg Cities, VA AND Gloucester, James City, Mathews, &amp; York Counties, VA</td>
</tr>
</tbody>
</table>

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991  Ozaukee & Washington Counties, WI
992  Ashtabula, Geauga, Lake, & Medina Counties, OH
993  Blount, St. Clair, & Shelby Counties, AL
994  Johnson, Morgan, Shelby, & part of Marion Counties, IN
995  Hamilton, Hancock, & part of Marion Counties, IN
996  Boone, Hendricks, & part of Marion Counties, IN
997  Central City Indianapolis part of Marion County, IN
999  Can not disclose county code

Long description:
FIPS County codes, Independent City codes, and Pseudo county codes created to protect confidentiality.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: toppuf
Unit of observation: TOPPUF
Present in survey year(s): 1998MSA, 2004MSA

Notes:
Variable may be changed and/or suppressed in the Metro survey to comply with 100,000 population rule.

METRO =
Central city / suburban status

1  Primary central city of the MSA
2:6  Secondary central cities of the MSA
7  Suburb of the MSA

Long description:
This recode specifies all central cities in each MSA.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: toppuf
Unit of observation: TOPPUF
Present in survey year(s): 1998MSA, 2004MSA

Notes:
Variable may be changed and/or suppressed in the Metro survey to comply with 100,000 population rule.
**METRO3**

Central city / suburban status

1  Central city of MSA
2  Inside MSA, but not in central city - urban
3  Inside MSA, but not in central city - rural
4  Outside MSA, urban
5  Outside MSA, rural

*Type*: Character  
*Edit flag variable*: None  
*Allocation Matrix*: None  
*Topcoded*: No  
*Module 1999 and earlier*: toppuf  
*Module 2001 and later*: newhouse  
*Unit of observation*: HOUSEHOLD  

*Notes:*  
Variable may be changed and/or suppressed in National Survey to comply with 100,000 population rule.

**PMSA**

1990 design PMSA code

0040:9340  0040-9340
9999  Not in a PMSA

*Long description:*  
1990 design PMSA code

*Type*: Character  
*Edit flag variable*: None  
*Allocation Matrix*: None  
*Topcoded*: No  
*Module 1999 and earlier*: toppuf  
*Unit of observation*: TOPPUF  
*Present in survey year(s)*: 1998MSA
**PSUDOTCT** = Census tract for 1970, 1980 or 1990 containing case

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Unit of observation:** HOUSEHOLD
- **Present in survey year(s):** 2002MSA, 2004MSA

**Notes:**
Variable may be changed and/or suppressed in the Metro survey to comply with 100,000 population rule. Number does not correspond to the real Census tract numbers to preserve confidentiality.

**REGION** = Census region

1. Northeast
2. Midwest
3. South
4. West

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** toppuf
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Notes:**
Midwest includes: Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas.
South includes: Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, Texas.
SMSA =
1980 design PMSA code

0080 Akron, OH
0160 Albany-Schenectady-Troy, NY
0200 Albuquerque, NM
0240 Allentown-Bethlehem-Easton, PA
0275 Alton-Granite City, IL
0360 Anaheim-Santa Ana (Orange County), CA
0460 Appleton-Oshkosh-Neenah, WI
0520 Atlanta, GA
0560 Atlantic City, NJ
0600 Augusta, GA-SC
0640 Austin, TX
0680 Bakersfield, CA
0720 Baltimore, MD
0760 Baton Rouge, LA
0840 Beaumont-Port Arthur, TX
0845 Beaver, PA
0875 Bergen-Passaic, NJ
1000 Birmingham, AL
1120 Boston, MA
1125 Boulder-Longmont, CO
1160 Bridgeport-Milford, CT
1320 Buffalo, NY (Metro surveys only)
1320 Canton, OH
1440 Charleston, SC
. Charlotte, NC (Metro surveys only)
1560 Chattanooga, TN-GA
1600 Chicago, IL
1640 Cincinnati, OH-KY-IN
1680 Cleveland, OH
1720 Colorado Springs, CO
1760 Columbia, SC
1840 Columbus, OH
1880 Corpus Christi, TX
1920 Dallas, TX
1960 Davenport-Rock Island-Moline, IA-IL
2020 Daytona Beach, FL
2080 Denver, CO
2120 Des Moines, IA
2160 Detroit, MI
2240 Duluth, MN-WI
2285 East Saint Louis-Belleville, IL
2320 El Paso, TX
2360 Erie, PA
2400 Eugene-Springfield, OR
2440 Evansville, IN-KY
2640 Flint, MI
2680 Fort Lauderdale-Hollywood, FL
2700 Fort Myers-Cape Coral, FL
2760 Fort Wayne, IN
2800 Fort Worth-Arlington, TX
2840 Fresno, CA
2960 Gary-Hammond, IN
3000 Grand Rapids, MI
3120 Greensboro-Winston Salem-High Point, NC
3160 Greenville-Spartanburg, SC
3280 Hartford, CT
3320 Honolulu, HI
3360 Houston, TX
3480 Indianapolis, IN
3560 Jackson, MS
3600 Jacksonville, FL
3640 Jersey City, NJ
3660 Johnson City-Kingsport-Bristol, TN-VA
3760 Kansas City, MO-KS
3840 Knoxville, TN
3965 Lake County, IL
3980 Lakeland-Winter Haven, FL
4000 Lancaster, PA
4040 Lansing-East Lansing, MI
4120 Las Vegas, NV
4160 Lawrence-Haverhill, MA-NH
4280 Lexington-Fayette, KY
4400 Little Rock-North Little Rock, AR
4480 Los Angeles-Long Beach, CA
4720 Madison, WI
4880 McAllen-Edinburg-Mission, TX
4900 Melbourne-Titusville-Palm Bay, FL
4920 Memphis, TN-AR-MS
5000 Miami-Hialeah, FL
5015 Middlesex-Somerset-Hunterdon, NJ
5080 Milwaukee, WI
5120 Minneapolis-Saint Paul, MN
5160 Mobile, AL
5170 Modesto, CA
5190 Monmouth-Ocean, NJ
5240 Montgomery, AL
5360 Nashville, TN
5380 Nassau-Suffolk, NY
5480 New Haven-Meriden, CT
5560 New Orleans, LA
5600 New York City, NY
5640 Newark, NJ
5680 Norfolk-Newport News (Metro surveys only), VA-NC
      Norfolk-Virginia Beach (Newport News-Hampton added after 1983), VA-NC
5775 Oakland, CA
5880 Oklahoma City, OK
5920 Omaha, NE-IA
5960 Orlando, FL
6000 Oxnard-Ventura, CA
6080 Pensacola, FL
6120 Peoria, IL
6160 Philadelphia, PA-NJ
6200 Phoenix, AZ
1980 design SMSA code used to uniquely identify each MSA

Type: Character
Notes:
9999 code not present in MSA files. Codes 9991-9993 are used for a few cases in 1995N and 1999N, where rare combinations of SMSA and METRO prevent us showing exact metro codes. See http://www.census.gov/hhes/www/housing/ahs/metrodates.html for a list of which metropolitan areas are included in each metropolitan survey.
As a supplement to the national survey, the 1995, 1999, and 2003 National data include extra cases to allow separate analyses of 6 areas:
Chicago (0620, 1600, 3965, 9991), Detroit (2160), Los Angeles (4480), New York (5380, 5600, 9992), Northern New Jersey (0875, 3640, 5015, 5190, 5640, 8480, 9993), and Philadelphia (6160).
All cases within these 18 MSA codes are covered, except Joliet City outside Chicago, and non-urbanized
<table>
<thead>
<tr>
<th>STATE</th>
<th>FIPS state code</th>
<th>STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Alabama</td>
<td>04</td>
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<td>02</td>
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</tr>
<tr>
<td>04</td>
<td>Arizona</td>
<td>06</td>
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<tr>
<td>05</td>
<td>Arkansas</td>
<td>08</td>
</tr>
<tr>
<td>09</td>
<td>Connecticut</td>
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<tr>
<td>11</td>
<td>District of Columbia</td>
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<tr>
<td>12</td>
<td>Florida</td>
<td>13</td>
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<tr>
<td>15</td>
<td>Hawaii</td>
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<td>Vermont</td>
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<tr>
<td>53</td>
<td>Washington</td>
<td>54</td>
</tr>
<tr>
<td>55</td>
<td>Wisconsin</td>
<td></td>
</tr>
</tbody>
</table>
56  Wyoming
99  Can not disclose state code

Long description:
FIPS State Code

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: toppuf
Unit of observation: TOPPUF
Present in survey year(s): 1998MSA, 2004MSA

Notes:
Variable may be changed and/or suppressed in the Metro survey to comply with 100,000 population rule.

ZONE =
Defined area of >100,000 population

001:099  Zones inside the central city of an MSA
101:199  Zones in the suburbs of an MSA
201:299  Hybrid zones - contain cases in both the central city and the suburbs of an MSA

Long description:
A zone is defined as a socio-economically homogeneous area of greater than 100,000 population. 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. Note 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.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1998MSA, 2002MSA, 2004MSA
Unit

This chapter provides information on unit characteristics, facilities and major equipment. Data in this section include unit size, number of rooms, bedrooms, bathrooms 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. In addition, there is information on energy conservation features, such as storm windows and insulation, and on recent installations of major equipment. For data on fuels used to operate equipment discussed in this section and on utility costs; refer to the Utilities section. In general, the variables are available for all units in the sample.

Notes:

Unit Size: Includes basements and finished attics. Excludes 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 Census and used to calculate the square footage of the unit.

Lot Size: 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 noted 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.

Rooms: Starting in 1999, the collection of room counts by floors was eliminated. 1997 was the only year where room counts by floor was conducted. Room counts of each type were collected for the housing units as a whole. Also, a probe was modified to ensure that one-room units were not under-reported. These changes resulted in higher estimates of one-room units and units with no bedrooms.

Rooms counted are 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, lodgers’ rooms, and 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 an 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. 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.

**Bathrooms:** A unit has a full bathroom if it has a room with a flush toilet, bathtub or shower, a sink, and 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. It must measure at least 4 by 4 feet. An enclosed porch used for year-round living and reported as a room is not reported as a porch to avoid double counting.

**Telephone Available:** Access to a telephone is described by one of two variables. The variable TELHH is used if a telephone is located in the household. The variable TELAV is used if there is a telephone elsewhere on which householders can be contacted.

**Complete Kitchen Facilities:** A unit has complete kitchen facilities if 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. 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, 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 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. This definition excludes evaporative coolers, fans, or blowers that 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 in generally intended to cool 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 that provide 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 that provides warm air through ducts leading to various rooms. An “electric heat pump” refers to an electric all-in-one heating-cooling system, which uses 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. Fireplaces, stoves and electric portable heaters are reported separately. According to the interviewer instructions, portable heaters burning liquid fuel should be included under “fireplaces, etc.”, not under “room heaters without flue”, but the questionnaire does not mention the portability distinction, so some portable room heaters may be classified “room heaters”, while others are classified “fireplaces, etc.”
For vacant units from which the heating equipment had been removed, the equipment used by the last occupants is to be reported.

**Microwave Oven:** The variable OVEN is used when a microwave oven is present. Prior to 1997, the variable was used when a conventional or microwave was present. The questionnaire was changed because it was believed that it was more relevant to ask about a microwave. Due to the question change, data under this variable prior to 1997 cannot be compared to more recent data.

**Year Householder Moved Into Unit:** In 1999, a change was made in the way these data were processed. The change allows the year the householder moved into a mobile home to be earlier than the year the structure was built. The change was made in order to accommodate mobile home householders who purchased a new mobile home but were still living in the same site, making the year their structure was built later than the year they moved in.

**Rooms Used For Business:** In order to differentiate rooms used exclusively for business from rooms used for business and personal use, the variable OFFICE was split into the variables EXCLUS, for rooms used only for business purposes, and BUSPER, identifying rooms used for business and personal use. An error in the 1997 questionnaire omitted BUSPER, so it is not possible to tell if rooms have mixed usage in that year.
ACCESS = Direct access to unit
1 Yes, direct access
2 No, through another unit
B Not applicable

Long description:
Does this housing unit have direct access either from the outside or through a common hall?

Type: Character
Edit flag variable: JACCESS
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Unoccupied site for mobile home, trailer or tent or group quarters)] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Institutional] ; OR
3 : [Noninterview] AND [(Type A noninterview)] ; OR
4 : [Noninterview] AND [(Type B noninterview)] ; OR
5 : [Noninterview] AND [(Type C noninterview)]

ACCESSB = Entry system required to access building
1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**AGERES** = Age restricted development

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N

**AIR** = Room air conditioner

1  Yes
2  No
B  Not applicable

**Long description:**
Do you (also) use any room air conditioners?
Do other residents use any room air conditioners?
Does the housing unit have any room air conditioners?

**Type:** Numeric  
**Edit flag variable:** JAIR  
**Allocation Matrix:** Matrix E  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**
1 : [(NOT occupied interview or URE interview or vacant interview)]
\textbf{AIRSYS} =

Central air conditioner

1  Yes
2  No
B  Not applicable

\textit{Long description:}
Does this heat pump/heating equipment provide air conditioning for this home?
Does this housing unit have central air conditioning?

\textbf{Type:} Character
\textbf{Edit flag variable:} JIRSYS
\textbf{Allocation Matrix:} Matrix E
\textbf{Topcoded:} No
\textbf{Module 1999 and earlier:} houshld
\textbf{Module 2001 and later:} newhouse
\textbf{Unit of observation:} HOUSEHOLD

\textit{Conditions not in universe:}
1 : [(NOT occupied interview or URE interview or vacant interview)]
**ANYCAR**
Wall-to-wall carpeting in any area of unit

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Do any areas in your home have wall-to-wall carpeting?

**Type:** Character  
**Edit flag variable:** JNYCAR  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 1997N, 1999N

**Conditions not in universe:**
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR  
2 : [Occupied interview] AND [No carpeting in unit] ; OR  
3 : [Occupied interview] AND [Unit was built in or after 1978] ; OR  
4 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR  
5 : [NOT occupied interview]
ANYPNT =
Any painting done on inside of unit

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
In the past 12 months, was any painting done on the inside of your home?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVEYEAR + 1)] ; OR
4 : [NOT occupied interview]
ANYRUG =
Any rugs or carpeting in unit

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
The next few questions are about carpeting and paint in your home.
Do you have ANY rugs or carpeting in your home?

<table>
<thead>
<tr>
<th>Type</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>JNYRUG</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshold</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
<tr>
<td>Present in survey year(s):</td>
<td>1997N, 1999N</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [NOT occupied interview]

APTFL =
Number of floors in the apartment itself

1:3  1-3
4  4 or more

*Long description:*
How many floors are in this APARTMENT itself?

<table>
<thead>
<tr>
<th>Type</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshold</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
<tr>
<td>Present in survey year(s):</td>
<td>1997N, 1998MSA</td>
</tr>
</tbody>
</table>
**ASSTSERV**
Manager provides personal care assistance

1  Yes
2  No
B  Not applicable
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N

Notes:
One or more instances of assistance with: meals, transportation, housekeeping, financial management, aid with telephone, and shopping

**ATBSUN**
Number of unfinished attics/basements in unit

0:5  0-5 Unfinished Attics/Basements

Long description:
Recoded sum of ATBSUN1 through ATBSUN5

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA
BATHS =
Number of full bathrooms in unit

0:10  0-10 Full Bathrooms
B    Not applicable

Long description:
Recoded sum of BATHS1 through BATHS5

Type: Numeric
Edit flag variable: J BATHS
Allocation Matrix: Matrix B
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
**BDCARP =**
Wall-to-wall carpeting in bedroom

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Is there wall-to-wall carpeting in your bedroom/any of your bedrooms?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 1997N, 1999N

**Conditions not in universe:**
1: [Occupied interview] AND [(Unit was built between 1978 and 1979)]; OR
2: [Occupied interview] AND [The unit does not have any wall to wall carpeting]; OR
3: [Occupied interview] AND [No carpeting in unit]; OR
4: [Occupied interview] AND [Unit was built in or after 1978]; OR
5: [Occupied interview] AND [The unit has not bedrooms]; OR
6: [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVEY + 1)]; OR
7: [NOT occupied interview]
**BEDRMS**
Number of bedrooms in unit

0:10  0-10 Full Bedrooms
B  Not applicable

*Long description:*
Recoded sum of BEDRMS1 through BEDRMS5

*Type:* Numeric
*Edit flag variable:* JEDRMS
*Allocation Matrix:* Matrix B
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
**BEDX** =
Number of bedrooms with wall-to-wall carpeting

0  No bedrooms
1:10  1-10 bedrooms
B  Not applicable
D  Don't Know
R  Refused

*Long description:*
This variable was created by the bridge system.  
How many of your bedrooms have wall-to-wall carpeting?

*Type:* Numeric  
*Edit flag variable:* J BEDX  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Unit of observation:* HOUSEHOLD  
*Present in survey year(s):* 1997N, 1998MSA, 1999N

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)]; OR
2 : [Occupied interview] AND [The unit does not have any wall to wall carpeting]; OR
3 : [Occupied interview] AND [No carpeting in unit]; OR
4 : [Occupied interview] AND [The bedroom doesn't have wall to wall carpeting]; OR
5 : [Occupied interview] AND [Unit was built in or after 1978]; OR
6 : [Occupied interview] AND [The unit has not bedrooms]; OR
7 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)]; OR
8 : [NOT occupied interview]
**BUILT** =
Year unit was built

<table>
<thead>
<tr>
<th>Year</th>
<th>Decade</th>
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<tbody>
<tr>
<td>1990</td>
<td>1990-1994</td>
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<tr>
<td>1985</td>
<td>1985-1989</td>
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<td>1980</td>
<td>1980-1984</td>
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<td>1975</td>
<td>1975-1979</td>
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<td>1960-1969</td>
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<td>1950</td>
<td>1950-1959</td>
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<td>1940</td>
<td>1940-1949</td>
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<td>1930</td>
<td>1930-1939</td>
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<tr>
<td>1920</td>
<td>1920-1929</td>
</tr>
<tr>
<td>1919</td>
<td>1919 or earlier</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Long description:*
Year this housing unit was built.
(If respondent replies DK or is uncertain, probe: Do you know what decade, such as the 90's, 80's, 70's or some other decade?)

*Type:* Numeric
*Edit flag variable:* JBUILT
*Allocation Matrix:* Matrix E
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:* 
1 : ![NOT occupied interview or URE interview or vacant interview)]
**BURNER**

Unit has working built-in cooking burners

1  Yes  
2  No  
B  Not applicable

**Long description:**
Does this housing unit, have any built-in cooking burners that are in working order?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
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<tbody>
<tr>
<td>Edit flag variable:</td>
<td>JURNER</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>Matrix E</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit have working cook stove and/or range oven] ; OR  
2 : [(NOT occupied interview or URE interview or vacant interview)]

**BUSIN**

Number of offices/business rooms in unit

0:5  0-5 Offices/Business rooms

**Long description:**
Recoded sum of BUSIN1 through BUSIN5

<table>
<thead>
<tr>
<th>Type:</th>
<th>Numeric</th>
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<tbody>
<tr>
<td>Edit flag variable:</td>
<td>JBUSIN</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
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</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
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<td>HOUSEHOLD</td>
</tr>
<tr>
<td>Present in survey year(s):</td>
<td>1997N, 1998MSA</td>
</tr>
</tbody>
</table>
**BUSPER**

# rooms used for business/personal use

0  None
1:10  1-10
B  Not applicable
D  Don't Know
R  Refused

*Long description:*
How many rooms, if any, are used both as business space and for personal use?

**Type:** Numeric

**Edit flag variable:** JUSPER

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


*Conditions not in universe:*

1 : [(URE interview or vacant interview)]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
CELLAR =
Unit has a basement

1  With a basement under all of the house
2  With a basement under part of the house
3  With a crawl space
4  On a concrete slab
5  In some other way (SPECIFY)
B  Not applicable

Long description:
Is this house built-

Type: Numeric
Edit flag variable: JELLAR
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshold
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Apartment building or mobile home)]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**CLIMB**

Number of floors from main entrance to apartment

0  
1:20
21
B

Same floor
1-20
21 or more
Not applicable

*Long description:*
How many stories are there from the main entrance of the building to the main entrance of this apartment?

*Type:* Numeric
*Edit flag variable:* J CLIMB
*Allocation Matrix:* None
*Topcoded:* Yes
*Module 1999 and earlier:* houshd
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
For the National Survey, the variable has a topcode computed for each SMSA-METRO3 combination shown in the public use file.
For the Metro Survey, the variable has a topcode computed for each SMSA-ZONE combination shown in the public use file.

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building] ;
OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**CONDO**
Unit is condominium or cooperative

1  Either Condo or Cooperative
3  No, Neither one
B  Not applicable

*Long description:*
Is this housing unit part of a condominium or cooperative or neither one?

*Type:* Character  
*Edit flag variable:* J CONDO  
*Allocation Matrix:* Matrix E  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Notes:*
Cooperative units are combined with condominium units.

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
COOK =
Unit has working cookstove or range/oven

1  Yes
2  No
B  Not applicable

Long description:
Does this housing unit have some type of cooking stove, or a range with an oven--one that is in working order?

Type: Character
Edit flag variable: J COOK
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : (NOT occupied interview or URE interview or vacant interview)]

DENS =
Number of dens/libraries/tv rooms in unit

0:5  0-5 Dens/Libraries/TV Rooms
B  Not applicable

Long description:
Recoded sum of DENS1 through DENS5

Type: Numeric
Edit flag variable: J DENS
Allocation Matrix: Matrix B
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : (NOT occupied interview or URE interview or vacant interview)]
**DINING**
Number of dining rooms in unit

0:5  0-5 Dining rooms
B  Not applicable

*Long description:*
Recode sum of DINING1 through DINING5

*Type:* Numeric
*Edit flag variable:* JINING
*Allocation Matrix:* Matrix B
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]

**DIRAC**
Number of offices having direct access

0  None have direct access to the outside
1:10  1-10 have direct access to the outside
B  Not applicable
R  Refused

*Long description:*
And, how many offices used for business have direct access to the outside?

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] OR
2 : [(NOT occupied interview or URE interview or vacant interview)] OR
3 : [Occupied interview] AND [(No offices are used exclusively for business)]
**DISH**
Unit has working dishwasher

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Not applicable</th>
</tr>
</thead>
</table>

**Long description:**
Recode created from DISHQ, APPLWK, DISHWK, DISHFX

- **Type:** Character
- **Edit flag variable:** J DISH
- **Allocation Matrix:** Matrix E
- **Topcoded:** No
- **Module 1999 and earlier:** houshdl
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(NOT occupied interview or URE interview or vacant interview)]

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**DISPL**
Unit has working garbage disposal

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Not applicable</th>
</tr>
</thead>
</table>

**Long description:**
Recode created from DISPLQ, APPLWK, DISPLWK, DISPLFX

- **Type:** Character
- **Edit flag variable:** J DISPL
- **Allocation Matrix:** Matrix E
- **Topcoded:** No
- **Module 1999 and earlier:** houshdl
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit doesn't have kitchen sink] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
DRSHOP =
Medical office/community store on property

1  Yes
2  No
B  Not applicable

Long description:
Is there a medical or dental office or any commercial establishment on the property?

Type: Character
Edit flag variable: JRSHOP
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [[NOT occupied interview or URE interview or vacant interview]]; OR
2 : [Occupied interview] AND [(Rented or occupied without payment)]

DRY =
Unit has working clothes dryer

1  Yes
2  No
B  Not applicable

Long description:
Recode created from DRYQ, APPLWK, DRYWK, DRYFX

Type: Character
Edit flag variable: JDRY
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [[NOT occupied interview or URE interview or vacant interview]]
**DSTEAM**
Steam/hot water system-DK if supplemental/parallel

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

**Type:** Character

**Edit flag variable:** JDSTEA

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Notes:**
Answer choice of D is appropriate response for condition being true.

**Conditions not in universe:**
1 : ([Occupied interview or URE interview or vacant interview]) AND [No fuel is used for heating the unit] ; OR
2 : ([Occupied interview or URE interview or vacant interview]) AND [Steam system NOT used as supplemental heating equipment] ; OR
3 : ([NOT occupied interview or URE interview or vacant interview])
**DSTOVE**

Woodburning stove - DK if supplemental/parallel

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

**Type:** Character

**Edit flag variable:** JDSTOVE

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Notes:**
Answer choice of D is appropriate response for condition being true.

**Conditions not in universe:**
1: [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] OR
2: [(Occupied interview or URE interview or vacant interview)] AND [Wood stove NOT used as supplemental heating equipment] OR
3: [(NOT occupied interview or URE interview or vacant interview)]
**EBAR**
Windows covered with metal bars

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Are any of the windows in any rooms covered with metal bars?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1 : [Noninterview]

**EHEIGHT**
Height of apartment buildings within 1/2 blk

1  Tallest has seven or more stories
2  Tallest has 4-6 stories
3  Tallest has fewer then 4 stories
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 2005N
ELEV =
Working passenger elevator

1  No elevator
2  At least one working elevator
3  All elevators not working
B  Not applicable

Long description:
Is there a working passenger elevator to your floor?
(COUNT FREIGHT ELEVATORS ALSO MEANT TO BE USED BY PASSENGERS)

Type: Character
Edit flag variable: J ELEV
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview or URE interview or vacant interview] AND [NOT apartment building]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
EXCLUS =
Number offices used exclusively for business

0       No offices used exclusively for business
1:10    1-10 offices used exclusively for business
B       Not applicable
D       Don't Know
R       Refused

Long description:
This variable was created by the bridge system.
You mentioned having some offices in your home.
How many of these offices are used exclusively for business?

Type:   Numeric
Edit flag variable:  JXCLUS
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [[URE interview or vacant interview]] ; OR
2 : [[NOT occupied interview or URE interview or vacant interview]]

FAMRM =
Number of family rooms/great rooms in unit

0:5       0-5 Family rooms/"Great" rooms
B       Not applicable

Long description:
Recoded sum of FAMRM1 through FAMRM5

Type:   Numeric
Edit flag variable:  JFAMRM
Allocation Matrix:  Matrix B
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [[NOT occupied interview or URE interview or vacant interview]]
**FLOODPLN**
Unit in a flood plain

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Is this property in a flood plain?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [There are no bodies of water within half a block of unit] ; OR
2 : [Noninterview]
**FLOORS** =
Number of stories in building

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:20</td>
<td>1 TO 20</td>
</tr>
<tr>
<td>21</td>
<td>21 or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Long description:*
How many stories are there in this building?
(IF SPLIT LEVEL, COUNT GREATEST NUMBER OF STORIES ON TOP OF EACH OTHER)

<table>
<thead>
<tr>
<th>Type</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable</td>
<td>J LOORS</td>
</tr>
<tr>
<td>Allocation Matrix</td>
<td>Matrix E</td>
</tr>
<tr>
<td>Topcoded</td>
<td>Yes</td>
</tr>
<tr>
<td>Module 1999 and earlier</td>
<td>houshd</td>
</tr>
<tr>
<td>Module 2001 and later</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Notes:*
For the National Survey, the variable has a topcode computed for each SMSA-METRO3 combination shown in the public use file.
For the Metro Survey, the variable has a topcode computed for each SMSA-ZONE combination shown in the public use file.

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
**FLOT**
Heating equipment vented to outside

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Yes, VENTED to the outside through a chimney, flue, or pipes</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Is it VENTED to the outside through a chimney, flue, or pipes
OR is it UNVENTED?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1: 

   [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR

2: 

   [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR

3: 

   [(Occupied interview or URE interview or vacant interview)] AND [Working room heaters] ; OR

4: 

   [(NOT occupied interview or URE interview or vacant interview)]
FPINS = Fireplace has inserts

1  Yes, all with inserts
2  Yes, some with inserts
3  No, none have inserts
B  Not applicable
D  Don't Know
R  Refused

Long description: Does it have inserts, that is, equipment designed to circulate more heat into the room?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Don't consider fireplace to be heating equipment] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FPLWK**
Unit has useable fireplace

1  Yes
2  No
B  Not applicable

*Long description:*
Does this housing unit have a useable fireplace?

Type: Numeric
Edit flag variable: JFPLWK
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
FRPL = Fireplace does not have inserts

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>No, none have inserts</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

Long description:
Does it have inserts, that is, equipment designed to circulate more heat into the room?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshold
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR
2: [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)]
FRPLI = Fireplace has inserts

X  Yes, some or all with inserts
B  Not applicable
Blank  Not reported

Long description:
Does it have inserts, that is, equipment designed to circulate more heat into the room?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
FRSTOC =
Current occupants are first occupants

1  First occupants
2  Previously occupied
B  Not applicable
D  Don’t Know
R  Refused
Blank  Not reported

Long description:
Were you the first occupant to occupy this home or did someone else live here before you did?

Type: Character
Edit flag variable: JRSTOC
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Unit was built before 1990] ; OR
3 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**GARAGE** =
Garage or carport included with unit

1    Yes
2    No
B    Not applicable
D    Don't Know
R    Refused
Blank  Not reported

*Long description:*
Is a garage or carport included with this housing unit?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>JARAGE</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshold</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1: [(NOT occupied interview or URE interview or vacant interview)]

**HALB** =
Additional half bathrooms in unit

1    Yes
2    No

*Long description:*
Do you have any additional half bathrooms anywhere in your home?
Is that in an area or room adjoining any your bathroom?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshold</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
<tr>
<td>Present in survey year(s):</td>
<td>1997N, 1998MSA</td>
</tr>
</tbody>
</table>

152 Unit October 10, 2006
HALFB =
Number of half bathrooms in unit

0:10  0-10 Half Bathrooms
B  Not applicable

Long description:
Recoded sum of HALFB1 through HALFB5

Type: Numeric
Edit flag variable: JHALFB
Allocation Matrix: Matrix B
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]

HOTPIP =
Unit has hot & cold running water

1  Yes
2  No
B  Not applicable

Long description:
Does this full bath contain both hot and cold water?
Does this housing unit have both hot and cold water?

Type: Character
Edit flag variable: JOTPPIP
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
**INCP =**
Offstreet parking included

1  Yes  
2  No  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*
Is a driveway/lot/parking area off the street provided?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit has garage] ; OR  
2 : [(NOT occupied interview or URE interview or vacant interview)]

**KEXCLU =**
Kitchen facilities for household use only

1  Yes  
2  No  
B  Not applicable

*Long description:*
Are these kitchen facilities for your household's use only/only for the use of future tenants/owners?

**Type:** Character  
**Edit flag variable:** JEXCLU  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview) and (Apartment building or Attached mobile home)] AND [Unit doesn't have kitchen sink or No working refrigerator or (Unit
does not have working cook stove and/or range oven and Unit does not have working cooking burners and No working microwave oven - other); OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building and NOT attached mobile home]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]

**KITCH**
Number of kitchens in unit

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5</td>
<td>0-5 Kitchens</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Long description:* Recoded sum of KITCH1 through KITCH5

*Type:* Numeric

*Edit flag variable:* J KITCH

*Allocation Matrix:* Matrix B

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
KITCHEN =
Complete kitchen facilities in unit

1 Have complete kitchen facilities
2 Lacking complete kitchen facilities
B Not applicable

Long description:
To have complete kitchen facilities, the unit must meet the following conditions:
Single unit HUs: must have a sink, refrigerator, and (range, cookstove, microwave, or built-in cooking burners) in the kitchen

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: toppuf
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

LAT70S =
Year unit built in late 1970s

5:9 1975-1979
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
We have some additional questions for older homes. We have recorded that your house was built in the late 1970's. What was the exact year?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1: [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)]; OR
2: [Occupied interview] AND [Unit was built during 1970 or earlier and Unit was built during or after 1919]; OR
3: [NOT occupied interview]
**LAUNDY**
Number of laundry/utility rooms in unit

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0:5</td>
<td>0-5 Laundry/utility rooms</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Long description:*
Recoded sum of LAUNDY1 through LAUNDY5

- **Type:** Numeric
- **Edit flag variable:** JAUNDY
- **Allocation Matrix:** Matrix B
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]

---

**LIVING**
Number of living rooms in unit

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0:5</td>
<td>0-5 Living rooms</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Long description:*
Recoded sum of LIVING1 through LIVING5

- **Type:** Numeric
- **Edit flag variable:** JIVING
- **Allocation Matrix:** Matrix B
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
LOT =
Square footage of lot

200:999998  200-999,998 Square feet
B  Not applicable
.  Not reported

Long description:
This variable was created by the bridge system.
About how large is the lot?
*** 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 1 ACRE, CONVERT TO APPROXIMATE SQUARE FEET ***
One eighth acre = 5500 sq. ft.  Half acre = 22000 sq. ft.
Quarter acre = 11000 sq. ft.  Three quarters acre = 33000 sq. ft.
One third acre = 14000 sq. ft.  One acre = 44000 sq. ft.

Type:    Numeric
Edit flag variable:  JLOT
Allocation Matrix:  Matrix E
Topcoded:  Yes
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Apartment building or
Attached mobile home] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
3 : [Occupied interview and Owned] AND [(Unit is a condo or cooperative)]
LVCARP = Wall-to-wall carpeting in living room

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Is there wall-to-wall carpeting in living room?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)]; OR
2 : [Occupied interview] AND [(The number of living rooms in a unit is not between 1 and 5)]; OR
3 : [Occupied interview] AND [The unit does not have any wall to wall carpeting]; OR
4 : [Occupied interview] AND [No carpeting in unit]; OR
5 : [Occupied interview] AND [Unit was built in or after 1978]; OR
6 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVEYEAR + 1)]; OR
7 : [NOT occupied interview]

MOBILTY = Manufactured/mobile home type

1  Single-wide unit
2  Double-wide or larger unit
B  Not applicable
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N
**MOPERM =**
# months since occupied as permanent home

0    Less than 1 month
1:24  1-24 MONTHS
25    Over 2 years
26    NEVER OCCUPIED AS A PERMANENT HOME
27    Don't know
B     Not applicable
D     Don't Know
R     Refused
.     Not reported

*Long description:*
How many months has it been since this housing unit was occupied as a permanent home?

**Type:** Numeric
**Edit flag variable:** JOPERM
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1: [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)] OR
2: [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)] OR
3: [Occupied interview and Owned] AND [(The current value of the land is between 1 and 999998) or Does not know what the current value of the land is or Refused to answer what the current value of the land was] OR
4: [Occupied interview and Owned] AND [Household doesn't own land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits or Not reported if household owns land on which mobile home sits] OR
5: [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
NOOTHRM =
No other rooms in unit

X     No OTHER rooms
B     Not applicable
Blank Not reported

Long description:
Besides all of these rooms, are there any OTHER rooms in your home?
If "Yes"- What are they? "How many?" (enter in list below)
If "No" - Enter "X" here: No OTHER rooms
(ENTER THE NUMBER OF EACH TYPE OF ROOM RESPONDENT MENTIONS.
DO NOT COUNT THE SAME ROOM MORE THAN ONCE.)

Type: Character
Edit flag variable: J NOOTH
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1999N

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
NUMAIR =
Number of room air conditioners

1:7
8  8 or more
B  Not applicable

Long description:
How Many?

Type: Numeric
Edit flag variable: JUMAIR
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(Occupied interview or URE interview or vacant interview)] AND [Room air conditioners are not used or Does not know if there is a room air conditioner or Refused to answer whether there is a room air conditioner] ; OR
2: [(NOT occupied interview or URE interview or vacant interview)]
**NUNIT2**
Structure type

1  One-unit building, detached from any other building
2  One-unit building, attached to one or more buildings
3  Building with two or more apartments
4  Manufactured (mobile) home
B  Not applicable

*Long description:*
These living quarters in a -

*Type:* Character
*Edit flag variable:* JUNIT2
*Allocation Matrix:* Matrix A
*Topcoded:* No
*Module 1999 and earlier:* houshold
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
For 1997 and 1999 National and 1998 Metro surveys the categories for mobile homes are:
4 = One-unit mobile home
5 = Two or more unit mobile home

*Conditions not in universe:*
1 : ([Occupied interview or URE interview or vacant interview]) AND ([Unoccupied site for mobile home, trailer or tent or group quarters]); OR
2 : [Noninterview] AND ([Type A noninterview]); OR
3 : [Noninterview] AND ([Type B noninterview]); OR
4 : [Noninterview] AND ([Type C noninterview])
NUNITS =
Number of units in building

1: 997 1-997 apartments
998 998 apartments or more
B Not applicable

Long description:
How many apartments, both occupied and vacant, are in the building?

Type: Numeric
Edit flag variable: JUNITS
Allocation Matrix: Matrix A
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable has a topcode computed for each SMSA-METRO3 combination shown in the public use file.
For the Metro Survey, the variable has a topcode computed for each SMSA-ZONE combination shown in the public use file.

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Unoccupied site for mobile home, trailer or tent or group quarters)]; OR
2 : [Noninterview] AND [(Type A noninterview)]; OR
3 : [Noninterview] AND [(Type B noninterview)]; OR
4 : [Noninterview] AND [(Type C noninterview)]
**OARSYS**
Unit has another central a/c system

1  Yes
2  No
B  Not applicable

*Long description:*
Besides this heat pump, does this home have another CENTRAL air conditioning system? Does this home have ANOTHER CENTRAL air conditioning system?

**Type:** Character
**Edit flag variable:** JARSYS
**Allocation Matrix:** Matrix E
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [Central air conditioning system is not used] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]

**OBEDRM**
Number of offices used for bedroom

0  No offices are also used as bedrooms/guest rooms
1:10  1-10 offices are also used as bedrooms/guest rooms

*Long description:*
This variable was created by the bridge system. Concerning the offices(s) NOT used exclusively for business, what else are they used for?

**Type:** Numeric
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 1997N
**ODIN =**
Number of offices used as dining room

0  No offices are also used as dining rooms
1:5  1-5 offices are also used as dining rooms

*Long description:*
This variable was created by the bridge system.
Concerning the offices(s) NOT used exclusively for business, what else are they used for?

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N

**ODIRAC =**
Number of offices having direct access

0  No offices have direct access to the outside
1:10  1-10 offices have direct access to the outside

*Long description:*
This variable was created by the bridge system.
And, how many offices used exclusively for business have direct access to the outside?

*Type:* Numeric
*Edit flag variable:* JDIRAC
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N
**OKITCH**
Number of offices used for kitchen

0  No offices are also used as kitchens
1:5  1-5 offices are also used as kitchens

*Long description:*
This variable was created by the bridge system.
Concerning the offices(s) NOT used exclusively for business, what else are they used for?

**Type:** Numeric
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 1997N

---

**OLIVIN**
Number of offices used for living room

0  No offices are also used as living rooms
1:5  1-5 offices are also used as living rooms

*Long description:*
This variable was created by the bridge system.
Concerning the offices(s) NOT used exclusively for business, what else are they used for?

**Type:** Numeric
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 1997N
OOTHRM =
Number of offices used for other room

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No offices are also used as other rooms</td>
</tr>
<tr>
<td>1:5</td>
<td>1-5 offices are also used as other rooms</td>
</tr>
</tbody>
</table>

*Long description:*
This variable was created by the bridge system.
Concerning the offices(s) NOT used exclusively for business, what else are they used for?

**Type:** Numeric

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Unit of observation:** HOUSEHOLD

**Present in survey year(s):** 1997N

OTBUP =
Other building on property used as living quarters

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don’t Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Is there any other building on the property for people to live in--either occupied or vacant?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


*Conditions not in universe:*
1 : [Noninterview] AND [(Type A noninterview)]; OR
2 : [Noninterview] AND [(Type B noninterview)]; OR
3 : [Noninterview] AND [(Type C noninterview)]
**OTHFN**
Number of other finished rooms in unit

0:10  0-10
B   Not applicable

*Long description:*
Recoded sum of OTHFN1 through OTHFN5

*Type:* Numeric
*Edit flag variable:* J OTHFN
*Allocation Matrix:* Matrix B
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
Prior to 2001 National survey, the maximum value for OTHFN was 5.

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
**OTHLQ =**
Other living quarters on property

1       Yes
2       No
B       Not applicable
D       Don't Know
R       Refused
Blank   Not reported

*Long description:*
This variable was created by the bridge system.
Are there any occupied or vacant apartments besides yours in this house?
Are there any occupied or vacant apartments besides yours in this house/building?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Unoccupied site for mobile home, trailer or tent or group quarters)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [NOT house, apartment, flat or mobile home]; OR
3 : [Noninterview] AND [(Type A noninterview)]; OR
4 : [Noninterview] AND [(Type B noninterview)]; OR
5 : [Noninterview] AND [(Type C noninterview)]
OTHLQ1 =
Other apartments in building

1  Yes
2  No

Long description:
Are there any occupied or vacant apartments besides yours in this house/building?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N

OTHLQ2 =
Other apartments in building

1  Yes
2  No

Long description:
Are there any occupied or vacant apartments besides yours in this house?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N
**OTHRUN**
Number of other unfinished rooms in unit

0:5 0-5 Other Unfinished rooms  
B Not applicable

**Long description:**  
Recoded sum of OTHUN1 through OTHUN5

**Type:** Numeric  
**Edit flag variable:** JTHRUN  
**Allocation Matrix:** Matrix B  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**  
1 : [(NOT occupied interview or URE interview or vacant interview)]

**OVEN**
Unit has a working microwave oven

1 Yes  
2 No  
B Not applicable

**Long description:**  
Does this housing unit have a microwave oven that is in working order?

**Type:** Character  
**Edit flag variable:** JOVEN  
**Allocation Matrix:** Matrix E  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**  
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit has working cooking burners]; OR  
2 : [(Occupied interview or URE interview or vacant interview)] AND [Unit have working cook stove and/or range oven]; OR  
3 : [(NOT occupied interview or URE interview or vacant interview)]
OWNHERE =
Owner/resident manager lives on-site

1 Yes
2 No
B Not applicable

Long description:
Does either the owner or a resident manager live in this building/complex?
(Exclude staff who do only maintenance.)

Type: Character
Edit flag variable: JWNHER
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: owner
Module 2001 and later: owner
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(One-unit mobile home and Less than 2 mobile homes in group) or (One-unit building)]
OWNLOT =
Household owns the land

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
This variable was created by the bridge system.
Do you own the land?

Type: Character
Edit flag variable: JWNLOT
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [((Occupied interview and (One-unit or apartment building) and Not owned) or ((URE interview or vacant interview) and ((One-unit or apartment building) or Mobile home to be moved)) or Noninterview)] AND [Reported if household owns the land]

PERSERV =
Management provides personal care assistance

1 Yes
2 No
B Not applicable
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N

Notes:
One or more instances of assistance with bathing, eating, moving about, dressing, toilet use
**PHONE**
Telephone available for use

1 Telephone in unit or one is available for the household’s use
2 No telephone in unit and none available for the household's use
B Not applicable
D Don't Know

*Long description:*
This recode indicates whether or not a telephone is in the housing unit. If there is no telephone in the unit, then the recode indicates whether or not there is a telephone available somewhere for the household’s use.

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** toppuf
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD
PLUGS =
Every room has working electrical plug

1    Yes
2    No
B    Not applicable

Long description:
In our last interview in (date) we recorded that every room had an electrical outlet or wall plug that worked. Is this still correct? Does every room have an electrical outlet or wall plug that works?

Type: Character
Edit flag variable: J PLUGS
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No electrical wiring]; OR
2 : [Noninterview]
**PORCH**
Unit has porch/deck/balcony/patio

1  Yes
2  No
B  Not applicable

*Long description:*
Does this housing unit have a porch, deck, balcony, or patio?
(Measuring at least 4 feet by 4 feet)

*Type:* Character
*Edit flag variable:* JPORCH
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]

**PUBSEW**
Unit connected to public sewer

1  Yes
2  No
B  Not applicable

*Long description:*
Is this housing unit connected to a public sewer?

*Type:* Character
*Edit flag variable:* JUBSEW
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)l]
**RECRM**
Number of recreation rooms in unit

0:5  0-5 Recreation rooms  
B  Not applicable

*Long description:*
Redecoded sum of RECRM1 through RECRM5

_Type:_ Numeric  
_Edit flag variable:_ J RECRM  
_Allocation Matrix:_ Matrix B  
_Topcoded:_ No  
_Module 1999 and earlier:_ houshld  
_Module 2001 and later:_ newhouse  
_Unit of observation:_ HOUSEHOLD  

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]

**REFR**
Unit has a working refrigerator

1  Yes  
2  No  
B  Not applicable

*Long description:*
Does this housing unit have a refrigerator that is in working order?  
(Exclude ice boxes.)

_Type:_ Character  
_Edit flag variable:_ J REFR  
_Allocation Matrix:_ Matrix E  
_Topcoded:_ No  
_Module 1999 and earlier:_ houshld  
_Module 2001 and later:_ newhouse  
_Unit of observation:_ HOUSEHOLD  

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
**ROOMS**
Number of rooms in unit

1:20  1-20 rooms  
21   21 rooms or more  
B    Not applicable

Type: Numeric  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: Yes  
Module 1999 and earlier: toppuf  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  

Notes:
Top coded at 21. Listed topcode appears on microdata.

**ROOMSA**
Rooms used for both business & other

1    Yes  
2    No

*Long description:*
Are any of your rooms used both as business space and for something else, such as a guest room?

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Unit of observation: HOUSEHOLD  
Present in survey year(s): 1998MSA, 2004MSA
ROOMSB =
Number of rooms used for both business & other

1:99 1-99 rooms used for both business and something else

Long description:
How many rooms are used for both?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1998MSA, 2004MSA

SEWDIS =
Type of sewage disposal

1  Septic tank or cesspool
2  Chemical toilet
3  Outhouse or privy
4  Other
5  None
B  Not applicable

Long description:
What means of sewage disposal does this housing unit have?

Type: Character
Edit flag variable: J EWDIS
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit connected to public sewer]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
SEWDUS =
Number of units connected to sewage system

1  One
2  2 to 5
3  6 or more
B  Not applicable

Long description:
How many homes are connected to the sewage system?

Type: Character
Edit flag variable: J EWDUS
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Chemical toilet or outhouse or privy or other non-septic tank or none sewage disposal) or Don't know type of sewage disposal or Refused to disclose type of sewage disposal]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Unit connected to public sewer]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**SHARAT**
Unit shares attic or basement

1  Yes
2  No
B  Not applicable
D  Don't Know

**Long description:**
Does this housing unit share an attic or basement with the housing unit next door?

- **Type:** Character
- **Edit flag variable:** J HARAT
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Unoccupied site for mobile home, trailer or tent or group quarters)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [NOT detached building and Unit doesn't share attic or basement and Unit doesn't share furnace or boiler]; OR
3 : [Noninterview] AND [(Type A noninterview)]; OR
4 : [Noninterview] AND [(Type B noninterview)]; OR
5 : [Noninterview] AND [(Type C noninterview)]
**SHARFR**
Unit shares furnace or boiler

1  Yes
2  No
B  Not applicable

*Long description:*
Does this housing unit share a furnace or boiler with the housing unit next door?

*Type:* Character
*Edit flag variable:* JHARFR
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Unoccupied site for mobile home, trailer or tent or group quarters)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [(NOT detached building and Unit doesn't share attic or basement and Unit doesn't share furnace or boiler)]; OR
3 : [(Occupied interview or URE interview or vacant interview)] AND [(Unit shares attic or basement)]; OR
4 : [Noninterview] AND [(Type A noninterview)]; OR
5 : [Noninterview] AND [(Type B noninterview)]; OR
6 : [Noninterview] AND [(Type C noninterview)]
**SINHV**
Inherited this vacant/URE unit

X  It was inherited  
B  Not applicable  
Blank  Not reported

*Long description:*
Which of the following reasons is why the owner(s) own this housing unit?

Because

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**SINK**
Unit has kitchen sink

1  Yes  
2  No  
B  Not applicable

*Long description:*
Does this housing unit have a kitchen sink?

**Type:** Character  
**Edit flag variable:** JSINK  
**Allocation Matrix:** Matrix E  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]]
**SINVV**

Own vacant/URE unit as an investment

- X: It is for investment purposes
- B: Not applicable
- Blank: Not reported

*Long description:*
Which of the following reasons is why the owner(s) own this housing unit?
Because

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**SOTHV**

Own vacant/URE unit for some other reason

- X: Some other reason (SPECIFY)
- B: Not applicable
- Blank: Not reported

*Long description:*
Which of the following reasons is why the owner(s) own this vacant/URE housing unit?
Because

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
SRECV =
Own vacant/URE unit for recreation

X  It is used for recreational purposes
B  Not applicable
Blank  Not reported

Long description:
Which of the following reasons is why the owner(s) own this vacant/URE housing unit?
Because

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

SRENTV =
Number of nights vacant/URE unit was rented out

1  0-2 nights
2  3-7 nights
3  8 or more nights
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
In the past year, how many nights was this vacant/URE housing unit rented out?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**SSELV** =
Want to sell vacant/URE unit - not sold yet

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Owner(s) wish to sell it but have not yet been able to</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
Which of the following reasons is why the owner(s) own this vacant/URE housing unit?
Because

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshd
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
STEAM =
Steam system used as supplemental heating equip

X Steam/hot water system with radiators OR other system using steam/hot water
B Not applicable
D Don't Know
Blank Not reported

Long description:
What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]

STORG =
Number of storage rooms/pantries in unit

0:5 0-5 Storage rooms/Pantries

Long description:
Recoded sum of STORG1 through STORG5

Type: Numeric
Edit flag variable: J STOR G
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA
TELAV =
Telephone available elsewhere

1 Yes
2 No

Long description:
Is there a telephone elsewhere on which people in this household can be contacted?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

TELHH =
Telephone in housing unit

1 Yes
2 No

Long description:
If we need to contact you by telephone to followup on missing data, is there a telephone in this housing unit?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA
**TENURE**

Owner/renter status of unit

1. Owned or being bought by someone in your household?
2. Rented for cash rent
3. Occupied without payment of cash rent?
B  Not applicable

*Long description:*
Is this housing unit -
READ CATEGORIES UNTIL A "YES" REPLY IS RECEIVED

*Type:* Character
*Edit flag variable:* JENURE
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1. [(URE interview or vacant interview)] ; OR
2. [Noninterview] AND [(Type B noninterview)] ; OR
3. [Noninterview] AND [(Type C noninterview)]
TIMSHR = Ownership of unit time shared

1  Yes
2  No
B  Not applicable

Long description:
Is the ownership of this housing unit time-shared?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)]; OR
2 : [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)]; OR
3 : [Occupied interview and Owned] AND [(The current value of the land is between 1 and 999998) or Does not know what the current value of the land is or Refused to answer what the current value of the land was]; OR
4 : [Occupied interview and Owned] AND [Household doesn't own land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits or Not reported if household owns land on which mobile home sits]; OR
5 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**TRASH**

Unit has working built-in trash compacter

1  Yes  
2  No  
B  Not applicable

*Long description:*
Recode created from TRASHQ, APPLWK, TRASHWK, TRASHFX

*Type:* Character  
*Edit flag variable:* JTRASH  
*Allocation Matrix:* Matrix E  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]

**TUB**

Unit has a bathtub or shower

1  Yes  
2  No  
B  Not applicable

*Long description:*
Does this full bath contain a bathtub or a shower?  
Does this housing unit have a bathtub or a shower?

*Type:* Character  
*Edit flag variable:* JTUB  
*Allocation Matrix:* Matrix E  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]]
TYPE =

Structure type

1    House, apartment, flat
2    Mobile home with No permanent room added
3    Mobile home with permanent room added
4    HU, in nontransient hotel, motel, etc.
5    HU, in permanent transient hotel, motel, etc.
6    HU, in rooming house
7    Boat or recreation vehicle
8    Tent, cave, or railroad car
9    HU, not specified above
10   Unoccupied site for mobile home, trailer or tent
11   Group Quarters
B    Not applicable

Are your living quarters in a -

Type: Numeric
Edit flag variable: J TYPE
Allocation Matrix: Matrix A
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview] AND [(Type C noninterview)]
UNITSF =
Square footage of unit

99  99 square feet or less
100:99997  100-99,997 square feet
99998  98,998 square feet or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
This variable was created by the bridge system.
Thinking about all the rooms you mentioned earlier, as well as
the hallways and entry ways in this housing unit,
about how many square feet is that?
(Include: Finished attics. Exclude: Unfinished attics, carports,
and attached garages. Also exclude porches that are not protected
from the elements and heated.

Type: Numeric
Edit flag variable: JNITSF
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
**VACANCY**

Vacancy status

1  For rent only
2  For rent or for sale
3  For sale only
4  Rented, but not yet occupied
5  Sold, but not yet occupied
6  Held for occasional use throughout the year
7  Other (specify)
8  Seasonal-Summer only
9  Seasonal-Winter only
10  Other seasonal (SPECIFY)
11  Migratory
B  Not applicable

*Long description:*

Does the owner/manager intend for this housing unit to be -
Is that housing unit -
Is seasonal housing unit INTENDED for year-round use, for occupancy only on a seasonal basis, or for use by migrant workers?

**Type:** Numeric

**Edit flag variable:** JVANCAN

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshold

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


*Conditions not in universe:*

1 : [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)] ; OR
2 : [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)] ; OR
3 : [Occupied interview and Owned] AND [(The current value of the land is between 1 and 9999998) or Does not know what the current value of the land is or Refused to answer what the current value of the land was] ; OR
4 : [Occupied interview and Owned] AND [Household doesn't own land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits or Not reported if household owns land on which mobile home sits] ; OR
5 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**WASH**
Unit has a working washing machine

1 Yes
2 No
B Not applicable

**Long description:**
Recode created from WASHQ, APPLWK, WASHWK, WASHFX

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>J WASH</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>Matrix E</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**Conditions not in universe:**
1 : [(NOT occupied interview or URE interview or vacant interview)]
**WATER** =
Source of water for unit

1 Public or private system
2 Individual well
3 Spring
4 Cistern
5 Stream or lake
6 Commercial bottled water
7 Other
B Not applicable

*Long description:*
Does most of the water for this housing unit come from a water system, either public or private, from an individual well, or from some other source?

*Type:* Character
*Edit flag variable:* J WATER
*Allocation Matrix:* Matrix E
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
**WATERD =**  
Source of drinking water

1  Public or private water system  
2  Individual well  
3  Spring  
4  Cistern  
5  Stream or lake  
6  Commercial bottled water  
7  Other; SPECIFY  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*
Where do you get your water for drinking?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [Water safe for drinking & cooking or Don't know if water safe for drinking & cooking or Refuse to disclose if water safe for drinking & cooking]; OR  
2 : [(NOT occupied interview or URE interview or vacant interview)]; OR  
3 : [URE interview or Vacant interview] AND [Water NOT safe for drinking & cooking]
**WELDUS**
Number of units this water source serves

1  Only this home
2  2 to 5
3  6 to 9
4  10 to 14
5  15 or more
B  Not applicable

*Long description:*
How many homes does the water source serve?

*Type:* Character
*Edit flag variable:* JELDUS
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [Water source other than public or private, natural, or bottled]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**WELL =**

Well drilled or dug

1  Drilled
2  Dug
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Is the well drilled or dug?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Notes:**
A q-code error in the 2003 National Survey caused some ineligible households to be asked the verify version of the question rather than the- Is the well drilled or dug? - question. This causes the number of not reported drilled versus dug wells to double from 2001 to 2003 in the data.

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [Public or private water system or (Spring or cistern or 'stream or lake' source of water)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Source of water - commercial bottled water]; OR
3 : [(Occupied interview or URE interview or vacant interview)] AND [Water source other than public or private, natural, or bottled]; OR
4 : [(NOT occupied interview or URE interview or vacant interview)]
**WFPROP =**
Unit is waterfront property

<p>| | | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Long description:*
Would you call this housing unit waterfront property?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [There are no bodies of water within half a block of unit] ; OR
2 : [Noninterview]
WHNGET =
Year unit bought/obtained/received

1900:2001  1900-2001
B  Not applicable

Long description:
When did this household bought/obtained/received the unit?
(IF LAND AND BUILDING BOUGHT AT DIFFERENT TIMES, BUILDING ONLY)

Type: Numeric
Edit flag variable: JHNGET
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)]; OR
2 : [Occupied interview] AND [Not owned]; OR
3 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
YRRND =
Unit suitable for year round use

1  Yes
2  No
B  Not applicable
D  Don't Know

Long description:
Does the construction and heating of this housing unit make it suitable for year-round use?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(NOT seasonal or migratory)]; OR
2 : [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)]; OR
3 : [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)]; OR
4 : [Occupied interview and Owned] AND [(The current value of the land is between 1 and 999998) or Does not know what the current value of the land is or Refused to answer what the current value of the land was]; OR
5 : [Occupied interview and Owned] AND [Household doesn't own land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits or Not reported if household owns land on which mobile home sits]; OR
6 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
Unit Quality

Data in this section 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 maintenance and repairs information.

Notes:

Housing adequacy: This three-scale index, in which one is adequate and three is severely inadequate, is a summary measure of housing quality. The criteria used to create this index is provided in the long description for the variable.

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. The condition of stairways is reported for all units.

Peeling paint: Peeling paint must be on the inside walls or ceilings, and at least one area of the peeling paint must be larger than 8 inches by 11 inches.

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 sign 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. This 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. This item is available if the respondent reported that water did leak from the outside in the last 12 months.

Other leakages: 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.

**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 breakdown:** 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 refers to the three months before the interview unless the respondent has been in the unit for less than three months. Data on breakdowns or failure 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. 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 of 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.

**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 rooted, 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.
Unit is uncomfortably cold: Respondents are asked if any of the occupants of the unit last winter experienced discomfort because the unit was too cold for 24 consecutive hours or more. The respondent’s definition of “last winter” is accepted. The reasons for discomfort due to cold are also provided.

Radon, asbestos and water quality tests: Respondents are asked if the buyer, seller, or their representative made any inquiries, inspected or tested the house for any of the listed conditions. They are also asked if water is safe for drinking and cooking.
BADSTEP =
Loose/broken/missing steps in common stairs

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No common stairways</td>
</tr>
<tr>
<td>2</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
Do the common stairways located inside this building or attached to the outside of this building have any loose, broken or missing steps?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building and NOT attached mobile home] ; OR
2 : [Noninterview]

BDSTPQ =
Loose/broken/missing steps in common stairs

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>No common stairways</td>
</tr>
</tbody>
</table>

**Long description:**
Do the common stairways located inside this building or attached to the outside of this building have any loose, broken or missing steps?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Unit of observation:** HOUSEHOLD

**Present in survey year(s):** 1997N
BLDMNT = Satisfaction with building maintenance

1  Completely satisfied
2  Partly satisfied
3  Dissatisfied
4  Landlord not responsible for building maintenance
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description: On maintenance of the building, are you completely satisfied, partly satisfied, or dissatisfied?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)]; OR
2 : [Occupied interview] AND [Owned]; OR
3 : [Noninterview]
BLEAK =
Water leak in basement

X  Basement
B  Not applicable
Blank  Not reported

Long description:
Did the water come in from the --

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [There have not been any outside water leaks within the last 12 months] ; OR
3 : [Noninterview]

BSINK =
Unit has a bathroom sink

1  Yes
2  No
B  Not applicable

Long description:
Does this full bath contain a bathroom sink?
Does this housing unit have a bathroom sink?

Type: Character
Edit flag variable: JBSINK
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview  or URE interview or vacant interview)]
CRACKS =
Open cracks wider than dime

1        Yes
2        No
B        Not applicable

Long description:
People sometimes have problems with cracks or holes in their home's
floors, walls, or ceilings -- not little hairline cracks or
nail holes, but OPEN cracks or holes.
In the INSIDE walls or ceilings of this housing unit,
are there any OPEN HOLES or CRACKS WIDER THAN THE EDGE OF A DIME?

Type: Character
Edit flag variable: J CRACKS
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview]

DFIRE =
Type C-30/31 severely damaged by fire

1        Yes
2        No

Long description:
Was that unit demolished, moved, or considered a disaster loss, because it was severely damaged by fire?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

Conditions not in universe:
1 : [Noninterview] AND [[NOT demolished disaster losses or NOT moved]] ; OR
2 : [NOT noninterview]
DISAS =
Type C severely damaged by natural disaster

1 Yes
2 No
B Not applicable
Blank Not reported

Long description:
Other natural disaster?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview] AND [[NOT demolished disaster losses or NOT moved]] ; OR
2 : [NOT noninterview]
**DORREP** =
Any doors repaired/replaced in unit

1   Yes
2   No
B   Not applicable
D   Don't Know
R   Refused
Blank  Not reported

*Long description:*
In the past 2 years, have any doors or door frames in your home been replaced or repaired?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1999N

*Conditions not in universe:
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [NOT occupied interview]*
**EBOARD**
Windows boarded up

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Are any of the windows in this housing unit boarded up?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
**EBROKE** =
Windows broken

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Are any of the windows in this housing unit broken?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
**ECRUMB**
Holes/cracks or crumbling in foundation

<table>
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<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Are there holes or open cracks or crumbling in the foundation of this housing unit--that is, in the base on which the housing unit stands? (Do not count holes made for ventilation)

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**  
1 : [Noninterview]

**EGOOD**
No listed conditions seen in/on unit

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No listed conditions seen in or on the unit</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
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</tbody>
</table>

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**  
1 : [Noninterview]
**EHOLER**

Roof has holes

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:*
Does the roof have any holes?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]

**ELEVWK**

At least one elevator in working order

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N
EMISSR =
Roof missing shingles/other roofing materials

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
The next questions are about the CONDITION of the outside of this housing unit.
Does the roof have missing shingles or other missing roofing materials?
(Do not count gutters or downspouts)

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [Noninterview]
**EMISSW** =
Outside walls missing siding/bricks/etc

1  Yes  
2  No   
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*
Do the outside walls have any missing siding, bricks, or other missing wall materials?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
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</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
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<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [Noninterview]
**ESAGR =**
Roof's surface sags or is uneven

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Does the roof's surface sag or appear uneven?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
ESLOPW =
Outside walls slope/lean/slant/buckle

1  Yes
2  No
B  Not applicable
D  Don’t Know
R  Refused
Blank  Not reported

Long description:
Do the outside walls slope, lean, buckle or slant?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview]
**EVROD**
Evidence of rodents in unit

1 Yes
2 No
B Not applicable

**Long description:**
Have you ever seen signs of mice or rats INSIDE your housing unit? (EXCLUDE RATS/MICE KEPT AS PETS OR SNAKE FOOD OR OTHERWISE DELIBERATELY BROUGHT INSIDE)

**Type:** Character
**Edit flag variable:** J EVROD
**Allocation Matrix:**
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(URE interview or vacant interview)]; OR
2 : [Noninterview]
**EXPOSE**

Type B interior exposed to elements

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Exposed to the elements?</td>
</tr>
<tr>
<td>2</td>
<td>Not exposed to the elements?</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Is the interior-

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
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<tbody>
<tr>
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<td>Module 1999 and earlier:</td>
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<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [Noninterview] AND [NOT a storage and (NOT OTHER unit or converted to institutional unit or occupancy is NOT prohibited)] ; OR
2 : [NOT noninterview]
**FREEZE**
Unit cold for 24+ hrs was uncomfortable

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<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>Did not live here last winter</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Last winter, for any reason, was your housing unit so cold for 24 hours or more that it was uncomfortable?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR  
2 : [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] ; OR  
3 : [Noninterview]
GRDMNT = Satisfaction with grounds maintenance

1 Completely satisfied
2 Partly satisfied
3 Dissatisfied
4 Landlord not responsible for ground maintenance
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description: On maintenance of the grounds, are you completely satisfied, partly satisfied, or dissatisfied?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Owned] ; OR
3 : [Noninterview]
**HOLES**
Holes in floor

1  Yes
2  No
B  Not applicable

*Long description:*
How about the floors in this housing unit
Are any holes in the floors big enough for someone to catch their foot on?
(ABOUT 4 INCHES ACROSS ABOUT THE HEIGHT OF A SOUP CAN)

Type: Character
*Edit flag variable:* J HOLES
*Allocation Matrix:* Matrix E
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
**HOWH**
Rating of unit as a place to live

1:10 Rating (10 is best, 1 is worst)
B Not applicable
D Don't Know
R Refused
. Not reported

**Long description:**
On a scale of 1 to 10, how would you rate your unit as a place to live?

**Type:** Numeric
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [NOT occupied interview]
**IFBLOW** =
Fuses blown or circuit breakers tripped

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<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Have any fuses blown or circuit breakers tripped in your home?

**Type:** Character
**Edit flag variable:** J FBLOW
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : ([Occupied interview or URE interview or vacant interview]) AND [No electrical wiring] ; OR
2 : [Noninterview]
**IFCOLD**
Main heating equipment broke down

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<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No, didn't break down OR no heating equipment</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
</tbody>
</table>

*Long description:*
Was that because the MAIN heating equipment broke down?

**Type:** Character

**Edit flag variable:** JFCOLD

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1: [(URE interview or vacant interview)] OR
2: [Occupied interview] AND [Unit was not unbearably cold for 24 hours last winter] OR
3: [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] OR
4: [Noninterview]
**IFDRY**

Unit completely without running water

1  Yes
2  No water stoppage
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Was your home ever COMPLETELY without running water

*Type:* Character  
*Edit flag variable:* JIFDRY  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshold  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR  
2 : [Occupied interview] AND [Unit does not have hot and cold running water] ; OR  
3 : [Noninterview]
IFSEW = 
Sewage system broke down

1 Yes
2 No
B Not applicable

Long description:
Did the sewage system break down in your home -- that is, since last interview?

Type: Character
Edit flag variable: JIFSEW
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Unit is NOT connected to public sewer and (NOT septic tank or cesspool or chemical toilet sewage disposal)] ; OR
3 : [Noninterview]
**IFTLT** =
Any toilet breakdowns in last 3 months

1. Yes
2. No
B. Not applicable
D. Don’t Know
R. Refused
Blank. Not reported

*Long description:*
Was there any time in last 3 months when the toilet BROKEN, or STOPPED UP, or otherwise NOT WORKING, so you COULDN’T USE it? Did that happen at all WITHIN THE PAST THREE MONTHS, that is, since 3 months ago (date)?

Type: Character
*Edit flag variable:* JIFTLT
*Allocation Matrix:* None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

*Conditions not in universe:*
1: [(URE interview or vacant interview)] ; OR
2: [Occupied interview] AND [There are less than two bathrooms in the unit and Unit does NOT have a flush toilet] ; OR
3: [Noninterview]
**ILEAK** =
Any inside water leaks in last 12 months

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Now about water leaks from INSIDE. Since you lived here, did water leak in -- from broken pipes or water heaters, backed up plumbing, or other equipment failure inside the unit?
Did any inside water leaks happen within the past 12 months -- that is, since 12 months ago (date)?

**Type:** Character
**Edit flag variable:** JILEAK
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(URE interview or vacant interview)]; OR
2 : [Noninterview]

**IMaint** =
Receive adequate maintenance

1  Yes
2  No

*Long description:*
In your opinion, do you receive adequate maintenance for your home?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 1997N, 1998MSA
LEAK =
Any outside water leaks in last 12 months

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
These next questions are about water leaks - either from OUTSIDE your housing unit or from INSIDE.
While you have been living here, did water ever leak INTO your housing unit DIRECTLY FROM THE OUTSIDE -- for example, through the roof, outside walls, basement or any closed windows or skylights?
Did water leak in from the outside, within the past 12 months, -- that is, since 12 months ago (date)?

Type: Character
Edit flag variable: J LEAK
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Noninterview]
\textbf{LTSOK} =
Hallway lights working

1  No public halls
2  All work
3  Some work
4  None work
5  No light fixtures
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

\textit{Long description:}
Are any of the hallway lights in this building in working order?
Do all of the hallway lights work?

\textbf{Type:} Character
\textbf{Edit flag variable:} None
\textbf{Allocation Matrix:} None
\textbf{Topcoded:} No
\textbf{Module 1999 and earlier:} houshld
\textbf{Module 2001 and later:} newhouse
\textbf{Unit of observation:} HOUSEHOLD

\textit{Conditions not in universe:}
1 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building and NOT attached mobile home] ; OR
2 : [Noninterview]
**LTSOK1**

Hallway lights working

1  Yes  
2  No  
3  No public halls  
4  No light fixtures  
5  Don't know

**Long description:**
Are any of the hallway lights in this building in working order?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 1997N, 1998MSA

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building and NOT attached mobile home] ; OR  
2 : [Noninterview]

**LTSOK2**

All hallway lights working

1  Yes  
2  No

**Long description:**
Do all of the hallway lights work?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 1997N, 1998MSA

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building and NOT attached mobile home] ; OR  
2 : [Noninterview]
**M3ROD**
Rodents seen in unit recently

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<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Long description:*
Was that within the past 3 months -- that is, since 3 months ago (date)?

*Type:* Character
*Edit flag variable:* JM3ROD
*Allocation Matrix:* Matrix E
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1: [(URE interview or vacant interview)]; OR
2: [Occupied interview] AND [Unit has no evidence of rodents]; OR
3: [Noninterview]
MAJR1 =
Starts major maintenance/repairs soon enough

1  Yes usually
2  Not usually
3  Very mixed
4  Haven't needed any
5  Landlord not responsible for maintenance
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
When the owner has to do MAJ OR maintenance or repairs:
Do they start quickly enough?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [[URE interview or vacant interview]] ; OR
2 : [Occupied interview] AND [Owned] ; OR
3 : [Noninterview]
MAJR2 =
Solves major problems quickly

1  Yes
2  No
3  Mixed
B  Not applicable
D  Don’t Know
R  Refused
Blank  Not reported

Long description:
Do they solve the problem quickly once they start?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] OR
2 : [Occupied interview] AND [Owned] OR
3 : [Noninterview]
**MAJR3 =**
Polite/considerate of home (major repairs)

1      Yes  
2      No   
3      Mixed 
B      Not applicable 
D      Don't Know  
R      Refused  
Blank  Not reported 

*Long description:*
Are they polite and considerate of your home?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR 
2 : [Occupied interview] AND [Owned] ; OR
3 : [Noninterview]
MICE = Mice seen in unit recently
X Mouse
B Not applicable
Blank Not reported

Long description:
Was it a rat, a mouse, or aren't you sure what it was?

Type: Character
Edit flag variable: J MICE
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Unit has no evidence of rodents] ; OR
3 : [Occupied interview] AND [Rodents have not been recently seen in unit] ; OR
4 : [Noninterview]
MINR1 =
Starts minor maintenance/repairs soon enough

1 Yes usually
2 Not usually
3 Very mixed
4 Haven't needed any
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
For MINOR maintenance or repairs:
Do they start quickly enough?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(URE interview or vacant interview)]; OR
2: [Occupied interview] AND [Owned]; OR
3: [Noninterview]
**MINR2**
Solves minor problems quickly

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>Mixed</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
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<tr>
<td>Blank</td>
<td>Not reported</td>
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</tbody>
</table>

*Long description:*
Do they solve the problem quickly once they start?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)]; OR
2 : [Occupied interview] AND [Owned]; OR
3 : [Noninterview]
MINR3 =
Polite/considerate of home (min repairs)

1  Yes
2  No
3  Mixed
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Are they polite and considerate of your home?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)]; OR
2 : [Occupied interview] AND [Owned]; OR
3 : [Noninterview]
**NLEAK1**

Inside water leak from some other source

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<tbody>
<tr>
<td>X</td>
<td>Other (SPECIFY)</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Where did the water come from?

*Type:* Character

*Edit flag variable:* None

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*
1: ([URE interview or vacant interview]); OR
2: [Occupied interview] AND [There have not been any water leaks within the last 12 months]; OR
3: [Noninterview]
**NLEAK2**
Source of inside water leak unknown

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>X</td>
<td>Unknown</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
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</table>

**Long description:**
Where did the water come from?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1: [(URE interview or vacant interview)] OR
2: [Occupied interview] AND [There have not been any water leaks within the last 12 months] OR
3: [Noninterview]
NOTSUR =
Not sure if rodents were rats or mice

X  Not sure
B  Not applicable
Blank  Not reported

Long description:
Was it a rat, a mouse, or aren't you sure what it was?

Type: Character
Edit flag variable: JOTSUR
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Unit has no evidence of rodents] ; OR
3 : [Occupied interview] AND [Rodents have not been recently seen in unit] ; OR
4 : [Noninterview]
**NOWIRE**  
Electrical wiring concealed by walls/wiring

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>No electrical wiring</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Long description:*
Is all the electrical wiring in the finished areas of this home concealed in the walls?  
In our last interview in (year) we recorded that all the electrical wiring in the finished areas of this home was concealed in the walls. Is this still correct?  
(EXCLUDE APPLIANCE CORDS, EXTENSION CORDS, CHANDELIER CORDS, PHONE, ANTENNA, CABLE TV WIRES, ETC.)

*Type:* Character  
*Edit flag variable:* JOWIRE  
*Allocation Matrix:* Matrix E  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*  
1 : [Noninterview]
NUMBLOW = 
# times fuses blown or breakers tripped

1:7  1-7 times
8   8 or more times
B   Not applicable
D   Don't Know
Blank Not reported

Long description:
How many times fuses blown or breakers tripped?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No electrical wiring]; OR
2 : [Occupied interview] AND [No fuses have been blown]; OR
3 : [Noninterview]
NUMCOLD =
# times main heating equipment broke down

0 Never broken down for 6 hours
1:7 1-7 breakdowns lasting 6 hours or more
8 8 or more breakdowns lasting 6 hours or more
B Not applicable
D Don't Know
R Refused

Long description:
How many times did main heating equipment break down for 6 hours or more?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [(Don't if main heating equipment broke down or not applicable)] ; OR
3 : [Occupied interview] AND [Unit was not unbearably cold for 24 hours last winter] ; OR
4 : [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] ; OR
5 : [Occupied interview] AND [Cold temperature was not due to heating equipment breakdown or lack of equipment] ; OR
6 : [Noninterview]
NUMDRY =

# times completely without running water

0 None lasted 6 hours
1:7 1-7 water stoppages lasting 6 hours or more
8 8 or more water stoppages lasting 6 hours or more
B Not applicable
D Don't Know

Long description:
How many times was it not available for 6 hours or more?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houslhd
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)]; OR
2 : [Occupied interview] AND [Unit does not have hot and cold running water]; OR
3 : [Occupied interview] AND [Unit is not completely without running water]; OR
4 : [Noninterview]
**NUMSEW**

Number of sewage system breakdowns

- **0**: None lasted 6 hours
- **1:7**: 1-7 sewage breakdowns lasting 6 hours or more
- **8**: 8 or more sewage breakdowns lasting 6 hours or more
- **B**: Not applicable

*Long description:*
How many of these breakdowns lasted 6 hours or more?

*Type:* Character  
*Edit flag variable:* JUMSEW  
*Allocation Matrix:* Matrix E  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1: [(URE interview or vacant interview)]  
2: [Occupied interview] AND [Sewage system has not broken down]  
3: [Occupied interview] AND [Unit is NOT connected to public sewer and (NOT septic tank or cesspool or chemical toilet sewage disposal)]  
4: [Noninterview]
NUMTLT =
Number of toilet breakdowns 6 hours or more

0  Never broken down for 6 hours
1:7  1-7 toilet breakdowns lasting 6 hours or more
8  8 or more toilet breakdowns lasting 6 hours or more
B  Not applicable
D  Don't Know
Blank  Not reported

Long description:
And how many of those times toilet not working for SIX HOURS or MORE?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [There are less than two bathrooms in the unit and Unit does NOT have a flush toilet] ; OR
3 : [Occupied interview] AND [Toilet has not broken down in the past three months] ; OR
4 : [Noninterview]

OMAINT =
Buildings & grounds maintained properly

1  Yes
2  No

Long description:
In your opinion, are the buildings and grounds properly maintained?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA
**OTHCLD**

Unit cold for some other reason

1  Yes
2  No
B  Not applicable
R  Refused

*Long description:*

Was it cold for any other reason?

*Type:*

Character

*Edit flag variable:*

None

*Allocation Matrix:*

None

*Topcoded:*

No

*Module 1999 and earlier:*

houshld

*Module 2001 and later:*

newhouse

*Unit of observation:*

HOUSEHOLD

*Present in survey year(s):*


*Conditions not in universe:*

1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [(Don't if main heating equipment broke down or not applicable)] ; OR
3 : [Occupied interview] AND [Unit was not unbearably cold for 24 hours last winter] ; OR
4 : [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] ; OR
5 : [Occupied interview] AND [Cold temperature was not due to heating equipment breakdown or lack of equipment] ; OR
6 : [Noninterview]
OTLEAK =
Water leak from other outside source

X Somewhere else (SPECIFY)
B Not applicable
Blank Not reported

Long description:
Did the water come in from the --

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview AND [There have not been any outside water leaks within the last 12 months]] ; OR
3 : [Noninterview]
PILEAK =
Inside water leak from leaking pipes

X  Pipes leaked (include pipe leaks from other apartments)
B  Not applicable
Blank  Not reported

Long description:
Where did the water come from?

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1: [(URE interview or vacant interview)] OR
2: [Occupied interview] AND [There have not been any water leaks within the last 12 months] OR
3: [Noninterview]
**PLEAK**
Inside water leak from plumbing fixtures

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Own plumbing fixtures backed up and/or overflowed</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
Where did the water come from?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [There have not been any water leaks within the last 12 months] ; OR
3 : [Noninterview]

---

**PLUMB**
Complete plumbing facilities in unit

1 have complete plumbing facilities for exclusive use
2 lacking complete plumbing facilities for exclusive use
B Not applicable

**Long description:**
To have complete plumbing facilities, the unit must have exclusive use of hot and cold running water, a toilet, and a bathtub/shower in the bathroom. Lack of any of these items or lack of exclusive use means the unit does not have complete plumbing facilities.

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** toppuf

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

RAILOK = Railings on common stairs firmly attached

1  No stair railings
2  All firmly attached
3  Some/none firmly attached
B  Not applicable
D  Don't Know
R  Refused

Long description:
Are any railings on the common stairways firmly attached?
("Firmly Attached" = secured strongly enough to be used with complete confidence.)
Are all of them firmly attached?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(There are no common stairways)] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building and NOT attached mobile home] ; OR
3 : [Noninterview]
RAILOK1 = Railings on stairs firmly attached

1. Yes
2. No
3. No Stair Railings

Long description:
Are any railings on the common stairways firmly attached?
(“Firmly Attached” = secured strongly enough to be used with complete confidence.)

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building and NOT attached mobile home] ; OR
2 : [Noninterview]

RAILOK2 = All stair railings firmly attached

1. Yes
2. No

Long description:
Are all of them firmly attached?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [NOT apartment building and NOT attached mobile home] ; OR
2 : [Noninterview]
**RATS**

Rats seen in unit recently

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>X</td>
<td>Rat</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Was it a rat, a mouse, or aren't you sure what it was?

**Type:** Character

**Edit flag variable:** JRATS

**Allocation Matrix:** Matrix E

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : ([URE interview or vacant interview]) ; OR
2 : [Occupied interview] AND [Unit has no evidence of rodents] ; OR
3 : [Occupied interview] AND [Rodents have not been recently seen in unit] ; OR
4 : [Noninterview]
RLEAK =
Water leak in roof

X  Roof
B  Not applicable
D  Don't Know
Blank  Not reported

Long description:
Did the water come in from the --

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [There have not been any outside water leaks within the last 12 months] ; OR
3 : [Noninterview]
**TALWIR** =
Aluminum wiring inspected before purchase

1    Yes
2    No
B    Not applicable
D    Don't Know
R    Refused
Blank    Not reported

*Long description:*
When ... bought this housing unit, did anyone make inquiries or have this housing unit inspected or tested for aluminum wiring?

*Type:* Character
>Edit flag variable:* None
>Allocation Matrix:* None
>Topcoded:* No
>Module 1999 and earlier:* houshld
>Module 2001 and later:* newhouse
>Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Not owned] ; OR
3 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
TASB =
Unit tested for asbestos before purchase

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
When ... bought this housing unit, did anyone make inquiries or have this
housing unit inspected or tested for asbestos?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)]; OR
2 : [Occupied interview] AND [Not owned]; OR
3 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**TOILET**
Unit has a flush toilet

1  Yes
2  No
B  Not applicable

*Long description:*
Does this full bath contain a flush toilet?
Does this housing unit have a flush toilet?

_Type:_ Character
_Edit flag variable:_ JOILET
_Allocation Matrix:_ Matrix E
_Topcoded:_ No
_Module 1999 and earlier:_ houshd
_Module 2001 and later:_ newhouse
_Unit of observation:_ HOUSEHOLD

*Conditions not in universe:*
1 : [(NOT occupied interview or URE interview or vacant interview)]
**TRADON**
Unit tested for radon before purchase

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
When ... bought this housing unit, did anyone make inquiries or have this housing unit inspected or tested for radon?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Not owned] ; OR
3 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**TREP**
Repairs made because of inspection/test

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td>2</td>
<td>no</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
</tbody>
</table>

*Long description:*
Were any repairs or replacements made as a result of the inquiry, inspection, or test?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1. [(URE interview or vacant interview)] OR
2. [Occupied interview and Owned] AND [Unit NOT tested for asbestos before purchase and Unit NOT tested for lead paint before purchase and Unit NOT tested for radon before purchase and Lead pipes NOT inspected before purchase and Lead solder NOT inspected before purchase and Water quality was NOT tested before purchase or don't know or refused and Aluminum wiring NOT inspected before purchase] OR
4. [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**TWATER**
Water quality tested before purchase

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
When ... bought this housing unit, did anyone make inquiries or have this housing unit inspected or tested for water quality?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1: [(URE interview or vacant interview)] OR  
2: [Occupied interview] AND [Not owned] OR  
3: [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
WATERS =
Water safe for drinking & cooking

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
In your opinion, is the water from this source safe for cooking and drinking?

Type: Character
Edit flag variable: JATERS
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
WHYCD1 =
Unit cold due to utility interruption

X  Utility interruption
B  Not applicable
R  Refused
Blank  Not reported

Long description:
What was the reason?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [(Don't if main heating equipment broke down or not applicable)] ; OR
3 : [Occupied interview] AND [Unit was not unbearably cold for 24 hours last winter] ; OR
4 : [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] ; OR
5 : [Occupied interview] AND [Unit cold NOT for other reason and Cold temperature was due to heating equipment breaking down] ; OR
6 : [Noninterview]
WHYCD2 =
Unit cold due to inadeq. heating capacity

X   Inadequate heating capacity
B   Not applicable
Blank   Not reported

Long description:
What was the reason?

Type:                 Character
Edit flag variable:  None
Allocation Matrix:   None
Topcoded:            No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [(Don't if main heating equipment broke down or not applicable)] ; OR
3 : [Occupied interview] AND [Unit was not unbearably cold for 24 hours last winter] ; OR
4 : [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] ; OR
5 : [Occupied interview] AND [Unit cold NOT for other reason and Cold temperature was due to heating equipment breaking down] ; OR
6 : [Noninterview]
WHYCD3 =
Unit cold due to inadequate insulation

X  Inadequate insulation
B  Not applicable
Blank  Not reported

Long description:
What was the reason?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(URE interview or vacant interview)] ; OR
2: [Occupied interview] AND [(Don't if main heating equipment broke down or not applicable)] ; OR
3: [Occupied interview] AND [Unit was not unbearably cold for 24 hours last winter] ; OR
4: [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] ; OR
5: [Occupied interview] AND [Unit cold NOT for other reason and Cold temperature was due to heating equipment breaking down] ; OR
6: [Noninterview]
**WHYCD4**

Unit cold due to cost of heating

- **X** Cost of heating
- **B** Not applicable
- Blank Not reported

*Long description:*
What was the reason?

*Type:* Character

*Edit flag variable:* None

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [(Don't if main heating equipment broke down or not applicable)] ; OR
3 : [Occupied interview] AND [Unit was not unbearably cold for 24 hours last winter] ; OR
4 : [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] ; OR
5 : [Occupied interview] AND [Unit cold NOT for other reason and Cold temperature was due to heating equipment breaking down] ; OR
6 : [Noninterview]
WHYCD5 =
Unit cold because of some other reason

X Other, specify
B Not applicable
D Don't Know
Blank Not reported

Long description:
What was the reason?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [(Don't if main heating equipment broke down or not applicable)] ; OR
3 : [Occupied interview] AND [Unit was not unbearably cold for 24 hours last winter] ; OR
4 : [Occupied interview] AND [There is no heating equipment or Type of heating equipment is not specified] ; OR
5 : [Occupied interview] AND [Unit cold NOT for other reason and Cold temperature was due to heating equipment breaking down] ; OR
6 : [Noninterview]
**WLEAK**
Water leak in wall or closed door/window

X  Walls or around closed windows or closed doors
B  Not applicable
Blank  Not reported

Long description:
Did the water come in from the --

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [There have not been any outside water leaks within the last 12 months] ; OR
3 : [Noninterview]
\textbf{WTRHRL} = 
Source of inside water leak is broken water heat

X  Unknown  
B  Not applicable  
Blank  Not reported  

\textit{Long description:}
Where did the water come from?

\begin{itemize}
  \item \textbf{Type:} Character
  \item \textbf{Edit flag variable:} None
  \item \textbf{Allocation Matrix:} None
  \item \textbf{Topcoded:} No
  \item \textbf{Module 1999 and earlier:} houshld
  \item \textbf{Module 2001 and later:} newhouse
  \item \textbf{Unit of observation:} HOUSEHOLD
\end{itemize}

\textit{Conditions not in universe:}
\begin{itemize}
  \item 1 : [(URE interview or vacant interview)] ; OR
  \item 2 : [Occupied interview] AND [There have not been any water leaks within the last 12 months] ; OR
  \item 3 : [Noninterview]
\end{itemize}
ZADEQ =
Recoded adequacy of housing

1  adequate
2  moderately inadequate
3  severely inadequate
B  Not applicable

Long description:
A unit is severely inadequate if any of the following conditions exist:
1. The unit lacks complete plumbing facilities.
2. There were 3 or more heating equipment breakdowns lasting 6 hours or more in the last 90 days.
3. The unit has no electricity.
4. The electrical wiring is not concealed, working wall outlets are not present in every room, and fuses/breakers blew 3 or more times in the last 90 days.
5. 5 or more of the following exist:
   outside water leaks, inside water leaks, holes in the floor, cracks wider than a dime in the walls, areas of peeling paint or plaster larger than 8 1/2 x 11, rodents seen in the unit recently
6. all 4 of the following exist:
   no working light fixtures or no light fixtures at all in public hallways, loose, broken, or missing steps in common stairways, stair railings not firmly attached or no stair railings on stairs at all, there are 3 or more floors between the unit and the main entrance to the building and there is no elevator
A unit is moderately inadequate if it is not severely inadequate and any of the following conditions exist:
1. The unit lacks complete kitchen facilities.
2. There were 3 or more toilet breakdowns lasting 6 hours or more in the last 90 days.
3. An unvented room heater is the main heating equipment.
4. 3 or 4 of the following exist:
   outside water leaks, inside water leaks, holes in the floor, cracks wider than a dime in the walls, areas of peeling paint or plaster larger than 8 1/2 x 11, rodents seen in the unit recently
5. 3 of the following exist:
   no working light fixtures or no light fixtures at all in public hallways, loose, broken, or missing steps in common stairways, stair railings not firmly attached or no stair railings on stairs at all, there are 3 or more floors between the unit and the main entrance to the building and there is no elevator
A unit is adequate if it is neither severely nor moderately inadequate.

Type:          Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:       No
Module 1999 and earlier: toppuf
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD
Housing Cost

Housing Costs data include monthly mortgage and rent costs, taxes, condominium or mobile home park fees, and insurance expenses. Utility costs for fuels, water and trash are documented in the Utilities section of this codebook. 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 of this codebook. The cost of routine maintenance is included in the housing costs summary variable—ZSMHC (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. Information is collected for all owner-occupied units. The questions distinguish between the cost 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.

Notes:

Costs for all households

Monthly housing costs: These data are combined into one variable (ZSMHC) by summing, when applicable, utility costs, real estate taxes, cost of homeowner insurance, condominium/homeowner's association fee, land/site rent, other mortgage charges, other required mortgage fees, mortgage payments, routine maintenance costs, and rent payments.

Costs for Owners

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 the property's sale price (house and lot) if it were for sale. For vacant units, value represents the property's sale price at the time of the interview, and may differ from the price at which the property is sold. The variable is available for all owner-occupied units and represents the value of the sample unit and its yard (VALUE). The value of the overall property for multi-family units, structures with commercial/medical establishments, and structures on more than 10 acres are recorded under the variable PVALUE.

Purchase Price: This is the price that 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 is 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 is accepted if the respondent does not know the exact purchase price. The amount reported excludes closing costs.
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. A “cooperative maintenance fee” (also called carrying charges) is the share of the cooperative’s annual budget to be paid by the person occupying the sample unit, for real estate taxes, mortgage interest and operating costs. A “mobile home park fee” is the regular payment to the park management, which could include utility charges, mail handling, and/or fees for the maintenance of common areas. A “homeowners’ association fee” could include payments for the upkeep of common property (e.g., street lights, parking areas, lawns), the use and maintenance of recreational facilities, and security guards. Any fee that is optional is excluded.

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 debt instruments such as deeds of trust, trust deeds, mortgage bonds, and vendor liens. In the first three arrangements, a third party, known as the trustee, holds the title to the property until the debt is paid. In the vendor lien arrangement, the buyer receives the title 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. Mortgage data include 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.

Home Equity Loans/Lines of Credit: In 1997, the survey introduced 10 variables with information about aspects of home equity loans. The 2001 survey is further revised to differentiate between loans and lines of credit. A home equity loan is a fixed amount of money with a fixed repayment plan. A home equity line of credit is open-ended and may be available for as long as the person owns the unit.

Lower-Cost Mortgages: These 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 homebuyers. These loans do not include federally funded programs from the Department of Veterans’ Affairs.

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’s principal and interest only. Separate amounts are available for the first mortgage, 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 in 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. Even
when the real estate taxes are included with the mortgage, a separate amount for the taxes is obtained. The information is collected for all units, including renter-occupied units, in which case the question refers to household property insurance.

**Costs for Renters**

**Monthly Contract Rent:** The monthly rent agreed to, or contracted for, even if the furnishings, utilities, or services are included. Starting in 1997, units reporting “no cash rent” still have a value calculated for them for total monthly housing costs. The effect is a slight decrease in the number of units reporting no monthly housing costs and a slight increase in the number of units reporting a small monthly housing cost.
ADDTN2 =  
Percentage of 2nd mortgage used for additions/improvements 

0:100  0-100 Percent 
B Not applicable 
D Don't Know 
. Not reported 

Type: Numeric 
Edit flag variable: None 
Allocation Matrix: None 
Topcoded: No 
Module 2001 and later: mortg 
Unit of observation: HOUSEHOLD 

ADDTNS =  
Percentage of 1st mortgage used for additions/improvements 

0:100  0-100 Percent 
B Not applicable 
D Don't Know 
R Refused 
. Not reported 

Type: Numeric 
Edit flag variable: None 
Allocation Matrix: None 
Topcoded: No 
Module 2001 and later: mortg 
Unit of observation: HOUSEHOLD 
**AMMORT** =
Amount of 1st mortgage when acquired

1:999997       $1-999,997
999998       $999,998 or more
B      Not applicable

*Long description:*
How much was left to pay off when you assumed it?
How much was borrowed?

*Type:* Numeric
*Edit flag variable:* JMMORT
*Allocation Matrix:* Matrix H
*Topcoded:* Yes
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

*Notes:*
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

*Conditions not in universe:*
1 : [Occupied interview and Owned and Have mortgage] AND [NOT between one and seven or more regular mortgages]] ; OR
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned] AND [No mortgages]
**AMMRT2 =**

Amount of 2nd mortgage when acquired

1:999997  $1,999,997
999998  $999,998 or more
B  Not applicable

*Long description:*
How much was left to pay off when you assumed it?
How much was borrowed?

*Type:* Numeric
*Edit flag variable:* J MMRT2
*Allocation Matrix:* Matrix H
*Topcoded:* Yes
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

*Notes:*
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

*Conditions not in universe:*
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
AMMRT3 =
Amount borrowed by 3rd mortgage

1:999997 $1-999,997
999998 $999,998 or more
B Not applicable

Long description:
For the third mortgage, how much did you borrow?

Type: Numeric
Edit flag variable: JMMRT3
Allocation Matrix: Matrix H
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE’s topcode.
For the Metro Survey, the variable is topcoded using VALUE’s topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two regular mortgages] AND [Has a home equity loan] ; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages]
AMMRT4 =
Amount borrowed by 4th & other mortgages

1:999997  $1-999,997
999998  $999,998 or more
B  Not applicable

Long description:
For the other mortgages, how much did you borrow?

Type: Numeric
Edit flag variable: JMMRT4
Allocation Matrix: Matrix H
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3 : [Occupied interview and Owned and Two regular mortgages] AND [Has a home equity loan]; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan]; OR
5 : [Occupied interview and Owned and Three regular mortgages] AND [Has a home equity loan]; OR
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan]; OR
7 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
9 : [Occupied interview and Owned] AND [No mortgages]
AMRTZ =
Years needed to pay off 1st mortgage

1:40  1-40 Years
B  Not applicable

Long description:
At your current payments, how long would it take to pay off the loan?

Type: Numeric
Edit flag variable: J AMRTZ
Allocation Matrix: Matrix I
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and One or more regular mortgage and NOT assumed 1st mortgage] AND [(Term of 1st mortgage between 15 and 41 years)]; OR
2 : [Occupied interview and Owned and One or more regular mortgage] AND [Assumed 1st mortgage]; OR
3 : [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]]; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
5 : [Occupied interview and Owned] AND [No mortgages]
AMRTZ2 = Years needed to pay off 2nd mortgage

1:40  1-40 Years
B     Not applicable

Long description:
At your current payments, how long would it take to pay off the loan?

Type: Numeric
Edit flag variable: JMRTZ2
Allocation Matrix: Matrix I
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and NOT assumed 2nd mortgage] AND [(Term of 2nd mortgage between 15 and 41 years)] ; OR
4 : [Occupied interview and Owned and Two or more regular mortgage] AND [Assumed 2nd mortgage] ; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages]
AMTI =
Annual cost of homeowners insurance

1:9997 $1-$9,997
9998 $9,998 or more
B Not applicable

Long description:
In the last 12 months what was the total cost?

Type: Numeric
Edit flag variable: JAMTI
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ] ; OR
2 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ] ; OR
3 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or Rented, but not yet occupied)] AND [(Rent control/stabilization or NO rent control/stabilization) or Don't know if rent control/stabilization or Refused to disclose if rent control/stabilization] ; OR
4 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or Rented, but not yet occupied)] AND [Owned by public housing authority] ; OR
5 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or Rented, but not yet occupied)] AND [Government subsidizes rent for unit] ; OR
6 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
7 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied] ; OR
8 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
9 : [Occupied interview and (Rented or occupied without payment)] AND [Respondent does not have homeowner's insurance or Respondent refused to answer if home equity has homeowner's insurance or Respondent refused to answer if home equity has homeowner's insurance] ; OR
10 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
\textbf{AMTM} =

Amount of other charges included in 1st mortgage

\begin{tabular}{ll}
1:999997 & $1-999,997 \\
999998 & $999,998 or more \\
B & Not applicable \\
D & Don't Know \\
R & Refused \\
. & Not reported \\
\end{tabular}

\textit{Long description:}
How much were the other charges last year? 
(Exclude property tax and homeowner's insurance)

\textbf{Type:} Numeric
\textbf{Edit flag variable:} JAMTM
\textbf{Allocation Matrix:} None
\textbf{Topcoded:} Yes
\textbf{Module 1999 and earlier:} mortg
\textbf{Module 2001 and later:} mortg
\textbf{Unit of observation:} HOUSEHOLD

\textbf{Notes:}
Topcoded at the 97th percentile.

\textit{Conditions not in universe:}
1 : [Occupied interview and Owned and One or more regular mortgage] AND [No other charges including in 1st mortgage payment]; OR
2 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
3 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
4 : [Occupied interview and Owned] AND [No mortgages]
**AMTM2**

Amount of other charges included in 2nd mortgage

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<th>Code</th>
<th>Description</th>
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<td>D</td>
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*Long description:*

How much were the other charges last year?
(Exclude property tax and homeowner's insurance)

- **Type:** Numeric
- **Edit flag variable:** J AMTM2
- **Allocation Matrix:** None
- **Topcoded:** Yes
- **Module 1999 and earlier:** mortg
- **Module 2001 and later:** mortg
- **Unit of observation:** HOUSEHOLD

*Conditions not in universe:*

1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR  
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned and Two or more regular mortgage] AND [No other charges including in 2nd mortgage payment] ; OR  
4 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
5 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
6 : [Occupied interview and Owned] AND [No mortgages]
AMTT =
Annual cost of garbage & trash

4:9997 $4-$9,997
9998 $9,998 or more
B Not applicable

Long description:
From 12 months ago to current month and year, what was the total cost for garbage and trash collection?

Type: Numeric
Edit flag variable: JAMTT
Allocation Matrix: Matrix D
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Answered if pay for garbage/trash separately)] ; OR
5 : [Occupied interview] AND [Garbage and trash billed with other utilities]
**AMTW**

Annual cost of water & sewage

4:9997 $4-$9,997
9998 $9,998 or more
B Not applicable

*Long description:*
From 12 months ago to current month and year, what was the total cost for water supply and sewage disposal?

*Type:* Numeric
*Edit flag variable:* JAMTW
*Allocation Matrix:* Matrix D
*Topcoded:* Yes
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
Topcoded at the 97th percentile.

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Don't pay for water separately or water is not used)] ; OR
5 : [Occupied interview] AND [Water and sewage billed with other utilities]
\textbf{AMTX} = \\
Annual real estate tax payment

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Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: toppuf
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.
The values are rounded to the nearest integer in the sequence 5, 15, 25, 35, 45.

**ARM**
1st mortgage changes due to interest rate

| X | Change based on interest rates |
| B | Not applicable |
| blank | Not reported |

Long description:
How do they change?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One or more regular mortgage and (1st mortgage is FHA or 1st mortgage is VA or 1st mortgage is other type or "Don't know" type of 1st mortgage or Refused to disclose type of 1st mortgage)] AND [1st mortgage payments change or don't know or refused] ; OR
2 : [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is Farmers Home Administration Mortgage] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
**ARM2**

2nd mortgage changes due to interest rate

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**Long description:**
How do they change?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** mortg
- **Module 2001 and later:** mortg
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3: [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is FHA or 2nd mortgage is VA or 2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [2nd mortgage payments change or don't know or refused]; OR
4: [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage]; OR
5: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
6: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
7: [Occupied interview and Owned] AND [No mortgages]
**ARMASK**

1st mortgage changes for other reason

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*

Do they change for any other reason?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 2001 and later:** mortg

**Unit of observation:** HOUSEHOLD

**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N

**Conditions not in universe:**

1: [Occupied interview and Owned and One or more regular mortgage and (1st mortgage is FHA or 1st mortgage is VA or 1st mortgage is other type or "Don't know" type of 1st mortgage or Refused to disclose type of 1st mortgage)] AND [1st mortgage payments change or don't know or refused]; OR

2: [Occupied interview and Owned and One or more regular mortgage and 1st mortgage payments do NOT change] AND [First mortgage changes for taxes/insurance and (Changes in first mortgage are due to interest rate or Part of first mortgage payments rise on fixed schedule or Entire first mortgage payments rise on fixed schedule or First mortgage's last payment was greatest or 1st mortgage changes for other reason)]; OR

3: [Occupied interview and Owned and One or more regular mortgage and 1st mortgage payments do NOT change] AND [First mortgage does not change for taxes/insurance]; OR

4: [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is Farmers Home Administration Mortgage]; OR

5: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR

6: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR

7: [Occupied interview and Owned] AND [No mortgages]
ARMASK2 =
2nd mortgage changes for other reason

1  Yes
2  No
B  Not applicable
Blank  Not reported

Long description:
Do they change for any other reason?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is FHA or 2nd mortgage is VA or 2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [2nd mortgage payments change or don't know or refused] ; OR
4 : [Occupied interview and Owned and Two or more regular mortgage and 2nd mortgage payments do NOT change] AND [Second mortgage changes for taxes/insurance and (Changes to second mortgage are due to interest rate or Part of second mortgage payments rise on fixed schedule or Entire second mortgage payments rise on fixed schedule or Second mortgage's last payment was greatest or 2nd mortgage changes for other reason)] ; OR
5 : [Occupied interview and Owned and Two or more regular mortgage and 2nd mortgage payments do NOT change] AND [Second mortgage does not change for taxes/insurance] ; OR
6 : [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage] ; OR
7 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
9 : [Occupied interview and Owned] AND [No mortgages]
**BANK** =
1st mortgage borrowed from bank

1    Bank or Organization
2    Individual
B    Not applicable
D    Don't Know
R    Refused
Blank Not reported

*Long description:*
Did you borrow money from a bank or other organization OR did you borrow it from an individual?

*Type:* Character
*Edit flag variable:* JBANK
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1: [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is NOT other type and Know type of 1st mortgage and Didn't refuse to disclose type of 1st mortgage]; OR
2: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
3: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
4: [Occupied interview and Owned] AND [No mortgages]
BANK2 =
2nd mortgage borrowed from bank

1 Bank or Organization
2 Individual
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Did you borrow money from a bank or other organization OR did you borrow it from an individual?

Type: Character
Edit flag variable: JBANK2
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3: [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is NOT other type and Know type of 2nd mortgage and Didn't refuse to disclose type of 2nd mortgage]; OR
4: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
5: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
6: [Occupied interview and Owned] AND [No mortgages]
**BLOON**

1st mortgage’s last payment biggest

X  Last payment biggest
B  Not applicable
Blank  Not reported

*Long description:*

How do they change?

*Type:* Character

*Edit flag variable:* JBLOON

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* mortg

*Module 2001 and later:* mortg

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*

1: [Occupied interview and Owned and One or more regular mortgage and (1st mortgage is FHA or 1st mortgage is VA or 1st mortgage is other type or "Don't know" type of 1st mortgage or Refused to disclose type of 1st mortgage)] AND [1st mortgage payments change or don't know or refused] ; OR
2: [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is Farmers Home Administration Mortgage]; OR
3: [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]] ; OR
4: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
5: [Occupied interview and Owned] AND [No mortgages]
BLOON2 =
2nd mortgage's last payment biggest

X Last payment biggest
B Not applicable
Blank Not reported

Long description:
How do they change?

Type: Character
Edit flag variable: J BLOON2
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is FHA or 2nd mortgage is VA or 2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [2nd mortgage payments change or don't know or refused]; OR
4 : [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage]; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
7 : [Occupied interview and Owned] AND [No mortgages]
**BUYI** = Household has homeowners insurance

<p>| | |</p>
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<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Long description:**
Does this household have homeowner’s insurance? Does this household have household property insurance?

**Type:** Character
**Edit flag variable:** J BUYI
**Allocation Matrix:** Matrix E
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1: 
2: 
3: 
4: 
5: 
6: 
7: 
8: 

October 10, 2006 Housing Cost 301
**BUYT** =
Pay for garbage/trash separately

1  Not used
2  Included in rent, site rent, condominium or other fee, etc.
3  Obtained free
B  Not applicable
Blank  Not reported

*Long description:*
This variable is a recode added to the file to provide the data users
a variable just like the one they received prior to the 1997
AHS-National file

*Type:* Character
*Edit flag variable:* J BUYT
*Allocation Matrix:* Matrix D
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of garbage and sewer is within range)] ; OR
5 : [Occupied interview] AND [Garbage and trash billed with other utilities]
BUYT2 =
Pay for garbage/trash separately

1    Yes
2    No
3    Not used
B    Not applicable

Long description:
Do you pay for garbage and trash collection?
Are you billed separately for garbage and trash collection?

Type:         Character
Edit flag variable:   J BUYT2
Allocation Matrix:   Matrix D, E
Topcoded:        No
Module 1999 and earlier: houshid
Module 2001 and later: newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]; OR
3 : [Occupied interview]
**BUYW**

Pay for water/sewage separately

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>2</td>
<td>Included in rent, site rent, condominium or other fee, etc.</td>
</tr>
<tr>
<td>3</td>
<td>Obtained free</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
This variable is a recode added to the file to provide the data users a variable just like the one they received prior to the 1997 AHS-National file.

**Type:** Character

**Edit flag variable:** J BUYW

**Allocation Matrix:** Matrix D

**Topcoded:** No

**Module 1999 and earlier:** houshl

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : \(\text{[(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]} \); OR
2 : \(\text{[(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]} \); OR
3 : \(\text{[(NOT occupied interview or URE interview or vacant interview)]} \); OR
4 : \(\text{[Occupied interview] AND [(Annual cost of water is within range)]} \); OR
5 : \(\text{[Occupied interview] AND [Water and sewage billed with other utilities]} \)
**BUYW2 =**
Pay for water/sewage separately

1  Yes
2  No
3  Not used
B  Not applicable

*Long description:*
Do you pay for water and sewage disposal?  
Are you billed separately for water and sewage disposal?

*Type:* Character  
*Edit flag variable:* J BYW2  
*Allocation Matrix:* Matrix D, E  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR  
2 : [(NOT occupied interview or URE interview or vacant interview)] ; OR  
3 : [Occupied interview]
CANVAR =
Term of 1st mortgage can vary

X  Can Vary
B  Not applicable
Blank  Not reported

Long description:
When you first obtained THIS mortgage, how many years was it for?

Type:  Character
Edit flag variable:  JANVAR
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  mortg
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One or more regular mortgage] AND [Assumed 1st mortgage] ; OR
2 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
3 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
4 : [Occupied interview and Owned] AND [No mortgages]
**CANVR2 =**
Term of 2nd mortgage can vary

X Can Vary
B Not applicable
Blank Not reported

*Long description:*
When you first obtained THIS mortgage, how many years was it for?

**Type:** Character
**Edit flag variable:** JANVR2
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** mortg
**Module 2001 and later:** mortg
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3 : [Occupied interview and Owned and Two or more regular mortgage] AND [Assumed 2nd mortgage]; OR
4 : [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]]; OR
5 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
6 : [Occupied interview and Owned] AND [No mortgages]
CASH =
Amount of cash received from 1st mortgage

1:999999 $1-999,999
B Not applicable
B Not applicable
D Don’t Know
. Not reported
R Refused

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

CASH2 =
Amount of cash received from 2nd mortgage

1:999999 $1-999,999
D Don’t Know
. Not reported

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.
**CONFEE**
Monthly condo/homeowner's association/mobile home fee

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<tr>
<td>1485</td>
<td>$1,480</td>
<td>$1,489</td>
</tr>
</tbody>
</table>
Module 1999 and earlier: toppuf
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.
The values are rounded to the nearest integer in the sequence 50, 150, 250, 350.

CPRICE =
Cost of construction plus value of land

1:999997 $1-$999,997
999998 $999,998 or more
B Not applicable
D Don't Know
R Refused
. Not reported

Long description:
What was the construction cost as well as the value of the land at that time?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview and Owned] AND [(Purchase price of unit and land was between 1 and 999998) or Doesn't know purchase price of land and unit or Refused to answer what the purchase price of the land and unit was] ; OR
3 : [Occupied interview and Owned] AND [Received unit as gift or inheritance or Unit is a gift or inheritance] ; OR
4 : [Occupied interview] AND [Not owned] ; OR
5 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**CSTMNT**

Annual cost for routine maintenance

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Nothing</td>
</tr>
<tr>
<td>1:9997</td>
<td>$1 - $9,997</td>
</tr>
<tr>
<td>9998</td>
<td>$9,998 or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>.</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
In a TYPICAL YEAR about how much does your household spend for routine repairs and maintenance, such as painting, plumbing, roofing, or other minor repairs?
(IF DON'T KNOW, ASK FOR BEST ESTIMATE)

**Type:** Numeric

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** Yes

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Notes:**
Topcoded in the 99.5th percentile.
**DWNPAY**

Main source of downpayment on unit

1  Sale of previous home if sold during 12 months prior to purchase of new home
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
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*

Was the main source of down payment the sale of a previous home, savings, or something else? (IF BOUGHT OUTRIGHT, ENTER MAIN SOURCE OF FULL PAYMENT)

*Type:* Character

*Edit flag variable:* None

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*

1: [(URE interview or vacant interview)]; OR
2: [Occupied interview and Owned] AND [Received unit as gift or inheritance or Unit is a gift or inheritance]; OR
3: [Occupied interview] AND [Not owned]; OR
4: [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
EXTLN2 =
2nd mortgage refinanced to renew/extend

X  Refinanced to renew/extend loan
B  Not applicable
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

EXTLON =
1st mortgage refinanced to renew/extend

X  Refinanced to renew/extend loan
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
**FIXED** =
1st mortgage changes for taxes/insurance

X  Change in taxes or insurance, or due to decline in principal balance
B  Not applicable
Blank  Not reported

*Long description:*
How do they change?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1: [Occupied interview and Owned and One or more regular mortgage and (1st mortgage is FHA or 1st mortgage is VA or 1st mortgage is other type or "Don't know" type of 1st mortgage or Refused to disclose type of 1st mortgage)] AND [1st mortgage payments change or don't know or refused]; OR
2: [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is Farmers Home Administration Mortgage]; OR
3: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
4: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
5: [Occupied interview and Owned] AND [No mortgages]
**FIXED2**
2nd mortgage changes for taxes/insurance

X  Change in taxes or insurance, or due to decline in principal balance
B  Not applicable
Blank  Not reported

*Long description:*
How do they change?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is FHA or 2nd mortgage is VA or 2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [2nd mortgage payments change or don't know or refused] ; OR
4 : [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage] ; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages]
**FLRENT**
Frequency of land/site rent payment

1:52 1-52 times per year  
53 53 times or more  
B Not applicable  
D Don't Know  
R Refused  
. Not reported

*Long description:*
How many times a year is the land/site rent due?  
How many times a year is the land rent due?

*Type:* Numeric  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshold  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Association fee not required or Does not know if association fee is required or Refused to answer whether association fee was required) and (One-unit or apartment building) and (Unit is a condo or cooperative)]; OR  
2: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Separate rent is not paid for land or Did not know if separate rent was paid for land or Refused to answer whether separate rent was paid for land) and (Unit is not a condo or cooperative) and (One-unit or apartment building)]; OR  
3: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(One-unit or apartment building) and Association fee required]; OR  
4: [(Occupied interview or URE interview or vacant interview)] AND [Separate rent is not paid for land or Did not know if separate rent was paid for land or Refused to answer whether separate rent was paid for land]; OR  
5: [(URE interview or vacant interview) and (For sale only or Sold, but not yet occupied)] AND [Refused to disclose if household owns land on which mobile home sits or Don't know if household owns land] AND (Mobile home)]; OR  
6: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR  
7: [(NOT occupied interview or URE interview or vacant interview)]; OR  
8: [Occupied interview and Owned and Have mortgage] AND [Land rent included with mortgage payment]; OR  
9: [Occupied interview and Owned] AND [(Household owns land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits) and (Mobile home)]
**FMHOTF**

Frequency of other mobile home fee payments

1:52  1-52 times per year
53  53 times or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

*Long description:*

How many times a year are the fees due?

*Type:* Numeric

*Edit flag variable:* None

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*

1 : [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Other mobile home fees are not required or Did not know if other mobile home fees are required or Refused to answer whether other mobile home fees were required) and (Mobile home) and (Mobile home NOT to be moved)] ; OR
2 : [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(One-unit or apartment building) and Association fee required] ; OR
3 : [(Occupied interview or URE interview or vacant interview)] AND [(NOT mobile home)] ; OR
4 : [(Occupied interview or URE interview or vacant interview)] AND [Other mobile home fees are not required or Did not know if other mobile home fees are required or Refused to answer whether other mobile home fees were required] ; OR
5 : [(URE interview or vacant interview)] AND [(Mobile home) and (For sale only or Sold, but not yet occupied) and Mobile home to be moved] ; OR
6 : [(URE interview or vacant interview)] AND [(Mobile home) and (NOT for rent, rented, for sale, or sold)] ; OR
7 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
8 : [(NOT occupied interview or URE interview or vacant interview)]
**FRENT**

Frequency of rent payment

1:52  1-52 times per year
53  53 times or more
B  Not applicable

*Long description:*
How often is the rent payment for this unit due?

*Type:* Numeric
*Edit flag variable:* JFRENT
*Allocation Matrix:* Matrix E
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
2 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance] ; OR
5 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance] ; OR
6 : [Occupied interview] AND [Occupied without payment]
GPM =
1st mortgage payments rise on fixed schedule part

X Rise at fixed schedule during part of loan
B Not applicable
Blank Not reported

Long description:
How do they change?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Allocation Matrix: None
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One or more regular mortgage and (1st mortgage is
FHA or 1st mortgage is VA or 1st mortgage is other type or "Don't know" type of 1st mortgage or
Refused to disclose type of 1st mortgage]) AND [1st mortgage payments change or don't know
or refused]; OR
2 : [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is
Farmers Home Administration Mortgage]; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or
more regular mortgages)]; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity
loan]; OR
5 : [Occupied interview and Owned] AND [No mortgages]
GPM2 =
2nd mortgage payments rise on fixed schedule part

X  Rise at fixed schedule during part of loan
B  Not applicable
Blank  Not reported

Long description:
How do they change?

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  mortg
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is FHA or 2nd mortgage is VA or 2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [2nd mortgage payments change or don't know or refused] ; OR
4 : [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage] ; OR
5 : [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]] ; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages]
GPMW =
1st mortgage payments rise on fixed schedule whole

X Rise at fixed schedule during whole length of loan
B Not applicable
Blank Not reported

Long description:
How do they change?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One or more regular mortgage and (1st mortgage is FHA or 1st mortgage is VA or 1st mortgage is other type or "Don't know" type of 1st mortgage or Refused to disclose type of 1st mortgage)] AND [1st mortgage payments change or don't know or refused] ; OR
2 : [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is Farmers Home Administration Mortgage] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
GPMW2 =
2nd mortgage payments rise on fixed schedule whole

X Rise at fixed schedule during whole length of loan
B Not applicable
Blank Not reported

Long description:
How do they change?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is FHA or 2nd mortgage is VA or 2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [2nd mortgage payments change or don't know or refused]; OR
4 : [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage]; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
7 : [Occupied interview and Owned] AND [No mortgages]
GTCAS2 =
2nd mortgage refinanced to receive cash

X Refinanced to receive cash
B Not applicable
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

GTCASH =
1st mortgage refinanced to receive cash

X Refinanced to receive cash
B Not applicable
D Don't Know
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
**HEARHS**

How first heard about this unit

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Advertisement (newspaper, booklet of homes available, internet, etc)</td>
</tr>
<tr>
<td>2</td>
<td>Broker</td>
</tr>
<tr>
<td>3</td>
<td>Sign on property</td>
</tr>
<tr>
<td>4</td>
<td>Friend, relative, or acquaintance</td>
</tr>
<tr>
<td>5</td>
<td>Other - Specify</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
How did you hear about this housing unit?
Probe: How did you FIRST hear? (if more than one source)

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

HEBAL1 =
Outstanding loan against 1st home equity loan

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused

Long description:
Do you now have an outstanding loan borrowed against 1st home equity loan?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2: [Occupied interview and Owned and One or more home equity loans and The first home equity loan is not a line of credit] AND [The first home equity loan is not a lump sum] ; OR
3: [Occupied interview and Owned and One or more home equity loans] AND [The first home equity loan is a lump sum] ; OR
4: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
5: [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
6: [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
7: [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
8: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEBAL2 =
Outstanding loan against 2nd home equity loan

1 Yes
2 No
B Not applicable

Long description:
Do you now have an outstanding loan borrowed against the second loan?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more home equity loans and The second home equity loan is not a line of credit] AND [The second home equity loan is not a lump sum] ; OR
4 : [Occupied interview and Owned and Two or more home equity loans] AND [The second home equity loan is a lump sum] ; OR
5 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
8 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
9 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEBAL3 = Outstanding loan against 3rd home equity loan

1  Yes
2  No
B  Not applicable

Long description:
Do you now have an outstanding loan borrowed against the third loan?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Uncommon, possible that there are no cases in the data.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more home equity loans] AND [Two home equity loans] ; OR
4 : [Occupied interview and Owned and Three or more home equity loans and The third home equity loan is not a line of credit] AND [The third home equity loan is not a lump sum] ; OR
5 : [Occupied interview and Owned and Three or more home equity loans] AND [The third home equity loan is a lump sum] ; OR
6 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
8 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
9 : [Occupied interview and Owned and Four or more regular mortgages] AND [Does not have a home equity loan] ; OR
10 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEBAM1 =
Outstanding balance on 1st home equity loan

1:999997  $1-999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
What is your current (outstanding) balance on 1st home equity loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE’s topcode.
For the Metro Survey, the variable is topcoded using VALUE’s topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans and The first home equity loan is a line of credit] AND [No outstanding loan against first home equity loan] ; OR
3 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEBAM2 =
Outstanding balance on 2nd home equity loan

1:999997  $1-999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know
.  Not reported

Long description:
What is your current (outstanding) balance on the second loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan]; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan]; OR
3 : [Occupied interview and Owned and Two or more home equity loans and The second home equity loan is a line of credit] AND [No outstanding loan against second home equity loan]; OR
4 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
5 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan]; OR
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan]; OR
7 : [Occupied interview and Owned and Four or more regular mortgages] AND [Does not have a home equity loan]; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEBAM3 =
Outstanding balance on 3rd home equity loan

1:999997 $1-999,997
999998 $999,998 or more
B Not applicable

Long description:
What is your current (outstanding) balance on the third loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE’s topcode.
For the Metro Survey, the variable is topcoded using VALUE’s topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1: [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2: [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3: [Occupied interview and Owned and Two or more home equity loans] AND [Two home equity loans] ; OR
4: [Occupied interview and Owned and Three or more home equity loans and The third home equity loan is a line of credit] AND [No outstanding loan against third home equity loan] ; OR
5: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
6: [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
7: [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
8: [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
9: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HECR1 = Credit limit on 1st home equity loan

1:999997 $1-999,997
999998 $999,998 or more
B Not applicable
D Don't Know
R Refused

Long description: What is your total credit limit on your 1st home equity loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes: For the National Survey, the variable is topcoded using VALUE's topcode. For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [The first home equity loan is not a line of credit] ; OR
3 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HECR2 =
Credit limit on 2nd home equity loan

1:999997  $1-999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know

Long description:
What is your total credit limit on your second home equity loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE's to code.
For the Metro Survey, the variable is topcoded using VALUE's to code or its own 97th percentile to code, whichever is lower.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more home equity loans] AND [The second home equity loan is not a line of credit] ; OR
4 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HECR3 = Credit limit on 3rd home equity loan

1:999997  $1-999,997
999998  $999,998 or more
B  Not applicable

Long description:
What is your total credit limit on your third home equity loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Uncommon, possible that there are no cases in the data.
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more home equity loans] AND [Two home equity loans] ; OR
4 : [Occupied interview and Owned and Three or more home equity loans] AND [The third home equity loan is not a line of credit] ; OR
5 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
8 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
9 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEINF1 =
Interest rate on 1st home equity loan - fraction

0      no fraction
1      1/8 percent
2      1/4 percent
3      3/8 percent
4      1/2 percent
5      5/8 percent
6      3/4 percent
7      7/8 percent
B      Not applicable

Long description:
What is the current interest rate on 1st home equity loan
(Round down to nearest 1/8 percent)

Type:              Character
Edit flag variable: None
Allocation Matrix: None
Topcoded:          No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For 1999 National and 1998 Metro surveys the valid values are:
0 = no fraction
1 = 1/4 percent
2 = 1/2 percent
3 = 3/4 percent

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan]; OR
2 : [Occupied interview and Owned and One or more home equity loans and Outstanding loan against first home equity loan and Does not know if there is an outstanding loan against first home equity loan and Refused to answer if there is an outstanding loan against first home equity loan] AND [(Interest rate on first home equity loan is not between 1 and 25%)]; OR
3 : [Occupied interview and Owned and One or more home equity loans and The first home equity loan is a line of credit] AND [No outstanding loan against first home equity loan]; OR
4 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
5 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan]; OR
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan]; OR
7 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan]; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEINF2 =
Interest rate on 2nd home equity loan - fraction

0  no fraction
1  1/8 percent
2  1/4 percent
3  3/8 percent
4  1/2 percent
5  5/8 percent
6  3/4 percent
7  7/8 percent
B  Not applicable

Long description:
What is the current interest rate on the second loan?
(Round down to nearest 1/8 percent)

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For 1999 National and 1998 Metro surveys the valid values are:
0 = no fraction
1 = 1/4 percent
2 = 1/2 percent
3 = 3/4 percent

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more home equity loans and Outstanding loan against second home equity loan and Does not know if there is an outstanding loan against second home equity loan and Refused to answer if there is an outstanding loan against second home equity loan] AND [(Interest rate on second home equity loan is not between 1 and 25%)] ; OR
4 : [Occupied interview and Owned and Two or more home equity loans and The second home equity loan is a line of credit] AND [No outstanding loan against second home equity loan] ; OR
5 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
7: [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan]; OR
8: [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan]; OR
9: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEINF3 =
Interest rate on 3rd home equity loan - fraction

0       no fraction
1       1/8 percent
2       1/4 percent
3       3/8 percent
4       1/2 percent
5       5/8 percent
6       3/4 percent
7       7/8 percent
B       Not applicable

Long description:
What is the current interest rate on the third loan?
(Round down to nearest 1/8 percent)

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  mortg
Unit of observation:  HOUSEHOLD
Present in survey year(s):  1997N, 1998MSA, 1999N

Notes:
For 1999 National and 1998 Metro surveys the valid values are:
0 = no fraction
1 = 1/4 percent
2 = 1/2 percent
3 = 3/4 percent

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more home equity loans] AND [Two home equity loans] ; OR
4 : [Occupied interview and Owned and Three or more home equity loans and Outstanding loan against third home equity loan and Does not know if there is an outstanding loan against third home equity loan and Refused to answer if there is an outstanding loan against third home equity loan] AND [(Interest rate on third home equity loan is not between 1 and 25%)] ; OR
5 : [Occupied interview and Owned and Three or more home equity loans and The third home equity loan is a line of credit] AND [No outstanding loan against third home equity loan] ; OR
6 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
8 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
9 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
10 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]

**HEINW1** =
Interest rate on 1st home equity loan - whole #

1:12 1-12% (whole number part)
B Not applicable
D Don't Know
R Refused
. Not reported

*Long description:*
What is the current interest rate on 1st home equity loan
(Round down to nearest 1/8 percent)

*Type:* Numeric  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans and The first home equity loan is a line of credit] AND [No outstanding loan against first home equity loan] ; OR
3 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Three regular mortages] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Four or more regular mortgages] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEINW2 =
Interest rate on 2nd home equity loan - whole #

1:12 1-12% (whole number part)
B Not applicable
D Don't Know
. Not reported

Long description:
What is the current interest rate on the second loan?
(Round down to nearest 1/8 percent)

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUS HOLD

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more home equity loans and The second home equity loan is a line of credit] AND [No outstanding loan against second home equity loan] ; OR
4 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEINW3 =
Interest rate on 3rd home equity loan - whole #

1:12  1-12% (whole number part)
B  Not applicable

Long description:
What is the current interest rate on the third loan?
(Round down to nearest 1/8 percent)

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA, 1999N

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more home equity loans] AND [Two home equity loans] ; OR
4 : [Occupied interview and Owned and Three or more home equity loans and The third home equity loan is a line of credit] AND [No outstanding loan against third home equity loan] ; OR
5 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
8 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
9 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
**HEL** =
Has a home equity loan

1  Yes  
2  No  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*
Do you (also) have a Home Equity loan or Home Equity line of credit?

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Unit of observation: HOUSEHOLD  
Present in survey year(s): 1997N, 1998MSA, 1999N

*Notes:*
In 1997, in MORTG module.

**HELC** =
Has a home equity line of credit

1  Yes  
2  No  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  
**HELCN**
Number of home equity lines of credit

- **B**: Not applicable
- **D**: Don't Know
- **R**: Refused

**Type:** Numeric
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N
HELMPl =
1st home equity loan lump sum

1:999997  $1-999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
How much was the lump sum of 1st home equity loan

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA, 1999N

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans and The first home equity loan is not a line of credit] AND [The first home equity loan is not a lump sum] ; OR
3 : [Occupied interview and Owned and One or more home equity loans] AND [The first home equity loan is a line of credit] ; OR
4 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HELMP2 =
2nd home equity loan lump sum

1:999997 $1-999,997
999998 $999,998 or more
B Not applicable
D Don't Know

Long description:
How much was the lump sum on the second loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA, 1999N

Conditions not in universe:
1: [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan]; OR
2: [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan]; OR
3: [Occupied interview and Owned and Two or more home equity loans and The second home equity loan is not a line of credit] AND [The second home equity loan is not a lump sum]; OR
4: [Occupied interview and Owned and Two or more home equity loans] AND [The second home equity loan is a line of credit]; OR
5: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
6: [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan]; OR
7: [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan]; OR
8: [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan]; OR
9: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HELMP3 =
3rd home equity loan lump sum

1:999997    $1-999,997
999998      $999,998 or more
B    Not applicable

Long description:
How much was the lump sum on the third loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA, 1999N

Conditions not in universe:
1: [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2: [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR
3: [Occupied interview and Owned and Two or more home equity loans] AND [Two home equity loans] ; OR
4: [Occupied interview and Owned and Three or more home equity loans and The third home equity loan is not a line of credit] AND [The third home equity loan is not a lump sum] ; OR
5: [Occupied interview and Owned and Three or more home equity loans] AND [The third home equity loan is a line of credit] ; OR
6: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
7: [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
8: [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
9: [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
10: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
**HELUMN**
Number of lump sum home equity loans

B Not applicable

*Type:* Numeric  
*Edit flag variable:* JELUMN  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

**HELUMP**
Has a lump sum home equity loan

1 Yes  
2 No  
B Not applicable

*Type:* Character  
*Edit flag variable:* JELUMP  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
**HENUM**

Number of home equity loans

1:100  1-100 Loans
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

*Long description:*
How many home equity loans do you have?

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshold
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1998MSA, 1999N

*Notes:*
In 1997, in MORTG module.

*Conditions not in universe:*
1 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
2 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
4 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEPMT1 =
1st home equity loan monthly payment

1:9997  $1-9997
9998  $9998 or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
What was your last monthly payment?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR
2 : [Occupied interview and Owned and One or more home equity loans and The first home equity loan is a line of credit] AND [No outstanding loan against first home equity loan] ; OR
3 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEPMT2 =
2nd home equity loan monthly payment

1:9997 $1-9997
9998 $9998 or more
B Not applicable
D Don't Know
. Not reported

Long description:
What was your last monthly payment on the second loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan]; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan]; OR
3 : [Occupied interview and Owned and Two or more home equity loans and The second home equity loan is a line of credit] AND [No outstanding loan against second home equity loan]; OR
4 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
5 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan]; OR
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan]; OR
7 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan]; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
HEPMT3 =
3rd home equity loan monthly payment

1:9997 $1-9997
9998 $9998 or more
B Not applicable

Long description:
What was your last monthly payment on the third loan?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan]; OR
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan]; OR
3 : [Occupied interview and Owned and Two or more home equity loans] AND [Two home equity loans]; OR
4 : [Occupied interview and Owned and Three or more home equity loans and The third home equity loan is a line of credit] AND [No outstanding loan against third home equity loan]; OR
5 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
6 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan]; OR
7 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan]; OR
8 : [Occupied interview and Owned and Four or more regular mortgages] AND [Does not have a home equity loan]; OR
9 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
**HETYP1** =  
1st home equity loan type

1  Line of credit  
2  Lump sum  
B  Not applicable  
D  Don't Know  
R  Refused  

*Long description:*  
Some people have a home equity loan that allows them to borrow against it as often as they wish up to a fixed limit. Other loans are a one-time, lump sum payment, which must be repaid over a period of time. What kind of home equity loan is the 1st loan? Is it a line of credit, or lump sum?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Unit of observation:* HOUSEHOLD  
*Present in survey year(s):* 1997N, 1998MSA, 1999N

*Conditions not in universe:*  
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR  
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR  
4 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR  
5 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR  
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
**HETYP2** =
2nd home equity loan type

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<table>
<thead>
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<tbody>
<tr>
<td>1</td>
<td>Line of credit</td>
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<tr>
<td>2</td>
<td>Lump sum</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
What kind of home equity loan is the second loan? Is it a line of credit, or lump sum?

*Type: Character*
*Edit flag variable: None*
*Allocation Matrix: None*
*Topcoded: No*
*Module 1999 and earlier: mortg*
*Unit of observation: HOUSEHOLD*
*Present in survey year(s): 1997N, 1998MSA, 1999N*

*Conditions not in universe:*
1: [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan]; OR
2: [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan]; OR
3: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
4: [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan]; OR
5: [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan]; OR
6: [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan]; OR
7: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
**HETYP3** =
3rd home equity loan type

1  Line of credit  
2  Lump sum  
B  Not applicable  

_Long description_:  
What kind of home equity loan is the third loan? Is it a line of credit, or lump sum?  

_Type_: Character  
_Edit flag variable_: None  
_Allocation Matrix_: None  
_Topcoded_: No  
_Module 1999 and earlier_: mortg  
_Unit of observation_: HOUSEHOLD  
_Present in survey year(s)_: 1997N, 1998MSA, 1999N  

_Conditions not in universe_:  
1 : [Occupied interview and Owned and Has a home equity loan] AND [Less than one home equity loan] ; OR  
2 : [Occupied interview and Owned and One or more home equity loans] AND [One home equity loan] ; OR  
3 : [Occupied interview and Owned and Two or more home equity loans] AND [Two home equity loans] ; OR  
4 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR  
5 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR  
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR  
7 : [Occupied interview and Owned and Four or more regular mortgage] AND [Does not have a home equity loan] ; OR  
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]
**IFFEE** =
Condo/co-op/assoc/mobile home park fee required

1 Yes  
2 No  
B Not applicable  
D Don't Know  
R Refused  
Blank Not reported

*Long description:*
Is there a required condo/co-op association fee?  
Do you pay any required mobile home park fee?  
Are there any required mobile home park fee?  
Is there a required homeowner's association fee?

*Type:* Character  
*Edit flag variable:* JIFFEE  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(Occupied interview and (Rented or occupied without payment)) or ((URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied)))]
   AND [[One-unit or apartment building]] ; OR
2 : [(URE interview or vacant interview) and (For sale only or Sold, but not yet occupied)] AND [Mobile home to be moved] ; OR
3 : [(URE interview or vacant interview)] AND [[Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory]] ; OR
4 : [(NOT occupied interview or URE interview or vacant interview)]
IMPROV = Funds from 1st home equity loan used for additions/improvements

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

IMPRV2 = Funds from 2nd home equity loan used for additions/improvements

1 Yes
2 No
B Not applicable
D Don't Know
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
**INCPER**
1st mortgage refinanced to increase payment

- **X** Refinanced to increase payment period
- **Blank** Not reported

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<thead>
<tr>
<th>Type:</th>
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<tbody>
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<td>mortg</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**INCRPR2**
2nd mortgage refinanced to increase payment

- **X** Refinanced to increase payment period
- **Blank** Not reported

<table>
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<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>mortg</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
INCS =
Pay separate rent for land

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Do you pay separate rent for the land?
In some parts of the country people own their homes but rent the land.
Do you pay rent for the land?
Do you separate rent for the land?

Type: Character
Edit flag variable: JINCS
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Association fee not required or Does not know if association fee is required or Refused to answer whether association fee was required) and (One-unit or apartment building) and (Unit is a condo or cooperative)]; OR
2 : [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(One-unit or apartment building) and Association fee required]; OR
3 : [(URE interview or vacant interview) and (For sale only or Sold, but not yet occupied)] AND [(Refused to disclose if household owns land on which mobile home sits or Don't know if household owns land or Refused to disclose if household owns land) and (Mobile home)]; OR
4 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
5 : [(NOT occupied interview or URE interview or vacant interview)]; OR
6 : [Occupied interview and Owned] AND [(Household owns land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits) and (Mobile home)]; OR
7 : [Occupied interview and Owned] AND [(Household doesn't own land on which mobile home sits or Not reported if household owns land on which mobile home sits) and No mortgages and (Mobile home)]
INPMT2 =
2nd mortgage payment includes insurance

1 Yes
2 No
B Not applicable
D Don't Know
R Refused

Long description:
Besides principal and interest, does the payment include homeowner's insurance?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
5 : [Occupied interview and Owned] AND [No mortgages]
INSPMT  =
1st mortgage payment includes insurance

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank Not reported

Long description:
Besides principal and interest, does the payment include homeowner's insurance?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
3 : [Occupied interview and Owned] AND [No mortgages]
**INTF**

Interest rate of 1st mortgage - fraction

0   no fraction  
1   1/8 percent  
2   1/4 percent  
3   3/8 percent  
4   1/2 percent  
5   5/8 percent  
6   3/4 percent  
7   7/8 percent  
B   Not applicable

*Long description:*
What is the current interest rate on the mortgage?  
(Rounded down to nearest 1/8 percent)

*Type:* Character  
*Edit flag variable:* J INTF  
*Allocation Matrix:* Matrix I  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

*Notes:*
For 1999 National and 1998 Metro surveys the valid values are:  
0 = no fraction  
1 = 1/4 percent  
2 = 1/2 percent  
3 = 3/4 percent

*Conditions not in universe:*
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned] AND [No mortgages]
INTF2 =
Interest rate of 2nd mortgage - fraction

0    no fraction
1    1/8 percent
2    1/4 percent
3    3/8 percent
4    1/2 percent
5    5/8 percent
6    3/4 percent
7    7/8 percent
B    Not applicable

Long description:
What is the current interest rate on the mortgage?
(Rounded down to nearest 1/8 percent)

Type: Character
Edit flag variable: J INTF2
Allocation Matrix: Matrix I
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For 1999 National and 1998 Metro surveys the valid values are:
0 = no fraction
1 = 1/4 percent
2 = 1/2 percent
3 = 3/4 percent

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
**INTW**
Interest rate of 1st mortgage - whole #

1:20 1-20% (whole number part)  
B Not applicable

**Long description:**  
What is the current interest rate on the mortgage?  
(Rounded down to nearest 1/8 percent)

**Type:** Numeric  
**Edit flag variable:** JINTW  
**Allocation Matrix:** Matrix I  
**Topcoded:** No  
**Module 1999 and earlier:** mortg  
**Module 2001 and later:** mortg  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**  
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned] AND [No mortgages]
**INTW2**

Interest rate of 2nd mortgage - whole #

1:20 1-20% (whole number part)
B Not applicable

**Long description:**
What is the current interest rate on the mortgage?
(Rounded down to nearest 1/8 percent)

**Type:** Numeric

**Edit flag variable:** J INTW2

**Allocation Matrix:** Matrix I

**Topcoded:** No

**Module 1999 and earlier:** mortg

**Module 2001 and later:** mortg

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
4: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
5: [Occupied interview and Owned] AND [No mortgages]
**LANDC**
Land contract for mortgage

1       Yes  
2       No  
B       Not applicable  
D       Don't Know  
R       Refused  
Blank  Not reported

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
LANPMT =
Land rent included with mortgage payment

1 Yes
2 No
B Not applicable
Blank Not reported

Long description:
Is the land rent included with the mortgage payment?

Type: Character
Edit flag variable: JANPMT
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(Occupied interview and Owned and No mortgages) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [Unit is not a condo or cooperative and Separate rent is paid for land and (One-unit or apartment building)]; OR
2: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Association fee not required or Does not know if association fee is required or Refused to answer whether association fee was required) and (One-unit or apartment building) and (Unit is a condo or cooperative)]; OR
3: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Other mobile home fees are not required or Did not know if other mobile home fees are required or Refused to answer whether other mobile home fees were required) and (Mobile home) and (Mobile home NOT to be moved)]; OR
4: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Separate rent is not paid for land or Did not know if separate rent was paid for land or Refused to answer whether separate rent was paid for land) and (Unit is not a condo or cooperative) and (One-unit or apartment building)]; OR
5: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(One-unit or apartment building) and Association fee required]; OR
6: [(Occupied interview or URE interview or vacant interview)] AND [Other mobile home fees are required]; OR
7: [(URE interview or vacant interview)] AND [(For rent only or ‘for rent or for sale’) or Rented, but not yet occupied]; OR
8: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
9: [(NOT occupied interview or URE interview or vacant interview)]; OR
10: [Occupied interview] AND [Rented]; OR
11: [Occupied interview] AND [Occupied without payment]
**LOOKHS**
Looked at both houses/mobile home & apartments

1 Yes
2 No
3 Looked only at this unit
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:*
Did you look at both houses and apartments?

**TYPE:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


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**LOOKNS**
Looked at other neighborhoods

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:*
When you were going to move, did you look for a house/apartment in any neighborhood other than this?

**TYPE:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

**LOON** =
% of 1st mortgage due in last payment

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<tbody>
<tr>
<td>1</td>
<td>1-25 percent</td>
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<td>2</td>
<td>26-50 percent</td>
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<tr>
<td>3</td>
<td>51-75 percent</td>
</tr>
<tr>
<td>4</td>
<td>76-100 percent</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Of the total amount you borrowed, what percentage will have to be paid off in this last payment?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** mortg
- **Module 2001 and later:** mortg
- **Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : Occupied interview and Owned and One or more regular mortgage and (1st mortgage is FHA or 1st mortgage is VA or 1st mortgage is other type or "Don't know" type of 1st mortgage or Refused to disclose type of 1st mortgage) AND [1st mortgage payments change or don't know or refused] ; OR
2 : Occupied interview and Owned and One or more regular mortgage and 1st mortgage payments do NOT change and First mortgage changes for taxes/insurance and Changes in first mortgage are not due to interest rate and Part of first mortgage payments do not change and Entire first mortgage payments do not change and First mortgage's last payment was not greatest and 1st mortgage doesn't change for other reason] AND [Payments on loan don't change for reasons other than listed] ; OR
3 : Occupied interview and Owned and One or more regular mortgage and 1st mortgage payments do NOT change] AND [First mortgage's last payment was not greatest] ; OR
4 : Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is Farmers Home Administration Mortgage] ; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages]
LOON2 =
% of 2nd mortgage due in last payment

1  1-25 percent
2  26-50 percent
3  51-75 percent
4  76-100 percent
B  Not applicable
D  Don't Know

Long description:
Of the total amount you borrowed, what percentage will have to be paid off in this last payment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two regular mortgages and 2nd mortgage payments do NOT change and Second mortgage changes for taxes/insurance and Changes to second mortgage are not due to interest rate and Part of second mortgage payments do not change and Entire second mortgage payments do not change and Second mortgage's last payment was not greatest and 2nd mortgage doesn't change for other reason] AND [Payments on loan don't change for more than one other reason than listed] ; OR
4 : [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is FHA or 2nd mortgage is VA or 2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [2nd mortgage payments change or don't know or refused] ; OR
5 : [Occupied interview and Owned and Two or more regular mortgage and 2nd mortgage payments do NOT change] AND [Second mortgage's last payment was not greatest] ; OR
6 : [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage] ; OR
7 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
9 : [Occupied interview and Owned] AND [No mortgages]
LOWIN2 =
2nd mortgage refinanced to get lower interest

X Refinanced to get lower interest rate
B Not applicable
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

LOWINT =
1st mortgage refinanced to get lower interest

X Refinanced to get lower interest rate
B Not applicable
D Don't Know
R Refused
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
LPRICE =
Purchase price of unit and land

1:999997  $1-$999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
What was the price? (EXCLUDE CLOSING COST)
(FOR MOBILE HOMES, EXCLUDE VALUE OF THE LAND)

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE’s topcode.
For the Metro Survey, the variable is topcoded using VALUE’s topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview and Owned] AND [(Respondent owns land on which home was built)] ; OR
3 : [Occupied interview and Owned] AND [Received unit as gift or inheritance or Unit is a gift or inheritance] ; OR
4 : [Occupied interview] AND [Not owned] ; OR
5 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**LRENT**
Land/site rent

0  No cash rent
1:9996  $1-$9,996
9997  Include in mobile home park fee or association fee
9998  $9,998 or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

**Long description:**
What is the cost each month?
What does it cost each month?

**Type:** Numeric
**Edit flag variable:** JLRENT
**Allocation Matrix:** None
**Topcoded:** Yes
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Notes:**
Topcoded at the 97th percentile.

**Conditions not in universe:**
1 : [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Association fee not required or Does not know if association fee is required or Refused to answer whether association fee was required) and (One-unit or apartment building) and (Unit is a condo or cooperative)] ; OR
2 : [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Separate rent is not paid for land or Did not know if separate rent was paid for land or Refused to answer whether separate rent was paid for land) and (Unit is not a condo or cooperative) and (One-unit or apartment building)] ; OR
3 : [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(One-unit or apartment building) and Association fee required] ; OR
4 : [(Occupied interview or URE interview or vacant interview)] AND [Separate rent is not paid for land or Did not know if separate rent was paid for land or Refused to answer whether separate rent was paid for land] ; OR
5 : [(URE interview or vacant interview) and (For sale only or Sold, but not yet occupied)] AND [(Refused to disclose if household owns land on which mobile home sits or Don't know if household owns land or Refused to disclose if household owns land) and (Mobile home)] ; OR
6 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
7 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
8 : [Occupied interview and Owned and Have mortgage] AND [Land rent included with mortgage payment] ; OR
9 : [Occupied interview and Owned] AND [(Household owns land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits) and (Mobile home)]

#LVALUE =
Current value of land

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$1-$999,997</td>
</tr>
<tr>
<td>2</td>
<td>$999,998 or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
</tbody>
</table>

Long description:
How much do you think the land would sell for on today's market?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)] ; OR
3 : [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)] ; OR
4 : [Occupied interview and Owned] AND [Household doesn't own land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits] ; OR
5 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**MATBUY =**
Got 1st mortgage in same year bought unit

1 Yes
2 No
B Not applicable

*Long description:*
Did you get the first mortgage the same year you bought your home?

*Type:* Character  
*Edit flag variable:* JATBUY  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned] AND [No mortgages]
**MATBY2**
Got 2nd mortgage in same year bought unit

1  Yes
2  No
B  Not applicable

**Long description:**
Did you get the second mortgage the same year you bought your home?

**Type:** Character  
**Edit flag variable:** JATBY2  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** mortg  
**Module 2001 and later:** mortg  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR  
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
5 : [Occupied interview and Owned] AND [No mortgages]
MCNT =
Number of regular mortgages

0:6  0-6 regular mortgages
7    7 or more regular mortgages
B    Not applicable
.    Not reported

Type: Numeric
Edit flag variable: JMCNT
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
In 1997 and 1998, in MORTG module.

Conditions not in universe:
1 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
2 : [Occupied interview and Owned] AND [No mortgages]
**MCOM =**
1st mortgage covers business on property

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Does this mortgage cover a business on this property?

**Type:** Character  
**Edit flag variable:** JMCOM  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** mortg  
**Module 2001 and later:** mortg  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned] AND [No mortgages]
**MCOM2**

2nd mortgage covers business on property

<p>| | |</p>
<table>
<thead>
<tr>
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<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
</tbody>
</table>

*Long description:*

Does this mortgage cover a business on this property?

*Type:* Character  
*Edit flag variable:* J MCOM2  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*

1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] OR  
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] OR  
3: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] OR  
4: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] OR  
5: [Occupied interview and Owned] AND [No mortgages]
**MFARM**

1st mortgage covers farm land

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Does this mortgage cover farm land?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

*Conditions not in universe:*
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
3 : [Occupied interview and Owned] AND [No mortgages]
**MFARM2** =  
2nd mortgage covers farm land

1  Yes  
2  No  
B  Not applicable  
D  Don’t Know  
R  Refused

*Long description:*  
Does this mortgage cover farm land?

**Type:** Character  
**Edit flag variable:** JFARM2  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** mortg  
**Module 2001 and later:** mortg  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**  
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR  
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
5 : [Occupied interview and Owned] AND [No mortgages]
**MG**

Any mortgages on this property

1  Yes
2  No
B  Not applicable

*Long description:*

Not counting Home Equity loans, is there a mortgage or any loans on this housing unit?

**Type:** Character  
**Edit flag variable:** JMG  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**Notes:**

In 1997, in MORTG module.

**MH32**

Mobile home on property used for living quarters

1  Yes  
2  No

*Long description:*

Are there any homes on this property that are used for living purposes by this household?

**Type:** Character  
**Edit flag variable:** JMH32  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 1997N, 1998MSA

**Conditions not in universe:**

1 : [(Occupied interview or URE interview or vacant interview)] AND [(Apartment building and NOT two unit building) or ((Mobile home) and NOT 1 mobile home in group)]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**MHOTFE**

Amount of other required mobile home fees

1: $1-$997
2: $998 or more
B: Not applicable
D: Don't Know
R: Refused
.: Not reported

*Long description:*
What is the average cost each month for those fees?

**Type:** Numeric

**Edit flag variable:** JHOTFE

**Allocation Matrix:** None

**Topcoded:** Yes

**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Notes:**
Topcoded at the 97th percentile.

**Conditions not in universe:**
1: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(Other mobile home fees are not required or Did not know if other mobile home fees are required or Refused to answer whether other mobile home fees were required) and (Mobile home) and (Mobile home NOT to be moved)]; OR
2: [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(One-unit or apartment building) and Association fee required]; OR
3: [(Occupied interview or URE interview or vacant interview)] AND [(NOT mobile home)]; OR
4: [(Occupied interview or URE interview or vacant interview)] AND [Other mobile home fees are not required or Did not know if other mobile home fees are required or Refused to answer whether other mobile home fees were required]; OR
5: [(URE interview or vacant interview)] AND [(Mobile home) and (For sale only or Sold, but not yet occupied) and Mobile home to be moved]; OR
6: [(URE interview or vacant interview)] AND [(Mobile home) and (NOT for rent, rented, for sale, or sold)]; OR
7: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
8: [(NOT occupied interview or URE interview or vacant interview)]
MORTIN =
Type of 1st mortgage

1  FHA
2  VA
3  Farmer's Home Administration Mortgage
4  Some other type
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Is the mortgage an FHA, VA, Farmers Home Administration Mortgage, or some other type?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned] AND [No mortgages]
**MORTN2**

Type of 2nd mortgage

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FHA</td>
</tr>
<tr>
<td>2</td>
<td>VA</td>
</tr>
<tr>
<td>3</td>
<td>Farmer's Home Administration Mortgage</td>
</tr>
<tr>
<td>4</td>
<td>Some other type</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
</tbody>
</table>

**Long description:**
Is the mortgage an FHA, VA, Farmers Home Administration Mortgage, or some other type?

**Type:** Character

**Edit flag variable:** J ORTN2

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** mortg

**Module 2001 and later:** mortg

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
4: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5: [Occupied interview and Owned] AND [No mortgages]
**MRTYP1** =
Type of 1st mortgage

1  Regular mortgage
2  Lump sum
B  Not applicable
Blank  Not reported

Type:  Character
Edit flag variable:  JRTYP1
Allocation Matrix:  None
Topcoded:  No
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD

**MRTYP2** =
Type of 2nd mortgage

1  Regular mortgage
2  Lump sum
B  Not applicable
Blank  Not reported

Type:  Character
Edit flag variable:  JRTYP2
Allocation Matrix:  None
Topcoded:  No
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD
NEWMOR =
1st mortgage new or assumed

1  New
2  Assumed
3  Wrap around
B  Not applicable

*Long description:*
With regard to the first mortgage, did you get a new mortgage or did you assume someone else's mortgage?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
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</tr>
<tr>
<td>Allocation Matrix:</td>
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<tr>
<td>Topcoded:</td>
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<td>Module 1999 and earlier:</td>
<td>mortg</td>
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<td>Module 2001 and later:</td>
<td>mortg</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [Occupied interview and Owned and One or more regular mortgage] AND [Did not get first mortgage in same year as bought unit] \(\lor\) OR
2 : [Occupied interview and Owned and Have mortgage] AND [NOT between one and seven or more regular mortgages]] \(\lor\) OR
3 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] \(\lor\) OR
4 : [Occupied interview and Owned] AND [No mortgages]
**NEWMR2**

2nd mortgage new or assumed

1  New  
2  Assumed  
3  Wrap around  
B  Not applicable

*Long description:*
With regard to the second mortgage, did you get a new mortgage or did you assume someone else's mortgage?

*Type:* Character  
*Edit flag variable:* JEWMR2  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR  
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned and Two or more regular mortgage] AND [Did not get second mortgage in same year bought unit] ; OR  
4 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
5 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
6 : [Occupied interview and Owned] AND [No mortgages]
**NUMMOR =**
Number of mortgages including home equity loans

0:6  0-6 regular mortgages and/or home equity loans
7    7 or more regular mortgages and/or home equity loans
B    Not applicable
D    Don’t Know

**Type:** Numeric
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** Yes
**Module 1999 and earlier:** toppuf
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Notes:**
Not topcoded in surveys 2001 and later
**OTHPMT**
Other charges including in 1st mortgage payment

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Besides principal and interest, does the payment include anything else? (exclude anything already mentioned)

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>Module 1999 and earlier:</td>
<td>mortg</td>
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<td>Module 2001 and later:</td>
<td>mortg</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned] AND [No mortgages]

**OTHREF**
1st mortgage refinanced for other reason

X  Refinanced for other reason
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
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<tr>
<td>Allocation Matrix:</td>
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</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
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<td>Module 2001 and later:</td>
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</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
**OTPMT2**

Other charges including in 2nd mortgage payment

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused

*Long description:*

Besides principal and interest, does the payment include anything else? (exclude anything already mentioned)

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
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<tbody>
<tr>
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<td>mortg</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*

1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
OTREF2 =
2nd mortgage refinanced for other reason

X Refinanced for other reason
B Not applicable
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

PERUS1 =
Percentage of 1st mortgage loan used for additions/improvements

0:100 0-100 Percent
B Not applicable
D Don't Know
R Refused
. Not reported

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
PERUS2 =
Percentage of 2nd mortgage loan used for additions/improvements

0:100  0-100 Percent
B      Not applicable
D      Don’t Know
R      Refused
.      Not reported

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
PINCO2 =
2nd mortgage covers other units

1 Yes
2 No
B Not applicable
D Don't Know
R Refused

Long description:
Does this mortgage cover other homes or apartments besides this one?

Type: Character
Edit flag variable: JINCO2
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
PINCOP =
1st mortgage covers other units

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Does this mortgage cover other homes or apartments besides this one?

Type: Character
Edit flag variable: J INCOP
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
2: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
3: [Occupied interview and Owned] AND [No mortgages]
PMAMT2 =
Amount of mortgage insurance included in 2nd mortgage

1:3999 $1-3,999
B Not applicable
D Don't Know
R Refused
. Not reported

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

PMIAMT =
Amount of mortgage insurance included in 1st mortgage

1:3999 $1-3,999
B Not applicable
D Don't Know
R Refused
. Not reported

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.
**PMIPMT** =
1st mortgage payments include private mortgage insurance

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

**PMPMT2** =
2nd mortgage payments include private mortgage insurance

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
**PMT**

Monthly payment for 1st mortgage

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:9997</td>
<td>$1-9,997</td>
</tr>
<tr>
<td>9998</td>
<td>$9,998 or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>.</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
What is the current monthly payment? (Include as much of PITI as they pay)

*Type:* Numeric  
*Edit flag variable:* J PMT  
*Allocation Matrix:* None  
*Topcoded:* Yes  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

*Notes:*  
Topcoded at the 97th percentile.

*Conditions not in universe:*
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned] AND [No mortgages]
PMT2 =
Monthly payment for 2nd mortgage

1:9997 $1-9,997
9998 $9,998 or more
B Not applicable

Long description:
What is the current monthly payment? (Include as much of PITI as they pay)

Type: Numeric
Edit flag variable: J PMT2
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3 : [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]]; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
5 : [Occupied interview and Owned] AND [No mortgages]
PMT3 = Monthly payment for 3rd mortgage

1:9997 $1-9,997
9998 $9,998 or more
B Not applicable

Long description:
What is your current monthly payment for the third mortgage?

Type: Numeric
Edit flag variable: J PMT3
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two regular mortgages] AND [Has a home equity loan] ; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages]
**PMT4**

Monthly payment for all other mortgages

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:9997</td>
<td>$1-9,997</td>
</tr>
<tr>
<td>9998</td>
<td>$9,998 or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Long description:**

What is your current monthly payment for the other mortgages?

**Type:** Numeric

**Edit flag variable:** JPMT4

**Allocation Matrix:** None

**Topcoded:** Yes

**Module 1999 and earlier:** mortg

**Module 2001 and later:** mortg

**Unit of observation:** HOUSEHOLD


**Notes:**

Topcoded at the 97th percentile.

**Conditions not in universe:**

1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR  
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR  
3: [Occupied interview and Owned and Two regular mortgages] AND [Has a home equity loan] ; OR  
4: [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home equity loan] ; OR  
5: [Occupied interview and Owned and Three regular mortgages] AND [Has a home equity loan] ; OR  
6: [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home equity loan] ; OR  
7: [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]] ; OR  
8: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
9: [Occupied interview and Owned] AND [No mortgages]
POOR = Household income as percent of poverty line

1:82908  1:82908
. Not reported

Long description:
Household income as percent of poverty line

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N
**PRENT**

Amount of rent actually paid

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>1:9997</td>
<td>$1-$9,997</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>.</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
Of the $amount rent you reported, how much is this household required to pay?

**Type:** Numeric

**Edit flag variable:** JPRENT

**Allocation Matrix:** None

**Topcoded:** Yes

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Notes:**
Topcoded at the 97th percentile.

**Conditions not in universe:**
1. **[(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ] ; OR**
2. **[(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ] ; OR**
3. **[(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR**
4. **[(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied] ; OR**
5. **[(NOT occupied interview or URE interview or vacant interview)] ; OR**
6. **[Occupied interview and (Rented or occupied without payment)] AND [((Rent adjusted or NOT adjusted because relationship w/ owner) or Don't know if rent adjusted because relationship w/ owner or Refused to disclose if rent adjusted because relationship w/ owner and ] ; OR**
7. **[Occupied interview and (Rented or occupied without payment)] AND [Did NOT received voucher to help pay rent or Don't know if received voucher to help pay rent or Refused to disclose if received voucher to help pay rent) and ] ; OR**
8. **[Occupied interview and (Rented or occupied without payment)] AND [Don't know if owned by public housing authority and (Income info required for lease renewal or Refused to disclose if income info required for lease renewal) and DO NOT report income to public housing authority or a state or local housing agency and ] ; OR**
9. **[Occupied interview and (Rented or occupied without payment)] AND [Don't know if owned by public housing authority and (Income info NOT required for lease renewal or Don't know if**
income info required for lease renewal) and Government doesn't subsidize rent for unit or don't know or refused and ] ; OR
10 : [Occupied interview and (Rented or occupied without payment)] AND [Government doesn't subsidize rent for unit and ] ; OR
11 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance] ; OR
12 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]

PROJ = Building owned by public housing authority
1  Yes
2  No
B  Not applicable
D  Don't Know
Blank  Not reported

Long description:
Is the building owned by a public housing authority?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
2 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview and (Rented or occupied without payment)] AND [Government doesn't subsidize rent for unit and ] ; OR
5 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance] ; OR
6 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
**PVALUE**
Current value of unit

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:999997</td>
<td>$1-$999,997</td>
</tr>
<tr>
<td>999998</td>
<td>$999,998 or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>.</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
How much do you think the unit would sell for on today's market?

**Type:** Numeric

**Edit flag variable:** JPVALU

**Allocation Matrix:** None

**Topcoded:** Yes

**Module 1999 and earlier:** houslhd

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Notes:**
For the National Survey, the variable is topcoded using VALUE's topcode. For the Metro Survey, the variable is topcoded using VALUE’s topcode or its own 97th percentile topcode, whichever is lower.

**Conditions not in universe:**
1. \[(Occupied interview or URE interview or vacant interview)\] AND [(One-unit building) and Unit is not a condo or cooperative and Lot is less than or equal to 440000 square feet and There is no medical office or community store on the property] ; OR
2. \[(Occupied interview or URE interview or vacant interview)\] AND [(NOT one-unit mobile home and Unit is a condo or cooperative) or One-unit mobile home] ; OR
3. \[(URE interview or vacant interview)\] AND [(NOT 'for rent or for sale' and NOT For sale only and NOT 'sold, but not yet occupied') or (((For rent or for sale or for sale only) or Sold, but not yet occupied) and Ownership of unit time shared or don't know or refused]) ; OR
4. \[(URE interview or vacant interview)\] AND [Sold, but not yet occupied and Ownership of unit NOT time shared] ; OR
5. [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)] ; OR
6. [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)] ; OR
7. [Occupied interview and Owned] AND [(The current value of the land is between 1 and 999998) or Does not know what the current value of the land is or Refused to answer what the current value of the land was] ; OR
8. [Occupied interview and Owned] AND [Household doesn't own land on which mobile home sits or Household doesn't own land on which mobile home sits or Don't know if household owns land on which mobile home sits or Not reported if household owns land on which mobile home sits] ; OR
9. [Occupied interview] AND [(Rented or occupied without payment)] ; OR
10 : [Vacant interview] AND [For rent only or For rent or for sale or Rented, but not yet occupied] ; OR
11 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]

**RAM**
Has reserve annuity or home equity conversion mortgage

1  Yes
2  No
B  Not applicable
D  Don’t Know
R  Refused
Blank  Not reported

_Type:_ Character
_Edit flag variable:_ None
_Allocation Matrix:_ None
_Topcoded:_ No
_Module 2001 and later:_ newhouse
_Unit of observation:_ HOUSEHOLD
_Present in survey year(s):_ 2001N, 2002MSA, 2003N, 2004MSA

**RAMAP**
Applied for reverse annuity mortgage

1  Yes
2  No

_Long description:_
Have you applied for this kind of mortgage that would give you payments?

_Type:_ Character
_Edit flag variable:_ None
_Allocation Matrix:_ None
_Topcoded:_ No
_Module 1999 and earlier:_ mortg
_Unit of observation:_ HOUSEHOLD
_Present in survey year(s):_ 1997N, 1998MSA

_Notes:_
RAMORT =
Heard of reverse annuity mortgage

1  Yes
2  No

Long description:
Some people take out a special mortgage called a Reverse Annuity

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

Notes:
**RCNTRL** = Rent limited by rent control/stabilization

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Does the government limit the rent on the unit through rent control or rent stabilization?

*Type:* Character
*Edit flag variable:* JCNTRL
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ]; OR
2 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or Rented, but not yet occupied)] AND [Owned by public housing authority]; OR
3 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or Rented, but not yet occupied)] AND [Government subsidizes rent for unit]; OR
4 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
5 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied]; OR
6 : [(NOT occupied interview or URE interview or vacant interview)]; OR
7 : [Occupied interview and (Rented or occupied without payment)] AND [Did NOT received voucher to help pay rent or Don't know if received voucher to help pay rent or Refused to disclose if received voucher to help pay rent) and ]; OR
8 : [Occupied interview and (Rented or occupied without payment)] AND [Respondents were assigned to particular location of public housing and ]; OR
9 : [Occupied interview and (Rented or occupied without payment)] AND [ ]; OR
10 : [Occupied interview and (Rented or occupied without payment)] AND [Owned by public housing authority]; OR
11 : [Occupied interview and (Rented or occupied without payment)] AND [Report income to public housing authority or a state or local housing agency and ]; OR
12 : [Occupied interview and (Rented or occupied without payment)] AND [Received voucher to help pay rent and ]; OR
13 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance]; OR
14 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
**REDMON**

Refinanced to reduce monthly payment

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Yes, refinanced to reduce monthly payment</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Unit of observation:* HOUSEHOLD  
*Present in survey year(s):* 2005N

**REDPA2**

Reason for refinancing reduced payment of 2nd

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Refinanced to reduce payment of 2nd mortgage</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  
**REDPAY**
Reason for refinancing reduced payment of 1st

X Refinanced to reduce payment of 1st mortgage
B Not applicable
D Don't Know
R Refused
Blank Not reported

**REFI**
Mortgage a refinancing of previous mortgage

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported
**REFI2** =
2nd mortgage a refinancing of 1st mortgage

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Type:* Character
*Edit flag variable:* JREFI2
*Allocation Matrix:* None
*Topcoded:* No
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

**REGMOR** =
Number of regular mortgages on unit

0  no mortgages
1:7 1-7 mortgages
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
How many mortgages (or loans) are there now on the unit?

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
In 1997, in MORTG module.
**RENEW**

Income info required for lease renewal

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
As a part of your rental agreement, do you need to answer questions about your income whenever your lease is up for renewal?

*Type:* Character
*Edit flag variable:* J RENEW
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ] ; OR
2 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ] ; OR
3 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
4 : [(URE interview or vacant interview)] AND [(For sale only or Sold, but not yet occupied)] ; OR
5 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
6 : [Occupied interview and (Rented or occupied without payment)] AND [ ] ; OR
7 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance] ; OR
8 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
RENT =  
Amount reported for payment period in FREN T

1  Rent depends on the income of the occupants, such as public housing or
2:29997  $2-$29,997
29998  $29,998 or more
B  Not applicable

Long description:
How much is the rent?
*** IF PARKING PRICED SEPARATELY, EXCLUDE IT HERE ***

Type: Numeric
Edit flag variable: JRENT
Allocation Matrix: Matrix E
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.
The use of ‘1’ as a code, as defined above, applies to any URE or vacant unit for which RENT is collected. For occupied units, however, ‘1’ is a dollar amount like any other.

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
2 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance]; OR
5 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]; OR
6 : [Occupied interview] AND [Occupied without payment]
RESMOR =
Amount of 1st mortgage applies only to unit

1:999997  $1-999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
How much of the amount of 1st mortgage applies just to your home?

Type: Numeric
Edit flag variable: JESMOR
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE’s topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1 : [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage doesn't cover other units and 1st mortgage doesn't cover farm land and 1st mortgage doesn't cover business on property] ; OR
2 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
3 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
4 : [Occupied interview and Owned] AND [No mortgages]
**RESMR2**

Amount of 2nd mortgage applies only to unit

1:999997  $1-999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know

Long description:
How much of the amount of 2nd mortgage applies just to your home?

Type: Numeric
Edit flag variable: JESMR2
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
For the National Survey, the variable is topcoded using VALUE's topcode.
For the Metro Survey, the variable is topcoded using VALUE's topcode or its own 97th percentile topcode, whichever is lower.

Conditions not in universe:
1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3: [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage doesn't cover other units and 2nd mortgage doesn't cover farm land and 2nd mortgage doesn't cover business on property] ; OR
4: [Occupied interview and Owned and Have mortgage] AND [[NOT between one and seven or more regular mortgages]] ; OR
5: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
6: [Occupied interview and Owned] AND [No mortgages]
RNTADJ =
Rent adjusted because relationship w/ owner

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Is the rent adjusted because someone in the household works for or is related to the owner?

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview) and ([For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ] ; OR
2 : [(URE interview or vacant interview) and ([For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ] ; OR
3 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
4 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied]; OR
5 : [(NOT occupied interview or URE interview or vacant interview)] AND [ ]; OR
6 : [Occupied interview and (Rented or occupied without payment)] AND [(Did NOT received voucher to help pay rent or Don't know if received voucher to help pay rent or Refused to disclose if received voucher to help pay rent) and ] ; OR
7 : [Occupied interview and (Rented or occupied without payment)] AND [Respondents were assigned to particular location of public housing and ]; OR
8 : [Occupied interview and (Rented or occupied without payment)] AND [ ]; OR
9 : [Occupied interview and (Rented or occupied without payment)] AND [Owned by public housing authority]; OR
10 : [Occupied interview and (Rented or occupied without payment)] AND [Report income to public housing authority or a state or local housing agency and ]; OR
11 : [Occupied interview and (Rented or occupied without payment)] AND [Received voucher to help pay rent and ]; OR
12 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance]; OR
13 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
SELL =
Borrowed 1st mortgage from former owner

1    Yes
2    No
B    Not applicable
D    Don't Know
R    Refused

Long description:
Was that the former owner of the home?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [Occupied interview and Owned and One or more regular mortgage and (1st mortgage is other type or "Don't know" type of 1st mortgage or Refused to disclose type of 1st mortgage)] AND [First mortgage was not borrowed from an individual]; OR
2: [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is NOT other type and Know type of 1st mortgage and Didn't refuse to disclose type of 1st mortgage]; OR
3: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
4: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
5: [Occupied interview and Owned] AND [No mortgages]
SELL2 = Borrowed 2nd mortgage from former owner

1 Yes
2 No
B Not applicable

Long description: Was that the former owner of the home?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3: [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [Second mortgage was not borrowed from an individual]; OR
4: [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is NOT other type and Know type of 2nd mortgage and Didn't refuse to disclose type of 2nd mortgage]; OR
5: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
6: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
7: [Occupied interview and Owned] AND [No mortgages]
**SUBMOR =**
Government program provides 1st mortgage

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Did you get your mortgage through a State or local government program that provides lower cost mortgages?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** mortg

**Module 2001 and later:** mortg

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned] AND [No mortgages]
**SUBMR2**
Government program provides 2nd mortgage

1  Yes
2  No
B  Not applicable
D  Don’t Know
R  Refused

*Long description:*
Did you get the second mortgage through a State or local government program that provides lower cost mortgages?

**Type:** Character
**Edit flag variable:** JUBMR2
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** mortg
**Module 2001 and later:** mortg
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
SUBMR3 =
Government program provides 3rd mortgage

1 Yes
2 No
B Not applicable

Long description:
Did you get the third mortgage through a State or local government
program that provides lower cost mortgages?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home
equity loan] ; OR
3 : [Occupied interview and Owned and Two regular mortgages] AND [Has a home equity loan]
; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home
equity loan] ; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or
more regular mortgages)] ; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity
loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages]
SUBMR4 =
Government program provides 4th & other mort

1    Yes
2    No
B    Not applicable

Long description:
Did you get the other mortgages through a State or local
government program that provides lower cost mortgages?

Type:    Character
Edit flag variable:    None
Allocation Matrix:    None
Topcoded:    No
Module 1999 and earlier:    mortg
Module 2001 and later:    mortg
Unit of observation:    HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home
equity loan] ; OR
3 : [Occupied interview and Owned and Two regular mortgages] AND [Has a home equity loan]
; OR
4 : [Occupied interview and Owned and Two regular mortgages] AND [Does not have a home
equity loan] ; OR
5 : [Occupied interview and Owned and Three regular mortgages] AND [Has a home equity
loan] ; OR
6 : [Occupied interview and Owned and Three regular mortgages] AND [Does not have a home
equity loan] ; OR
7 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or
more regular mortgages)] ; OR
8 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity
loan] ; OR
9 : [Occupied interview and Owned] AND [No mortgages]
**TADJ**

Purchase price changed due to inspection/test

1  yes
2  no
B  Not applicable
D  Don't Know
R  Refused

*Long description:*

Were any adjustments made to the purchase price of the house as a result of the inquiry, inspection, or test?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**

1 : [(URE interview or vacant interview)]; OR
2 : [Occupied interview and Owned] AND [Unit NOT tested for asbestos before purchase and Unit NOT tested for lead paint before purchase and Unit NOT tested for radon before purchase and Lead pipes NOT inspected before purchase and Lead solder NOT inspected before purchase and Water quality was NOT tested before purchase or don't know or refused and Aluminum wiring NOT inspected before purchase]; OR
3 : [Occupied interview] AND [Not owned]; OR
4 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**TAXPMT** =
Property taxes included in 1st mortgage

1  Yes  
2  No  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*
Besides principal and interest, does the payment include property taxes?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR  
2 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR  
3 : [Occupied interview and Owned] AND [No mortgages]
TERM =
Term of 1st mortgage

1:40  1-40 years
B   Not applicable

Long description:
This variable was created by the bridge system.
How many years remained on the mortgage then?
When you first obtained THIS mortgage, how many years was it for?

Type: Numeric
Edit flag variable: JTERM
Allocation Matrix: Matrix I
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and One or more regular mortgage and NOT assumed 1st mortgage] AND [Term of first mortgage can vary]; OR
2 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
3 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
4 : [Occupied interview and Owned] AND [No mortgages]
TERM2 =
Term of 2nd mortgage

1:40  1-40 Years
B  Not applicable

Long description:
This variable was created by the bridge system.
How many years remained on the mortgage then?
When you first obtained THIS mortgage, how many years was it for?

Type: Numeric
Edit flag variable: JTERM2
Allocation Matrix: Matrix I
Topcoded: Yes
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and NOT assumed 2nd mortgage] AND [Term of second mortgage can vary] ; OR
4 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
5 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
6 : [Occupied interview and Owned] AND [No mortgages]
TXPMT2 =
Property taxes included in 2nd mortgage

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused

Long description:
Besides principal and interest, does the payment include property taxes?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
**TXRE** =
Received real estate property tax rebate

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Last year did you receive a real estate property tax rebate, lower tax rate, tax credit or exemption from part of your real estate taxes?

**Type:** Character
**Edit flag variable:** JTXRE
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshold
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(URE interview or vacant interview)] AND [(For rent only or 'for rent or for sale') or Rented, but not yet occupied] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied] ; OR
4 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
5 : [Occupied interview] AND [Rented] ; OR
6 : [Occupied interview] AND [Occupied without payment]
**VALUE** =
Current market value of unit

1:999997  $1-$999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

*Long description:*
Current market value of this housing unit.

| Type: Numeric |
| Edit flag variable: JVALU |
| Allocation Matrix: Matrix E |
| Topcoded: Yes |
| Module 1999 and earlier: houshdl |
| Module 2001 and later: newhouse |
| Unit of observation: HOUSEHOLD |

*Notes:*
Topcoded at the 97th percentile ONLY in the Metro Survey.
Topcoded at 350,000 ONLY in the National Survey.

*Conditions not in universe:*
1: [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)] ; OR
2: [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)] ; OR
3: [Occupied interview] AND [(Rented or occupied without payment)] ; OR
4: [Vacant interview] AND [For rent only or For rent or for sale or Rented, but not yet occupied] ; OR
5: [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
VARM =
1st mortgage changes for other reason

X: Other, specify
B: Not applicable
Blank: Not reported

Long description:
How do they change?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [Occupied interview and Owned and One or more regular mortgage and (1st mortgage is FHA or 1st mortgage is VA or 1st mortgage is other type or "Don't know" type of 1st mortgage or Refused to disclose type of 1st mortgage)] AND [1st mortgage payments change or don't know or refused]; OR
2: [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is Farmers Home Administration Mortgage]; OR
3: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
4: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
5: [Occupied interview and Owned] AND [No mortgages]
VARM2 =
2nd mortgage changes for other reason

X       Other, specify
B       Not applicable
Blank   Not reported

Long description:
How do they change?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan] ; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan] ; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and (2nd mortgage is FHA or 2nd mortgage is VA or 2nd mortgage is other type or "Don't know" type of 2nd mortgage or Refused to disclose type of 2nd mortgage)] AND [2nd mortgage payments change or don't know or refused] ; OR
4 : [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage] ; OR
5 : [Occupied interview and Owned and Have mortgage] AND [NOT between one and seven or more regular mortgages]] ; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
7 : [Occupied interview and Owned] AND [No mortgages]
**VARY**

1st mortgage payments change

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:*
Are the payments on this loan the same during the whole length of the mortgage?

*Type:* Character
*Edit flag variable:* JVARY
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1: [Occupied interview and Owned and One or more regular mortgage] AND [1st mortgage is Farmers Home Administration Mortgage] OR
2: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] OR
3: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] OR
4: [Occupied interview and Owned] AND [No mortgages]
**VARY2**

2nd mortgage payments change

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Are the payments on this loan the same during the whole length of the mortgage?

*Type:* Character

*Edit flag variable:* J VARY2

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* mortg

*Module 2001 and later:* mortg

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*
1: [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2: [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3: [Occupied interview and Owned and Two or more regular mortgage] AND [2nd mortgage is Farmers Home Administration Mortgage]; OR
4: [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
5: [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
6: [Occupied interview and Owned] AND [No mortgages]
**YRMOR**
Year 1st mortgage obtained

1900:1997  1900-1997
B  Not applicable

*Long description:*
What year did you get the mortgage?

*Type:* Numeric
*Edit flag variable:* JYRMOR
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

*Notes:*
If YRMOR is blank, mortgage was obtained in year of unit purchase (see WHNGET).

*Conditions not in universe:*
1 : [Occupied interview and Owned and One or more regular mortgage and Got first mortgage in the same year as unit was bought] AND [NOT assumed 1st mortgage] ; OR
2 : [Occupied interview and Owned and One or more regular mortgage] AND [Assumed 1st mortgage] ; OR
3 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)] ; OR
4 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan] ; OR
5 : [Occupied interview and Owned] AND [No mortgages]
YRMOR2 =
Year 2nd mortgage obtained

1900:1997  1900-1997
B  Not applicable

Long description:
What year did you get the mortgage?

Type: Numeric
Edit flag variable: JRMOR2
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

Notes:
If YRMOR2 is blank, mortgage was obtained in year of unit purchase (see WHNGET).

Conditions not in universe:
1 : [Occupied interview and Owned and One regular mortgage] AND [Has a home equity loan]; OR
2 : [Occupied interview and Owned and One regular mortgage] AND [Does not have a home equity loan]; OR
3 : [Occupied interview and Owned and Two or more regular mortgage and Got second mortgage in same year bought unit] AND [NOT assumed 2nd mortgage]; OR
4 : [Occupied interview and Owned and Two or more regular mortgage] AND [Assumed 2nd mortgage]; OR
5 : [Occupied interview and Owned and Have mortgage] AND [(NOT between one and seven or more regular mortgages)]; OR
6 : [Occupied interview and Owned] AND [No mortgages and Does not have a home equity loan]; OR
7 : [Occupied interview and Owned] AND [No mortgages]
**ZSMHC** =
Monthly housing costs

0·99999 $0-$99,999
B Not applicable

*Long description:*
The monthly housing cost recode is the sum of the monthly costs (or averages) of all of the applicable following items:
electricity, gas, fuel oil, other fuels(e.g. wood, coal, kerosene, etc.), garbage and trash, water and sewage, real estate taxes, property insurance, condominium fees, homeowner's association fees, mobile home park fees, land or site rent, other required mobile home fees, rent, mortgage payments, home equity loan payments, other charges included in mortgage payments, and routine maintenance

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* Yes
*Module 1999 and earlier:* toppuf
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
Not coded directly, but components are topcoded.
Monthly mortgage payment is not the same as PMT, which includes taxes and insurance.
Household Composition

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. The variables reflect the answers as stated by the respondent.

Some variables are collected for each individual household member, while other information is only reported as a summary for the household. Summary household variables include total number of people, number of adults, number of children, number of people not related to the head of household or reference person, and number of people 65 years or older. The availability of these summary variables varies from year to year and for metro and national surveys. Any variable can be recreated using the detailed information for each household member. Additional information on household members is contained in the Recent Mover and Income sections.

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 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.

Notes:

General Household Information

The questions summarizing the household characteristics are usually asked of the “reference person.” The variables in this group provide general information about the household, such as number of people in household, number of people in family, number of children and number of adults. More detailed household level variables can be constructed using person-level variables.

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 in household: 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.

Subfamily: A subfamily is a multiperson family separate from the reference person. 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 of the reference person. The most common example of a subfamily is a young married couple sharing the home of the husband or wife’s parents.
FAMTYP identifies the subfamily members and position. FAMNUM identifies subfamily number.

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.

Relationships

This group of questions is asked of every household member and describes the respondent's relationship to the reference person.

Line number (PLINE1-PLINE16): A line number is assigned to each household member’s name as it is written during the interview. Line numbers are consistent from survey to survey, and are not reassigned while the same household is present in the housing unit. 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 is assigned a new line number at the end of the list, and no person in the household is assigned line number 4. There is no link between the line number and the reference person.

Reference person (Householder): Family relationships are coded in relation to a “reference person (householder)”. The householder is not necessarily the first member listed for the household or even the person with the lowest PLINE value. The householder is determined through the REL variable. REL values of 1 or 2 identify the householder. If no household member occupying the sample unit owns or rents the unit, the householder 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.

Relationship: The variable REL provides the relationship code of each person in the household to the reference person. The variable PAR 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 SPOS, which includes the line number of spouse. These two variables, together with the relationship codes, can be used to determine the composition of a household.

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

Personal Characteristics
The American Housing Survey has information on each person in each household: age, sex, marital status, relationship to a reference person, race, etc. These can be found in the corresponding variables in the individual person file.

**Age**: The age classification refers to the age reported as of each person’s last birthday.

**Race**: Household members were asked to self-identify race. The possible choices were:

1) White Only  
2) Black Only  
3) American Indian, Alaskan Native Only  
4) Asian Only  
5) Hawaiian, Pacific Islander Only  
6) White / Black  
7) White / American Indian, Alaska Native  
8) White / Asian  
9) White / Hawaiian, Pacific Islander  
10) Black / American Indian, Alaska Native  
11) Black / Asian  
12) Black / Hawaiian, Pacific Islander  
13) American Indian, Alaska Native / Asian  
14) Asian / Hawaiian, Pacific Islander  
15) White / Black / American Indian, Alaska Native  
16) White / Black / Asian  
17) White / American Indian, Alaska Native / Asian  
18) White / Asian/Hawaiian, Pacific Islander  
19) White / American Indian, Alaska Native / Asian  
20) Other combinations of 2 or 3 races  
21) Other combinations of 4 or 5 races

Note that these options are not the same as present in the 2000 Census.

**Spanish origin**: Spanish origin was determined on the basis of a question that asked for self-identification of a person’s origin or descent. Note that Spanish origin modifies race, and does not replace it. For example, according to the Census definitions, it is possible to be Black of Spanish origin or White of Spanish origin.

**Education level of 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 upgraded 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.

**Employment:** A series of questions about person's employment identifies whether the person worked last week, the number of hours worked and the type of employment (self-employed, work for an employer, etc.). See the Income section for information on earnings from employment.
AGE =
Age of person

If using single file version of AHS, this variable becomes: AGE1-AGE16
Information for AGE1 variable (head of household) is also stored in: HHAGE

0:120  0-120 years old

Type: Numeric
Edit flag variable: JAGE
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON

Notes:
Topcoded at 90.
This variable is changed in a number of rare event situations.
**APPLY**

How got to live in public housing

1  Applied to management on own
2  Assigned to specific address
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*

How did you come to live here?
Did you apply on your own to the management here, OR did an agency, such as public housing authority assign this address to you?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshold

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**

1 : ([URE interview or vacant interview] and [(For rent only or 'for rent or for sale') or (Rented, but not yet occupied)]) \[\] ; OR
2 : ([URE interview or vacant interview] and [(For rent only or 'for rent or for sale') or (Rented, but not yet occupied)]) \[\] ; OR
3 : ([URE interview or vacant interview]) AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
4 : ([URE interview or vacant interview]) AND [For sale only or Sold, but not yet occupied] ; OR
5 : ([NOT occupied interview or URE interview or vacant interview]) ; OR
6 : [Occupied interview and (Rented or occupied without payment)] AND [ ] ; OR
7 : [Occupied interview and (Rented or occupied without payment)] AND [Don't know if owned by public housing authority and (Income info required for lease renewal or Refused to disclose if income info required for lease renewal) and DO NOT report income to public housing authority or a state or local housing agency and ] ; OR
8 : [Occupied interview and (Rented or occupied without payment)] AND [Don't know if owned by public housing authority and (Income info NOT required for lease renewal or Don't know if income info required for lease renewal) and Government doesn't subsidize rent for unit or don't know or refused and ] ; OR
9 : [Occupied interview and (Rented or occupied without payment)] AND [Owned by public housing authority] ; OR
10 : [Occupied interview and (Rented or occupied without payment)] AND [Government doesn't subsidize rent for unit and ] ; OR
11 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance] ; OR
12 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
CITSHP =
U.S. Citizenship

If using single file version of AHS, this variable becomes: CITSHP1-CITSHP16
Information for CITSHP1 variable (head of household) is also stored in: HHCITSHP

1 Native, born in US
2 Native, born in Puerto Rico or US outlying area
3 Native born abroad of US parent(s)
4 Foreign born, US citizen by naturalization
5 Foreign born, not a US citizen
B Not applicable
Blank Not reported

Type: Character
Edit flag variable: JITSHP
Allocation Matrix: None
Topcoded: No
Module 2001 and later: person
Unit of observation: PERSON
**CUSHOM**

How owner obtained unit

1  Buy the house already built
2  Sign a sales agreement that included the land as well as the cost of building the
3  Have a general contractor build it on YOUR OWN LAND (ALSO INCLUDES LEASED
   LAND)
4  Build it yourself on YOUR OWN LAND
5  Receive it as a gift or inheritance
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*

How did you obtain this home? Did you-

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview and Owned] AND [(Apartment building or mobile home)] ; OR
3 : [Occupied interview and Owned] AND [Tenants are not first occupants or Respondent
doesn't know if home equity is the first occupant or Refused to answer whether tenant is first
occupant or Same household members live in unit] ; OR
4 : [Occupied interview] AND [Not owned] ; OR
5 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**DLINE1**

Line Number of respondent

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30</td>
<td>1-30</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Type:**     Numeric

**Edit flag variable:**     JLINE1

**Allocation Matrix:**     None

**Topcoded:**     No

**Module 1999 and earlier:**     houshld

**Module 2001 and later:**     newhouse

**Unit of observation:**     HOUSEHOLD


**Notes:**

To determine if the reference person and the respondent are the same:

1) If DLINE1=PLINE and for that person REL=1 or REL=2, then the respondent is the household reference person.

2) If DLINE1=PLINE and REL>2 then the respondent is not the household reference person.

You can identify the relationship of the respondent based on the REL variable.

3) If DLINE1=B (so no one living in the unit), then check RESPTYP, and that will report the type of respondent.
FAMNUM =
Family number

If using single file version of AHS, this variable becomes: FAMNUM1-FAMNUM16

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Not a family</td>
</tr>
<tr>
<td>1</td>
<td>Primary family</td>
</tr>
<tr>
<td>2</td>
<td>1st Subfamily</td>
</tr>
<tr>
<td>3</td>
<td>2nd Subfamily</td>
</tr>
<tr>
<td>4</td>
<td>3rd Subfamily</td>
</tr>
<tr>
<td>5</td>
<td>4th Subfamily</td>
</tr>
<tr>
<td>6</td>
<td>5th Subfamily</td>
</tr>
<tr>
<td>7</td>
<td>6th Subfamily</td>
</tr>
<tr>
<td>8</td>
<td>7th Subfamily</td>
</tr>
<tr>
<td>9</td>
<td>8th Subfamily</td>
</tr>
</tbody>
</table>

Long description:
This is a recode created during the application of the Current Population Survey (CPS) demographic edits. It indicates whether or not this person belongs to the primary family, a subfamily, or no family within the household. If the person belongs to a family, the recode indicates which family.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON
FAMREL =
Family relationship

If using single file version of AHS, this variable becomes: FAMREL1-FAMREL16

0  Not in a family
1  Reference person of family
2  Spouse of reference person of family
3  Child of reference person of family
4  Other relative of reference person of family

Long description:
This is a recode created during the application of the Current Population Survey (CPS) demographic edits. It indicates whether or not this person belongs to the primary family, a subfamily, or no family within the household. If the person belongs to a family, the recode indicates what his/her relationship to the reference person is.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON
**FAMTYP** =
Family type

If using single file version of AHS, this variable becomes: **FAMTYP1-FAMTYP16**

1  Primary family  
2  Primary individual  
3  Related subfamily  
4  Unrelated subfamily  
5  Secondary individual

*Long description:*
This is a recode created during the application of the Current Population Survey (CPS) demographic edits. It indicates whether or not this person belongs to the primary family, a subfamily, or no family within the household.

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* person  
*Module 2001 and later:* person  
*Unit of observation:* PERSON  
FRSTHO =
Ever owned home before

1   yes
2   no
B   Not applicable
D   Don't Know
R   Refused
Blank  Not reported

Long description:
Did you ever owned a home before?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houslhd
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview and Owned] AND [Money from sale of previous home was main source of money for downpayment] ; OR
3 : [Occupied interview] AND [Not owned] ; OR
4 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**GRAD**

Educational level of person

If using single file version of AHS, this variable becomes: **GRAD1-GRAD16**

Information for GRAD1 variable (head of household) is also stored in: **HHGRAD**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Less than 1st grade</td>
</tr>
<tr>
<td>32</td>
<td>1st, 2nd, 3rd or 4th grade</td>
</tr>
<tr>
<td>33</td>
<td>5th or 6th grade</td>
</tr>
<tr>
<td>34</td>
<td>7th or 8th grade</td>
</tr>
<tr>
<td>35</td>
<td>9th grade</td>
</tr>
<tr>
<td>36</td>
<td>10th grade</td>
</tr>
<tr>
<td>37</td>
<td>11th grade</td>
</tr>
<tr>
<td>38</td>
<td>12th grade, no diploma</td>
</tr>
<tr>
<td>39</td>
<td>HIGH SCHOOL GRADUATE - high school DIPLOMA or equivalent (For example: GED)</td>
</tr>
<tr>
<td>40</td>
<td>Some college but no degree</td>
</tr>
<tr>
<td>41</td>
<td>Diploma or certificate from a vocational, technical, trade or business school beyond</td>
</tr>
<tr>
<td>42</td>
<td>Associate degree in college - Occupational/vocational program</td>
</tr>
<tr>
<td>43</td>
<td>Associate degree in college - Academic program</td>
</tr>
<tr>
<td>44</td>
<td>Bachelors degree (For example: BA, AB, BS)</td>
</tr>
<tr>
<td>45</td>
<td>Master's degree (For example: MA, MS, MEng, MEd, MSW, MBA)</td>
</tr>
<tr>
<td>46</td>
<td>Professional School Degree (For example: MD, DDS, DVM, LLB, JD)</td>
</tr>
<tr>
<td>47</td>
<td>Doctorate degree (For example: PhD, EdD)</td>
</tr>
<tr>
<td>.</td>
<td>Not reported</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Long description:**

What is the highest level of school education this completed or the highest degree person this received?

**Type:** Numeric

**Edit flag variable:** JGRAD

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** person

**Module 2001 and later:** person

**Unit of observation:** PERSON


**Notes:**

Not asked for persons under the age of 14.
HERE =
Nonrelative is present

If using single file version of AHS, this variable becomes: HERE1-HERE16

1  Yes
2  No
B  Not applicable

Long description:
I have a few questions that I would like to ask (a nonrelative).
Is s/home equity here now?

Type: Character
Edit flag variable: JHERE
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON

Conditions not in universe:
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [(Answered if nonrelative is present and Person is a relative of reference person)]

HHAGE =
Age of householder

Information for this variable is also stored in: AGE1

0:120 0-120 years old

Type: Numeric
Edit flag variable: JHHAGE
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**HHCITSHP** =
US Citizenship of householder

Information for this variable is also stored in: **CITSHP1**

1  Native, born in US
2  Native, born in Puerto Rico or US outlying area
3  Native born abroad of US parent(s)
4  Foreign born, US citizen by naturalization
5  Foreign born, not a US citizen
B  Not applicable
Blank  Not reported

Type: Character
Edit flag variable: J HHITSHP
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
HHGRAD =
Education level of householder

Information for this variable is also stored in: GRAD1

31    Less than 1st grade
32    1st, 2nd, 3rd or 4th grade
33    5th or 6th grade
34    7th or 8th grade
35    9th grade
36    10th grade
37    11th grade
38    12th grade
39    High School Graduate - High School Diploma or equivalent (For Ex: GED)
40    Some college but no degree
41    Diploma or certificate from a vocational, technical, trade business school beyond high school
42    Associate degree in college - Occupational/vocational program
43    Associate degree in college - Academic program
44    Bachelor's degree (For Ex: BA, AB, BS)
45    Master's Degree (For Ex: MA, MS, Meng, Med, MSW, MBA)
46    Professional School Degree (For Ex: MD, DDS, DVM, LLB, J D)
47    Doctorate Degree (For Ex: PhD, EdD)
.    Not reported

Type: Numeric
Edit flag variable: J HHGRAD
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
HHINUSYR =
Year householder came to US

Information for this variable is also stored in: INUSYR1

1911:2001  1911-2001
X  Person
.  Not reported
B  Not applicable

Type: Numeric
Edit flag variable: JHHNUSYR
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

HHMAR =
Marital status of householder

Information for this variable is also stored in: MAR1

1  Married, Spouse Present
2  Married, Spouse Absent
3  Widowed
4  Divorced
5  Separated
6  Never married
Blank  Not reported

Type: Character
Edit flag variable: JHHMAR
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**HHNATVTY** =
Country of birth of householder

Information for this variable is also stored in: NATVY1

<table>
<thead>
<tr>
<th>Code</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>57</td>
<td>United States</td>
</tr>
<tr>
<td>72</td>
<td>Puerto Rico</td>
</tr>
<tr>
<td>96</td>
<td>Outlying Area of the US</td>
</tr>
<tr>
<td>109</td>
<td>France</td>
</tr>
<tr>
<td>110</td>
<td>Germany</td>
</tr>
<tr>
<td>117</td>
<td>Hungary</td>
</tr>
<tr>
<td>119</td>
<td>Ireland/Eire</td>
</tr>
<tr>
<td>120</td>
<td>Italy</td>
</tr>
<tr>
<td>128</td>
<td>Poland</td>
</tr>
<tr>
<td>147</td>
<td>Yugoslavia</td>
</tr>
<tr>
<td>185</td>
<td>Armenia</td>
</tr>
<tr>
<td>192</td>
<td>Russia</td>
</tr>
<tr>
<td>195</td>
<td>Ukraine</td>
</tr>
<tr>
<td>202</td>
<td>Bangladesh</td>
</tr>
<tr>
<td>206</td>
<td>Cambodia</td>
</tr>
<tr>
<td>207</td>
<td>China</td>
</tr>
<tr>
<td>209</td>
<td>Hong Kong</td>
</tr>
<tr>
<td>210</td>
<td>India</td>
</tr>
<tr>
<td>211</td>
<td>Indonesia</td>
</tr>
<tr>
<td>212</td>
<td>Iran</td>
</tr>
<tr>
<td>213</td>
<td>Iraq</td>
</tr>
<tr>
<td>214</td>
<td>Israel</td>
</tr>
<tr>
<td>215</td>
<td>Japan</td>
</tr>
<tr>
<td>218</td>
<td>Korea/South Korea</td>
</tr>
<tr>
<td>221</td>
<td>Laos</td>
</tr>
<tr>
<td>222</td>
<td>Lebanon</td>
</tr>
<tr>
<td>229</td>
<td>Pakistan</td>
</tr>
<tr>
<td>231</td>
<td>Philippines</td>
</tr>
<tr>
<td>238</td>
<td>Taiwan</td>
</tr>
<tr>
<td>239</td>
<td>Thailand</td>
</tr>
<tr>
<td>242</td>
<td>Vietnam</td>
</tr>
<tr>
<td>301</td>
<td>Canada</td>
</tr>
<tr>
<td>312</td>
<td>El Salvador</td>
</tr>
<tr>
<td>313</td>
<td>Guatemala</td>
</tr>
<tr>
<td>314</td>
<td>Honduras</td>
</tr>
<tr>
<td>315</td>
<td>Mexico</td>
</tr>
<tr>
<td>316</td>
<td>Nicaragua</td>
</tr>
<tr>
<td>337</td>
<td>Cuba</td>
</tr>
<tr>
<td>339</td>
<td>Dominican Republic</td>
</tr>
<tr>
<td>342</td>
<td>Haiti</td>
</tr>
<tr>
<td>343</td>
<td>Jamaica</td>
</tr>
<tr>
<td>351</td>
<td>Trinidad and Tobago</td>
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<tr>
<td>375</td>
<td>Argentina</td>
</tr>
<tr>
<td>377</td>
<td>Brazil</td>
</tr>
<tr>
<td>379</td>
<td>Colombia</td>
</tr>
<tr>
<td>380</td>
<td>Ecuador</td>
</tr>
<tr>
<td>383</td>
<td>Guyana</td>
</tr>
<tr>
<td>385</td>
<td>Peru</td>
</tr>
</tbody>
</table>
HHPLINE =
Line number of householder

Information for this variable is also stored in: PLINE1
**HHRACE** = 
Race of householder

Information for this variable is also stored in: **RACE1**

1  White Only
2  Black Only
3  American Indian, Alaskan Native Only
4  Asian Only
5  Hawaiian, Pacific Islander Only
6  White / Black
7  White / American Indian, Alaska Native
8  White / Asian
9  White / Hawaiian, Pacific Islander
10 Black / American Indian, Alaska Native
11 Black / Asian
12 Black / Hawaiian, Pacific Islander
13 American Indian, Alaska Native / Asian
14 Asian / Hawaiian, Pacific Islander
15 White / Black / American Indian, Alaska Native
16 White / Black / Asian
17 White / American Indian, Alaska Native / Asian
18 White / Asian/Hawaiian, Pacific Islander
19 White / American Indian, Alaska Native / Asian
20 Other combinations of 2 or 3 races
21 Other combinations of 4 or 5 races

*Type:* Character  
*Edit flag variable:* JHHRACE  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
**HHREL**
Relationship of householder to household

Information for this variable is also stored in: **REL1**

1  Reference person with relatives in household
2  Reference person without relatives in household
20  Spouse (husband/wife)
22  Child of reference person
23  Grandchild of reference person
24  Parent of reference person
25  Sibling (brother/sister) of reference person
26  Other relative of reference person
31  Unmarried partner (with own relatives)
32  Unmarried partner (without own relatives)
33  House/roommate (with own relatives)
34  House/roommate (without own relatives)
35  Roomer/boarder (with own relatives)
36  Roomer/boarder (without own relatives)
37  Other nonrelative (with own relatives)
38  Other nonrelative (without own relatives)

Type: Numeric
Edit flag variable: J HHREL
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**HHSEX**
Sex of householder

Information for this variable is also stored in: **SEX1**

1  Male
2  Female

Type: Character
Edit flag variable: J HHSEX
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**HHSPAN** = Spanish origin of householder

Information for this variable is also stored in: **SPAN1**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
</tbody>
</table>

- **Type:** Character
- **Edit flag variable:** J HHSPAN
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
- **Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N

**HHSPOS** = Line number of spouse of householder

Information for this variable is also stored in: **SPOS1**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30</td>
<td>1-30</td>
</tr>
<tr>
<td>.</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

- **Type:** Numeric
- **Edit flag variable:** J HHSPOS
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
- **Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N
**HHTEN**
Householder is owner/renter of unit

Information for this variable is also stored in: **TEN1**

- **X** Person owns or rents unit
- **Blank** Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**HHWLINEQ**
Householder worked at all last week

Information for this variable is also stored in: **WLINEQ1**

- **1** Yes
- **2** No
- **D** Don't Know
- **R** Refused
- **Blank** Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**INUSYR** =
Year came to U.S.

If using single file version of AHS, this variable becomes: **INUSYR1-INUSYR16**
Information for INUSYR1 variable (head of household) is also stored in: **HHINUSYR**

1911:2001 1911-2001
B Not applicable
. Not reported

Type: Numeric
Edit flag variable: JNUSYR
Allocation Matrix: None
Topcoded: Yes
Module 2001 and later: person
Unit of observation: PERSON

Notes:
Bottomcoded at (survey year - 90)

**LIVEAT** =
Everyone in household lives or eats together

1 Yes
2 No
D Don't Know
R Refused
Blank Not reported

Long description:
Do all the persons in this household live or eat together?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview] AND [[Type C noninterview]]
**LONGIT =**
Characteristics of household in 70/80/90

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>family income less than $3,000, 1 person in family, owned HU</td>
</tr>
<tr>
<td>02</td>
<td>family income less than $3,000, 1 person in family, rented HU</td>
</tr>
<tr>
<td>03</td>
<td>family income less than $3,000, 2 persons in family, owned HU</td>
</tr>
<tr>
<td>04</td>
<td>family income less than $3,000, 2 persons in family, rented HU</td>
</tr>
<tr>
<td>05</td>
<td>family income less than $3,000, 3 persons in family, owned HU</td>
</tr>
<tr>
<td>06</td>
<td>family income less than $3,000, 3 persons in family, rented HU</td>
</tr>
<tr>
<td>07</td>
<td>family income less than $3,000, 4 persons in family, rented HU</td>
</tr>
<tr>
<td>08</td>
<td>family income less than $3,000, 4 persons in family, owned HU</td>
</tr>
<tr>
<td>09</td>
<td>family income less than $3,000, 5 or more persons in family, owned HU</td>
</tr>
<tr>
<td>10</td>
<td>family income less than $3,000, 5 or more persons in family, rented HU</td>
</tr>
<tr>
<td>11</td>
<td>family income $3,000 - $5,999, 5 or more persons in family, owned HU</td>
</tr>
<tr>
<td>12</td>
<td>family income $3,000 - $5,999, 5 or more persons in family, owned HU</td>
</tr>
<tr>
<td>13</td>
<td>family income $3,000 - $5,999, 4 persons in family, owned HU</td>
</tr>
<tr>
<td>14</td>
<td>family income $3,000 - $5,999, 4 persons in family, rented HU</td>
</tr>
<tr>
<td>15</td>
<td>family income $3,000 - $5,999, 3 persons in family, owned HU</td>
</tr>
<tr>
<td>16</td>
<td>family income $3,000 - $5,999, 3 persons in family, owned HU</td>
</tr>
<tr>
<td>17</td>
<td>family income $3,000 - $5,999, 2 persons in family, owned HU</td>
</tr>
<tr>
<td>18</td>
<td>family income $3,000 - $5,999, 2 persons in family, owned HU</td>
</tr>
<tr>
<td>19</td>
<td>family income $3,000 - $5,999, 1 person in family, rented HU</td>
</tr>
<tr>
<td>20</td>
<td>family income $3,000 - $5,999, 1 person in family, owned HU</td>
</tr>
<tr>
<td>21</td>
<td>family income $6,000 - $9,999, 1 person in family, owned HU</td>
</tr>
<tr>
<td>22</td>
<td>family income $6,000 - $9,999, 1 person in family, rented HU</td>
</tr>
<tr>
<td>23</td>
<td>family income $6,000 - $9,999, 2 persons in family, rented HU</td>
</tr>
<tr>
<td>24</td>
<td>family income $6,000 - $9,999, 2 persons in family, owned HU</td>
</tr>
<tr>
<td>25</td>
<td>family income $6,000 - $9,999, 3 persons in family, owned HU</td>
</tr>
<tr>
<td>26</td>
<td>family income $6,000 - $9,999, 3 persons in family, rented HU</td>
</tr>
<tr>
<td>27</td>
<td>family income $6,000 - $9,999, 4 persons in family, rented HU</td>
</tr>
<tr>
<td>28</td>
<td>family income $6,000 - $9,999, 4 persons in family, owned HU</td>
</tr>
<tr>
<td>29</td>
<td>family income $6,000 - $9,999, 5 or more persons in family, owned HU</td>
</tr>
<tr>
<td>30</td>
<td>family income $6,000 - $9,999, 5 or more persons in family, rented HU</td>
</tr>
<tr>
<td>31</td>
<td>family income $10,000 - $14,999, 5 or more persons in family, owned HU</td>
</tr>
<tr>
<td>32</td>
<td>family income $10,000 - $14,999, 5 or more persons in family, owned HU</td>
</tr>
<tr>
<td>33</td>
<td>family income $10,000 - $14,999, 4 persons in family, owned HU</td>
</tr>
<tr>
<td>34</td>
<td>family income $10,000 - $14,999, 4 persons in family, rented HU</td>
</tr>
<tr>
<td>35</td>
<td>family income $10,000 - $14,999, 3 persons in family, rented HU</td>
</tr>
<tr>
<td>36</td>
<td>family income $10,000 - $14,999, 3 persons in family, owned HU</td>
</tr>
<tr>
<td>37</td>
<td>family income $10,000 - $14,999, 2 persons in family, owned HU</td>
</tr>
<tr>
<td>38</td>
<td>family income $10,000 - $14,999, 2 persons in family, rented HU</td>
</tr>
<tr>
<td>39</td>
<td>family income $10,000 - $14,999, 1 person in family, owned HU</td>
</tr>
<tr>
<td>40</td>
<td>family income $10,000 - $14,999, 1 person in family, owned HU</td>
</tr>
<tr>
<td>41</td>
<td>family income $15,000 or more, 1 person in family, owned HU</td>
</tr>
<tr>
<td>42</td>
<td>family income $15,000 or more, 1 person in family, rented HU</td>
</tr>
<tr>
<td>43</td>
<td>family income $15,000 or more, 2 persons in family, rented HU</td>
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<tr>
<td>44</td>
<td>family income $15,000 or more, 2 persons in family, owned HU</td>
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<tr>
<td>45</td>
<td>family income $15,000 or more, 3 persons in family, owned HU</td>
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<tr>
<td>46</td>
<td>family income $15,000 or more, 3 persons in family, rented HU</td>
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<tr>
<td>47</td>
<td>family income $15,000 or more, 4 persons in family, rented HU</td>
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<tr>
<td>48</td>
<td>family income $15,000 or more, 4 persons in family, owned HU</td>
</tr>
<tr>
<td>49</td>
<td>family income $15,000 or more, 5 or more persons in family, owned HU</td>
</tr>
<tr>
<td>50</td>
<td>family income $15,000 or more, 5 or more persons in family, rented HU</td>
</tr>
<tr>
<td>No.</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>51</td>
<td>low value vacants (rent less than $80 or value less than $15,000)</td>
</tr>
<tr>
<td>52</td>
<td>medium value vacants (rent $80 - $119 or value $15,000 - $24,999)</td>
</tr>
<tr>
<td>53</td>
<td>high value vacants (rent $120 or more or value $25,000 or more)</td>
</tr>
<tr>
<td>54</td>
<td>residual vacants (those not for sale or for rent; includes seasonal and migratory vacants)</td>
</tr>
<tr>
<td>55</td>
<td>housing unit in group quarters</td>
</tr>
<tr>
<td>56</td>
<td>other group quarters which was not a housing unit in 1970, but became a housing unit since 1970</td>
</tr>
<tr>
<td>101</td>
<td>rented HU, contract rent less than $100, 1-3 rooms in HU</td>
</tr>
<tr>
<td>102</td>
<td>rented HU, contract rent less than $100, 4 or 5 rooms in HU</td>
</tr>
<tr>
<td>103</td>
<td>rented HU, contract rent less than $100, 6 or more rooms in HU</td>
</tr>
<tr>
<td>104</td>
<td>rented HU, contract rent $100 - $149, 6 or more rooms in HU</td>
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<td>105</td>
<td>rented HU, contract rent $100 - $149, 4 or 5 rooms in HU</td>
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<td>106</td>
<td>rented HU, contract rent $100 - $149, 1-3 rooms in HU</td>
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<td>107</td>
<td>rented HU, contract rent $150 - $199, 1-3 rooms in HU</td>
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<td>108</td>
<td>rented HU, contract rent $150 - $199, 4 or 5 rooms in HU</td>
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<td>rented HU, contract rent $150 - $199, 6 or more rooms in HU</td>
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<td>rented HU, contract rent $200 - $249, 6 or more rooms in HU</td>
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<td>112</td>
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<tr>
<td>113</td>
<td>rented HU, contract rent $250 - $299, 1-3 rooms in HU</td>
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<td>rented HU, contract rent $300 - $349, 4 or 5 rooms in HU</td>
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<td>rented HU, contract rent $300 - $349, 1-3 rooms in HU</td>
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<tr>
<td>119</td>
<td>rented HU, contract rent $350 - $399, 1-3 rooms in HU</td>
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<td>rented HU, contract rent $350 - $399, 4 or 5 rooms in HU</td>
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<td>124</td>
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<td>125</td>
<td>rented HU, contract rent N/A, 1-3 rooms in HU</td>
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<td>126</td>
<td>rented HU, contract rent N/A, 4 or 5 rooms in HU</td>
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<tr>
<td>127</td>
<td>rented HU, contract rent N/A, 6 or more rooms in HU</td>
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<td>128</td>
<td>owned HU, value less than $20,000, 6 or more rooms in HU</td>
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<td>129</td>
<td>owned HU, value less than $20,000, 4 or 5 rooms in HU</td>
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<td>130</td>
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<tr>
<td>131</td>
<td>owned HU, value $20,000 - $29,999, 1-3 rooms in HU</td>
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<tr>
<td>132</td>
<td>owned HU, value $20,000 - $29,999, 4 or 5 rooms in HU</td>
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<td>133</td>
<td>owned HU, value $20,000 - $29,999, 6 or more rooms in HU</td>
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<td>134</td>
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<tr>
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<td>owned HU, value $30,000 - $34,999, 4 or 5 rooms in HU</td>
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<td>136</td>
<td>owned HU, value $30,000 - $34,999, 1-3 rooms in HU</td>
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<tr>
<td>137</td>
<td>owned HU, value $35,000 - $39,999, 1-3 rooms in HU</td>
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<tr>
<td>138</td>
<td>owned HU, value $35,000 - $39,999, 4 or 5 rooms in HU</td>
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<td>139</td>
<td>owned HU, value $35,000 - $39,999, 6 or more rooms in HU</td>
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<td>140</td>
<td>owned HU, value $40,000 - $49,999, 6 or more rooms in HU</td>
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<td>141</td>
<td>owned HU, value $40,000 - $49,999, 4 or 5 rooms in HU</td>
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<tr>
<td>142</td>
<td>owned HU, value $40,000 - $49,999, 1-3 rooms in HU</td>
</tr>
<tr>
<td>143</td>
<td>owned HU, value $50,000 - $64,999, 1-3 rooms in HU</td>
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<tr>
<td>144</td>
<td>owned HU, value $50,000 - $64,999, 4 or 5 rooms in HU</td>
</tr>
<tr>
<td>145</td>
<td>owned HU, value $50,000 - $64,999, 6 or more rooms in HU</td>
</tr>
<tr>
<td>No.</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
<td>-------------</td>
</tr>
<tr>
<td>146</td>
<td>owned HU, value $65,000 - $79,999, 6 or more rooms in HU</td>
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<tr>
<td>147</td>
<td>owned HU, value $65,000 - $79,999, 4 or 5 rooms in HU</td>
</tr>
<tr>
<td>148</td>
<td>owned HU, value $65,000 - $79,999, 1-3 rooms in HU</td>
</tr>
<tr>
<td>149</td>
<td>owned HU, value $80,000 - $99,999, 1-3 rooms in HU</td>
</tr>
<tr>
<td>150</td>
<td>owned HU, value $80,000 - $99,999, 4 or 5 rooms in HU</td>
</tr>
<tr>
<td>151</td>
<td>owned HU, value $80,000 - $99,999, 6 or more rooms in HU</td>
</tr>
<tr>
<td>152</td>
<td>owned HU, value $100,000 - $149,999, 6 or more rooms in HU</td>
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<tr>
<td>153</td>
<td>owned HU, value $100,000 - $149,999, 4 or 5 rooms in HU</td>
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<tr>
<td>154</td>
<td>owned HU, value $100,000 - $149,999, 1-3 rooms in HU</td>
</tr>
<tr>
<td>155</td>
<td>owned HU, value $150,000 or more, 1-3 rooms in HU</td>
</tr>
<tr>
<td>156</td>
<td>owned HU, value $150,000 or more, 4 or 5 rooms in HU</td>
</tr>
<tr>
<td>157</td>
<td>owned HU, value $150,000 or more, 6 or more rooms in HU</td>
</tr>
<tr>
<td>158</td>
<td>owned HU, value N/A, 6 or more rooms in HU</td>
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<tr>
<td>159</td>
<td>owned HU, value N/A, 4 or 5 rooms in HU</td>
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<tr>
<td>160</td>
<td>owned HU, value N/A, 1-3 rooms in HU</td>
</tr>
<tr>
<td>161</td>
<td>institutionalized group quarters</td>
</tr>
<tr>
<td>162</td>
<td>noninstitutionalized group quarters</td>
</tr>
<tr>
<td>201</td>
<td>rented HU, 1-3 rooms in HU, no cash rent</td>
</tr>
<tr>
<td>202</td>
<td>rented HU, 1-3 rooms in HU, rent less than $80</td>
</tr>
<tr>
<td>203</td>
<td>rented HU, 1-3 rooms in HU, rent $80 - $124</td>
</tr>
<tr>
<td>204</td>
<td>rented HU, 1-3 rooms in HU, rent $125 - $174</td>
</tr>
<tr>
<td>205</td>
<td>rented HU, 1-3 rooms in HU, rent $175 - $224</td>
</tr>
<tr>
<td>206</td>
<td>rented HU, 1-3 rooms in HU, rent $225 - $274</td>
</tr>
<tr>
<td>207</td>
<td>rented HU, 1-3 rooms in HU, rent $275 - $324</td>
</tr>
<tr>
<td>208</td>
<td>rented HU, 1-3 rooms in HU, rent $325 - $374</td>
</tr>
<tr>
<td>209</td>
<td>rented HU, 1-3 rooms in HU, rent $375 - $424</td>
</tr>
<tr>
<td>210</td>
<td>rented HU, 1-3 rooms in HU, rent $425 - $474</td>
</tr>
<tr>
<td>211</td>
<td>rented HU, 1-3 rooms in HU, rent $475 - $524</td>
</tr>
<tr>
<td>212</td>
<td>rented HU, 1-3 rooms in HU, rent $525 - $574</td>
</tr>
<tr>
<td>213</td>
<td>rented HU, 1-3 rooms in HU, rent $575 - $624</td>
</tr>
<tr>
<td>214</td>
<td>rented HU, 1-3 rooms in HU, rent $625 - $674</td>
</tr>
<tr>
<td>215</td>
<td>rented HU, 1-3 rooms in HU, rent $675 - $724</td>
</tr>
<tr>
<td>216</td>
<td>rented HU, 1-3 rooms in HU, rent $725 - $774</td>
</tr>
<tr>
<td>217</td>
<td>rented HU, 1-3 rooms in HU, rent $775 - $824</td>
</tr>
<tr>
<td>218</td>
<td>rented HU, 1-3 rooms in HU, rent $825 - $874</td>
</tr>
<tr>
<td>219</td>
<td>rented HU, 1-3 rooms in HU, rent $875 - $924</td>
</tr>
<tr>
<td>220</td>
<td>rented HU, 1-3 rooms in HU, rent $925 - $974</td>
</tr>
<tr>
<td>221</td>
<td>rented HU, 1-3 rooms in HU, rent $975 - $1,024</td>
</tr>
</tbody>
</table>

**Long description:**

This variable describes the household which lived in this unit in 1970 for the sample cases which were selected from the 1970 Census, the
household that lived in this unit in 1980 for the sample cases which were selected from the 1980 Census, or the household that lived in this unit in 1990 for the sample cases selected from the 1990 Census. This household may not be the same as the household living in this unit at the time of the interview. If the unit was vacant in 1970, 1980, or 1990, the variable provides information about the vacancy of the unit in that year. The codes for cases selected from the 1970 Census are 01-56. The codes for cases selected from the 1980 Census are 101-162. The codes for cases selected from the 1990 Census are 201-391.

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** toppuf

**Unit of observation:** TOPPUF

**Present in survey year(s):** 1998MSA, 2003N, 2004MSA

**Notes:**
Variable may be changed and/or suppressed in the Metro survey to comply with 100,000 population rule.
**MAR**
Marital status of person

If using single file version of AHS, this variable becomes: **MAR1-MAR16**
Information for **MAR1** variable (head of household) is also stored in: **HHMAR**

1  Married, SPOUSE PRESENT
2  Married, SPOUSE ABSENT
3  Widowed
4  Divorced
5  Separated
6  Never married
Blank  Not reported
B  Not applicable

*Long description:*
Are you now married, widowed, divorced, separated, or never married?

*Type:* Character
*Edit flag variable:* J MAR
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* person
*Module 2001 and later:* person
*Unit of observation:* PERSON

*Notes:*
Not asked for persons under the age of 14.
**NATVTY**

Country of birth

If using single file version of AHS, this variable becomes: **NATVTY1-NATVTY16**

Information for NATVTY1 variable (head of household) is also stored in: **HHNATVTY**

57  United States  
72  Puerto Rico  
96  Outlying Area of the US  
109  France  
110  Germany  
117  Hungary  
119  Ireland/Eire  
120  Italy  
128  Poland  
147  Yugoslavia  
185  Armenia  
192  Russia  
195  Ukraine  
202  Bangladesh  
206  Cambodia  
207  China  
209  Hong Kong  
210  India  
211  Indonesia  
212  Iran  
213  Iraq  
214  Israel  
215  Japan  
218  Korea/South Korea  
221  Laos  
222  Lebanon  
229  Pakistan  
231  Philippines  
238  Taiwan  
239  Thailand  
242  Vietnam  
301  Canada  
312  El Salvador  
313  Guatemala  
314  Honduras  
315  Mexico  
316  Nicaragua  
337  Cuba  
339  Dominican Republic  
342  Haiti  
343  Jamaica  
351  Trinidad and Tobago  
375  Argentina  
377  Brazil  
379  Colombia  
380  Ecuador  
383  Guyana
385  Peru
440  Nigeria
555  Elsewhere
610  Other North and Central America
611  Other Caribbean
620  Other South America
640  Other Africa
641  North Africa
650  Other Europe
651  Portugal with Azores
652  Great Britain
653  Scandinavia
654  Other Northern Europe
660  Other Asia
661  Other Middle East
670  Australia/Oceania
.  Not reported

Type: Character
Edit flag variable: JATVTY
Allocation Matrix: None
Topcoded: No
Module 2001 and later: person
Unit of observation: PERSON

Notes:
Ethnic and/or political affiliations are collapsed into broad categories.

**NOSTEP**
Entrance accessible w/o steps or stairs

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N
NROWN = Ownership shared w/ person not living here

1  yes
2  no
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Is the ownership of the unit shared with anyone NOT living here?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [[NOT 'for rent or for sale' and NOT For sale only and NOT 'sold, but not yet occupied') or (((For rent or for sale or for sale only) or Sold, but not yet occupied) and Ownership of unit time shared or don't know or refused)]; OR
2 : [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)]; OR
3 : [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)]; OR
4 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
NRPAYM =
Person not living here help pay mortgage/util

1  yes
2  no
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Does anyone not living here pay some of the mortgage or utility costs?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(NOT 'for rent or for sale' and NOT For sale only and NOT 'sold, but not yet occupied') or (((For rent or for sale or for sale only) or Sold, but not yet occupied) and Ownership of unit time shared or don't know or refused)]; OR
2 : [Occupied interview and (Rented or occupied without payment)] AND [(Mobile home)]; OR
3 : [Occupied interview and (Rented or occupied without payment)] AND [(NOT mobile home)]; OR
4 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**PAR**

Line number of parent of person

If using single file version of AHS, this variable becomes: **PAR1-PAR16**

1:30  1-30
.
.  Not reported

*Type:* Numeric
*Edit flag variable:* JPAR
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* person
*Module 2001 and later:* person
*Unit of observation:* PERSON

**PER**

Number of persons in household

1:30  1-30 persons
B  Not applicable

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* toppuf
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD
PERSINT =
Personal/telephone interview

1 Personal visit
2 Telephone interview

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

PERSON =
Line number of person

If using single file version of AHS, this variable becomes: PERSON1-PERSON16

1:30 1-30

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: jtw
Module 2001 and later: jtw
Unit of observation: JTW/PERSON

Notes:
In 1998, in PERSON module.
**PERSON**

Line number of person

If using single file version of AHS, this variable becomes: **PERSON1-PERSON16**

1:30  1-30

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: JTW/PERSON

Notes:
In 1998, in PERSON module.

**PLINE**

Line number of person

If using single file version of AHS, this variable becomes: **PLINE1-PLINE16**

Information for PLINE1 variable (head of household) is also stored in: **HHPLINE**

1:30  1-30

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON
**PREOCC** =
Received unit as gift or purchased it

1  Gift or inheritance
2  Purchased
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Did you receive the home as a gift or inheritance or did you purchase it?

**Type:** Character  
**Edit flag variable:** J PROJ  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR  
2 : [Occupied interview and Owned] AND [(Respondent obtained home) or Did not know how obtained home or Refused to answer how obtained home or Not reported how owner obtained unit] ; OR  
3 : [Occupied interview] AND [Not owned] ; OR  
4 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]

**QIDRI =**
(FAM)Interest/rental/royalty/estate income

1  Yes
2  No
Blank  Not reported

**Type:** Character  
**Edit flag variable:** J QIDRI  
**Allocation Matrix:** Regression based  
**Topcoded:** No  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 2005N
QOTALM = (FAM)VA/unemploy/child support/alim/other
1 Yes
2 No
Blank Not reported

Type: Character
Edit flag variable: JQOTALM
Allocation Matrix: Regression based
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N

QRETIR = (FAM)Received retirement or survivor pension
1 Yes
2 No
Blank Not reported

Type: Character
Edit flag variable: JQRETIR
Allocation Matrix: Regression based
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N

QSELF = (FAM)Received self-employment income
1 Yes
2 No
Blank Not reported

Type: Character
Edit flag variable: JQSELF
Allocation Matrix: Regression based
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N
QSSI =
(FAM) Received supplemental security income

1  Yes
2  No
Blank  Not reported

Type: Character
Edit flag variable: JQSSI
Allocation Matrix: Regression based
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N
RACE =
Race of person

If using single file version of AHS, this variable becomes: RACE1-RACE16
Information for RACE1 variable (head of household) is also stored in: HHRACE

1  White Only
2  Black Only
3  American Indian, Alaskan Native Only
4  Asian Only
5  Hawaiian, Pacific Islander Only
6  White / Black
7  White / American Indian, Alaska Native
8  White / Asian
9  White / Hawaiian, Pacific Islander
10 Black / American Indian, Alaska Native
11 Black / Asian
12 Black / Hawaiian, Pacific Islander
13 American Indian, Alaska Native / Asian
14 Asian / Hawaiian, Pacific Islander
15 White / Black / American Indian, Alaska Native
16 White / Black / Asian
17 White / American Indian, Alaska Native / Asian
18 White / Asian/Hawaiian, Pacific Islander
19 White / Black / American Indian, Alaska Native / Asian
20 Other combinations of 2 or 3 races
21 Other combinations of 4 or 5 races

Long description:
What is the person's race?

Type: Character
Edit flag variable: JRACE
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON

Notes:
In surveys prior to FY2003, the RACE codes are as follows:
1 = White
2 = Black
3 = American Indian, Aleut, or Eskimo
4 = Asian or Pacific Islander
5 = Other Race
In surveys prior to 2005, the RACE code read as follows:
19 = White / American Indian, Alaska Native / Asian
In 2005, this was changed to add Black
REL =
Relationship of person to reference person

If using single file version of AHS, this variable becomes: REL1-REL16
Information for REL1 variable (head of household) is also stored in: HHREL

1  Reference person with relatives in household
2  Reference person without relatives in household
20  Spouse (husband/wife)
22  Child of reference person
23  Grandchild of reference person
24  Parent of reference person
25  Sibling (brother/sister) of reference person
26  Other relative of reference person
31  Unmarried partner (with own relatives)
32  Unmarried partner (without own relatives)
33  House/roommate (with own relatives)
34  House/roommate (without own relatives)
35  Roomer/boarder (with own relatives)
36  Roomer/boarder (without own relatives)
37  Other nonrelative (with own relatives)
38  Other nonrelative (without own relatives)

Long description:
What is this person's relationship to reference person?

Type: Numeric
Edit flag variable: J REL
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON
### REMP

**Employed by household**

1. Yes
2. No

**Long description:**
Is this person an employee of the household?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** person  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 1997N, 1998MSA

### RESPTYP

**Type of respondent**

1-5  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

**Long description:**
FR: MARK WITHOUT ASKING  
What type of respondent is this?  
(1) Owner  
(2) Manager  
(3) Neighbor  
(4) Real Estate Agent  
(5) Other

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**
1: [Occupied interview] AND [(NOT URE interview or vacant interview)]; OR  
2: [Noninterview]
SAMEHH =
Same household members live in unit

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Don't Know</td>
<td></td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
<td></td>
</tr>
</tbody>
</table>

Long description:
This variable was created by the bridge system.
Same household members lived in unit for previous enumeration?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
The conversion to automated interviewing in 1997 introduced some flaws into the SAMEHH variable that have continued to occur in subsequent surveys.
Comparing data across years using SAMEHH does not yield accurate results. A partial fix is to check STATUS in the preceding year.
If STATUS ne 1 or 4 (where NOINT = 1-6) then SAMEHH must be 2.
To obtain better results, Census suggests that alternate variables such as MOVE or AGE may be useful.
SAMEHH2 =
Same household members live in unit (recode)

1  Same household (SAMEHH=1) and current year and prior year are regular interviews
2  Different household (SAMEHH=2) and current year and prior year are regular interviews
3  Occupied and don't know if same household (SAMEHH=3) and current year and prior year are regular interviews
4  New household, current year is regular interviews, prior year is URE or vacant interview
5  New household, current year is regular interview, prior year is new interview or unit is new to sample
B  Not applicable
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N

SCHNO =
Nobody in household attends school

X  Does not attend school
B  Not applicable
Blank  Not reported

Long description:
Does anyone in household attend a public school or a private school?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**SCHOTH**
Someone in household attends other type of school

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Other school (ungraded schools, special schools, preschools, early learning centers,</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Does anyone in household attend a public school or a private school?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**SCHPRI**
Someone in household attends private school

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Private school (K-12)</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Does anyone in household attend a public school or a private school?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
**SCHPUB**
Someone in household attends public school

X Public school (K-12)
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:* Does anyone in household attend a public school or a private school?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**SEX**
Sex of person

If using single file version of AHS, this variable becomes: SEX1-SEX16
Information for SEX1 variable (head of household) is also stored in: HHSEX

1 Male
2 Female

*Long description:* What is the sex of this person: Male or Female?

Type: Character
Edit flag variable: J SEX
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON
SNITEV =
Number of nights owner spends at vacant/URE unit

1  0-2 nights
2  3-7 nights
3  8 or more nights
B  Not applicable
D  Don't Know
R  Refused
Blank Not reported

Long description:
In the past year, how many nights did the owner(s) stay in this vacant/URE unit?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

SPAN =
Spanish origin of person

If using single file version of AHS, this variable becomes: SPAN1-SPAN16
Information for SPAN1 variable (head of household) is also stored in: HHSPAN

1  Yes
2  No

Long description:
Is this person Hispanic or Spanish-American?

Type: Character
Edit flag variable: JSPAN
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON
**SPOS**

Line number of spouse of person

If using single file version of AHS, this variable becomes: **SPOS1-SPOS16**

Information for SPOS1 variable (head of household) is also stored in: **HHSPoS**

1:30  1-30  
.  Not reported

*Type:* Numeric

*Edit flag variable:* JSPOS

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* person

*Module 2001 and later:* PERSON

*Unit of observation:* PERSON


---

**STATUS**

Interview status

1  Occupied interview
2  URE (Usual Residence Elsewhere) interview
3  Vacant interview
4  Noninterview

*Type:* Character

*Edit flag variable:* None

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD

STATUS =
Interview status

1  Occupied interview
2  URE (Usual Residence Elsewhere) interview
3  Vacant interview
4  Noninterview

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

TEN =
This person is owner/renter of unit

If using single file version of AHS, this variable becomes: TEN1-TEN16
Information for TEN1 variable (head of household) is also stored in: HHTEN

X  Person owns or rents unit
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON

Notes:
In the 1999 National data, some of the values of TEN are coded '1' when they should be coded 'X.'
**WHDY** =  
Number of days worked at home  
If using single file version of AHS, this variable becomes: **WHDY1-WHDY16**  
0:7 0-7 Days  

*Long description:*  
How many separate days last week did this person work at home instead of traveling to work?  

*Type:* Character  
*Edit flag variable:* J WHDY  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* jtW  
*Module 2001 and later:* jtW  
*Unit of observation:* J TW/PERSON  

**WHHRB** =  
# hours worked at home (self-employed)  
If using single file version of AHS, this variable becomes: **WHHRB1-WHHRB16**  
1:168 1-168 Hours  

*Long description:*  
Last week, how many hours did this person work at home as a self-employed person or contract worker or business owner?  

*Type:* Numeric  
*Edit flag variable:* J WHHRB  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* jtW  
*Module 2001 and later:* jtW  
*Unit of observation:* J TW/PERSON  
**WHHRW** =
# hours worked at home (wage & salary)

If using single file version of AHS, this variable becomes: **WHHRW1-WHHRW16**

0:168 0-168 Hours

*Long description:*
Last week, how many hours did this person work at home on a wage or salary job?

- **Type:** Numeric
- **Edit flag variable:** J WHHRW
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** jtw
- **Module 2001 and later:** jtw
- **Unit of observation:** J TW/PERSON

**WHOME** =
Work at home for employer

If using single file version of AHS, this variable becomes: **WHOME1-WHOME16**

1 Yes
2 No

*Long description:*
Last week, did this person do any of the regularly scheduled work for the employer at home?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** jtw
- **Module 2001 and later:** jtw
- **Unit of observation:** J TW/PERSON
**WINUS =**
Place of work outside the U.S.

If using single file version of AHS, this variable becomes: **WINUS1-WINUSS16**

1  Place of work outside of U.S.
9  Work inside U.S. or Not Applicable

*Long description:*
This variable was created by the bridge system.
In what City, State, Zip code, and county did this person work last week?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: jtw
Module 2001 and later: jtw
Unit of observation: JTW/PERSON

**WLINEQ =**
Work at all last week

If using single file version of AHS, this variable becomes: **WLINEQ1-WLINEQ16**
Information for WLINEQ1 variable (head of household) is also stored in: **HHWLINEQ**

1  Yes
2  No
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Did this person work at any time last week?
*(DO NOT COUNT A PERSON AS WORKING IF HE/SHE WAS ABSENT FROM WORK ALL LAST WEEK DUE TO ILLNESS, VACATION, STRIKE, LAYOFF, ETC.)*

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: JTW/PERSON
**ZADULT**
Number of adults 18+ in household

- 0:10  0-10 adults
- 11   11 adults or more
- B    Not applicable

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: toppuf
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded but users can also add all of the people in household.
Topcoded at 11. Listed topcode appears on microdata.

**ZMVGRP**
Total Number of mover groups in the household

- 0:4  0:4
- B    Not applicable
- Blank Not reported

Long description:
Total number of mover groups in the household

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N
Income

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, food stamps) and on contributions towards rent made by non-relatives living in the unit.

Notes:

Accounting Period: There may be significant differences in the income data among the AHS, other surveys, and Decennial Census. For example, the time period for income data in the AHS refers to the 12 months before the interview. Other income data generally refer to the calendar year before the date of the interview. Additional differences in the income date 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 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 tax return, while still 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.

Wages and salaries: 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.) 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. The variable SAL (SAL1-SAL15 in the “flattened form”) – wage and salary income of person – contains the wages and salaries for family members, and total income of non-relatives. To determine whether a person is family or non-relative, use the variable REL (REL1-REL15 in the “flattened form”) – 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 relative in the household.

Income: Income in the AHS is based on the respondent's reply to questions about income for the 12 months before the interview. Income 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.
Numerous studies have attempted to assess the accuracy of self-reported income in various surveys. These studies show there are errors in both directions (over- and under-reporting), but that in general, income is underreported. Since 1999, income data are collected for all individuals occupying the housing unit who are 16 years of age and older. Previously, income data had been collected for all people 14 years old and over.

Wage or salary income: These are defined as the total money earnings received for work performed as an employee. It includes wages, salaries, piece-rate payments, commissions, tips, cash bonuses, and Armed Forces pay. Net self-employment income is defined as net money income (gross receipts minus operating expenses) received from a business, professional practice, partnership, or farm in which the person was self-employed. 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 that owners of incorporated businesses pay themselves. Respondents are first 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 disables; unemployment insurance benefits; money received for transportation and/or subsistence by people participating in special government 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. Money from the following sources is not included as income: value of income “in kind”, such as free living quarters, household 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 banks 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: These 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. There are known to be errors in reporting. As of the time of publication of this codebook, HUD is researching these errors. The final report will be available on HUD USER when it is complete.
CROPSL =
Receive farm income
1  Yes
2  No
B  Not applicable

Long description:
During the past 12 months did sales of crops, livestock, and other farm products from this place amount to $1,000 or more?

Type: Character
Edit flag variable: J ROPSL
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND (((One-unit building) or One-unit mobile home) and Received income from business/farm/ranch and Lot is less than or equal to 44000 square feet] ; OR
3 : [Occupied interview] AND (((One-unit building) or One-unit mobile home) and Did NOT receive income from business/farm/ranch or not applicable or not reported] ; OR
4 : [Occupied interview] AND [Apartment building or Attached mobile home]
**FOOD**

Meals included in rent paid to household

If using single file version of AHS, this variable becomes: **FOOD1-FOOD16**

1  Yes  
2  No  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*

Does that include meals?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* person  
*Module 2001 and later:* person  
*Unit of observation:* PERSON  

*Conditions not in universe:*

1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR  
2 : [(NOT occupied interview or URE interview or vacant interview)] ; OR  
3 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and PAR(L_NO) ne 0 and PAR(L_NO) ne <> and TEN(PAR) eq 'X'] ; OR  
4 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and SPOUS(L_NO) ne <> and (TEN(SPOUS) eq 'X' or )] ; OR  
5 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and This person is owner/renter of unit] ; OR  
6 : [Occupied interview] AND [The person is 16 years or older and Relative or reference person] ; OR  
7 : [Occupied interview] AND [The person is 15 years or younger] ; OR  
8 : [Occupied interview] AND [Lodger does not pay a fixed amount to the household or Does not know how much lodger pays to household or Refused to answer how much lodger pays to the household]
HHFOOD = Lodger contributes to household for food
X household groceries

Long description:
Do you ask lodgers to contribute on a regular basis to the household costs for:

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

HHMORT = Lodger contributes to household for mort/rent
X the mortgage or rent

Long description:
Do you ask lodgers to contribute on a regular basis to the household costs for:

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA
**HHOTH**
Lodger contributes to household for other costs

X anything else

*Long description:*
Do you ask lodgers to contribute on a regular basis to the household costs for:

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

**HHUTFU**
Lodger contributes to household for utilities

X utilities or fuels

*Long description:*
Do you ask lodgers to contribute on a regular basis to the household costs for:

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA
INV20K =
Total savings/investments over $25,000

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Is the total amount of savings and investments over $25,000?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [NOT occupied interview]
LODRNT =
Amount lodger pays to household

If using single file version of AHS, this variable becomes: LODRNT1-LODRNT16

1:9997 $1-$9,997
9998 $9,998 or more
B Not applicable
D Don't Know
R Refused
. Not reported

Long description:
How much is this amount?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
2: [(NOT occupied interview or URE interview or vacant interview)]; OR
3: [Occupied interview] AND [The person is 16 years or older and Non-Relative and PAR(L_NO) ne 0 and PAR(L_NO) ne <> and TEN(PAR) eq 'X']; OR
4: [Occupied interview] AND [The person is 16 years or older and Non-Relative and SPOUS(L_NO) ne <> and (TEN(SPOUS) eq 'X' or )]; OR
5: [Occupied interview] AND [The person is 16 years or older and Non-Relative and This person is owner/renter of unit]; OR
6: [Occupied interview] AND [The person is 16 years or older and Relative or reference person] ; OR
7: [Occupied interview] AND [The person is 15 years or younger] ; OR
8: [Occupied interview] AND [Lodger does not pay a fixed amount to the household or Does not know how much lodger pays to household or Refused to answer how much lodger pays to the household]
**LODSTA**
Lodger pays fixed amount to household

If using single file version of AHS, this variable becomes: **LODSTAT1-LODSTAT16**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Yes</td>
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<td>2</td>
<td>No</td>
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<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
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<td>Not reported</td>
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</tbody>
</table>

*Long description:*
On a regular basis, (name of lodger) pay a fixed amount as a lodger to someone in this household?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* person  
*Module 2001 and later:* person  
*Unit of observation:* PERSON  

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR  
2 : [(NOT occupied interview or URE interview or vacant interview)] ; OR  
3 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and PAR(L_NO) ne 0 and PAR(L_NO) ne <> and TEN(PAR) eq 'X'] ; OR  
4 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and SPOUS(L_NO) ne <> and (TEN(SPOUS) eq 'X' or )] ; OR  
5 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and This person is owner/renter of unit] ; OR  
6 : [Occupied interview] AND [The person is 16 years or older and Relative or reference person] ; OR  
7 : [Occupied interview] AND [The person is 15 years or younger]
LT25K =
Income in last 12 months over $25,000

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Was income total during the last 12 months over $25,000?

Type: Character
Edit flag variable: JLT25K
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA, 1999N

Conditions not in universe:
1 : [NOT occupied interview]
**OTHEST**
Anyone home who can estimate nonrelative income

If using single file version of AHS, this variable becomes: **OTHEST1-OTHEST16**

2  No
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Is there anyone home now who could provide an estimate of nonrelative lodger's income in the last 12 months?
If YES: ASK TO SPEAK TO PERSON, INTRODUCE YOURSELF.
USE THE F1 KEY TO RETURN TO NRIPLUS3 AND REASK.

**PQIDRI**
Received interest, dividends, royalty income

1  Yes
2  No
B  Not applicable
Blank  Not reported

*Long description:*
Did you receive any interest, dividends, net rental income, royalty income, or income from and trusts DURING THE PAST 12 MONTHS? Report even small amounts credited to your account.
**PQOTALM**
Received VA/unemployment/child support/alimony/other income

1  Yes
2  No
B  Not applicable
Blank  Not reported

*Long description:*
Did you receive income on a REGULAR basis from any other source such as Veteran's Administration (VA) payments, unemployment compensation, child support or alimony DURING THE PAST 12 MONTHS?

*Type:* Character
*Edit flag variable:* JPQOTALM
*Allocation Matrix:* Regression based
*Topcoded:* No
*Unit of observation:* PERSON
*Present in survey year(s):* 2005N

**PQOTHNR**
Other income received by nonrelative

1  Yes
2  No
B  Not applicable
Blank  Not reported

*Long description:*
Did you receive income on a REGULAR basis from any other sources DURING THE PAST 12 MONTHS?

*Type:* Character
*Edit flag variable:* JPQOTHNR
*Allocation Matrix:* Regression based
*Topcoded:* No
*Unit of observation:* PERSON
*Present in survey year(s):* 2005N
**PQRETIR**
Received retirement or survivor pension

1  Yes  
2  No  
B  Not applicable  
Blank  Not reported

*Long description:*
Did you receive any retirement or survivor pensions DURING THE PAST 12 MONTHS?

*Type:* Character  
*Edit flag variable:* JPQRETIR  
*Allocation Matrix:* Regression based  
*Topcoded:* No  
*Unit of observation:* PERSON  
*Present in survey year(s):* 2005N

**PQSAL**
Wages/salary received by reference person/relative

1  Yes  
2  No  
B  Not applicable  
Blank  Not reported

*Long description:*
During the past 12 months, did you receive any wages, salary, tips, bonuses, or commissions?

*Type:* Character  
*Edit flag variable:* JPQSAL  
*Allocation Matrix:* Regression based  
*Topcoded:* No  
*Unit of observation:* PERSON  
*Present in survey year(s):* 2005N
**PQSALNR** =
Salary received by nonrelative

1 Yes
2 No
B Not applicable
Blank Not reported

*Long description:*
During the past 12 months, did you receive any wages, salary, tips, bonuses, or commissions?

Type: Character
*Edit flag variable:* JPQSALNR
*Allocation Matrix:* Regression based
*Topcoded:* No
*Unit of observation:* PERSON
*Present in survey year(s):* 2005

**PQSELF** =
Received self-employment income

1 Yes
2 No
B Not applicable
Blank Not reported

*Long description:*
Did you receive any self-employment income DURING THE PAST 12 MONTHS?

Type: Character
*Edit flag variable:* JPQSELF
*Allocation Matrix:* Regression based
*Topcoded:* No
*Unit of observation:* PERSON
*Present in survey year(s):* 2005

*Notes:*
Report income from own business (farm or non-farm) including proprietorship and partnership.
**PQSELFNR**  
Received self-employment income by nonrelative

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<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*  
Did you receive any self-employment income **DURING THE PAST 12 MONTHS**?

*Type:* Character  
*Edit flag variable:* JPQSELFNR  
*Allocation Matrix:* Regression based  
*Topcoded:* No  
*Unit of observation:* PERSON  
*Present in survey year(s):* 2005N

*Notes:*  
Report income from own business (farm or non-farm) including proprietorship and partnership.

---

**PQSS**  
Received Social Security or Railroad Retirement pension

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<td>Not reported</td>
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</tbody>
</table>

*Long description:*  
Did you receive any Social Security or Railroad Retirement benefits **DURING THE PAST 12 MONTHS**?

*Type:* Character  
*Edit flag variable:* JPQSS  
*Allocation Matrix:* Regression based  
*Topcoded:* No  
*Unit of observation:* PERSON  
*Present in survey year(s):* 2005N
**PQSSI** =
Received Supplemental Security Income

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<tr>
<td>B</td>
<td>Not applicable</td>
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<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Did you receive any Supplemental Security Income (SSI) payments DURING THE PAST 12 MONTHS?

**Type:** Character  
**Edit flag variable:** JPQSSI  
**Allocation Matrix:** Regression based  
**Topcoded:** No  
**Unit of observation:** PERSON  
**Present in survey year(s):** 2005N

*Notes:*
Exclude Supplemental Security Disability Income (SSDI).

**PQWELF** =
Received SSI, AFDC, other welfare

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</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Did you receive any public assistance or public welfare payments from the state or local welfare office DURING THE PAST 12 MONTHS?

**Type:** Character  
**Edit flag variable:** JPQWELF  
**Allocation Matrix:** Regression based  
**Topcoded:** No  
**Unit of observation:** PERSON  
**Present in survey year(s):** 2005N
**PQWKCMP**
Received SSDI, work. comp., vet. or other disability payments

1  Yes
2  No
B  Not applicable
Blank  Not reported

Long description:
Did you receive any disability payments such as SSDI, worker's compensation, veteran's disability or other disability payments DURING THE PAST 12 MONTHS?

Type:  Character
Edit flag variable:  JPQWKCMP
Allocation Matrix:  Regression based
Topcoded:  No
Unit of observation:  PERSON
Present in survey year(s):  2005N

**PVOTHER**
Sum of a person's other income

-10000:-10  -$10,000 to -$10
0:9999997  $0 to $9,999,997
9999998  $9,999,998 or more
B  Not applicable
.  Not reported

Long description:
A sum of all other non-wage income for a person.

Type:  Numeric
Edit flag variable:  JPVOTHER
Allocation Matrix:  Regression based
Topcoded:  Yes
Unit of observation:  PERSON
Present in survey year(s):  2005N
QALIM =
Received alimony or child support

1  Yes
2  No
B  Not applicable
Blank  Not reported

Long description:
In the past 12 months did-you receive alimony/child support?

Type:          Character
Edit flag variable:  J QALIM
Allocation Matrix:  None
Topcoded:       No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [NOT occupied interview]

QBINV =
Household has farm or business investments

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Have investments in a farm or business?

Type:          Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:       No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [Income in last 12 months over $25,000] ; OR
3 : [Occupied interview] AND [Total household income is greater than $25,000]
**QBUS**
Received income from business/farm/ranch

1  Yes  
2  No  
B  Not applicable  
Blank  Not reported

*Long description:*
In the past 12 months did you have a business, farm or ranch?

**QDIV**
Received dividends from stock

1  Yes  
2  No  
B  Not applicable  
Blank  Not reported

*Long description:*
In the past 12 months did you have dividends from stocks?
QFS1 = 
Received food stamps in last 12 months

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Did you receive Food Stamp Benefits in the past 12 months?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [Income in last 12 months over $25,000] ; OR
3 : [Occupied interview] AND [Total household income is greater than $25,000]
**QINT** =
Received interest from savings, cd, etc

1  Yes
2  No
B  Not applicable
Blank  Not reported

*Long description:*
In the past 12 months did-you have interest from savings, money market funds, IRA's, certificates of deposit or other interest bearing accounts?

Type: Character
*Edit flag variable:* J QINT
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [NOT occupied interview]

**QMEN** =
Any income not already mentioned

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
We want to make sure we've included all income
In the past 2 months, did you have any income not already mentioned?

Type: Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [NOT occupied interview]
QOINV =
Household has other investments

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
have other investments (excluding this home)?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [Income in last 12 months over $25,000] ; OR
3 : [Occupied interview] AND [Total household income is greater than $25,000]
**QOTHER**
Received unemployment/vet payments/other inc

1  Yes
2  No
B  Not applicable
Blank  Not reported

*Long description:*
In the past 12 months did you receive unemployment compensation, any veterans' payments not already mentioned or any other income?

**Type:** Character
**Edit flag variable:** J QOTHR
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [NOT occupied interview]

**QRENT**
Received rental income

1  Yes
2  No
B  Not applicable
Blank  Not reported

*Long description:*
In the past 12 months did you receive rental income?

**Type:** Character
**Edit flag variable:** J QRENT
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [NOT occupied interview]
QSAVNG = Household has savings

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description: have savings?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [Income in last 12 months over $25,000] ; OR
3 : [Occupied interview] AND [Total household income is greater than $25,000]
**QSS**
Received social security or pension

1 Yes
2 No
B Not applicable
Blank Not reported

*Long description:*
In the past 12 months did you receive Social Security/pensions?

*Type:* Character
*Edit flag variable:* JQSS
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1: [NOT occupied interview]
QWELF =
Received ssi, afdc, other welfare

1   Yes
2   No
B   Not applicable
Blank  Not reported

Long description:
Did you receive any public assistance or public welfare payments from the
state or local welfare office DURING THE PAST 12 MONTHS?

Type:              Character
Edit flag variable: JQWELF
Allocation Matrix: None
Topcoded:          No
Module 1999 and earlier: houshd
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
The question was revised in 2005 from the following:
In the past 12 months did you receive SSI/AFDC/other welfare?

Conditions not in universe:
1 : [NOT occupied interview]
**QWKCMP**
Received workers compensation or other disability payments

1  Yes
2  No
B  Not applicable
Blank  Not reported

*Long description:*
In the past 12 months did you receive worker's compensation or other disability payments?

**RCARP**
Receive help w/ transportation expenses

X  Car or transportation expenses (include gas, car payments tolls, public transportation)
Blank  Not reported

*Long description:*
In these difficult economic times, many people have trouble making ends meet. Do you receive any EXTRA help from people or groups outside the household to meet your monthly expenses, such as help with -
RCLOT =
Receive help with clothing expenses

X Clothes
Blank Not reported

Long description:
In these difficult economic times, many people have trouble making ends meet. Do you receive any EXTRA help from people or groups outside the household to meet your monthly expenses, such as help with -

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: ratiov
Module 2001 and later: ratiov
Unit of observation: HOUSEHOLD

RCOST =
Receive help with rent payments

X The rent
D Don’t Know
Blank Not reported

Long description:
In these difficult economic times, many people have trouble making ends meet. Do you receive any EXTRA help from people or groups outside the household to meet your monthly expenses, such as help with -

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: ratiov
Module 2001 and later: ratiov
Unit of observation: HOUSEHOLD
REPHA
Report income to public housing authority

1  A building manager or landlord?
2  A public housing authority or a state or local housing agency?
3  Or, someone else? Specify
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
To whom did you report
your income--

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [] ; OR
2 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [] ; OR
3 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
4 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied] ; OR
5 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
6 : [Occupied interview and (Rented or occupied without payment)] AND [(Income info NOT required for lease renewal or Don't know if income info required for lease renewal or Refused to disclose if income info required for lease renewal) and ] ; OR
7 : [Occupied interview and (Rented or occupied without payment)] AND [] ; OR
8 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance] ; OR
9 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
**RGROC**
Receive help with grocery bills

X  Food or groceries
Blank  Not reported

*Long description:*
In these difficult economic times, many people have trouble making ends meet. Do you receive any EXTRA help from people or groups outside the household to meet your monthly expenses, such as help with -

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<tr>
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<tr>
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<td>Module 1999 and earlier:</td>
<td>ratiov</td>
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<tr>
<td>Module 2001 and later:</td>
<td>ratiov</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**RKIDC**
Receive help with child care payments

X  Child care
D  Don't Know
Blank  Not reported

*Long description:*
In these difficult economic times, many people have trouble making ends meet. Do you receive any EXTRA help from people or groups outside the household to meet your monthly expenses, such as help with -

<table>
<thead>
<tr>
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<tr>
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<td>ratiov</td>
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<tr>
<td>Unit of observation:</td>
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</tr>
</tbody>
</table>
RMEDI =
Receive help with medical bills

X  Medical care or medicine
D  Don't Know
Blank  Not reported

Long description:
In these difficult economic times, many people have trouble making ends meet. Do you receive any EXTRA help from people or groups outside the household to meet your monthly expenses, such as help with -

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  ratiov
Module 2001 and later:  ratiov
Unit of observation:  HOUSEHOLD
RNTDUE = Frequency of lodger's rent payment to household

If using single file version of AHS, this variable becomes: RNTDUE1-RNTDUE16

1:52  1-52 times per year
53  53 times or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
How often is this amount due?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: PERSON

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
3 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and PAR(L_NO) ne 0 and PAR(L_NO) ne <> and TEN(PAR) eq 'X'] ; OR
4 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and SPOUS(L_NO) ne <> and (TEN(SPOUS) eq 'X' or )] ; OR
5 : [Occupied interview] AND [The person is 16 years or older and Non-Relative and This person is owner/renter of unit] ; OR
6 : [Occupied interview] AND [The person is 16 years or older and Relative or reference person] ; OR
7 : [Occupied interview] AND [The person is 15 years or younger] ; OR
8 : [Occupied interview] AND [Lodger does not pay a fixed amount to the household or Does not know how much lodger pays to household or Refused to answer how much lodger pays to the household]
**ROTHE**
Received other assistance making ends meet

1  Yes
2  No
D  Don't Know
Blank  Not reported

*Long description:*
Do you receive any financial help or assistance in making ends meet?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* ratio
*Module 2001 and later:* ratio
*Unit of observation:* HOUSEHOLD

**RUTIL**
Receive help with utility bills

X  Utility bills
Blank  Not reported

*Long description:*
In these difficult economic times, many people have trouble making ends meet. Do you receive any EXTRA help from people or groups outside the household to meet your monthly expenses, such as help with -

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* ratio
*Module 2001 and later:* ratio
*Unit of observation:* HOUSEHOLD
**SAL**
Wage & salary income of person

If using single file version of AHS, this variable becomes: **SAL1-SAL16**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
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<tr>
<td>1-999997</td>
<td>$1-$999,997</td>
</tr>
<tr>
<td>999998</td>
<td>$999,998 or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Long description:*
In the past 12 months, how much did you earn in wages, salaries, tips, and commissions before deductions? (IF DON'T KNOW, ASK FOR BEST ESTIMATE)

*Type:* Numeric

*Edit flag variable:* J SAL

*Allocation Matrix:* Regression based

*Topcoded:* Yes

*Module 1999 and earlier:* person

*Module 2001 and later:* person

*Unit of observation:* SAL


*Notes:*
Topcoded at 1,000,000.

*Conditions not in universe:*
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [(Person is not household member or The is 15 years or younger)]
**SUBRNT**
Government subsidizes rent for unit

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Does the Federal, State, or local government pay some of the cost of the unit?

*Type:* Character
*Edit flag variable:* JUBRNT
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ]; OR
2 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or Rented, but not yet occupied)] AND [Owned by public housing authority]; OR
3 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
4 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied]; OR
5 : [(NOT occupied interview or URE interview or vacant interview)] AND [ ]; OR
6 : [Occupied interview and (Rented or occupied without payment)] AND [ ]; OR
7 : [Occupied interview and (Rented or occupied without payment)] AND [Report income to public housing authority or a state or local housing agency and ]; OR
8 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance]; OR
9 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
**SUBRNT1**
Government subsidizes rent for unit

1 Yes
2 No
3 Don't know

*Long description:*
Do you pay a lower rent because the government is paying part of the cost of the unit?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1998MSA

*Conditions not in universe:*
1: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
2: [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied]; OR
3: [(NOT occupied interview or URE interview or vacant interview)]; OR
4: [Occupied interview and Owned] AND [Respondent has homeowner's insurance]; OR
5: [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
**SUBRNT2**
Government subsidizes rent for unit

1  Yes
2  No

*Long description:*
Does the Federal, State, or local government pay some of the cost of the unit?

*Type:* Character

*Edit flag variable:* None

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Unit of observation:* HOUSEHOLD

*Present in survey year(s):* 1997N, 1998MSA

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**VCHER**
Received voucher to help pay rent

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Did a public housing authority, or some similar agency, give you a CERTIFICATE or VOUCHER to help pay the rent for this housing unit?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ]; OR
2 : [(URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied))] AND [ ]; OR
3 : [(URE interview or vacant interview)] AND [[Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory]]; OR
4 : [(URE interview or vacant interview)] AND [For sale only or Sold, but not yet occupied]; OR
5 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
6 : [Occupied interview and (Rented or occupied without payment)] AND [Respondents were assigned to particular location of public housing and ]; OR
7 : [Occupied interview and (Rented or occupied without payment)] AND [ ]; OR
8 : [Occupied interview and (Rented or occupied without payment)] AND [Don't know if owned by public housing authority and (Income info required for lease renewal or Refused to disclose if income info required for lease renewal) and DO NOT report income to public housing authority or a state or local housing agency and ]; OR
9 : [Occupied interview and (Rented or occupied without payment)] AND [Don't know if owned by public housing authority and (Income info NOT required for lease renewal or Don't know if income info required for lease renewal) and Government doesn't subsidize rent for unit or don't know or refused and ]; OR
10 : [Occupied interview and (Rented or occupied without payment)] AND [Owned by public housing authority]; OR
11 : [Occupied interview and (Rented or occupied without payment)] AND [Government doesn't subsidize rent for unit and ]; OR
12 : [Occupied interview and Owned] AND [Respondent has homeowner's insurance]; OR
13 : [Occupied interview and Owned] AND [Respondent does not have homeowner's insurance]
**VOTHER**
Total amount of other income

-10000-999997  -$10,000-$999,997
999998  $999,998 or more
B  Not applicable

*Long description:*
In the past 12 months, what was the total income from:

<table>
<thead>
<tr>
<th>Type:</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>JVOTHR</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>Regression based</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>Yes</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Notes:*
Topcoded at 100,000. Listed topcode appears on microdata.
Bottomcoded at -10,000. Listed bottomcode appears on microdata.
In surveys prior to 2005, the Census Bureau's practice was that if a household listed no sources of nonlabor income, VOTHER was coded as blank, not zero. Similarly, if a person had no labor income, SAL was coded as blank. Beginning in 2005, these became zero values instead.

*Conditions not in universe:*
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [(Did NOT receive income from business/farm/ranch and Did not receive social security income or pension and Did NOT receive interest from savings, cd, etc. and Did NOT receive dividends from stock and Did NOT receive rental income and did NOT receive ssi, afdc, other welfare and Did NOT receive alimony or child support and Did NOT receive workers company or other disability and Did NOT receive unemployment /vet. Payments/other income)]
VOTHER2 =

-10000:999997
B Not applicable

Type: Numeric
Edit flag variable: None
Allocation Matrix: Regression based
Topcoded: Yes
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N

Notes:
Topcoded at 100,000. Listed topcode appears on microdata.
Bottomcoded at -10,000. Listed bottomcode appears on microdata.

Conditions not in universe:
1: [NOT occupied interview]
**ZINC**

Family income

-10000  loss of $10,000 or more
-9999:-1  loss of $1-$9,999
0  no income
1:9999995  income of $1-$9,999,995
9999996  income of $9,999,996 or more
B  Not applicable

*Long description:*
The family income recode is the sum of the wage & salary income of the
householder and all related individuals age 14+ and all other reported income.

*Type:* Numeric

*Edit flag variable:* None

*Allocation Matrix:* Regression based

*Topcoded:* Yes

*Module 1999 and earlier:* toppuf

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Notes:*
In 1999, this question covers people age 16 and older.
Topcoded at 9,999,996. Listed topcode appears on microdata.
Bottomcoded at -10,000. Listed bottomcode appears on microdata.
**ZINC2** = Household Income

-10000 loss of $10,000 or more
-9999:-1 loss of $1-$9,999
0 no income
1:9999995 income of $1-$9,999,995
9999996 income of $9,999,996 or more
B Not applicable

*Long description:*
The household income recode is the sum of the wage & salary income of all household members age 14+ and all other reported income.

**Type:** Numeric
**Edit flag variable:** None
**Allocation Matrix:** Regression based
**Topcoded:** Yes
**Module 1999 and earlier:** toppuf
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Notes:**
In 1999, this question covers people age 16 and older.
Topcoded at 9,999,996. Listed topcode appears on microdata.
Bottomcoded at -10,000. Listed bottom code appears on microdata.
ZINCH =
This month's income same as 1 year ago

1   Yes, about the same, or within 10 percent, or just cost of living adjustments
2   No
B   Not applicable
D   Don't Know
R   Refused

Long description:
Is your total income THIS MONTH
about the same as it was a year ago?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houhdl
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [NOT occupied interview]
**ZINCN** =
Expected income in next 12 months

0  None
1:999997  $1 - $999,997
999998  $999,998 or more
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

*Long description:*
What do you expect your total income to be in the NEXT 12 MONTHS?

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* Yes
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
Topcoded at 1,000,000.

*Conditions not in universe:*
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [This month's income is the same as 1 year ago]
Neighborhood

Data on neighborhood conditions include the presence of particular services, their dependability/adequacy, and the presence/extent of bother of particular detriments (e.g., litter, crime, pollution). Users should note that data on neighborhood conditions are based on subjective assessments of the respondent rather than on objective evaluations of the neighborhood (there are a few exceptions where the enumerator’s observations are available; these are indicated as appropriate). 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 Recent Mover section. Starting in 1997, interviewers are asked to complete, by observation, a few questions describing the immediate surroundings of the sample unit. The area is defined as ½ block in any direction from the front of the building. These variables are identified in the documentation by the words “within ½ block” in the variable description.

Some 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? The following questions:

1) Neighborhood crime (CRIMEA, CRIMEB, CRIMEC)
2) Neighborhood smells (ODORA, ODORB, ODORC)
3) Street noise (STRNA, STRNB, STRNC)

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.
ACCESSC =
Entry system required to access community

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

BADPER =
People in neighborhood are bothersome

X People
B Not applicable
R Refused
Blank Not reported

Long description:
What about the neighborhood bothers you?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**BADPRP**
Undesirable neighborhood/property bothersome

X  Undesirable commercial, institutional, or industrial property
B  Not applicable
R  Refused
Blank  Not reported

*Long description:*
What about the neighborhood bothers you?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**BADSrv**
Poor city/county services are bothersome

X  Poor city/county services
B  Not applicable
R  Refused
Blank  Not reported

*Long description:*
What about the neighborhood bothers you?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD
COMMRECR = Community recreational facilities available

1  Yes
2  No
B  Not applicable

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

COMMSERV = Community services provided

1  Yes
2  No
B  Not applicable

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**CRIMEA** =
Neighborhood has neighborhood crime

1  YES
2  NO
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
The following questions are concerned with specific aspects of your PRESENT neighborhood. Does the neighborhood have neighborhood crime?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**CRIMEB** =
Neighborhood crime bothersome

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused

*Long description:*
Does the neighborhood crime bother you?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
CRIMEC =
Crime so bad you want to move

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused

Long description:
Is it so objectionable that you would like to move from the neighborhood?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**EABAN**
Abandoned/vandalized buildings within 1/2 blk

1  Yes, one  
2  Yes, more than one  
3  No  
4  No other buildings within 300 feet  
0  Not reported  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*
Are there any vandalized or abandoned buildings within half a block of this building?  
Is there more than one vandalized or abandoned building?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1 : [Noninterview]
**EAGE**

Unit about same age as nearby units

1. Older
2. Same age
3. Younger
4. Very mixed
5. No other residential buildings
B. Not applicable
D. Don't Know
R. Refused
Blank. Not reported

**Long description:**
Finally, is this building older, younger or about the same age at the nearby buildings?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1. [Noninterview]
**EAPTBL**

Apartment buildings within 1/2 block of unit

| 1 | Yes |
| 2 | No  |
| B | Not applicable |
| D | Don't Know |
| R | Refused |
| Blank | Not reported |

*Long description:*
Are there any apartment buildings within a half a block of this building?

*Type:* Character

*Edit flag variable:* None

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*

1 : [Noninterview]
**EBARCL**

Buildings w/ bars on windows within 1/2 blk

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes, one building with bars</td>
</tr>
<tr>
<td>2</td>
<td>Yes, more than one building</td>
</tr>
<tr>
<td>3</td>
<td>No bars on windows</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*

Now, thinking of ALL of the buildings that are within half a block of this building, do any of these buildings have metal bars on their windows? Is there more than one building with metal bars on the windows?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** housld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**

1 : ([Occupied interview or URE interview or vacant interview]) AND [There are no abandoned or vandalized buildings within 300 feet] ; OR
2 : [Noninterview]
ECOM1 =
Business/institutions within 1/2 block

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Are there any businesses or institutions, such as stores, restaurants, schools or hospitals within half a block of this building?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshid
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview]
**ECOM2**
Factories/other industry within 1/2 block

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
How about any factories or other industrial structures?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [Noninterview]
EGREEN =
Open spaces within 1/2 block of unit

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Are any open spaces, such as parks, woods, farms or ranches within a half block of this building?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1  : [Noninterview]
**EHIGH**

Apartment buildings 7+ stories tall within 1/2 blk

1 Yes
2 No
B Not applicable
D Don't Know
R Refused

*Long description:*
Think of the apartment buildings that are located within a half block of this building, are any of these apartment buildings 7 or more stories tall?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1: [(Occupied interview or URE interview or vacant interview)] AND [There are no apartment buildings within half a block of the unit]; OR
2: [Noninterview]
**EJUNK** =
Trash/junk in streets/properties in 1/2 blk

1  Major accumulation
2  Minor accumulation
3  None
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Is there trash, litter or junk in the streets, roads, empty lots or on any properties within half a block of this building? (INCLUDE THIS BUILDING)
Is there a small amount or a large amount of trash, litter or junk?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1  : [Noninterview]
**ELOW1**

Single-family town/rowhouses in 1/2 blk

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
How about single-family townhouses or rowhouses?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
**ELOW2**

Apartment buildings <4 stories tall within 1/2 blk

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:*
Are any less than 4 stories tall?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [There are no apartment buildings within half a block of the unit] ; OR
2 : [Noninterview]
EMID = Apartment buildings 4-6 stories within 1/2 block

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description: Are any of these apartment buildings 4 to 6 stories tall?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [There are no apartment buildings within half a block of the unit] ; OR
2 : [Noninterview]
EMOBIL =
Mobile homes within 1/2 block of unit

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Are there any mobile homes?  (EXCLUDE CAMPERS)

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
**EPRKG**
Parking lots within 1/2 block of unit

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:*
Are any parking lots within a half block of this building?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
**EPRKGA =**
Nearby parking lots useable by anyone

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Parking lots can be used by anyone</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

Long description:
Referring to the parking lots you just mentioned, can these parking lots be used by those who work or shop in your neighborhood, or are they only to be used by those who live in your neighborhood?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshold
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [There are no parking lots within half a block of the unit]; OR
2 : [Noninterview]
**EPRKGR** = Nearby parking lots for residents only

X Parking lots only for residents  
B Not applicable  
Blank Not reported

*Long description:*
Referring to the parking lots you just mentioned, can these parking lots be used by those who work or shop in your neighborhood, or are they only to be used by those who live in your neighborhood?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [There are no parking lots within half a block of the unit] ; OR  
2 : [Noninterview]
**EPRKGS**
Nearby parking lots for shoppers/workers

X  Parking lots for shoppers or workers only
B  Not applicable
Blank  Not reported

*Long description:*
Referring to the parking lots you just mentioned, can these parking lots be used by those who work or shop in your neighborhood, or are they only to be used by those who live in your neighborhood?

| Type: Character |
| Edit flag variable: None |
| Allocation Matrix: None |
| Topcoded: No |
| Module 1999 and earlier: houshld |
| Module 2001 and later: newhouse |
| Unit of observation: HOUSEHOLD |

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [There are no parking lots within half a block of the unit]; OR
2 : [Noninterview]
EROAD =
Roads within 1/2 block need repairs

1  Major repair work
2  Minor repair work
3  No repair work
4  No streets within half a block
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
What is the condition of the streets within half a block of this building?
Do these streets need major repairs, minor repairs or no repair work?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview]
ESFD = Single family homes within 1/2 block

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Are there any single-family houses?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview]
**ETRANS**
Railroad/airport/4-lane hwy within 1/2 block

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
How about any railroads, airports or highways with at least 4 lanes -- any of these within a half block of this building?

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
EWATER =
Bodies of water within 1/2 block of unit

1    Yes
2    No
B    Not applicable
D    Don't Know
R    Refused
Blank    Not reported

Long description:
These next questions ask about the area that is within a half block of this building. For this survey, a half block is about 300 feet in length. Are there any bodies of water, such as ponds, lakes, rivers or the ocean within a half block of this building?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [Noninterview]
**GATED =**
Walls/fences surrounding community

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:*
Is your community surrounded by walls or fences preventing access by persons other than residents?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N

---

**HOWN =**
Rating of neighborhood as place to live

0 No neighborhood
1:10 Rating (10 is best, 1 is worst)
B Not applicable
D Don't Know
R Refused
. Not reported

*Long description:*
How would you rate your neighborhood on a scale of 1-10?

**Type:** Numeric
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [NOT occupied interview]
LITTER =
Litter in neighborhood bothersome

X Litter or housing deterioration
B Not applicable
R Refused
Blank Not reported

Long description:
What about the neighborhood bothers you?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

NEWTRN =
Neighborhood Public transportation satisfactory

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Is there public transportation for this area?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
NOISE =
Noise in neighborhood is bothersome

X Noise
B Not applicable
R Refused
Blank Not reported

Long description:
What about the neighborhood bothers you?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

NOISN1 =
Hear neighbors through floor/walls/ceiling

1 Never (at most once per year)
2 Rarely (less than 2 times per month)
3 Sometimes (less than 2 times per week)
4 Frequently (2 or more times per week)
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
What about inside your building? How often, if ever, do you hear neighbors through the floors, walls or ceilings of your housing unit?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
NOISN2 =
Loudness of neighbor's noise bothersome

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused

Long description:
Is the loudness of the noise bothersome?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

NOISN3 =
Timing of neighbor's noise bothersome

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused

Long description:
Is the time of the noise bothersome?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
NOPROB =
Nothing bothersome in neighborhood

X   No problem
B   Not applicable
R   Refused
Blank  Not reported

Long description:
What about the neighborhood bothers you?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

NORC =
Majority of neighbors 55+

1   Yes
2   No
B   Not applicable
D   Don't Know
R   Refused
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
NPROBS =  
Anything bothersome in neighborhood

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Is there anything about the neighborhood that bothers you?

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

ODORA =  
Neighborhood has bad smells

1  YES
2  NO
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
The following questions are concerned with specific aspects of your PRESENT neighborhood. Does the neighborhood have smoke, gas, or bad smells?

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD
ODORB =
Neighborhood smells are bothersome

1   Yes
2   No
B   Not applicable
D   Don’t Know

Long description:
Does the smoke, gas, or bad smells bother you?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

ODORC =
Smells are so bad you want to move

1   Yes
2   No
B   Not applicable
D   Don’t Know

Long description:
Is it so objectionable that you would like to move from the neighborhood?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
OTHNHD =
Other problems bothersome in neighborhood

X Other (SPECIFY)
B Not applicable
R Refused
Blank Not reported

Long description:
What about the neighborhood bothers you?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

SATPOL =
Neighborhood police protection satisfactory

1 Yes
2 No
B Not applicable
D Don’t Know
R Refused
Blank Not reported

Long description:
Do you have satisfactory police protection for this area?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
SCH =
Neighborhood public Elementary school satisfactory

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Is the public elementary school for this area satisfactory?
(IF MORE THAN ONE PUBLIC ELEMENTARY SCHOOL, ASK ABOUT THE CLOSEST ONE TO THE
SAMPLE UNIT.)

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

SCHCLS =
Neighborhood public Elementary school within 1 mile

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Is that public elementary school within one mile of here?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
SCHM =
Public Elementary school so bad you want to move

1 Yes
2 No
B Not applicable
D Don't Know

Long description:
Is it so unsatisfactory that you would like to move from the neighborhood?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
SHARP\text{F} = \\
Unit shares plumbing facilities

1 \quad Yes \\
2 \quad No \\
B \quad Not applicable

\textit{Long description:} \\
Some people live in neighborhoods where some of the houses don't have complete plumbing facilities so they must use other people's bathrooms. Does anyone not living in your home, not counting guests or workers, regularly use your

\begin{description}
\item[Type:] Character \\
\item[Edit flag variable:] JHARP\text{F} \\
\item[Allocation Matrix:] None \\
\item[Topcoded:] No \\
\item[Module 1999 and earlier:] houshld \\
\item[Module 2001 and later:] newhouse \\
\item[Unit of observation:] HOUSEHOLD \\
\end{description}

\textit{Conditions not in universe:} \\
1 : \text{[Occupied interview or URE interview or vacant interview]} \text{AND [Unit does not have hot and cold running water and Unit does not have a bathroom sink and Unit does NOT have a flush toilet and Unit does NOT have a bathtub or shower]} \text{; OR} \text{; OR} \\
2 : \text{[NOT occupied interview or URE interview or vacant interview]}
**SHP**
Neighborhood shopping satisfactory

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don’t Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
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<tr>
<td>Blank</td>
<td>Not reported</td>
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</tbody>
</table>

*Long description:*
Do you have satisfactory neighborhood shopping, that is, grocery stores or drug stores?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
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<tbody>
<tr>
<td>Edit flag variable:</td>
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</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
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<tr>
<td>Topcoded:</td>
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<td>Module 1999 and earlier:</td>
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</tr>
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</tbody>
</table>

**SHPCLS**
Neighborhood stores within 1 mile

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<tr>
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<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don’t Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Are any of these stores within one mile of you?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
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<td>Topcoded:</td>
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</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
**STRNA** =
Neighborhood has heavy street noise/traffic

1  YES
2  NO
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
The following questions are concerned with specific aspects of your PRESENT neighborhood. Does the neighborhood have street noise or heavy street traffic?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
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</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
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<td>Module 2001 and later:</td>
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</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**STRNB** =
Neighborhood street noise/traffic bothersome

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Does the street noise or heavy street traffic bother you?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
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<td>Topcoded:</td>
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</tr>
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<td>Module 1999 and earlier:</td>
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<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
STRNC =
St. noise/traffic so bad you want to move

1  Yes
2  No
B  Not applicable
D  Don't Know

Long description:
Is it so objectionable that you would like to move from the neighborhood?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
Utilities

This section documents data collected about the types of fuel 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 Costs section.

Notes:

**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 that 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, corn cobs, or purchased steam.

**Utility Costs:** Data about the cost of utilities are 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 difficult. Unless a household subscribes to a continuous level billing plan, utility costs fluctuate greatly from month to month. Heating bills are much higher in cold winters and air conditioning affects the electricity costs during summer. 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. 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.

**Main House Heating Fuel:** In 1999, the type of gas (piped versus bottled) used as a main house heating fuel for vacant units was collected. In 1997, the type of gas used was inadvertently omitted from the survey, so data are not available for that year.

**BUYx Variables:** These variables indicate whether a renter in an occupied unit pays for utilities (electricity, other fuel, gas, oil, trash pickup, and water) separately or whether they are included in the rent. When BUYx equals ‘b’, x is paid for separately and therefore should have a value in AMTx, which is the average monthly cost of a particular utility.
AFUEL =
Type of fuel used for air conditioning

1 Electricity
2 Gas, LP Gas (liquid propane)
3 Other, (Specify)
B Not applicable

Long description:
What kind of fuel does it use?

Type: Character
Edit flag variable: JAFUEL
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Central air conditioning system is not used] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
AFUR =
Forced air furnace as supplemental heating equip

X  Forced warm-air furnace with ducts & vents to individual rooms
B  Not applicable
Blank  Not reported

Long description:
What OTHER kinds of working heating equipment does your housing unit HAVE or USE?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
AMTE =
Average monthly cost of electricity

1:997 $1-$997
998 $998 or more
B Not applicable

Long description:
In the past 12 months what was the average MONTHLY cost for electricity

Type: Numeric
Edit flag variable: JAMTE
Allocation Matrix: Matrix D
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Answered if pay for electricity separately)]
**AMTF**

Annual cost of other fuels

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:9997</td>
<td>$4-$9,997</td>
</tr>
<tr>
<td>9998</td>
<td>$9,998 or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Long description:**
From 12 months ago to current month and year, what was the total ANNUAL cost for wood, coal, kerosene or any other fuel?

**Notes:**
Topcoded at the 97th percentile.

**Conditions not in universe:**
1. [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2. [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3. [(NOT occupied interview or URE interview or vacant interview)] ; OR
4. [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)] ; OR
5. [Occupied interview] AND [The total annual cost for wood, coal, kerosene or any other fuels was billed with other fuels]
AMTG = Average monthly cost of gas

1:997 $1-$997
998 $998 or more
B Not applicable

Long description:
In the past 12 months what was the average MONTHLY cost for gas?

Type: Numeric
Edit flag variable: J AMTG
Allocation Matrix: Matrix D
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Answered if pay for gas separately)] ; OR
5 : [Occupied interview] AND [Gas billed with other utilities] ; OR
6 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
AMTO =
Annual cost of fuel oil

4:9997 $4-$9,997
9998 $9,998 or more
B Not applicable

Long description:
From 12 months ago to current month and year, what was the total cost for fuel oil?

Type: Numeric
Edit flag variable: J AMTO
Allocation Matrix: Matrix D
Topcoded: Yes
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Topcoded at the 97th percentile.

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Answered if pay for fuel oil separately)] ; OR
5 : [Occupied interview] AND [Fuel oil billed with other utilities]
**BILLF**

Type of billing for other fuels

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Billed with other utilities</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Long description:**
Was the total ANNUAL cost for wood, coal, kerosene or any other fuels...

**Type:** Character
**Edit flag variable:** J BILLF
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3: [(NOT occupied interview or URE interview or vacant interview)]; OR
4: [Occupied interview] AND [(Annual cost of other fuels is within range)]; OR
5: [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)]
BILLFE =
Other fuels billed with electricity

X Electricity
B Not applicable
Blank Not reported

Long description:
AVERAGE MONTHLY COST FOR WOOD, COAL, KEROSENE, OR ANY 
OTHER FUEL IS BILLED WITH --

Type: Character
Edit flag variable: JILLFE
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, 
 or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or 
 other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of other fuels is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for electricity separately)] ; OR
6 : [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)] ; OR
7 : [Occupied interview] AND [Other fuels are billed separately or Does not know the type of 
billing for other fuels or Refused to answer the type of billing for other fuels]
BILLFG =
Other fuels billed with gas

X  Gas
B  Not applicable
Blank  Not reported

Long description:
AVERAGE MONTHLY COST FOR WOOD, COAL, KEROSENE, OR ANY OTHER FUEL IS BILLED WITH --

Type: Character
Edit flag variable: JILLFG
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Uncommon result, possible that there are no cases in the data.

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of other fuels is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)] ; OR
6 : [Occupied interview] AND [(Answered if pay for gas separately)] ; OR
7 : [Occupied interview] AND [Other fuels are billed separately or Does not know the type of billing for other fuels or Refused to answer the type of billing for other fuels] ; OR
8 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
BILLFO =
Other fuels billed with fuel oil

X          Fuel oil
B  Not applicable
Blank    Not reported

Long description:
AVERAGE MONTHLY COST FOR WOOD, COAL, KEROSENE, OR ANY
OTHER FUEL IS BILLED WITH --

Type: Character
Edit flag variable: JILLFO
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview] AND [(Annual cost of other fuels is within range)]; OR
5 : [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)]; OR
6 : [Occupied interview] AND [(Answered if pay for fuel oil separately)]; OR
7 : [Occupied interview] AND [Other fuels are billed separately or Does not know the type of billing for other fuels or Refused to answer the type of billing for other fuels]
**BILLFT**

Other fuels billed with garbage/trash

- **X**: Garbage and trash
- **B**: Not applicable
- **Blank**: Not reported

**Long description:**

Average monthly cost for wood, coal, kerosene, or any other fuel is billed with --

**Type:** Character

**Edit flag variable:** JILLFT

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**

1. [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2. [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3. [(NOT occupied interview or URE interview or vacant interview)]; OR
4. [Occupied interview] AND [(Annual cost of other fuels is within range)]; OR
5. [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)]; OR
6. [Occupied interview] AND [(Answered if pay for garbage/trash separately)]; OR
7. [Occupied interview] AND [Other fuels are billed separately or Does not know the type of billing for other fuels or Refused to answer the type of billing for other fuels]
**BILLFW**
Other fuels billed with water/sewage

X  Water and sewage
B  Not applicable
Blank  Not reported

*Long description:*
AVERAGE MONTHLY COST FOR WOOD, COAL, KEROSENE, OR ANY OTHER FUEL IS BILLED WITH --

**Type:** Character
**Edit flag variable:** JILLFW
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(URRE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URRE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of other fuels is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)] ; OR
6 : [Occupied interview] AND [(Don't pay for water separately or water is not used)] ; OR
7 : [Occupied interview] AND [Other fuels are billed separately or Does not know the type of billing for other fuels or Refused to answer the type of billing for other fuels]
BILLG = Type of billing for gas

2  Billed with other utilities
B  Not applicable

Long description:
Was the average monthly cost for gas...

Type: Character
Edit flag variable: J BILLG
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Average monthly cost of gas is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for gas separately)] ; OR
6 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
**BILLGE**
Gas billed with electricity

<table>
<thead>
<tr>
<th>Character</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Electricity</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
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</tbody>
</table>

**Long description:**
AVERAGE MONTHLY COST FOR GAS IS BILLLED WITH --

**Type:** Character
**Edit flag variable:** JILLGE
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview] AND [(Average monthly cost of gas is within range)]; OR
5 : [Occupied interview] AND [(Answered if pay for electricity separately)]; OR
6 : [Occupied interview] AND [(Answered if pay for gas separately)]; OR
7 : [Occupied interview] AND [Gas is billed separately or Does not know how gas is billed or Refused to answer how gas is billed]; OR
8 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
**BILLGF**
Gas billed with fuel oil

X  Fuel oil
B  Not applicable
Blank  Not reported

*Long description:*
**AVERAGE MONTHLY COST FOR GAS IS BILLED WITH --**

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
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<td>Module 1999 and earlier:</td>
<td>houshld</td>
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<td>Module 2001 and later:</td>
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<td>Unit of observation:</td>
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*Conditions not in universe:*
1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3: [(NOT occupied interview or URE interview or vacant interview)]; OR
4: [Occupied interview] AND [(Average monthly cost of gas is within range)]; OR
5: [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)]; OR
6: [Occupied interview] AND [(Answered if pay for gas separately)]; OR
7: [Occupied interview] AND [Gas is billed separately or Does not know how gas is billed or Refused to answer how gas is billed]; OR
8: [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
BILLGO =
Gas billed with other fuels

X Other fuel
B Not applicable
Blank Not reported

Long description:
AVERAGE MONTHLY COST FOR GAS IS BILLED WITH --

Type: Character
Edit flag variable: JILLGO
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview] AND [(Average monthly cost of gas is within range)]; OR
5 : [Occupied interview] AND [(Answered if pay for gas separately)]; OR
6 : [Occupied interview] AND [(Answered if pay for fuel oil separately)]; OR
7 : [Occupied interview] AND [Gas is billed separately or Does not know how gas is billed or Refused to answer how gas is billed]; OR
8 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
**BILLGT**
Gas billed with garbage/trash

X  Garbage and trash  
B  Not applicable  
Blank  Not reported  

*Long description:*
AVERAGE MONTHLY COST FOR GAS IS BILLED WITH --

<table>
<thead>
<tr>
<th>Type:</th>
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<tr>
<td>Topcoded:</td>
<td>No</td>
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<tr>
<td>Module 1999 and earlier:</td>
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<td>Module 2001 and later:</td>
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<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR 2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR 3: [(NOT occupied interview or URE interview or vacant interview)]; OR 4: [Occupied interview] AND [(Average monthly cost of gas is within range)]; OR 5: [Occupied interview] AND [(Answered if pay for gas separately)]; OR 6: [Occupied interview] AND [(Answered if pay for garbage/trash separately)]; OR 7: [Occupied interview] AND [Gas is billed separately or Does not know how gas is billed or Refused to answer how gas is billed]; OR 8: [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
**BILLGW**
Gas billed with water/sewage

- X: Water and sewage
- B: Not applicable
- Blank: Not reported

*Long description:*
AVERAGE MONTHLY COST FOR GAS IS BILLED WITH --

**Type:** Character

**Edit flag variable:** J I L G W

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Notes:**
Uncommon result, possible that there are no cases in the data.

**Conditions not in universe:**
1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)] ; OR
4: [Occupied interview] AND [(Average monthly cost of gas is within range)] ; OR
5: [Occupied interview] AND [(Answered if pay for gas separately)] ; OR
6: [Occupied interview] AND [(Don't pay for water separately or water is not used)] ; OR
7: [Occupied interview] AND [Gas is billed separately or Does not know how gas is billed or Refused to answer how gas is billed] ; OR
8: [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
**BILLO**
Type of billing for fuel oil

- **2** Billed with other utilities
- **B** Not applicable

*Long description:*
Was the total cost for fuel oil...

*Type:* Character
*Edit flag variable:* JBILLO
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)] ; OR
4: [Occupied interview] AND [(Annual cost of fuel oil is within range)] ; OR
5: [Occupied interview] AND [(Answered if pay for fuel oil separately)]
**BILLOE**

Fuel oil billed with electricity

- X: Electricity
- B: Not applicable
- Blank: Not reported

**Long description:**

AVERAGE MONTHLY COST FOR FUEL OIL IS BILLED WITH --

<table>
<thead>
<tr>
<th>Type:</th>
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<tr>
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<td>Module 1999 and earlier:</td>
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<td>Module 2001 and later:</td>
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</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
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</table>

**Conditions not in universe:**

1: \[(URE interview or vacant interview)] AND [[For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied]]; OR
2: \[(URE interview or vacant interview)] AND [[Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory]]; OR
3: \[(NOT occupied interview or URE interview or vacant interview)]; OR
4: [Occupied interview] AND [[Annual cost of fuel oil is within range]]; OR
5: [Occupied interview] AND [[Answered if pay for electricity separately]]; OR
6: [Occupied interview] AND [[Answered if pay for fuel oil separately]]; OR
7: [Occupied interview] AND [Fuel oil is billed separately or Does not know the type of billing for fuel oil or Refused to answer the type of billing for fuel oil]
**BILLOF**
Fuel oil billed with other fuels

| X | Other fuel |
| B | Not applicable |
| Blank | Not reported |

*Long description:*
AVERAGE MONTHLY COST FOR FUEL OIL IS BILLED WITH --

**Type:** Character
**Edit flag variable:** J I L L O F
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Notes:**
Uncommon result, possible that there are no cases in the data.

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of fuel oil is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)] ; OR
6 : [Occupied interview] AND [(Answered if pay for fuel oil separately)] ; OR
7 : [Occupied interview] AND [Fuel oil is billed separately or Does not know the type of billing for fuel oil or Refused to answer the type of billing for fuel oil]
**BILLOG**
Fuel oil billed with gas

<p>| | |</p>
<table>
<thead>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Gas</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
AVERAGE MONTHLY COST FOR FUEL OIL IS BILLED WITH --

*Type:* Character

*Edit flag variable:* JILLOG

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview] AND [(Annual cost of fuel oil is within range)]; OR
5 : [Occupied interview] AND [(Answered if pay for gas separately)]; OR
6 : [Occupied interview] AND [(Answered if pay for fuel oil separately)]; OR
7 : [Occupied interview] AND [Fuel oil is billed separately or Does not know the type of billing for fuel oil or Refused to answer the type of billing for fuel oil]; OR
8 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
BILLOT =
Fuel oil billed with garbage/trash

X  Garbage and trash
B  Not applicable
Blank  Not reported

Long description:
AVERAGE MONTHLY COST FOR FUEL OIL IS BILLED WITH --

Type: Character
Edit flag variable: JILLOT
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied]) ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory]) ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of fuel oil is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for fuel oil separately]) ; OR
6 : [Occupied interview] AND [(Answered if pay for garbage/trash separately)] ; OR
7 : [Occupied interview] AND [Fuel oil is billed separately or Does not know the type of billing for fuel oil or Refused to answer the type of billing for fuel oil]
BILLow = Fuel oil billed with water/sewage

X Water and sewage
B Not applicable
Blank Not reported

Long description: AVERAGE MONTHLY COST FOR FUEL OIL IS BILLED WITH --

Type: Character
Edit flag variable: JILLow
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)]; OR
4: [Occupied interview] AND [(Annual cost of fuel oil is within range)]; OR
5: [Occupied interview] AND [(Answered if pay for fuel oil separately)]; OR
6: [Occupied interview] AND [(Don't pay for water separately or water is not used)]; OR
7: [Occupied interview] AND [Fuel oil is billed separately or Does not know the type of billing for fuel oil or Refused to answer the type of billing for fuel oil]
BILLT =
Type of billing for garbage & trash

2  Billed with other utilities
B  Not applicable

Long description:
Was the total cost for garbage and trash collection...

Type: Character
Edit flag variable: JBILLT
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of garbage and sewer is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for garbage/trash separately)]
BILLTE =
Garbage/trash billed with electricity

X Electricity
B Not applicable
Blank Not reported

Long description:
AVERAGE MONTHLY COST FOR GARBAGE AND TRASH COLLECTION
IS BILLED WITH --

Type: Character
Edit flag variable: JILLTE
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
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4 : [Occupied interview] AND [(Annual cost of garbage and sewer is within range)]; OR
5 : [Occupied interview] AND [(Answered if pay for electricity separately)]; OR
6 : [Occupied interview] AND [(Answered if pay for garbage/trash separately)]; OR
7 : [Occupied interview] AND [Garbage and trash are billed separate from other utilities or Does not know type of billing for garbage and trash or Refused to answer how garbage and trash are billed]
**BILLTF**

Garbage/trash billed with other fuels

- X: Other fuel
- B: Not applicable
- Blank: Not reported

**Long description:**

**AVERAGE MONTHLY COST FOR GARBAGE AND TRASH COLLECTION IS BILLED WITH --**

**Type:** Character

**Edit flag variable:** J BILLF

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Notes:**

Uncommon result, possible that there are no cases in the data.

**Conditions not in universe:**

1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)] ; OR
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5: [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)] ; OR
6: [Occupied interview] AND [(Answered if pay for garbage/trash separately)] ; OR
7: [Occupied interview] AND [Garbage and trash are billed separate from other utilities or Does not know type of billing for garbage and trash or Refused to answer how garbage and trash are billed]
**BILLTG**
Garbage/trash billed with gas

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<tr>
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<tr>
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<td>Blank</td>
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**Long description:**
AVERAGE MONTHLY COST FOR GARBAGE AND TRASH COLLECTION IS BILLED WITH --

- **Type:** Character
- **Edit flag variable:** JILLTG
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
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7: [Occupied interview] AND [Garbage and trash are billed separate from other utilities or Does not know type of billing for garbage and trash or Refused to answer how garbage and trash are billed]; OR
8: [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
BILLTO =
Garbage/trash billed with fuel oil

X = Fuel oil
B = Not applicable
Blank = Not reported

Long description: AVERAGE MONTHLY COST FOR GARBAGE AND TRASH COLLECTION IS BILLED WITH --

Type: Character
Edit flag variable: JILLTO
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Uncommon result, possible that there are no cases in the data.

Conditions not in universe:
1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)] ; OR
4: [Occupied interview] AND [(Annual cost of garbage and sewer is within range)] ; OR
5: [Occupied interview] AND [(Answered if pay for fuel oil separately)] ; OR
6: [Occupied interview] AND [(Answered if pay for garbage/trash separately)] ; OR
7: [Occupied interview] AND [Garbage and trash are billed separate from other utilities or Does not know type of billing for garbage and trash or Refused to answer how garbage and trash are billed]
**BILLTW**
Garbage/trash billed with water/sewage

X  Water and sewage
B  Not applicable
Blank  Not reported

*Long description:*
AVERAGE MONTHLY COST FOR GARBAGE AND TRASH COLLECTION IS BILLED WITH --

*Type:* Character
*Edit flag variable:* J I L L T W
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Answered if pay for garbage/trash separately)] ; OR
5 : [Occupied interview] AND [(Don't pay for water separately or water is not used)] ; OR
6 : [Occupied interview] AND [Garbage and trash are billed separate from other utilities or Does not know type of billing for garbage and trash or Refused to answer how garbage and trash are billed]
**BILLW**
Type of billing for water & sewage

2  Billed with other utilities  
B  Not applicable

*Long description:*
Was the total cost for water supply and sewage disposal...

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>J BILLW</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
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</tr>
<tr>
<td>Topcoded:</td>
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<td>Module 1999 and earlier:</td>
<td>houshld</td>
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<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR  
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR  
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR  
4 : [Occupied interview] AND [(Annual cost of water is within range)] ; OR  
5 : [Occupied interview] AND [(Don't pay for water separately or water is not used)]
BILLWE =
Water/sewage billed with electricity

X Electricity
B Not applicable
Blank Not reported

Long description:
AVERAGE MONTHLY COST FOR WATER SUPPLY AND SEWAGE DISPOSAL IS BILLED WITH --

Type: Character
Edit flag variable: JILLWE
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview] AND [(Annual cost of water is within range)]; OR
5 : [Occupied interview] AND [(Answered if pay for electricity separately)]; OR
6 : [Occupied interview] AND [(Don't pay for water separately or water is not used)]; OR
7 : [Occupied interview] AND [Water and sewage billed separately from other utilities or Does not know type of billing for water and sewage or Refused to answer how water and sewage are billed]
**BILLWF**
Water/sewage billed with other fuels

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Other fuel</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
AVERAGE MONTHLY COST FOR WATER SUPPLY AND SEWAGE DISPOSAL IS BILLED WITH --

*Type:* Character
*Edit flag variable:* J BILLF
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1: [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3: [(NOT occupied interview or URE interview or vacant interview)]; OR
4: [Occupied interview] AND [(Annual cost of water is within range)]; OR
5: [Occupied interview] AND [(Answered if pay for other non-specified fuels separately)]; OR
6: [Occupied interview] AND [(Don't pay for water separately or water is not used)]; OR
7: [Occupied interview] AND [Water and sewage billed separately from other utilities or Does not know type of billing for water and sewage or Refused to answer how water and sewage are billed]
BILLWG = Water/sewage billed with gas

X Gas
B Not applicable
Blank Not reported

Long description:
AVERAGE MONTHLY COST FOR WATER SUPPLY AND SEWAGE DISPOSAL IS BILLED WITH --

Type: Character
Edit flag variable: JILLWG
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of water is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for gas separately)] ; OR
6 : [Occupied interview] AND [(Don't pay for water separately or water is not used)] ; OR
7 : [Occupied interview] AND [Water and sewage billed separately from other utilities or Does not know type of billing for water and sewage or Refused to answer how water and sewage are billed] ; OR
8 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
**BILLWO**

Water/sewage billed with fuel oil

X  Fuel oil
B  Not applicable
Blank  Not reported

**Long description:**
AVERAGE MONTHLY COST FOR WATER SUPPLY AND SEWAGE DISPOSAL IS BILLED WITH --

**Type:** Character
**Edit flag variable:** JILLWO
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Notes:**
Uncommon result, possible that there are no cases in the data.

**Conditions not in universe: **
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of water is within range)] ; OR
5 : [Occupied interview] AND [(Answered if pay for fuel oil separately)] ; OR
6 : [Occupied interview] AND [(Don't pay for water separately or water is not used)] ; OR
7 : [Occupied interview] AND [Water and sewage billed separately from other utilities or Does not know type of billing for water and sewage or Refused to answer how water and sewage are billed]
BILLWT = Water/sewage billed with garbage/trash

X Garbage and trash
B Not applicable
Blank Not reported

Long description: AVERAGE MONTHLY COST FOR WATER SUPPLY AND SEWAGE DISPOSAL IS BILLED WITH --

Type: Character
Edit flag variable: JILLWT
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(URE interview or vacant interview)] AND [(For rent only, 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)]; OR
2: [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3: [(NOT occupied interview or URE interview or vacant interview)]; OR
4: [Occupied interview] AND [(Answered if pay for garbage/trash separately)]; OR
5: [Occupied interview] AND [(Don't pay for water separately or water is not used)]; OR
6: [Occupied interview] AND [Water and sewage billed separately from other utilities or Does not know type of billing for water and sewage or Refused to answer how water and sewage are billed]
**BUYE**
Pay for electricity separately

1  Not used
2  Included in rent, site rent, condominium or other fee, etc.
3  Obtained free
B  Not applicable
Blank  Not reported

*Long description:*
This variable is a recode added to the file to provide the data users a variable just like the one they received prior to the 1997 AHS-National file

*Type:* Character
*Edit flag variable:* J_BUYE
*Allocation Matrix:* Matrix D
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(The average monthly cost of electricity is within the range)]
BUYE2 =
Pay for electricity separately

1  Yes
2  No, included in rent
3  Not used
B  Not applicable

Long description:
Do you pay separately for electricity?

Type: Character
Edit flag variable: J BUYE2
Allocation Matrix: Matrix D
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For sale only or Sold, but not yet occupied) and Unit is a condo] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview]
BUYF =
Pay for other fuels separately

1  Not used
2  Included in rent, site rent, condominium or other fee, etc.
3  Obtained free
B  Not applicable
Blank  Not reported

Long description:
This variable is a recode added to the file to provide the data users
a variable just like the one they received prior to the 1997
AHS-National file

Type: Character
Edit flag variable: JBUYF
Allocation Matrix: Matrix D
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(F or rent only, or 'for rent or for sale' for sale only,
or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or
other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of other fuels is within range)] ; OR
5 : [Occupied interview] AND [The total annual cost for wood, coal, kerosene or any other fuels
was billed with other fuels]
BUYF2 =
Pay for other fuels separately

1  Yes
2  No, included in rent
3  Not used
B  Not applicable

Long description:
Do you pay separately for any other fuel?

Type: Character
Edit flag variable: BUYF2
Allocation Matrix: Matrix D
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For sale only or Sold, but not yet occupied) and Unit is a condo]; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview]
BUYG =
Pay for gas separately

1 Not used
2 Included in rent, site rent, condominium or other fee, etc.
3 Obtained free
B Not applicable
Blank Not reported

Long description:
This variable is a recode added to the file to provide the data users a variable just like the one they received prior to the 1997 AHS-National file

Type: Character
Edit flag variable: J BUYG
Allocation Matrix: Matrix D
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
In 1999, there was an error in some of the responses for BUYG, reporting blank values that should have been “1” (Not used). This can be corrected by looking at AMTG. If BUYG is properly blanked, AMTG should have a value. If AMTG is blank, then blank values of BUYG should be treated as “1.”

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Average monthly cost of gas is within range)] ; OR
5 : [Occupied interview] AND [Gas billed with other utilities] ; OR
6 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
**BUYG2**

Pay for gas separately

1  Yes  
2  No, included in rent  
3  Not used  
B  Not applicable

*Long description:*
Do you pay separately for gas?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
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<tbody>
<tr>
<td>Edit flag variable:</td>
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<tr>
<td>Allocation Matrix:</td>
<td>Matrix D</td>
</tr>
<tr>
<td>Topcoded:</td>
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<tr>
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<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For sale only or Sold, but not yet occupied) and Unit is a condo]; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview]
BUYO =
Pay for fuel oil separately

1  Not used
2  Included in rent, site rent, condominium or other fee, etc.
3  Obtained free
B  Not applicable
Blank  Not reported

Long description:
This variable is a recode added to the file to provide the data users
a variable just like the one they received prior to the 1997
AHS-National file

Type: Character
Edit flag variable: J BUYO
Allocation Matrix: Matrix D
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only,
or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or
other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [(Annual cost of fuel oil is within range)] ; OR
5 : [Occupied interview] AND [Fuel oil billed with other utilities]
BUYO2 = Pay for fuel oil separately

1  Yes
2  No, included in rent
3  Not used
B  Not applicable

Long description:
Do you pay separately for fuel oil?

Type: Character
Edit flag variable: JBUYO2
Allocation Matrix: Matrix D
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For sale only or Sold, but not yet occupied) and Unit is a condo]; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]; OR
4 : [Occupied interview]
**CFUEL**

Fuel used most for cooking

1  Electricity
2  Gas, LP Gas (liquid propane (LP) same as bottled gas)
3  Kerosene or other liquid fuel
4  Coal or coke
5  Wood
6  Other; (SPECIFY)
7  No fuel used
B  Not applicable

**Long description:**
What fuel is used MOST for cooking--electricity, gas or something else?

**Type:** Character

**Edit flag variable:** J CFUEL

**Allocation Matrix:** Matrix E

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have working cook stove and/or range oven and Unit does not have working cooking burners and No working microwave oven); OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
COKST =
Cook stove used as supplemental heating equipment

X Electric or gas cook stove
B Not applicable
Blank Not reported

Long description:
What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**DAFUR**
Forced air furnace - DK if supplemental/parallel

B  Not applicable  
D  Don't Know  
Blank  Not reported  

*Long description:*
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

*Type:*  Character
*Edit flag variable:*  J DAFUR
*Allocation Matrix:*  None
*Topcoded:*  No  
*Module 1999 and earlier:*  houshld  
*Module 2001 and later:*  newhouse  
*Unit of observation:*  HOUSEHOLD  

*Notes:*
Answer choice of D is appropriate response for condition being true.

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [Forced warm-air furnace with ducts & vents to individual rooms are not supplemental heating equipment]; OR  
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]; OR  
3 : [(NOT occupied interview or URE interview or vacant interview)]
**DCOKST**
Cookstove - DK if supplemental/parallel heat equipment

B  Not applicable
D  Don’t Know
Blank  Not reported

*Long description:*
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a ‘D’.

**Type:** Character
**Edit flag variable:** JDCOOK
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Notes:**
Answer choice of D is appropriate response for condition being true.

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [Cook stove is not used as supplemental heating equipment] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
DEGREE =
Average heating/cooling degree days

1       Coldest:  7,001+ heating degree days and < 2,000 cooling degree days
2       Cold:  5,500-7,000 heating degree days and < 2,000 cooling degree days
3       Cool:  4,000-5,499 heating degree days and < 2,000 cooling degree days
4       Mild:  < 4,000 heating degree days and < 2,000 cooling degree days
5       Mixed:  2,000-3,999 heating degree days and 2,000+ cooling degree days
6       Hot:  < 2,000 heating degree days and 2,000+ cooling degree days

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: toppuf
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Variable may be changed and/or suppressed in National Survey to comply with 100,000 population rule.
**DELECT** =
Built-in electric unit-DK if supplemental/parallel

B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

**Long description:**
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Notes:**
Answer choice of D is appropriate response for condition being true.

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [Built in electrical units are not used as supplemental heating equipment] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
DFLOT = Vented room heater - DK if supplemental/parallel

B Not applicable
D Don't Know
Blank Not reported

Long description:
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

Type: Character
Edit flag variable: JDFLOT
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Answer choice of D is appropriate response for condition being true.

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Heating equipment is vented to outside] OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
DFRPL = Fireplace w/out inserts-DK supplemental/parallel

B  Not applicable
D  Don't Know
Blank  Not reported

*Long description:*
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

*Type:* Character

*Edit flag variable:* JDFRPL

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* Household


*Notes:*
Answer choice of D is appropriate response for condition being true.

*Conditions not in universe:*
1: [Occupied interview or URE interview or vacant interview] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR
2: [Occupied interview or URE interview or vacant interview] AND [Fireplace has inserts to circulate more heat] ; OR
3: [NOT occupied interview or URE interview or vacant interview]
DFRPLI = Fireplace w/ inserts-DK if supplemental/parallel

B  Not applicable
D  Don't Know
Blank  Not reported

Long description:
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

Type: Character
Edit flag variable: JDFPLI
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Answer choice of D is appropriate response for condition being true.

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Fireplace does not have inserts] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
DFUEL =
Fuel used by clothes dryer

1  Electricity
2  Gas, LP gas (liquid propane)
3  Other - SPECIFY
B  Not applicable

Long description:
What type of fuel does the dryer use?

Type: Character
Edit flag variable: J DFUEL
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have a working clothes dryer]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
DHOTH =
Other type of heat equipment-DK if supplemental/parallel

B Not applicable
D Don't Know
Blank Not reported

Long description:
This variable is a recode added to the file for the sole purpose of
denoting that this piece of secondary heating equipment exists in the
housing unit, but we do not know if it is a supplemental or parallel
piece of heating equipment. The only nonblank value it will contain
is a 'D'.

Type: Character
Edit flag variable: DHOTH
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Answer choice of D is appropriate response for condition being true.

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating
the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Other equipment is not
used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**DHPMP**
Heat pump - DK is supplemental/parallel heat equipment

B  Not applicable  
D  Don't Know  
Blank  Not reported  

*Long description:*
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

*Type:* Character  
*Edit flag variable:* J DHPMP  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Notes:*
Answer choice of D is appropriate response for condition being true.

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR  
2 : [(Occupied interview or URE interview or vacant interview)] AND [Electric heat pump is not used as supplemental heating equipment] ; OR  
3 : [(NOT occupied interview or URE interview or vacant interview)]
**DPLF**
Pipeless furnace - DK if supplemental/parallel

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
This variable is a recode added to the file for the sole purpose of denoting that this piece of secondary heating equipment exists in the housing unit, but we do not know if it is a supplemental or parallel piece of heating equipment. The only nonblank value it will contain is a 'D'.

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Notes:*
Answer choice of D is appropriate response for condition being true.

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Pipeless furnace is NOT used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**ELECT**
Electrical units used as supplemental heat equip

X  BUILT-IN electric units
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

**Long description:**
What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FAFUR** =
Fuel used by forced warm-air furnace

1  Electricity
2  Gas, LP gas (propane)
3  Fuel Oil
4  Kerosene or other liquid fuel
5  Coal or coke
6  Wood
7  Solar energy
8  Other, (SPECIFY)
B  Not applicable

*Long description:*
What type of fuel does the forced warm-air furnace with ducts and vents to individual rooms use?

**Type:** Character
**Edit flag variable:** J FAFUR
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [Forced warm-air furnace with ducts & vents to individual rooms are not supplemental heating equipment]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
FCOKST = Fuel used by cookstove

1  Electricity
2  Gas, LP gas (propane)
3  Fuel Oil
4  Kerosene or other liquid fuel
5  Coal or coke
6  Wood
7  Solar energy
8  Other, (SPECIFY)
B  Not applicable

Type: Numeric
Edit flag variable: JFCOOK
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview) AND [Cook stove is not used as supplemental heating equipment]] ; OR
2 : [(Occupied interview or URE interview or vacant interview) AND [No fuel is used for heating the unit]] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FELECT**
Fuel used by built-in electric units

1. Electricity
2. Gas, LP gas (propane)
3. Fuel Oil
4. Kerosene or other liquid fuel
5. Coal or coke
6. Wood
7. Solar energy
8. Other, (SPECIFY)
B. Not applicable

*Long description:*
What type of fuel does the built-in electric unit use?

- **Type:** Character
- **Edit flag variable:** JFELEC
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1. ⟨[Occupied interview or URE interview or vacant interview)] AND [Built in electrical units are not used as supplemental heating equipment]⟩; OR
2. ⟨[Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]⟩; OR
3. ⟨[NOT occupied interview or URE interview or vacant interview)]⟩
FFLIN =
Fuel used by unvented room heaters

1  Electricity
2  Gas, LP gas (propane)
3  Fuel Oil
4  Kerosene or other liquid fuel
5  Coal or coke
6  Wood
7  Solar energy
8  Other, (SPECIFY)
B  Not applicable

Long description:
What type of fuel does the unvented room heater burning kerosene, gas, or oil use?

Type: Character
Edit flag variable: JFFLLIN
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Heating equipment is vented to outside]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FFLOT**

Fuel used by vented room heaters

1. Electricity
2. Gas, LP gas (propane)
3. Fuel Oil
4. Kerosene or other liquid fuel
5. Coal or coke
6. Wood
7. Solar energy
8. Other, (SPECIFY)
B. Not applicable

**Long description:**
What type of fuel does the vented room heater burning kerosene, gas, or oil use?

**Type:** Character
**Edit flag variable:** JFFLOT
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1: (Occupied interview or URE interview or vacant interview]) AND [Heating equipment is vented to outside] ; OR
2: [(Occupied interview or URE interview or vacant interview]) AND [No fuel is used for heating the unit] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)]
**FFRPL**
Fuel used by fireplace without inserts

1  Electricity
2  Gas, LP gas (propane)
3  Fuel Oil
4  Kerosene or other liquid fuel
5  Coal or coke
6  Wood
7  Solar energy
8  Other, (SPECIFY)
B  Not applicable
D  Don't Know
R  Refused

*Long description:* What fuel is used for the fireplace without inserts?

**Type:** Numeric  
**Edit flag variable:** JFFRPL  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*  
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR  
2 : [(Occupied interview or URE interview or vacant interview)] AND [Fireplace has inserts to circulate more heat] ; OR  
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FFRPLI**

Fuel used by fireplace with inserts

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Electricity</td>
</tr>
<tr>
<td>2</td>
<td>Gas, LP gas (propane)</td>
</tr>
<tr>
<td>3</td>
<td>Fuel Oil</td>
</tr>
<tr>
<td>4</td>
<td>Kerosene or other liquid fuel</td>
</tr>
<tr>
<td>5</td>
<td>Coal or coke</td>
</tr>
<tr>
<td>6</td>
<td>Wood</td>
</tr>
<tr>
<td>7</td>
<td>Solar energy</td>
</tr>
<tr>
<td>8</td>
<td>Other, (SPECIFY)</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
</tbody>
</table>

*Long description:*

What fuel is used for the fireplace with inserts?

- **Type:** Numeric
- **Edit flag variable:** JFFPLI
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**

1. 
   - [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace]; OR
2. 
   - [(Occupied interview or URE interview or vacant interview)] AND [Fireplace does not have inserts]; OR
3. 
   - [(NOT occupied interview or URE interview or vacant interview)]
FHOTH =
Fuel used by other supplemental heating equipment

1  Electricity
2  Gas, LP gas (propane)
3  Fuel Oil
4  Kerosene or other liquid fuel
5  Coal or coke
6  Wood
7  Solar energy
8  Other, (SPECIFY)
B  Not applicable
D  Don't Know

Long description:
What type of fuel does the other heating equipment use?

Type: Character
Edit flag variable: J FHOTH
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Other equipment is not used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FHPMP**

Fuel used by electric heat pump

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Electricity</td>
</tr>
<tr>
<td>2</td>
<td>Gas, LP gas (propane)</td>
</tr>
<tr>
<td>3</td>
<td>Fuel Oil</td>
</tr>
<tr>
<td>4</td>
<td>Kerosene or other liquid fuel</td>
</tr>
<tr>
<td>5</td>
<td>Coal or coke</td>
</tr>
<tr>
<td>6</td>
<td>Wood</td>
</tr>
<tr>
<td>7</td>
<td>Solar energy</td>
</tr>
<tr>
<td>8</td>
<td>Other, (SPECIFY)</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Long description:**
What type of fuel does the electric heat pump use?

- **Type:** Character
- **Edit flag variable:** J FHPMP
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Electric heat pump is not used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FLIN**

Heating equipment not vented to outside

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>No, UNVENTED</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Long description:**
Is it VENTED to the outside through a chimney, flue, or pipes OR is it UNVENTED?

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3 : [(Occupied interview or URE interview or vacant interview)] AND [Working room heaters] ; OR
4 : [(NOT occupied interview or URE interview or vacant interview)]
FPLF =
Fuel used by built-in pipeless furnace

1  Electricity
2  Gas, LP gas (propane)
3  Fuel Oil
4  Kerosene or other liquid fuel
5  Coal or coke
6  Wood
7  Solar energy
8  Other, (SPECIFY)
B  Not applicable

Long description:
What type of fuel does the floor, wall, or other pipeless furnace built into the structure use?

Type: Character
Edit flag variable: JFPLF
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Pipeless furnace is NOT used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
FPORTH =
Fuel used by portable electric heaters

1  Electricity
2  Gas, LP gas (propane)
3  Fuel Oil
4  Kerosene or other liquid fuel
5  Coal or coke
6  Wood
7  Solar energy
8  Other, (SPECIFY)
B  Not applicable

Long description:
What type of fuel does the portable electric heater use?

Type: Numeric
Edit flag variable: JFPORH
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Portable heaters are NOT used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FSTEAM** =
Fuel used by steam/hot water system

1  Electricity  
2  Gas, LP gas (propane)  
3  Fuel Oil  
4  Kerosene or other liquid fuel  
5  Coal or coke  
6  Wood  
7  Solar energy  
8  Other, (SPECIFY)  
B  Not applicable

*Long description:*
What type of fuel does the steam/hot water system with radiators OR other system using steam/hot water use?

<table>
<thead>
<tr>
<th>Type</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable</td>
<td>J FSTEAM</td>
</tr>
<tr>
<td>Allocation Matrix</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR  
2 : [(Occupied interview or URE interview or vacant interview)] AND [Steam system NOT used as supplemental heating equipment] ; OR  
3 : [(NOT occupied interview or URE interview or vacant interview)]
**FSTOVE**
Fuel used by woodburning/franklin stove

1. Electricity
2. Gas, LP gas (propane)
3. Fuel Oil
4. Kerosene or other liquid fuel
5. Coal or coke
6. Wood
7. Solar energy
8. Other, (SPECIFY)
B. Not applicable

**Long description:**
What type of fuel does the woodburning, pot belly, or franklin stove use?

**Type:** Character
**Edit flag variable:** JFSTOV
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1: [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]; OR
2: [(Occupied interview or URE interview or vacant interview)] AND [Wood stove NOT used as supplemental heating equipment]; OR
3: [(NOT occupied interview or URE interview or vacant interview)]
GASPI2 =
Source of gas heat for vacant units

1 Underground pipes serving the neighborhood
2 Bottled gas
B Not applicable

Long description:
Is it from underground pipes or bottled gas?

Type: Character
Edit flag variable: J ASPI2
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [Unit is not heated by liquid gas or propane]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]; OR
3 : [Occupied interview]
GASPIP =
Gas from underground pipes or bottles

1  Underground pipes serving neighborhood
2  Bottled gas
B  Not applicable

Long description:
Is the gas from underground pipes or bottled gas?

Type: Character
Edit flag variable: JASIP
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)] ; OR
4 : [Occupied interview] AND [Gas is not used] ; OR
5 : [Occupied interview] AND [Household does NOT use gas or Don't know if household uses gas or Refused to disclose if household uses gas]
HEQUIP =
Main heating equipment

1    Forced warm-air furnace with ducts and vents to individual rooms
2    Steam or hot water system with radiators OR other system using steam or hot water
3    Electric heat pump
4    Built-in electric baseboard heating or electric coils in floors, ceilings, or walls
5    Floor, wall, or other pipeless furnace built into the building
6    VENTED room heaters burning kerosene, gas, or oil
7    UNVENTED room heaters burning kerosene, gas, or oil
8    Portable electric heaters
9    Woodburning stove, pot belly stove, Franklin stove
10   Fireplace WITH inserts
11   Fireplace WITHOUT inserts
12   Other heating equipment
13   No heating equipment
14   Cooking stove (gas or electric)
B    Not applicable

Type:    Numeric
Edit flag variable:  J EQUIP
Allocation Matrix:  Matrix E
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
**HFUEL**

Fuel used most for heating unit

1. Electricity
2. Gas, LP gas (liquid propane(LP) same as bottled gas)
3. Fuel oil
4. Kerosene or other liquid fuel
5. Coal or coke
6. Wood
7. Solar energy
8. Other; SPECIFY
9. None
B. Not applicable

*Long description:*
What fuel is used MOST for heating this housing unit?

**Type:** Character

**Edit flag variable:** JHFUEL

**Allocation Matrix:** Matrix E

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


*Conditions not in universe:*

1. ![NOT occupied interview or URE interview or vacant interview)]
HOTH = Other equipment used as supplemental heating equip

X Other, specify
B Not applicable
D Don't Know
Blank Not reported

Long description:
What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2: [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)]
**HPMP**
Heat pump used as supplemental heating equipment

X  Electric heat pump
B  Not applicable
Blank  Not reported

*Long description:*
What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
NONE =
No supplemental heating equipment

X = No more types of heating equipment
B = Not applicable
Blank = Not reported

Long description:
What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [See comments] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
OAFUEL =
Fuel used by other central a/c unit

1 Electricity
2 Gas, LP Gas (liquid propane (LP) same as bottled gas)
3 Other: specify
B Not applicable

Long description:
What kind of fuel does this other central air conditioning system use?

Type: Numeric
Edit flag variable: J OAFUE
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Central air conditioning system is not used] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No other central A/C system or Don't know if other central A/C system or Refused to disclose if other central A/C system] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**PAFUR**
Forced air furnace is parallel supplemental equipment

| X | Unit has parallel use, [insert name of equipment type] |
| B | Not applicable |
| Blank | Not reported |

*Long description:*
Is this forced warm-air furnace with ducts and vents to individual rooms used to heat an area of this housing unit that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

*Conditions not in universe:*
1. [(Occupied interview or URE interview or vacant interview)] AND [Forced warm-air furnace with ducts & vents to individual rooms are not supplemental heating equipment] ; OR
2. [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
3. [(NOT occupied interview or URE interview or vacant interview)]
**PCOKST**
Cookstove is parallel supplemental heating equip

- **X** Unit has parallel use, [insert name of equipment type]
- **B** Not applicable
- **Blank** Not reported

*Long description:
Is this electric or gas cook stove used to heat an area of this housing unit that would not be heated by this primary heating equipment?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshold
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview) AND [Cook stove is not used as supplemental heating equipment]; OR
2 : [(Occupied interview or URE interview or vacant interview) AND [No fuel is used for heating the unit]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
PELECT =
Built-in electric unit is parallel equipment

X  Unit has parallel use, [insert name of equipment type]
B  Not applicable
Blank  Not reported

Long description:
Is this built-in electric unit used to heat an area of this housing unit that would not be heated by this primary heating equipment?

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

Conditions not in universe:
1 :([(Occupied interview or URE interview or vacant interview)] AND [Built in electrical units are not used as supplemental heating equipment]) ; OR
2 :([(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]) ; OR
3 :([(NOT occupied interview or URE interview or vacant interview)])
**PFLOT**

Vented room heater is parallel supplemental equip

X Unit has parallel use, [insert name of equipment type]
B Not applicable
Blank Not reported

*Long description:*

Is this vented room heater burning kerosene, gas, or oil used to heat an area of this housing unit that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

*Conditions not in universe:*

1: [(Occupied interview or URE interview or vacant interview)] AND [Heating equipment is vented to outside] OR
2: [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] OR
3: [(NOT occupied interview or URE interview or vacant interview)]
PFRPL =
Fireplace without inserts is parallel equipment

X Unit has parallel use, [insert name of equipment type]
B Not applicable
Blank Not reported

Long description:
Is this fireplace without inserts used to heat an area of this housing unit that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR
2: [(Occupied interview or URE interview or vacant interview)] AND [Fireplace has inserts to circulate more heat] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)]
**PFRPLI**

Fireplace w/ inserts is parallel equip

X Unit has parallel use, [insert name of equipment type]
B Not applicable
Blank Not reported

**Long description:**

Is this fireplace with inserts used to heat an area of this unit that would not be heated by primary heating equipment?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Fireplace does not have inserts] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**PHOTH**
Some other type is parallel supplemental equip

1  Yes  
B  Not applicable  
Blank  Not reported

*Long description:*
Is this other heating equipment
used to heat an area of this housing unit
that would not be heated by this primary heating equipment?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*
1 : (Occupied interview or URE interview or vacant interview) AND [No fuel is used for heating the unit] ; OR
2 : (Occupied interview or URE interview or vacant interview) AND [Other equipment is not used as supplemental heating equipment] ; OR
3 : ([NOT occupied interview or URE interview or vacant interview])
**PHPMP**
Heat pump is parallel supplemental equipment

X Unit has parallel use, [insert name of equipment type]
B Not applicable
Blank Not reported

*Long description:*
Is this electric heat pump
used to heat an area of this housing unit
that would not be heated by this primary heating equipment?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshd
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating
the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Electric heat pump is not
used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**PLF**

Pipeless furnace used as supplemental heating equipment

| X | Floor, wall or other pipeless furnace built into the structure |
| B | Not applicable |
| Blank | Not reported |

*Long description:*

What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Conditions not in universe:*

1 : \([\text{Occupied interview or URE interview or vacant interview}] \text{ AND } [\text{No fuel is used for heating the unit}] \) ; OR
2 : \([\text{Occupied interview or URE interview or vacant interview}] \text{ AND } [\text{No supplemental heating equipment}] \) ; OR
3 : \([\text{NOT occupied interview or URE interview or vacant interview}] \)
**PORTH** =
Portable heaters used as supplemental heating equipment

X PORTABLE electric heaters?
B Not applicable
D Don't Know
R Refused
Blank Not reported

*Long description:*
What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*  
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR  
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR  
3 : [(NOT occupied interview or URE interview or vacant interview)]
PPLF = Pipeless furnace is parallel supplemental equip

X Unit has parallel use, [insert name of equipment type]
B Not applicable
Blank Not reported

Long description:
Is this floor, wall, or other pipeless furnace built into the structure used to heat an area of this housing unit that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Pipeless furnace is NOT used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
\textbf{PSTEAM} =
Steam/hot water system is parallel equip

\begin{itemize}
  \item X Unit has parallel use, [insert name of equipment type]
  \item B Not applicable
  \item Blank Not reported
\end{itemize}

\textit{Long description:}
Is this steam/hot water system with radiators OR other system using steam/hot water used to heat an area of this housing unit that would not be heated by this primary heating equipment?

\underline{Type:} Character
\underline{Edit flag variable:} None
\underline{Allocation Matrix:} None
\underline{Topcoded:} No
\underline{Module 1999 and earlier:} houshld
\underline{Module 2001 and later:} newhouse
\underline{Unit of observation:} HOUSEHOLD

\textit{Conditions not in universe:}
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Steam system NOT used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**PSTOVE** =
Woodburning stove is parallel supplemental equip

X Unit has parallel use, [insert name of equipment type]
B Not applicable
Blank Not reported

**Long description:**
Is this woodburning, pot belly, or franklin stove
used to heat an area of this housing unit
that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**Conditions not in universe:**
1 : [(Occupied interview or URE interview or vacant interview) AND [No fuel is used for heating the unit]] OR 
2 : [(Occupied interview or URE interview or vacant interview) AND [Wood stove NOT used as supplemental heating equipment]] OR 
3 : [(NOT occupied interview or URE interview or vacant interview)]
SAFUR =
Forced air furnace is supplemental heating equip

X  Unit has supplemental use, [insert name of equipment type]
B  Not applicable
Blank  Not reported

Long description:
Is this forced warm-air furnace with ducts and vents to individual rooms used to heat an area of this housing unit that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Forced warm-air furnace with ducts & vents to individual rooms are not supplemental heating equipment] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
SCOAL = Supplemental heating equipment uses coal/coke

1  Coal/coke is a fuel used by supplemental heating equipment
Blank  Not reported

Long description:
This variable is a recode added to the file to provide the data users a variable just like the one they received prior to the 1997 AHS-National file

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
**SCOKST**

Cookstove is supplemental heating equip

X  Unit has supplemental use, [insert name of equipment type]
B  Not applicable
Blank  Not reported

*Long description:*
Is this electric or gas cook stove used to heat an area of this housing unit that would not be heated by this primary heating equipment?

*Type:*  Character
*Edit flag variable:*  None
*Allocation Matrix:*  None
*Topcoded:*  No
*Module 1999 and earlier:*  houshld
*Module 2001 and later:*  newhouse
*Unit of observation:*  HOUSEHOLD

*Conditions not in universe:*
1: [(Occupied interview or URE interview or vacant interview)] AND [Cook stove is not used as supplemental heating equipment] ; OR
2: [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)]
**SELECT** =
Built-in electric units are supplemental heat equipment

X  Unit has supplemental use, [insert name of equipment type]
B  Not applicable
Blank  Not reported

*Long description:*
Is this built-in electric unit used to heat an area of this housing unit that would not be heated by this primary heating equipment?

PLEASE NOTE - Because of conflicts with system reserved words in FERRET, this item is known as SELECT_ in the FERRET system.

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshid
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [Built in electrical units are not used as supplemental heating equipment] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**SFLIN** =
Unvented room heaters are supplemental heat equipment

X  Unit has supplemental use, [insert name of equipment type]
B  Not applicable

*Long description:*
Is this unvented room heater burning kerosene, gas, or oil used to heat an area of this housing unit that would not be heated by this primary heating equipment?

*Type:* Character
*Edit flag variable:* J SFLIN
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [Heating equipment is vented to outside]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
SFLOT =
Vented room heaters are supplemental heat equip

X: Unit has supplemental use, [insert name of equipment type]
B: Not applicable
Blank: Not reported

Long description:
Is this vented room heater burning kerosene, gas, or oil used to heat an area of this housing unit that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(Occupied interview or URE interview or vacant interview)] AND [Heating equipment is vented to outside]; OR
2: [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit]; OR
3: [(NOT occupied interview or URE interview or vacant interview)]
**SFRPL** =
Fireplace without inserts is supplemental equip

X  No, none have inserts
B  Not applicable
Blank  Not reported

*Long description:*
Does it have inserts, that is, equipment designed to circulate more heat into the room?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

*Notes:*
The fireplaces in question must be considered supplemental heating equipment. The inserts option is only to distinguish between the two possibilities for supplemental heating fireplaces.

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had useable fireplace] ; OR  
2 : [(Occupied interview or URE interview or vacant interview)] AND [Fireplace has inserts to circulate more heat] ; OR  
3 : [(NOT occupied interview or URE interview or vacant interview)]
SFRPLI =
Fireplace w/ inserts is supplemental heat equip

X Yes, some or all with inserts
B Not applicable
Blank Not reported

Long description:
Does it have inserts, that is, equipment designed to
circulate more heat into the room?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have
useable fireplace or Did not know if unit had useable fireplace or Refused to answer if unit had
useable fireplace] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Fireplace does not have
inserts] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**SGAS**
Supplemental heating equipment uses gas

1 Gas is a fuel used by supplemental heating equipment
Blank Not reported

*Long description:*
This variable is a recode added to the file to provide the data users a variable just like the one they received prior to the 1997 AHS-National file

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [NOT occupied interview or URE interview or vacant interview)]
SHOTH =
Some other type is supplemental heating equipment

X  Unit has supplemental use, [insert name of equipment type]
B  Not applicable
Blank  Not reported

Long description:
Is some other heating equipment used to heat an area of this housing unit that would not be heated by some heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Other equipment is not used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
SHPMP =
Heat pump is supplemental heating equip

X Unit has supplemental use, [insert name of equipment type]
B Not applicable
Blank Not reported

Long description:
Is some electric heat pump used to heat an area of this housing unit that would not be heated by some heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Electric heat pump is not used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
SJUICE = Supplemental heating equipment uses electricity

1  Electricity is a fuel used by supplemental heating equipment
Blank  Not reported

Long description:
This variable is a recode added to the file to provide the data users
a variable just like the one they received prior to the 1997
AHS-National file

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]

SKERO = Supplemental heating equipment uses kerosene

1  Kerosene is a fuel used by supplemental heating equipment
Blank  Not reported

Long description:
This variable is a recode added to the file to provide the data users
a variable just like the one they received prior to the 1997
AHS-National file

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
SOIL =
Supplemental heating equipment uses fuel oil

1 Fuel oil is a fuel used by supplemental heating equipment
Blank Not reported

Long description:
This variable is a recode added to the file to provide the data users
a variable just like the one they received prior to the 1997
AHS-National file

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]

SOTHER =
Supplemental heating equipment uses other fuel

1 Other fuel is a fuel used by supplemental heating equipment
Blank Not reported

Long description:
This variable is a recode added to the file to provide the data users
a variable just like the one they received prior to the 1997
AHS-National file

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
SPLF = Pipeless furnace is supplemental heating equip

X Unit has supplemental use, [insert name of equipment type]
B Not applicable
Blank Not reported

Long description:
Is this floor, wall, or other pipeless furnace built into the structure used to heat an area of this housing unit that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Pipeless furnace is NOT used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
SPORTH =
Portable heaters are supplemental heating equip

X Unit has supplemental use, [insert name of equipment type]
B Not applicable

Long description:
Is this portable electric heater
used to heat an area of this housing unit
that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: J SPORH
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1: [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2: [(Occupied interview or URE interview or vacant interview)] AND [Portable heaters are NOT used as supplemental heating equipment] ; OR
3: [(NOT occupied interview or URE interview or vacant interview)]
**SSTEAM**
Steambath water system is supplemental heat equipment

X  Unit has supplemental use, [insert name of equipment type]
B  Not applicable
Blank  Not reported

*Long description:*
Is this steam/hot water system with radiators OR other system using steam/hot water used to heat an area of this housing unit that would not be heated by this primary heating equipment?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Steam system NOT used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**SSTOVE**

Woodburning stove is supplemental heating equip

X  Unit has supplemental use, [insert name of equipment type]
B  Not applicable
Blank  Not reported

Long description:
Is this woodburning, pot belly, or franklin stove
used to heat an area of this housing unit
that would not be heated by this primary heating equipment?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Wood stove NOT used as supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
SSUN =
Supplemental heating equipment uses solar energy

1 Solar energy is a fuel used by supplemental heating equipment
Blank Not reported

Long description:
This variable is a recode added to the file to provide the data users
a variable just like the one they received prior to the 1997
AHS-National file

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]
**STOVE**
Wood stove used as supplemental heating equipment

X  Woodburning, Pot Belly, or Franklin stoves?
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
What OTHER kinds of working heating equipment does this housing unit HAVE or USE?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [No fuel is used for heating the unit] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No supplemental heating equipment] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**SWOOD**
Supplemental heating equipment uses wood

1 Wood is a fuel used by supplemental heating equipment
Blank Not reported

*Long description:*
This variable is a recode added to the file to provide the data users a variable just like the one they received prior to the 1997 AHS-National file

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

*Conditions not in universe:
1 : [(NOT occupied interview or URE interview or vacant interview)]*
USEGAS =
Household uses gas

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Do you use gas?

Type: Character
Edit flag variable: JSEGAS
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] AND [(For rent only, or 'for rent or for sale' for sale only, or rented, but not yet occupied, or sold, but not yet occupied)] ; OR
2 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**WFUEL** = Fuel used most to heat water

1  Electricity  
2  Gas, LP gas (liquid propane(LP) same as bottled gas)  
3  Fuel oil  
4  Kerosene or other liquid fuel  
5  Coal or coke  
6  Wood  
7  Solar energy  
8  Other; SPECIFY  
B  Not applicable

*Long description:*  
What type of fuel is used MOST to heat the water?

**Type:** Character  
**Edit flag variable:** JWFUEL  
**Allocation Matrix:** Matrix E  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*  
1 : [(Occupied interview or URE interview or vacant interview)] AND [Unit does not have hot and cold running water]; OR  
2 : [(NOT occupied interview or URE interview or vacant interview)]
Recent Movers

Data on recent movers are shown for households where the householder or a member of the household moved into the present unit during the 24 months prior to the interview. Questions in this section ask about the reasons for moving and for choosing the current unit as well as about the previous residence. Questions about the previous residence are asked of every recent mover in the household while the questions about the reasons for moving and choice of unit are asked only of mover respondents.

Notes:

Choice of present home: The respondent was asked to state all reasons for choosing the present house or apartment and then state the main reason the present house or apartment was chosen. The distribution for choice of present home may not add up to 100 percent because the respondent was not limited to one response.

Choice of present neighborhood: The respondent was asked to state all reasons for choosing the present neighborhood and then state the main reason the present neighborhood was chosen. The distribution for choice of present neighborhood may not add up to 100 percent because the respondent was not limited to one response.

Present and previous units: The present unit is the one occupied by the householder or respondent at the time of the interview. The previous unit is the one from which the householder or respondent moved. If the householder or respondent moved more than once during the 12 months prior to the date of the interview, the previous unit is the one from which they last moved.

Previous home owned or rented by someone who moved here: Data are shown for units where anyone in the present household moved within the United States during the past year.

Recent movers’ comparison to previous home: This item is based on the respondent's comparison between the present unit and previous unit as to which was better.

Recent movers’ comparison to previous neighborhood: This item is based on the respondent's comparison between the present neighborhood and the previous neighborhood as to which was better. The definition of neighborhood is whatever the respondent considers it to be.

Tenure of previous unit: The previous unit was owner occupied if the owner or co-owner lived in the unit. All other previous units were renter occupied.

Structure type of previous residence: These data are based on the respondent's classification.
ALMV =
All movers lived in same previous residence

1 Yes
2 No
B Not applicable

Long description:
Earlier you told me (READ NAMES ABOVE) moved into this housing unit after another member?. Did you move here from the same previous residence?

HHMOVE =
Year householder moved in

Information for this variable is also stored in: MOVE1


Type: Numeric
Edit flag variable: J HHMOVE
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**HHMOVM**
Month householder moved in

Information for this variable is also stored in: MOVM1

Type: Numeric
Edit flag variable: J HHMOVM
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**HHMVG**
Recent mover group of householder

Information for this variable is also stored in: MVG1

1:4  1-4
B  Not applicable

Type: Character
Edit flag variable: J HHMVG
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
HUHIS =
What happened to the old unit

1       Moved
2       Demolished
3       Lost to disaster (fire, tornado, etc.)
4       Wrong unit visited last enumeration period
5       Other, specify
B       Not applicable
D       Don’t Know
Blank   Not reported

Long description:
What happened to the old unit?
[if htype eq <3> or htype eq <4>]
(IF THE RESPONDENT DOES NOT KNOW, ASK OWNER OF MH PARK)
[endif]

Type:             Character
Edit flag variable: None
Allocation Matrix: None
Topcoded:         No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview or noninterview)] AND [HU is part of a new incoming sample] ; OR
2 : [(Occupied interview or URE interview or vacant interview or noninterview)] AND [NOT different HU as last enumeration]
**LISCH**
Any changes to apartment in last 2 years

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
We are interested in any changes that may have taken place in the apartment since number of last year. Has any construction or other changes been done to this apartment that has altered the size of the apartment in the past 2 years, that is since number of last year?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**MOVE**
Year person moved in

If using single file version of AHS, this variable becomes: **MOVE1-MOVE16**
Information for MOVE1 variable (head of household) is also stored in: **HHMOVE**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>.X</td>
<td>Person born here</td>
</tr>
</tbody>
</table>

*Long description:*
When did this person move to this housing unit?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>J MOVE</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>Matrix E</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>person</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>person</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>PERSON</td>
</tr>
</tbody>
</table>
**MOVGRP**
Recent mover group

If using single file version of AHS, this variable becomes: **MOVGRP1-MOVGRP16**

1:4 1-4

- **Type:** Character
- **Edit flag variable:** JOVGRP
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** rmov
- **Module 2001 and later:** rmov
- **Unit of observation:** MOVERS/PERSON

**MOVM**
Month person moved in

If using single file version of AHS, this variable becomes: **MOV1-MOV16**
Information for MOV1 variable (head of household) is also stored in: **HHMOVM**

1:12 January-December

- **Long description:** When did you move to this housing unit?
- **Type:** Numeric
- **Edit flag variable:** JMOVM
- **Allocation Matrix:** Matrix E
- **Topcoded:** No
- **Module 1999 and earlier:** person
- **Module 2001 and later:** person
- **Unit of observation:** PERSON
**MVCNT1**
Number of people in mover group #1

1:30  1-30
B     Not applicable
.     Not reported

<table>
<thead>
<tr>
<th>Type:</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**MVCNT2**
Number of people in mover group #2

1:30  1-30
B     Not applicable
.     Not reported

<table>
<thead>
<tr>
<th>Type:</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
**MVCNT3** =
Number of people in mover group #3

1:30  1-30
B     Not applicable
.     Not reported

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshold
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**MVG** =
Recent mover group

1:4  1-4
B     Not applicable

Type: Character
Edit flag variable: JMVG
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: HOUSEHOLD
**NLBSY**
Stopped looking at homes - too busy

X  Were too busy to look more?
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Some people look for new housing. Did you stop looking, because you...

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

**NLHPPY**
Stopped looking - happy with this unit

X  Were completely happy with this one?
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Some people look for new housing. Did you stop looking, because you...

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
NLMOBL =
Stopped looking - had trouble traveling

X Had trouble traveling to see others (caring for others,
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Some people look for new housing. Did you stop looking, because you...

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

NLMOV =
Stopped looking - had to move quickly

X Had to move quickly?
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Some people look for new housing. Did you stop looking, because you...

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**NLNLIK**

Stopped looking - don't like looking

- X  Don't like looking?
- B  Not applicable
- D  Don't Know
- R  Refused
- Blank  Not reported

*Long description:*
Some people look for new housing. Did you stop looking, because you...

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

**NLNPR**

Stopped looking for no particular reason

- X  No particular reason
- B  Not applicable
- D  Don't Know
- R  Refused
- Blank  Not reported

*Long description:*
Some people look for new housing. Did you stop looking, because you...

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
**NLOTHR**

Stopped looking for some other reason

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Other - Specify</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Some people look for new housing. Did you stop looking, because you...

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**NLUNK**

Stopped looking - didn't know of others

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Didn't know of any others?</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Some people look for new housing. Did you stop looking, because you...

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
**NUMHS**
# homes looked at before choosing this one

```
0:2
3:99
B  Not applicable
D  Don't Know
R  Refused
.  Not reported
```

*Long description:*
About how many other homes did you look at before you chose this one?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
**PMOVYR**

Year of previous move before this one

1900:1999  1900-1999
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
When was the last time you moved before this?
***ENTER 4 DIGIT YEAR*** @PMOVYR

Type:  Numeric
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

**PMOVVM**

Month of previous move before this one

1:12  1-12
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

Long description:
When was the last time you moved before this?
What month was that?  @PMOVVM
(1) January  (5) May  (9) September
(2) February  (6) June  (10) October
(3) March  (7) July  (11) November
(4) April  (8) August  (12) December

Type:  Numeric
Edit flag variable:  JPMOVVM
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD
**RMOV**

Mover group number

1:3 1-3
. Not reported

- **Type:** Numeric
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** rmov
- **Module 2001 and later:** rmov
- **Unit of observation:** HOUSEHOLD

**TLRMOV**

Number of people moved into unit in last 2 years

1:30 1-30
. Not reported

- **Type:** Numeric
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
**WHAVL =**
Liked unit because only one available

X Only one available
B Not applicable
Blank Not reported

*Long description:*
Now considering your home, what attracted you to THIS housing unit?

**Type:** Character

**Edit flag variable:** J WHAVL

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**WHDSN =**
Liked unit because of room layout/design

X Room layout/design
B Not applicable
D Don’t Know
R Refused
Blank Not reported

*Long description:*
Now considering your home, what attracted you to THIS housing unit?

**Type:** Character

**Edit flag variable:** J WHDSN

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

**WHEXT** =
Liked unit because of exterior appearance

X  Exterior appearance
B  Not applicable
Blank  Not reported

*Long description:*
Now considering your home, what attracted you to THIS housing unit?

Type:  Character
*Edit flag variable:*  J WHEXT
*Allocation Matrix:*  None
*Topcoded:*  No
*Module 1999 and earlier:*  houshld
*Module 2001 and later:*  newhouse
*Unit of observation:*  HOUSEHOLD

**WHFIN** =
Liked unit for financial reasons

X  Financial reasons
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Now considering your home, what attracted you to THIS housing unit?

Type:  Character
*Edit flag variable:*  J WHFIN
*Allocation Matrix:*  None
*Topcoded:*  No
*Module 1999 and earlier:*  houshld
*Module 2001 and later:*  newhouse
*Unit of observation:*  HOUSEHOLD
**WHKIT**

Liked unit because of kitchen

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Kitchen</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

Long description:
Now considering your home, what attracted you to THIS housing unit?

Type: Character

*Edit flag variable:* J WHKIT

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


**WHOTH**

Liked unit for other reasons

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Other-SPECIFY</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

Long description:
Now considering your home, what attracted you to THIS housing unit?

Type: Character

*Edit flag variable:* J WHOTH

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD

**WHQUL**

Likes the unit because of construction quality

- X: Quality of construction
- B: Not applicable
- D: Don't Know
- R: Refused
- Blank: Not reported

*Long description:*
Now considering your home, what attracted you to THIS housing unit?

**Type:** Character

**Edit flag variable:** JWHQUL

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


---

**WHSIZ**

Likes the unit because of size

- X: Size
- B: Not applicable
- Blank: Not reported

*Long description:*
Now considering your home, what attracted you to THIS housing unit?

**Type:** Character

**Edit flag variable:** JWHSIZ

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

WHYMOVE =
Main reason moved

0  All reasons of equal importance
1  Private company or person wanted to use it
2  Forced to leave by the government
3  Disaster loss (fire, flood, etc.)
4  New job or job transfer
5  To be closer to work/school/other
6  Other, financial/employment related
7  To establish own household
8  Needed a larger house or apartment
9  Married, widowed, divorced, or separated
10 Other, family/personal related
11 Wanted a better quality house (apartment)
12 Change from owner to renter OR renter to owner
13 Wanted lower rent or less expensive house to maintain
14 Other housing related reasons
15 Other - Specify
B  Not applicable
.  Not reported

Long description:
What was the MAIN reason you moved?

Type: Numeric
Edit flag variable: JHYMOV
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**WHYRD**

Liked unit because of yard/trees/view

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Yard/trees/view</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Now considering your home, what attracted you to THIS housing unit?

**WHYTOH**

Main reason this unit was chosen

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Financial reasons</td>
</tr>
<tr>
<td>2</td>
<td>Room layout/design</td>
</tr>
<tr>
<td>3</td>
<td>Kitchen</td>
</tr>
<tr>
<td>4</td>
<td>Size</td>
</tr>
<tr>
<td>5</td>
<td>Exterior appearance</td>
</tr>
<tr>
<td>6</td>
<td>Yard/trees/view</td>
</tr>
<tr>
<td>7</td>
<td>Quality of construction</td>
</tr>
<tr>
<td>8</td>
<td>Only one available</td>
</tr>
<tr>
<td>9</td>
<td>Other-SPECIFY</td>
</tr>
<tr>
<td>0</td>
<td>All reasons equal</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
</tbody>
</table>

*Long description:*
What was the MAIN reason you chose this housing unit?
**WHYTON**

Main reason this neighborhood was chosen

1. Convenient to job
2. Convenient to friends or relatives
3. Convenient to leisure activities
4. Convenient to public transportation
5. Good schools
6. Other public services
7. Looks/design of neighborhood
8. House was an important consideration
9. Other
0. All reasons equal
B. Not applicable
D. Don't Know
R. Refused

Long description:
What is the MAIN reason you chose this neighborhood?

Type: Character
Edit flag variable: JHYTON
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**WMCHEP**

Moved here for less expensive rent/maintenance

X. Wanted lower rent or less expensive house to maintain
B. Not applicable
Blank. Not reported

Long description:
What are the reasons you moved from your last residence?

Type: Character
Edit flag variable: JMCHEP
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**WMCHTN** =
Moved here to own not rent or vice versa

X Change from owner to renter OR renter to owner
B Not applicable
Blank Not reported

*Long description:*
What are the reasons you moved from your last residence?

**Type:** Character
**Edit flag variable:** JMCHTN
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**WMCLOS** =
Moved to be closer to work/school/other

X To be closer to work/school/other
B Not applicable
Blank Not reported

*Long description:*
What are the reasons you moved from your last residence?

**Type:** Character
**Edit flag variable:** JMCLOS
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD
**WMCNDO** = Moved because unit was going condo/co-op

1  Yes
2  No
B  Not applicable
Blank  Not reported

*Long description:*
Because that unit was going to become a condominium or cooperative?

**Type:** Character  
**Edit flag variable:** JMCNDO  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**WMDISL** = Moved because of disaster loss

X  Disaster loss (fire, flood, etc.)
B  Not applicable
Blank  Not reported

*Long description:*
What are the reasons you moved from your last residence?

**Type:** Character  
**Edit flag variable:** JMDISL  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**WMFAML** = Moved for other family/personal reasons

- X: Other, family/personal related
- B: Not applicable
- Blank: Not reported

*Long description:* What are the reasons you moved from your last residence?

- Type: Character
- Edit flag variable: JMFAML
- Allocation Matrix: None
- Topcoded: No
- Module 1999 and earlier: houshld
- Module 2001 and later: newhouse
- Unit of observation: HOUSEHOLD

**WMFEMP** = Moved for other financial/employment reasons

- X: Other, financial/employment related
- B: Not applicable
- Blank: Not reported

*Long description:* What are the reasons you moved from your last residence?

- Type: Character
- Edit flag variable: JMFEMP
- Allocation Matrix: None
- Topcoded: No
- Module 1999 and earlier: houshld
- Module 2001 and later: newhouse
- Unit of observation: HOUSEHOLD
**WMGOVP**
Moved because government using land/unit

1 Yes  
2 No  
B Not applicable  
Blank Not reported

*Long description:*
Did you leave because the government wanted to use the land or building for some other purpose?

**Type:** Character  
**Edit flag variable:** JMGOVP  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**WMGOVT**
Force to move by government

X Yes  
B Not applicable  
D Don't Know  
R Refused  
Blank Not reported

*Long description:*
Because the government forced you to leave?

**Type:** Character  
**Edit flag variable:** JMGOVT  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**WMHOUS** = Moved for other housing related reasons

X Other housing related reasons
B Not applicable
Blank Not reported

*Long description:*
What are the reasons you moved from your last residence?

*Type:* Character
*Edit flag variable:* JMHOUS
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

**WMJOBS** = Moved for new job or job transfer

X New job or job transfer
B Not applicable
Blank Not reported

*Long description:*
What are the reasons you moved from your last residence?

*Type:* Character
*Edit flag variable:* JMJOBS
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD
**WMLARG =**
Moved because needed larger unit

X  Needed a larger house or apartment
B  Not applicable
Blank  Not reported

*Long description:*
What are the reasons you moved from your last residence?

**Type:** Character
**Edit flag variable:** JMLARG
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**WMMARR =**
Moved because of marital status change

X  Married, widowed, divorced, or separated
B  Not applicable
Blank  Not reported

*Long description:*
What are the reasons you moved from your last residence?

**Type:** Character
**Edit flag variable:** JMMARR
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD
WMNFIT = Moved because unit was condemned

1    Yes
2    No
B    Not applicable
Blank    Not reported

Long description:
Because that residence was condemned by the government as unfit for occupancy?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

WMONHH = Moved to establish own household

X    To establish own household
B    Not applicable
Blank    Not reported

Long description:
What are the reasons you moved from your last residence?

Type: Character
Edit flag variable: JMONHH
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**WMOTHTR**
Moved for some other reason

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Other-Specify</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:* What are the reasons you moved from your last residence?

**Type:** Character  
**Edit flag variable:** JMOTHBR  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**WMOWNR**
Moved because owner taking over unit

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:* Did you leave because the owner, or members of the owner's family were going to move into that residence?

**Type:** Character  
**Edit flag variable:** JMOWNR  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**WMPRIV** =
Moved cause private company/person wants unit

<table>
<thead>
<tr>
<th></th>
<th>X</th>
<th>B</th>
<th>D</th>
<th>R</th>
<th>Blank</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Not applicable</td>
<td>Don't Know</td>
<td>Refused</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
In addition to the reasons given, did you leave because a private company or person wanted to use it for some purpose?

*Type:* Character
*Edit flag variable:* J MPRIV
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshold
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

**WMQUAL** =
Moved to obtain higher quality unit

<table>
<thead>
<tr>
<th></th>
<th>X</th>
<th>B</th>
<th>Blank</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wanted a better quality house (apartment)</td>
<td>Not applicable</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
What are the reasons you moved from your last residence?

*Type:* Character
*Edit flag variable:* J MQUAL
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshold
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD
**WMREPR**
Moved because unit closed for repairs

1. Yes
2. No
B. Not applicable
D. Don’t Know
Blank. Not reported

**Long description:**
Because that residence was closed for repairs?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD

**WNFUN**
Chose neighborhood for close leisure activity

X. Convenient to leisure activities
B. Not applicable
D. Don’t Know
R. Refused
Blank. Not reported

**Long description:**
People's reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.
What attracted you to this NEIGHBORHOOD?

**Type:** Character
**Edit flag variable:** JWNFUN
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse
**Unit of observation:** HOUSEHOLD
**WNHOME**

Chose neighborhood because of unit

X  House was an important consideration  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*

People's reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.

What attracted you to this NEIGHBORHOOD?

**WNJOB**

Chose neighborhood because close to work

X  Convenient to job  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*

People's reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.

What attracted you to this NEIGHBORHOOD?
WNLOOK =
Chose neighborhood for its looks/design

X  Looks/design of neighborhood
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
People’s reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.
What attracted you to this NEIGHBORHOOD?

Type: Character
Edit flag variable: JNLOOK
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

WNOTHR =
Chose neighborhood for other reasons

X  Other
B  Not applicable
Blank  Not reported

Long description:
People’s reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.
What attracted you to this NEIGHBORHOOD?

Type: Character
Edit flag variable: JNOTHR
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
WNPEPL =
Chose neighborhood since close to friends/family
X Convenient to friends or relatives
B Not applicable
D Don't Know
R Refused
Blank Not reported

**Long description:**
People's reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.
What attracted you to this NEIGHBORHOOD?

Type: Character
Edit flag variable: JNPEPL
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

WNSCH =
Chose neighborhood because of good schools
X Good schools
B Not applicable
D Don't Know
R Refused
Blank Not reported

**Long description:**
People's reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.
What attracted you to this NEIGHBORHOOD?

Type: Character
Edit flag variable: JWNSCH
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
WNSRV =
Chose neighborhood for other public services

X  Other public services
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
People's reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.
What attracted you to this NEIGHBORHOOD?

Type: Character
Edit flag variable: J WNSRV
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

WNTRAN =
Chose neighborhood since close to Public trans.

X  Convenient to public transportation
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
People's reasons for selecting a new neighborhood may be different from their reasons for choosing a particular home.
What attracted you to this NEIGHBORHOOD?

Type: Character
Edit flag variable: J NTRAN
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**XCOND** =
Previous residence was condo/co-op

If using single file version of AHS, this variable becomes: **XCOND1-XCOND16**

1  Cooperative  
2  Condominium  
3  Neither  
4  Don’t know  
B  Not applicable  
R  Refused  
Blank  Not reported

**Long description:**
Was the previous residence part of a condominium or cooperative, or neither one?

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: rmov  
Module 2001 and later: rmov  
Unit of observation: MOVERS/PERSON  

**XCOOP** =
Previous residence was a cooperative

If using single file version of AHS, this variable becomes: **XCOOP1-XCOOP16**

1  Yes  
2  No  
B  Not applicable

**Long description:**
For this survey, a cooperative is property that is owned by a corporation made up of resident shareholders. Co-op owners can live in their unit or rent it out. Is this what you mean when you say your former home was a cooperative?

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: rmov  
Module 2001 and later: rmov  
Unit of observation: MOVERS/PERSON  
**XCOST** =
Current housing costs same as old unit

If using single file version of AHS, this variable becomes: **XCOST1-XCOST16**

1  Increase
2  Decrease
3  Stayed about the same
4  Don't know
B  Not applicable
Blank  Not reported

**Long description:**
When you moved, did your housing costs increase, decrease, or stay about the same including utilities and other costs. (Compare their share, if not whole household)

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** rmov
**Module 2001 and later:** rmov
**Unit of observation:** MOVERS/PERSON
**XHEAD**
Previous unit owned/rented by one who moved here

If using single file version of AHS, this variable becomes: **XHEAD1-XHEAD16**

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

**Long description:**
Was that unit owned/rented by someone who moved here?

<table>
<thead>
<tr>
<th>Type</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>J XHEAD</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>rmov</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>rmov</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>MOVERS/PERSON</td>
</tr>
</tbody>
</table>

**XHRATE**
Current unit better/worse than old unit

1  Better
2  Worse
3  About the same
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

**Long description:**
Is this housing unit better, worse, or about the same as your last home?

<table>
<thead>
<tr>
<th>Type</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
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</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
**XINUS** = Previous residence outside United States

If using single file version of AHS, this variable becomes: **XINUS1-XINUS16**

- X: Moved from outside the U.S.
- Blank: Not reported

*Long description:*
What city, county, and State did this person live in just before moving here? Enter (X) if outside U.S.

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* rmov  
*Module 2001 and later:* rmov  
*Unit of observation:* MOVERS/PERSON  

**XNRATE** = Current neighborhood better/worse than old one

- 1: Better
- 2: Worse
- 3: About the same
- 4: Same neighborhood
- B: Not applicable
- D: Don’t Know
- R: Refused
- Blank: Not reported

*Long description:*
Is this neighborhood better, worse, or about the same as your last neighborhood?

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
**XPER**

# people living in last unit before move

If using single file version of AHS, this variable becomes: **XPER1-XPER16**

1:30  1-30 people  
B  Not applicable  
D  Don’t Know  
R  Refused

_Long description:_  
How many people lived in that household just before the move?

_Type:_ Numeric  
_Edit flag variable:_ J XPER  
_Allocation Matrix:_ None  
_Topcoded:_ No  
_Module 1999 and earlier:_ rmov  
_Module 2001 and later:_ rmov  
_Unit of observation:_ MOVERS/PERSON  

**XREL**

Previous unit owner/rented by relative

If using single file version of AHS, this variable becomes: **XREL1-XREL16**

1  Yes  
2  No  
B  Not applicable  
D  Don’t Know  
R  Refused

_Long description:_  
Was it owned by a relative?

_Type:_ Character  
_Edit flag variable:_ None  
_Allocation Matrix:_ None  
_Topcoded:_ No  
_Module 1999 and earlier:_ rmov  
_Module 2001 and later:_ rmov  
_Unit of observation:_ MOVERS/PERSON  
**XTEN**
Tenure of previous residence

If using single file version of AHS, this variable becomes: **XTEN1-XTEN16**

1  Owned or being bought by someone in that household?
2  Rented for cash?
3  Occupied without payment of cash rent?
B  Not applicable

*Long description:*
Was that home -

**Type:** Character
**Edit flag variable:** JXTEN
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** rmov
**Module 2001 and later:** rmov
**Unit of observation:** MOVERS/PERSON

**XUNIT**
Type of unit of previous residence

If using single file version of AHS, this variable becomes: **XUNIT1-XUNIT16**

1  A house?
2  An apartment?
3  A mobile home?
4  Or some other type of residence?
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Was that residence -

**Type:** Character
**Edit flag variable:** JXUNIT
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** rmov
**Module 2001 and later:** rmov
**Unit of observation:** MOVERS/PERSON
Commuting

This section documents data released relevant to transportation issues, such as distance traveled to work, time required, number and types of vehicles owned by household, and means of transportation. The journey to work concept captures how members of the household commute to and from work. This commuting information is at the person level. Information on the number of vehicles is at the household level.

**Notes:**

**Cars and trucks:** Includes passenger cars and station wagons owned or regularly used by one or more household members and ordinarily kept at home. Company cars are counted (if used regularly for nonbusiness purposes and kept at home), as are taxicabs (if they are owned by a household member and kept at home). Information on the number of cars is stored in the CARS variable, while information on the number of trucks is stored in the TRUCKS variable. Included are pickups and small panel trucks of one-ton capacity or less, and small vans that are owned or regularly used by one or more members of the household and ordinarily kept at home. Company trucks and vans are included if used regularly for nonbusiness purposes and kept at home.

**Journey to work:** Includes national books and microdata. The books publish data on householders. The microdata have similar information on all workers.

**Workers:** Includes all persons aged 14 years and older who held a job in the United States, any time the week before the interview.

Line numbers are assigned as the interviewer writes the names of household members in the form. Workers in each household can be identified based on their line number stored in the PERSON variable in the Journey to Work file or PERSON1-PERSON16 variables in the “flat file” version. The Journey to Work file only contains information on the working members of the household. When the individual files are merged into a single file, the line number for each worker from the PERSON variable in the Journey to Work file is carried over to the PERSON1-PERSON16 variables in the “flat file” version. If a household member did not hold a job in the United States at any time the week before the interview, the line number for that person in the corresponding variable in the PERSON1-PERSON16 array is coded as missing (“.”). For more information on how the “flat file” and the individual files are structured, refer to the “Data Structure” section of this codebook.

**Principal means of transportation to work last week.** This refers to the principal mode of travel used to get from home to work. People who use different means of transportation on different days of the week were asked to specify the one used most often. People who use more than one means of transportation to get to work each day were asked to specify the one used for the longest distance during the trip to work. Public transportation refers to bus, streetcar, subway, or elevated trains. Other means include car, truck, taxicabs, ferryboats, surface trains, van service, and walking. Respondents may also answer that they work at home.

**Travel time from home to work.** The total elapsed time in minutes to commute from home to work during the week prior to the interview is the travel time to work. The elapsed time includes
time spent waiting for public transportation and picking up members of carpools. Respondents were instructed to report travel time to the nearest minute.

*No fixed place of work.* Workers with no fixed place of work were those who did not usually work at the same location each day and did not usually report in to a central location to begin work each day.

*Distance from home to work.* This was the usual one-way “door-to-door” distance in miles from home to work during the week prior to the interview. Respondents were instructed to report travel rounded to the nearest mile.

*Departure time to work.* Refers to the time (hour and minute) at which the respondent left for work. Respondent is also asked whether the time is a.m. or p.m.
AMPM =
Time usually leave for work - am or pm

If using single file version of AHS, this variable becomes: AMPM1-AMPM16

1 AM
2 PM

Long description:
What time did you usually leave for work? Was that A.M or P.M.?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: jtw
Module 2001 and later: jtw
Unit of observation: JTW/PERSON

CARS =
Number of cars kept for use by household members

0 None
1:5 1-5, or more
B Not applicable

Long description:
How many automobiles, excluding vans or trucks, are kept at home for use by members of your household?

Type: Character
Edit flag variable: J CARS
Allocation Matrix: Matrix E
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**DISTJ** =
Number of miles traveled to work

If using single file version of AHS, this variable becomes: DISTJ1-DISTJ16

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000:997</td>
<td>0-997 miles</td>
</tr>
<tr>
<td>998</td>
<td>998 miles or more</td>
</tr>
</tbody>
</table>

*Long description:*
How many miles was your trip to work?
(ENTER 0 IF LESS THAN 1 MILE)

<table>
<thead>
<tr>
<th>Type:</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>J DISTJ</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>jtw</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>jtw</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>JTW/PERSON</td>
</tr>
</tbody>
</table>

**HJOB** =
Reports to work at same place each day

If using single file version of AHS, this variable becomes: HJOB1-HJOB16

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
</tbody>
</table>

*Long description:*
Did you usually report to the same location to begin work each day?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
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</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>jtw</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>jtw</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>JTW/PERSON</td>
</tr>
</tbody>
</table>
**PASS**
Number of passengers in carpool

If using single file version of AHS, this variable becomes: **PASS1-PASS16**

2:14  2-14 people
15   15 or more people

*Long description:*
How many people, including you usually ride in the vehicle?

*Type:* Numeric
*Edit flag variable:* J PASS
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* jtw
*Module 2001 and later:* jtw
*Unit of observation:* J TW/PERSON

**TIMEJ**
Length of trip to work

If using single file version of AHS, this variable becomes: **TIMEJ1-TIMEJ16**

001:997  1-997 Minutes
998   998 or more Minutes

*Long description:*
How many minutes did it usually take you to get to work?

*Type:* Numeric
*Edit flag variable:* J TIMEJ
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* jtw
*Module 2001 and later:* jtw
*Unit of observation:* J TW/PERSON
TRAN  =  
Method of transportation to work

If using single file version of AHS, this variable becomes: TRAN1-TRAN16

1  Car
2  Truck
3  Van
4  Bus or Streetcar
5  Subway or elevated
6  Railroad
7  Taxicab
8  Motorcycle
9  Bicycle
10 Other vehicle
11 Walked only
12 Works at home

Long description:
How did you usually get to work last week?  
(If a person uses different means of transportation on different days...)  
Which did you use most often?  
(If a person uses more than one means of transportation on the same day...)  
Which covered the longest distance?  
PLEASE NOTE - Because of conflicts with system reserved words in FERRET, 
this item is known as TRAN_ in the FERRET system.

Type: Numeric
Edit flag variable: J TRAN
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: jtw
Module 2001 and later: jtw
Unit of observation: JTW/PERSON
**TRN =**
Is the public transportation satisfactory?

1  Yes
2  No
3  Do not use
B  Not applicable
D  Don't Know
R  Refused

*Long description:*
Is the public transportation satisfactory?

**TRUCKS =**
Number of vans or trucks for household use

0  None
1:5  1-5, or more
B  Not applicable

*Long description:*
How many vans or trucks of one-ton capacity or less are kept at home for use by members of your household?

**Conditions not in universe:**
1 : [(URE interview or vacant interview)] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**USETRN**
Someone in household uses Public transportation

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Does someone use public transportation at least once a week?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
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<td>Allocation Matrix:</td>
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<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>newhouse</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>

**VEHCL**
Drive to work alone or with others

If using single file version of AHS, this variable becomes: **VEHCL1-VEHCL16**

1  Alone
2  Go with others

*Long description:*
Did you drive alone or go with others?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>J VEHCL</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
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</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>jtw</td>
</tr>
<tr>
<td>Module 2001 and later:</td>
<td>jtw</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>J TW/PERSON</td>
</tr>
</tbody>
</table>
\textbf{WTIME} =
Time usually leave for work

If using single file version of AHS, this variable becomes: \textbf{WTIME1-WTIME16}

0100:1259  \hspace{1cm} 1:00-12:59

\textit{Long description:}
What time did you usually leave for work?  Was that A.M or P.M.?

\begin{itemize}
\item \textbf{Type}: Character
\item \textbf{Edit flag variable}: JWTIME
\item \textbf{Allocation Matrix}: None
\item \textbf{Topcoded}: No
\item \textbf{Module 1999 and earlier}: jtw
\item \textbf{Module 2001 and later}: jtw
\item \textbf{Unit of observation}: JTW/PERSON
\end{itemize}
Mobile Homes

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. It also may have permanent rooms attached at its present site, or other structural modifications. The term does not include prefabricated buildings, modular homes, travel campers, boats, or self-propelled vehicles like motor homes. Some people use the terms trailer or manufactured housing in the same sense as mobile homes.

The questions in this section ask the respondent about the mobile home model year, fees and structural type.

Notes:

**Mobile homes in group:** Mobile homes or mobile home sites gathered close together are considered to be in a “group.” This may be a mobile home park or it may be a number grouped together on adjacent individually owned lots but not in a mobile home park.

**Model Year:** Because mobile home model years are similar to automotive model years, it is possible to have a mobile home with a model year later than the current year (or later than the year the occupant moved in).
ANCHOR =
Method used to anchor mobile home

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Is your mobile home anchored by tiedowns, bolts, or some other means?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(NOT mobile home)] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**CAMF**

Frequency of assoc/mobile home park fee

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:52</td>
<td>1-52 times per year</td>
</tr>
<tr>
<td>53</td>
<td>53 times or more</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>.</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

**Type:** Numeric  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshold  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**Conditions not in universe:**

1: 


type: {Occupied interview and (Rented or occupied without payment)) or ((URE interview or vacant interview) and ((For rent only or 'for rent or for sale') or (Rented, but not yet occupied)))

AND {One-unit or apartment building}) OR

2: 

{(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied)) AND {Association fee not required or Does not know if association fee is required or Refused to answer whether association fee was required) and (One-unit or apartment building)} OR

3: 

{(Occupied interview or URE interview or vacant interview) AND [Association fee not required or Does not know if association fee is required or Refused to answer whether association fee was required] OR

4: 

{URE interview or vacant interview) and (For sale only or Sold, but not yet occupied) AND [Mobile home to be moved] OR

5: 

{URE interview or vacant interview) AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory}) OR

6: 

{NOT occupied interview or URE interview or vacant interview)}
**CAMFQ**
Frequency of assoc/mobile home park fee

1:52  1-52 times per year
53  53 times or more

*Long description:*
How many times a year is the fee due?

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1998MSA

**FRSIT**
First site mobile home ever placed on

1  Yes, first site
2  No, moved from another site
B  Not applicable
D  Don't Know
R  Refused
.  Not reported

*Long description:*
Excluding the dealer's lot, is here the first site on which this mobile home was placed?

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [(One-unit or apartment building)] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**IFOTHF**
Other mobile home fees required

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Are there any other required fees for utility hookups, mobile home association fees, and so forth?

**Type:** Character

**Edit flag variable:** JFOTHF

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**Conditions not in universe:**
1 : [(Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))] AND [(One-unit or apartment building) and Association fee required] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [(NOT mobile home)] ; OR
3 : [(URE interview or vacant interview)] AND [(Mobile home) and (For sale only or Sold, but not yet occupied) and Mobile home to be moved] ; OR
4 : [(URE interview or vacant interview)] AND [(Mobile home) and (NOT for rent, rented, for sale, or sold)] ; OR
5 : [(URE interview or vacant interview)] AND [(Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory)] ; OR
6 : [(NOT occupied interview or URE interview or vacant interview)]
**MH41** = Model year of 1st mobile home used for living quarters


*Long description:*
What is the model year of each of the mobile homes (EXCLUDING MOBILE HOME(S) ALREADY LISTED ON THE LISTING SHEET)? Use 1939 for anything earlier.

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1998MSA

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Apartment building and NOT two unit building) or ((Mobile home) and NOT 1 mobile home in group)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No mobile home on property used for living quarters or "Don't know" if mobile home on property used for living quarters or Refused to answer if mobile home on property used for living quarters]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
MH42 = Model year of 2nd mobile home used for living quarters


Long description:
What is the model year of each of the mobile homes
(EXCLUDING MOBILE HOME(S) ALREADY LISTED ON THE LISTING SHEET)
Use 1939 for anything earlier

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Apartment building and NOT two unit building) or ((Mobile home) and NOT 1 mobile home in group)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No mobile home on property used for living quarters or "Don't know" if mobile home on property used for living quarters or Refused to answer if mobile home on property used for living quarters]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**MH43**
Model year of 3rd mobile home used for living quarters


Long description:
What is the model year of each of the mobile homes
(EXCLUDING MOBILE HOME(S) ALREADY LISTED ON THE LISTING SHEET)
Use 1939 for anything earlier

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1998MSA

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Apartment building and NOT two unit building) or ((Mobile home) and NOT 1 mobile home in group)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No mobile home on property used for living quarters or "Don't know" if mobile home on property used for living quarters or Refused to answer if mobile home on property used for living quarters]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**MH44**
Model year of 4th mobile home used for living quarters


*Long description:*
What is the model year of each of the mobile homes
(EXCLUDING MOBILE HOME(S) ALREADY LISTED ON THE LISTING SHEET)
Use 1939 for anything earlier

*Type:* Numeric  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Unit of observation:* HOUSEHOLD  
*Present in survey year(s):* 1997N, 1998MSA

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Apartment building and NOT two unit building) or ((Mobile home) and NOT 1 mobile home in group)]; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No mobile home on property used for living quarters or "Don't know" if mobile home on property used for living quarters or Refused to answer if mobile home on property used for living quarters]; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
\textbf{MH45} =
Model year of 5th mobile home used for living quarters


\textbf{Long description:}
What is the model year of each of the mobile homes
(EXCLUDING MOBILE HOME(S) ALREADY LISTED ON THE LISTING SHEET)
Use 1939 for anything earlier

\textbf{Type:} Numeric
\textbf{Edit flag variable:} None
\textbf{Allocation Matrix:} None
\textbf{Topcoded:} No
\textbf{Module 1999 and earlier:} houshld
\textbf{Unit of observation:} HOUSEHOLD
\textbf{Present in survey year(s):} 1997N, 1998MSA

\textbf{Conditions not in universe:}
1 : [(Occupied interview or URE interview or vacant interview)] AND [(Apartment building and NOT two unit building) or ((Mobile home) and NOT 1 mobile home in group)] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [No mobile home on property used for living quarters or "Don't know" if mobile home on property used for living quarters or Refused to answer if mobile home on property used for living quarters] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]

\textbf{MHGONE} =
Old mobile home gone

1  Moved out
2  Lost to demolition
3  Other, specify
Blank  Not reported

\textbf{Type:} Character
\textbf{Edit flag variable:} None
\textbf{Allocation Matrix:} None
\textbf{Topcoded:} No
\textbf{Module 1999 and earlier:} houshld
\textbf{Unit of observation:} HOUSEHOLD
\textbf{Present in survey year(s):} 1999N
MHSETQ =
Type of mobile home foundation

1  Set up on a permanent masonry foundation?
2  Resting on a concrete pad?
3  Up on blocks, but not on a concrete pad?
4  Set up in some other way? (SPECIFY)
B  Not applicable
D  Don't Know
R  Refused

Long description:
Is this mobile home--
(READ CATEGORIES UNTIL A "YES" REPLY IS RECEIVED)

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(Occupied interview or URE interview or vacant interview)] AND [(NOT mobile home)] ; OR
2 : [(Occupied interview or URE interview or vacant interview)] AND [Mobile home is not anchored down] ; OR
3 : [(NOT occupied interview or URE interview or vacant interview)]
**MHSTAY**
Mobile home to stay or be moved

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Remain</td>
</tr>
<tr>
<td>2</td>
<td>To be moved</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Is this mobile home to remain where it is, or is it to be moved?

*Type:* Character

*Edit flag variable:* JHSTAY

*Allocation Matrix:* None

*Topcoded:* No

*Module 1999 and earlier:* houshld

*Module 2001 and later:* newhouse

*Unit of observation:* HOUSEHOLD


*Conditions not in universe:*
1 : 

   

   ((Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))) AND 

   (Association fee not required or Does not know if association fee is required or Refused to answer whether association fee was required) and

   (One-unit or apartment building)) ; OR

2 : 

   

   ((Occupied interview and Owned) or ((URE interview or vacant interview) and (For sale only or Sold, but not yet occupied))) AND 

   (One-unit or apartment building) and Association fee required) ; OR

3 : 

   

   (URE interview or vacant interview)) AND 

   (For rent only or ‘for rent or for sale’) or Rented, but not yet occupied) ; OR

4 : 

   

   (URE interview or vacant interview)) AND 

   (Held for occasional use throughout the year, or other not for rent, rented sold, for sale, or seasonal, or migratory) ; OR

5 : 

   

   (NOT occupied interview or URE interview or vacant interview)) ; OR

6 : 

   

   [Occupied interview and Owned] AND [Mobile home]); OR

7 : 

   

   [Occupied interview] AND [Rented]; OR

8 : 

   

   [Occupied interview] AND [Occupied without payment]
TPARK =
Number of mobile homes in group

1  1 mobile home
2  2 or more mobile homes
B  Not applicable
.  Not reported

*Long description:*
This variable was created by the bridge system.
How many, including this mobile home, are in the group?

*Type:* Numeric
*Edit flag variable:* JTPARK
*Allocation Matrix:* Matrix E
*Topcoded:* Yes
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [(One-unit or apartment building)]; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
Lead Based Paint

Questions in this section deal with condition of paint in the respondent's home and the respondent's awareness of lead paint. Respondents were asked were they had peeling paint, whether peeling paint was inside or outside the house and whether any work was done, such as sanding and scraping that would have disturbed painted surfaces. Additionally, respondents were asked if they were told before moving in that the paint might contain lead or if they received a pamphlet about lead, and if their unit was ever tested for lead.

The items in this section are restricted to housing units built before 1978 because lead was an ingredient in common house paint until 1978. After 1978, lead was banned as an ingredient in residential paint.

Notes:

Size of area of peeling/flaking paint - Lead paint policy makes a distinction of "greater than 2 square feet" and "less than two square feet" of peeling/flaking paint. During the pretest, respondents had a difficult time understanding the concept of "2 square feet"; thus, the question was reworded to include a common object that is approximately 2 square feet in size (e.g., one page of newspaper) to help respondents answer the question.

Besides this room, how many other rooms also have a large amount of peeling or flaking paint - A "large amount" of peeling or flaking paint would be an area that is larger than 1 page of newspaper (e.g., 2 feet by 1 foot).

Peeling paint more/less than ½ door – For peeling/flaking paint on the exterior of a building, lead paint policy makes a distinction of "greater than 10 square feet" and "less than 10 square feet." During the pretest, respondents also had a difficult time understanding the concept of "10 square feet"; thus, the questions were reworded to include a common object that is approximately 10 square feet in size (e.g., half the size of a standard front door) to help respondents.

Seller/agent said lead was possible – A recent law (Title X of the Housing and Community Development Act of 1992) requires that, beginning in 1996, sellers and landlords of dwellings built before 1978 inform potential buyers and tenants that there could be lead-based paint in such dwellings and that lead-based paint can be hazardous to their health. Sellers and landlords are also required to disclose any specific knowledge he/she may have about lead paint in the dwelling. These items attempt to assess the prevalence of disclosure to buyers and tenants who moved in the previous 12 months.
BEAF78 =
Unit built before/after 1978

1 Built before 1978
2 Built in 1978 or later
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Would you know if that was before or after 1978?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1: [Occupied interview] AND [(Unit was built between 1975 and 1977)]; OR
2: [Occupied interview] AND [(Unit was built between 1978 and 1979)]; OR
3: [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [Occupied interview] AND [Unit was built during 1970 or earlier and Unit was built during or after 1919]; OR
5: [NOT occupied interview]
**BIGP** =
Area of peeling paint larger than 8 x 11

1  Yes
2  No
B  Not applicable

*Long description:*
Do the walls on the inside of this
housing unit have any areas of peeling paint or broken plaster?
Are any of these areas bigger than 8 inches by 11 inches?
(THE SIZE OF A STANDARD BUSINESS LETTER)

*Type:* Character
*Edit flag variable:* J BIGP
*Allocation Matrix:* Matrix E
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [Noninterview]
**BIGPEL**
Peeling paint outside larger than door

1  Smaller than a front door
2  Same size as a front door
3  Larger than a front door
B  Not applicable
D  Don’t Know
R  Refused

*Long description:*
Thinking about the size of a standard front door, would you say that, taken all together, all of the areas of peeling or flaking paint on that side of the housing unit add up to an area that is SMALLER than a standard front door or LARGER than a standard front door?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 1997N, 1999N

**Conditions not in universe:**
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [Occupied interview] AND [No outside paint peeling or flaking] ; OR
5 : [Occupied interview] AND [Outside of unit is not painted] ; OR
6 : [NOT occupied interview]
**EVRTES**
Unit ever tested for lead paint

1  Yes, tested  
2  No, never tested  
B  Not applicable  
D  Don’t Know  
R  Refused  
Blank  Not reported  

*Long description:*
Prior to your living here, was this housing unit EVER tested for lead in the paint?

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshold  
Unit of observation: HOUSEHOLD  
Present in survey year(s): 1997N, 1999N

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [Occupied interview] AND [Unit has been tested for lead-based paint] ; OR
5 : [NOT occupied interview]
**LDMAYB** = 
Seller/agent said lead paint possible

1  Yes  
2  No  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*
Before you purchased your home, did seller/agent mention the possibility that buildings built before 1978 might have lead in the paint?

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Unit of observation: HOUSEHOLD  
Present in survey year(s): 1997N, 1999N

*Notes:*
Due to a programming error in the 1999 automated instrument, this question was asked of all households rather than households where the respondent moved to the unit since September of the previous year. Obtain the correct universe by checking the move month and move year of the respondent and selecting cases where MOVE=1999 or (MOVE=1998 and MOVM ge 9). These selections should also be limited to the correct year built categories.

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR  
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR  
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR  
4 : [Occupied interview] AND [ or (RMOVE eq (&SURVYEAR-1) and )] ; OR  
5 : [NOT occupied interview]
**LDTEST** =
Unit tested for lead paint

1       Yes, tested
2       No, never tested
B       Not applicable
D       Don't Know
R       Refused
Blank   Not reported

*Long description:*
Since you have lived here, has this housing unit been tested for lead in the paint?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** houshld
**Unit of observation:** HOUSEHOLD
**Present in survey year(s):** 1997N, 1999N

**Conditions not in universe:**
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [NOT occupied interview]
MUSTEL =
Knew you must be told about lead paint

1  Yes, have heard this
2  No, have not heard this
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Have you heard that people moving into homes that were built before
1978 now must be told before they move in that the paint might contain lead?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVEYEAR +
1)] ; OR
4 : [NOT occupied interview]
**OUTPEL =**
Outside paint peeling or flaking

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
</tbody>
</table>

*Long description:*
Is any of this paint peeling or flaking?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Edit flag variable:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Allocation Matrix:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Topcoded:</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Module 1999 and earlier:</strong></td>
<td>houshld</td>
</tr>
<tr>
<td><strong>Unit of observation:</strong></td>
<td>HOUSEHOLD</td>
</tr>
<tr>
<td><strong>Present in survey year(s):</strong></td>
<td>1997N, 1999N</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVEYEAR + 1)] ; OR
4 : [Occupied interview] AND [Outside of unit is not painted] ; OR
5 : [NOT occupied interview]
**OUTPNT** =

Any part of outside of unit painted

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Now, thinking about the OUTSIDE of your housing unit, is ANY part of the outside of your housing unit painted, such as the walls, foundation, doors, window frames or trim?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1999N

*Conditions not in universe:
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVEYEAR + 1)] ; OR
4 : [NOT occupied interview]*
PAPHLT =  
Received pamphlet about lead paint

1  Yes  
2  No  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported  

Long description:  
Before you purchased your home, did the agent give you a pamphlet about lead paint?

Type:  Character  
Edit flag variable:  None  
Allocation Matrix:  None  
Topcoded:  No  
Module 1999 and earlier:  houshld  
Unit of observation:  HOUSEHOLD  
Present in survey year(s):  1997N, 1999N  

Notes:  
Due to a programming error in the 1999 automated instrument, this question was asked of all households rather than households where the respondent moved to the unit since September of the previous year. Obtain the correct universe by checking the move month and move year of the respondent and selecting cases where MOVE=1999 or (MOVE=1998 and MOVM ge 9). These selections should also be limited to the correct year built categories.

Conditions not in universe:  
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)]; OR  
2 : [Occupied interview] AND [Unit was built in or after 1978]; OR  
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)]; OR  
4 : [Occupied interview] AND [ or (RMOVE eq (&SURVYEAR-1) and )]; OR  
5 : [NOT occupied interview]
PEELAM =
Number of other rooms with peeling paint

0:99 0-99 rooms
B Not applicable
D Don't Know
R Refused
. Not reported

Long description:
Besides this room, how many other rooms also have a large amount of peeling or flaking paint?

Type: Numeric
Edit flag variable: JEELAM
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1: [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2: [Occupied interview] AND [Unit was built in or after 1978] ; OR
3: [Occupied interview] AND [The area of peeling paint is not larger than 8x11] ; OR
4: [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
5: [Occupied interview] AND [No peeling paint in rooms] ; OR
6: [Occupied interview] AND [Peeling/flaking paint smaller than 1 page of newspaper] ; OR
7: [NOT occupied interview]
PEELSZ =
Size of area of peeling/flaking paint

1  Smaller than 1 page of newspaper
2  Same size as 1 page of newspaper
3  Larger than 1 page of newspaper
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Would you say that, taken all together, all of the areas of peeling or flaking paint in that room add up to an area that is smaller than one page of newspaper or larger than one page of newspaper?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [The area of peeling paint is not larger than 8x11] ; OR
4 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
5 : [Occupied interview] AND [No peeling paint in rooms] ; OR
6 : [NOT occupied interview]
**SMPEEL**
Peeling paint more/less than 1/2 door

1  Yes, at least half the size of a front door
2  No, smaller than half the size of a front door
3  Same size as half a front door
B  Not applicable
D  Don't Know

*Long description:*
Is it at least HALF the size of a standard front door or is it even smaller than that?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshold
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1999N

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [The area of peeling paint is not smaller than the size of a door] ; OR
4 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
5 : [Occupied interview] AND [No outside paint peeling or flaking] ; OR
6 : [Occupied interview] AND [Outside of unit is not painted] ; OR
7 : [NOT occupied interview]
**SNDPNT =**
Old paint sanded or scraped

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*
Before painting, did someone sand or scrape off any of the old paint?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit flag variable:</td>
<td>None</td>
</tr>
<tr>
<td>Allocation Matrix:</td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td>Module 1999 and earlier:</td>
<td>houshld</td>
</tr>
<tr>
<td>Unit of observation:</td>
<td>HOUSEHOLD</td>
</tr>
<tr>
<td>Present in survey year(s):</td>
<td>1997N, 1999N</td>
</tr>
</tbody>
</table>

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [The unit does not have any painting the inside] ; OR
3 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
4 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
5 : [NOT occupied interview]
**TPBPAI**
Unit tested for lead paint before purchase

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
When ... bought this housing unit, did anyone make inquiries or have this housing unit inspected or tested for lead-based paint?

**Type:** Character
**Edit flag variable:** None
**Allocation Matrix:** None
**Topcoded:** No

**Module 1999 and earlier:** houshld
**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Not owned] ; OR
3 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
TPBPIP =
Lead pipes inspected before purchase

1 Yes
2 No
B Not applicable
D Don’t Know
R Refused
Blank Not reported

Long description:
When ... bought this housing unit, did anyone make inquiries or have this housing unit inspected or tested for lead pipes?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Conditions not in universe:
1 : [(URE interview or vacant interview)] ; OR
2 : [Occupied interview] AND [Not owned] ; OR
3 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
**TPBSOL =**
Lead solder inspected before purchase

1  Yes  
2  No  
B  Not applicable  
D  Don't Know  
R  Refused  
Blank  Not reported

*Long description:*
When ... bought this housing unit, did anyone make inquiries or have this housing unit inspected or tested for lead solder on copper pipes?

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

*Conditions not in universe:*
1 : [(URE interview or vacant interview)] ; OR  
2 : [Occupied interview] AND [Not owned] ; OR  
3 : [Noninterview] AND [(NOT occupied interview or URE interview or vacant interview)]
Upgrade and Remodeling

This section contains information from questions asked about additions, alterations and repairs to housing units in the survey. Information includes questions about changes to amount of unit square footage, type of unit, and unit quality. In addition, the microdata file also includes information about whether the household got a low interest loan or grant to pay for repairs and the amount spent in a typical year on routine repairs and maintenance.

Notes:

Replacements and additions. The statistics refer to within 2 years prior to the interview and are restricted to owner-occupied units. The respondents were first asked if, in the last 2 years has there been a major disaster, such as an earthquake, tornado, hurricane, landslide, fire, or flood that required them to make extensive repairs to their home. Only if the damage involved at least 2 rooms or a majority of the home were replacements and additions counted as disaster required repairs. Respondents were asked to name major repairs made within the last 2 years. Also, they were asked if the repair was a replacement or an addition, if someone in the household did the work, and the cost of the repair.

The microdata file shows the total number of replacements/additions reported by all households, and the total cost of these replacements/additions. Each household could name as many as 74 jobs done in their home. In 1999, the maximum number of replacements/additions reported was 31. Questions were asked about where the work was done, if any rooms were created or attached, and if the bathroom or kitchen had been remodeled within the last 2 years.

Respondents also were asked if they added or replaced their roof, siding, interior water pipes; electrical wiring, fuse boxes or breaker switches; doors or windows; plumbing fixtures such as sinks or bath tubs; insulation; wall to wall carpeting, flooring; paneling or ceiling tiles; air conditioning; built in heating equipment; septic tank; water heater; dishwasher, garbage disposal; driveways or walk ways; fencing or walls; patio, terrace or detached deck; swimming pool, tennis court and other recreational structures; shed, detached garage or other buildings.
APTAD = Space added to apartment

1 Yes
2 No
B Not applicable
Blank Not reported

Long description:
Was space added to this apartment by building an addition or converting nonresidential areas of the building?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

APTCHE = Type of change to apartment

1 Overflow mobile home moved in or moved out
2 Other, specify
B Not applicable
Blank Not reported

Long description:
Describe the type of change that occurred.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**APTCM**

Apartment combined with other apartment

1 Yes
2 No
B Not applicable
D Don't Know
Blank Not reported

**Long description:**
Did this apartment combine with another apartment so you now have more space?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**APTSP**

Apartment split into several apartments

1 Yes
2 No
B Not applicable
D Don't Know
Blank Not reported

**Long description:**
Did this apartment split so there are now more apartments in the same space?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
CABNX =
Number of cabinets replaced/repaired

1:99 1-99 cabinets
B Not applicable

Long description:
How many cabinets or built-in shelves were replaced or repaired?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: housld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1: [Occupied interview] AND [(Unit was built between 1978 and 1979)]; OR
2: [Occupied interview] AND [Unit was built in or after 1978]; OR
3: [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [Occupied interview] AND [Did not replace cabinets in unit]; OR
5: [NOT occupied interview]
CABREP =
Replaced/repaired any cabinets in unit

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
Have any cabinets or built-in shelves in your home been replaced or repaired in the past 12 months?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)]; OR
2 : [Occupied interview] AND [Unit was built in or after 1978]; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)]; OR
4 : [NOT occupied interview]
DOORX =
Number of doors replaced/repaired

1:99 1-99 doors
B Not applicable

Long description:
How many doors or door frames were replaced or repaired?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshold
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1: [Occupied interview] AND [(Unit was built between 1978 and 1979)]; OR
2: [Occupied interview] AND [Unit was built in or after 1978]; OR
3: [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [Occupied interview] AND [No doors in the unit have been replaced or repaired]; OR
5: [NOT occupied interview]

RAC =
Cost of replacements/additions to unit

0:999999 $0-$999,999
B Not applicable

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: toppuf
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
RAC is not topcoded directly, but is the sum of the RADs.
**RACOST** =

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N

**RAD** =
Cost of alteration/repair

If using single file version of AHS, this variable becomes: **RACOST1-RACOST16**

0  $0
1  Cost reported with other work
2:999997  $2-$999,997
999998  $999,998 or more
D  Don't Know
R  Refused
.  Not reported

**Long description:**
How much did the entire job cost, including your costs and any amount covered by insurance not counting your time?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: Yes
Module 1999 and earlier: homimp
Module 2001 and later: homimp
Unit of observation: HOUSEHOLD

**Notes:**
The maximum number of upgrades shown in the flat file is 16.
There is a small number (less than .03% of those responded to the question) of observations where the number of upgrades is greater than 16.
For information on all upgrades please refer to the HOMEIMP file
Topcoded in the 99.5th percentile.
The topcode is computed individually for each type of job reported.
**RAH**  
Household member performed alteration/repair

If using single file version of AHS, this variable becomes: **RAH1-RAH16**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>D</td>
<td>Don't Know</td>
</tr>
<tr>
<td>R</td>
<td>Refused</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

*Long description:*  
Did some one in your household do most of the work?

<table>
<thead>
<tr>
<th>Type:</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Edit flag variable:</em></td>
<td>None</td>
</tr>
<tr>
<td><em>Allocation Matrix:</em></td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
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</tr>
<tr>
<td><em>Module 1999 and earlier:</em></td>
<td>homimp</td>
</tr>
<tr>
<td><em>Module 2001 and later:</em></td>
<td>homimp</td>
</tr>
<tr>
<td><em>Unit of observation:</em></td>
<td>HOMIMP</td>
</tr>
</tbody>
</table>

**RAN**  
Number of replacements/additions made to unit

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0:74</td>
<td>0-74 replacements/additions made to unit</td>
</tr>
<tr>
<td>B</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type:</th>
<th>Numeric</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Edit flag variable:</em></td>
<td>None</td>
</tr>
<tr>
<td><em>Allocation Matrix:</em></td>
<td>None</td>
</tr>
<tr>
<td>Topcoded:</td>
<td>No</td>
</tr>
<tr>
<td><em>Module 1999 and earlier:</em></td>
<td>toppuf</td>
</tr>
<tr>
<td><em>Module 2001 and later:</em></td>
<td>newhouse</td>
</tr>
<tr>
<td><em>Unit of observation:</em></td>
<td>HOUSEHOLD</td>
</tr>
</tbody>
</table>
RAS =
Type of alteration/repair - 1999 version

If using single file version of AHS, this variable becomes: RAS1-RAS16

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Disaster required repairs</td>
</tr>
<tr>
<td>02</td>
<td>Created finished bathroom from unfinished space</td>
</tr>
<tr>
<td>03</td>
<td>Created finished bedroom from unfinished space</td>
</tr>
<tr>
<td>04</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>05</td>
<td>Created finished recreation room from unfinished space</td>
</tr>
<tr>
<td>06</td>
<td>Created other finished inside room from unfinished space</td>
</tr>
<tr>
<td>07</td>
<td>Added bathroom onto home</td>
</tr>
<tr>
<td>08</td>
<td>Added kitchen onto home</td>
</tr>
<tr>
<td>09</td>
<td>Added bedroom onto home</td>
</tr>
<tr>
<td>10</td>
<td>Added other inside room onto home</td>
</tr>
<tr>
<td>11</td>
<td>Added attached garage onto home</td>
</tr>
<tr>
<td>12</td>
<td>Added porch onto home</td>
</tr>
<tr>
<td>13</td>
<td>Added deck onto home</td>
</tr>
<tr>
<td>14</td>
<td>Added carport onto home</td>
</tr>
<tr>
<td>15</td>
<td>Added other outside structure onto home</td>
</tr>
<tr>
<td>16</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>17</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>18</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>19</td>
<td>Job type deleted in 1999</td>
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<tr>
<td>33</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>34</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>35</td>
<td>Bedroom created through structural changes</td>
</tr>
<tr>
<td>36</td>
<td>Other room created through structural changes</td>
</tr>
<tr>
<td>37</td>
<td>Added/replaced roof over entire home</td>
</tr>
<tr>
<td>38</td>
<td>Added/replaced siding on home</td>
</tr>
<tr>
<td>39</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>40</td>
<td>Added/replaced internal water pipes in home</td>
</tr>
<tr>
<td>41</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>42</td>
<td>Added/replaced electrical wiring, fuse boxes, or breaker switches in home</td>
</tr>
<tr>
<td>43</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>44</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>45</td>
<td>Added/replaced doors or windows in home</td>
</tr>
<tr>
<td>46</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>47</td>
<td>Added/replaced plumbing fixtures in home</td>
</tr>
<tr>
<td>48</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td></td>
<td>Description</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>49</td>
<td>Added/replaced insulation in home</td>
</tr>
<tr>
<td>50</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>51</td>
<td>Job type deleted in 2005</td>
</tr>
<tr>
<td>52</td>
<td>Installed wall-to-wall carpeting</td>
</tr>
<tr>
<td>53</td>
<td>Added other types of flooring such as wood, tile, marble, or vinyl</td>
</tr>
<tr>
<td>54</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>55</td>
<td>Installed paneling or ceiling tiles</td>
</tr>
<tr>
<td>56</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>57</td>
<td>Added/replaced central air conditioning</td>
</tr>
<tr>
<td>58</td>
<td>Added/replaced built-in heating equipment</td>
</tr>
<tr>
<td>59</td>
<td>Job type deleted in 1999</td>
</tr>
<tr>
<td>60</td>
<td>Added/replaced septic tank</td>
</tr>
<tr>
<td>61</td>
<td>Added/replaced water heater</td>
</tr>
<tr>
<td>62</td>
<td>Added/replaced built-in dishwasher</td>
</tr>
<tr>
<td>63</td>
<td>Added/replaced garbage disposal</td>
</tr>
<tr>
<td>64</td>
<td>Other major improvements or repairs inside home (up to three could be reported)</td>
</tr>
<tr>
<td>65</td>
<td>Added/replaced driveways or walkways</td>
</tr>
<tr>
<td>66</td>
<td>Added/replaced fencing or walls</td>
</tr>
<tr>
<td>67</td>
<td>Added/replaced patio, terrace, or detached deck</td>
</tr>
<tr>
<td>68</td>
<td>Added/replaced swimming pool, tennis court, or other recreational structure</td>
</tr>
<tr>
<td>69</td>
<td>Added/replaced shed, detached garage, or other building</td>
</tr>
<tr>
<td>70</td>
<td>Other major improvements or repairs to lot or yard (up to three could be reported)</td>
</tr>
<tr>
<td>71</td>
<td>Remodeled bathroom</td>
</tr>
<tr>
<td>72</td>
<td>Remodeled kitchen</td>
</tr>
<tr>
<td>73</td>
<td>Bathroom created through structural changes</td>
</tr>
<tr>
<td>74</td>
<td>Added/replaced security system in home</td>
</tr>
</tbody>
</table>

**Long description:**
This is a recode indicating which type of alteration/repair was reported.

**Type:** Character
**Edit flag variable:** JRAS
**Allocation Matrix:** None
**Topcoded:** No
**Module 1999 and earlier:** homimp
**Module 2001 and later:** homimp
**Unit of observation:** HOMEIMP

**Notes:**
The maximum number of upgrades shown in the flat file is 16.
There is a small number (less than .03% of those responded to the question) of observations where the number of upgrades is greater than 16.
For information on all upgrades please refer to the HOMEIMP file.
In 2005, the coding for the carpeting options was changed with Option 51 becoming obsolete and Option 52 reworded.
Previously Option 52 read: Added wall to wall carpeting over finished floor.
RAW =
Alteration/repair is addition/replacement

If using single file version of AHS, this variable becomes: RAW1-RAW16

1  Addition
2  Replacement (not specified if all replaced or just part replaced)
3  Replacement (all replaced)
4  Replacement (just part replaced)
5  Room a/c replaced by central a/c or
6  Central a/c replaced by new central a/c or
7  Both addition and replacement
8  Addition/replacement not reported

Long description:
Recode create to indicate whether the alteration/repair was an addition or a replacement.

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: homimp
Unit of observation: HOMIMP
Present in survey year(s): 1997N

RAY =
Year alteration/repair completed

If using single file version of AHS, this variable becomes: RAY1-RAY16


Long description:
In what year was the work completed?

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: homimp
Unit of observation: HOMEIMP
Present in survey year(s): 1997N
SUBFIX =
Household got government loan/grant for alterations

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

Long description:
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?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
USFCAM = Amount of square foot change in unit

-99998 -99,998 square feet or more lost
-100:-99997 -100 - -99,997 square feet lost
-99  99 square feet or less lost
0  nothing lost or added
99  99 square feet or less added
100:99997 100-99,997 square feet added
99998 99,998 square feet or more added
B  Not applicable
.  Not reported

Long description:
This variable was created by the bridge system.
How many square feet of living space were added or lost?
(If dimensions given, record dimensions.)

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Due to error, not collected in 1999.

Conditions not in universe:
1 : [((Occupied interview or URE interview or vacant interview) and (Same HU as last
enumeration or HU is not part of a new incoming sample or (There is a valid interview))]
AND
[NO change in square footage of unit] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
**USFCHG**
Change in square footage of unit

1  Yes
2  No
B  Not applicable

*Long description:*
Since two years ago, has there been a change in the amount of living space in the housing unit because of putting on an addition, finishing an attic, or converting a garage to living space? *(DO NOT COUNT FINISHING A BASEMENT)*

*Type:* Character
*Edit flag variable:* JSFCHG
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

*Conditions not in universe:*
1 : [(Occupied interview or URE interview or vacant interview)] AND [NOT same HU as last enumeration or HU is part of a new incoming sample or The status is non-interview] ; OR
2 : [(NOT occupied interview or URE interview or vacant interview)]
WALLX =
# inside walls/ceilings repaired/replaced

1:99  1-99 walls or ceilings
B  Not applicable

Long description:
How many inside walls or ceilings were replaced or repaired?

Type: Numeric
Edit flag variable: JWALLX
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1: [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2: [Occupied interview] AND [Unit was built in or after 1978] ; OR
3: [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVEYEAR + 1)] ; OR
4: [Occupied interview] AND [Inside walls/ceilings NOT repaired/replaced] ; OR
5: [NOT occupied interview]
**WALREP** =
Inside walls/ceilings repaired/replaced

1  Yes
2  No
B  Not applicable
D  Don't Know
R  Refused
Blank  Not reported

*Long description:*
Have any inside walls or ceilings in your home been replaced or repaired in the past 12 months?

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshl
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1999N

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [NOT occupied interview]
WINREP =
Windows repaired or replaced

1 Yes
2 No
B Not applicable
D Don't Know
R Refused
Blank Not reported

Long description:
Not counting the glass, have any windows been replaced or repaired in the past 12 months?

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

Conditions not in universe:
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [NOT occupied interview]
**WINX**
Number of windows repaired or replaced

1:99  1-99 windows  
B  Not applicable

*Long description:*
How many windows were replaced or repaired?

*Type:* Numeric  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Unit of observation:* HOUSEHOLD  
*Present in survey year(s):* 1997N, 1999N

*Conditions not in universe:*
1 : [Occupied interview] AND [(Unit was built between 1978 and 1979)] ; OR  
2 : [Occupied interview] AND [Unit was built in or after 1978] ; OR  
3 : [Occupied interview] AND [Unit was built during or after 1980 and BUILT le (&SURVYEAR + 1)] ; OR  
4 : [Occupied interview] AND [Windows NOT repaired or replaced] ; OR  
5 : [NOT occupied interview]
Allocation Variables

Missing Values

While the Census Bureau makes all reasonable efforts to collect valid responses to all survey questions, respondents do not always provide information. Non-response occurs for various reasons, ranging from not knowing the answer to refusing to answer the question. For most variables, the Census Bureau enters a missing value code for that response. For certain key variables, however, the Census Bureau applies a procedure to allocate or assign values to those missing data. This process, known as allocation at the Census Bureau, is often referred to as imputation of missing values.

In 1997, the AHS changed the way missing values are coded. Previously, different types of missing values were coded using all 9's and then counting down by one from there. For example, 9999 = Not applicable, 9998 = Not answered, etc. The coding change in 1997 took advantage of special SAS missing value functions. SAS enables users to differentiate among classes of missing values in numeric data. For numeric variables, users can designate up to 27 special missing values by using the letters A through Z, in either upper- or lowercase, and the underscore character (_). Use the following SAS statement to define these values as missing:

```sas
missing B D R;
```

Analogous missing values are also present in ASCII versions of the microdata.

In the SAS data files, the missing values are as follows:

- **B** = Not applicable
- **D** = Don't Know
- **R** = Refused
- Blank or . = Not reported

In the ASCII text version of the data, the system of coding missing values is more complicated. When the range of valid values for a particular variable contains two or more digits or the largest valid value is greater or equal to 6, then the codes are the following:

- -9 = Not applicable
- -8 = Refused
- -7 = Don't Know
- -6 or Blank = Not reported

Otherwise, when the valid values for a variable have only one digit and the largest valid value is less than 6, then the coding for missing variables is:

- 9 = Not applicable
- 8 = Refused
- 7 = Don't Know
6 or Blank = Not reported

This change in the coding of missing values means that programs developed to use previous years of AHS data may need to be revised to run properly and accurately. If programs are not adapted, the program may crash, report errors, or produce erroneous results.

For allocated values, the Census Bureau uses a procedure called “hot-decking” in which a missing value is replaced with the last value for that variable for a unit with the same selected characteristics. The collection of possibilities for units with the same characteristics is referred to as an allocation matrix whose dimensions are based on a set of selected variables being allocated. Different matrices are used to create replacements for missing values for different variables or questions.

A more complete description of the allocation matrices and the allocation process can be found in the “Allocation Matrices” appendix.
JAFUEL =
Edit flag for AFUEL

0 No change
1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JAGE =
Edit flag for AGE

0 No change
1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: HOUSEHOLD
JAIR =
Edit flag for AIR

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JALMV =
Edit flag for ALMV

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JAMEDU**
Edit flag for SAMEDU

0  No change  
1  Other edit change  
2  Changed by hot deck  
Blank  Not reported  

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

**JAMRTZ**
Edit flag for AMRTZ

0  No change  
1  Other edit change  
2  Changed by hot deck  
Blank  Not reported  

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  
**JAMTE =**
Edit flag for AMTE

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<th>Description</th>
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<tr>
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<td>2</td>
<td>Changed by hot deck</td>
</tr>
<tr>
<td>3</td>
<td>Computed by regression</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  

---

**JAMTF =**
Edit flag for AMTF

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<tr>
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<tr>
<td>2</td>
<td>Changed by hot deck</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
</tr>
</tbody>
</table>

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  
JAMTG =
Edit flag for AMTG

0  No change
1  Other edit change
2  Changed by hot deck
3  Computed by regression
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JAMTI =
Edit flag for AMTI

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
JAMTM =
Edit flag for AMTM

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

JAMTM2 =
Edit flag for AMTM2

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
### JAMTO
Edit flag for AMTO

- **0**: No change
- **1**: Other edit change
- **2**: Changed by hot deck
- **Blank**: Not reported

**Type**: Character  
**Edit flag variable**: None  
**Allocation Matrix**: None  
**Topcoded**: No  
**Module 1999 and earlier**: houshld  
**Module 2001 and later**: newhouse  
**Unit of observation**: HOUSEHOLD  

### JAMTT
Edit flag for AMTT

- **0**: No change
- **1**: Other edit change
- **2**: Changed by hot deck
- **Blank**: Not reported

**Type**: Character  
**Edit flag variable**: None  
**Allocation Matrix**: None  
**Topcoded**: No  
**Module 1999 and earlier**: houshld  
**Module 2001 and later**: newhouse  
**Unit of observation**: HOUSEHOLD  
JAMTW =
Edit flag for AMTW

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JANPMT =
Edit flag for LANPMT

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JANVAR** =
Edit flag for CANVAR

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD

**JANVR2** =
Edit flag for CANVR2

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* mortg
*Module 2001 and later:* mortg
*Unit of observation:* HOUSEHOLD
**JARAGE** =
Edit flag for GARAGE

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<th>Description</th>
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*Type*: Character

*Edit flag variable*: None

*Allocation Matrix*: None

*Topcoded*: No

*Module 1999 and earlier*: houshld

*Module 2001 and later*: newhouse

*Unit of observation*: HOUSEHOLD


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**JARSYS** =
Edit flag for OARSYS

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<th>Description</th>
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*Type*: Character

*Edit flag variable*: None

*Allocation Matrix*: None

*Topcoded*: No

*Module 1999 and earlier*: houshld

*Module 2001 and later*: newhouse

*Unit of observation*: HOUSEHOLD

**JASPI2**
Edit flag for GASPI2

0  No change  
1  Other edit change  
2  Changed by hot deck  
Blank  Not reported

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

**JASPIP**
Edit flag for GASPIP

0  No change  
1  Other edit change  
2  Changed by hot deck  
Blank  Not reported

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
**JATBUY**

Edit flag for MATBUY

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** mortg  
**Module 2001 and later:** mortg  
**Unit of observation:** HOUSEHOLD  

**JATBY2**

Edit flag for MATBY2

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** mortg  
**Module 2001 and later:** mortg  
**Unit of observation:** HOUSEHOLD  
JATERS =  
Edit flag for WATERS

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  

JATVTY =  
Edit flag for NATVTY

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 2001 and later: person  
Unit of observation: HOUSEHOLD  
JAUNDY =
Edit flag for LAUNDY

0     No change
1     Other edit change
2     Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JBANK =
Edit flag for BANK

0     No change
1     Other edit change
2     Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
**JBANK2**

Edit flag for BANK2

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*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

---

**JBATHS**

Edit flag for BATHS

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*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
**JBEDX**

Edit flag for BEDX

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<td>Changed by hot deck</td>
</tr>
<tr>
<td>Blank</td>
<td>Not reported</td>
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**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 1997N, 1999N

---

**JBIGP**

Edit flag for BIGP

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<td>Changed by hot deck</td>
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<tr>
<td>Blank</td>
<td>Not reported</td>
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**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**JBILLF =**

Edit flag for BILLF

0        No change  
1        Other edit change  
2        Changed by hot deck  
Blank    Not reported

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  

**JBILLG =**

Edit flag for BILLG

0        No change  
1        Other edit change  
2        Changed by hot deck  
Blank    Not reported

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  
**JBILLO**

Edit flag for BILLO

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**Type:** Character  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**JBILLT**

Edit flag for BILLT

<p>| | |</p>
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
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Edit flag for BUILT

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**Present in survey year(s):** 1997N, 1998MSA
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Unit of observation: HOUSEHOLD

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Edit flag for CARS

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Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

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- **Unit of observation:** HOUSEHOLD

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- **Unit of observation:** HOUSEHOLD
- **Present in survey year(s):** 1997N
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**Unit of observation:** HOUSEHOLD


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**Unit of observation:** HOUSEHOLD

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Topcoded: No  
Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  
**JDSTOV** =
Edit flag for DSTOVE

0  No change
1  Other edit change
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Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JEDRMS** =
Edit flag for BEDRMS

0  No change
1  Other edit change
2  Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
JEELAM =
Edit flag for PEELAM

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

JEGRMOR =
Edit flag for REGMOR

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
JELDUS =
Edit flag for WELDUS

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

JELEV =
Edit flag for ELEV

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD
**JELLAR**

Edit flag for CELLAR

0  No change
1  Other edit change
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Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: housed
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JELUMN**

Edit flag for HELUMN

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JELUMP**
Edit flag for HELUMP

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1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character  
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*Allocation Matrix:* None  
*Topcoded:* No  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

**JENURE**
Edit flag for TENURE

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Blank  Not reported

*Type:* Character  
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*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
JEQUIP =
Edit flag for HEQUIP

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JESMOR =
Edit flag for RESMOR

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
**JESMR2**

Edit flag for RESMR2

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  

**JEVROD**

Edit flag for EVROD

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character  
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JEWDIS =
Edit flag for SEWDIS

0 No change
1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JEWDUS =
Edit flag for SEWDUS

0 No change
1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
JEWMOR =
Edit flag for NEWMOR

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

JEWMR2 =
Edit flag for NEWMR2

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
JEXCLU =  
Edit flag for KEXCLU

0        No change  
1        Other edit change  
2        Changed by hot deck  
Blank    Not reported

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  

JFAFUR =  
Edit flag for FAFUR

0        No change  
1        Other edit change  
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Blank    Not reported

Type: Character  
Edit flag variable: None  
Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  
**JFAMRM**
Edit flag for FAMRM

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- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**JFARM2**
Edit flag for MFARM2

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- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** mortg
- **Module 2001 and later:** mortg
- **Unit of observation:** HOUSEHOLD
**JFBLOW**

Edit flag for IFBLOW

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Blank  Not reported

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>Module 2001 and later:* newhouse  
>Unit of observation:* HOUSEHOLD  

**JFCOLD**

Edit flag for IFCOLD

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Blank  Not reported

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**JFCOOK**

Edit flag for FCOKST

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Type: Character

Edit flag variable: None

Allocation Matrix: None

Topcoded: No

Module 1999 and earlier: houshld

Module 2001 and later: newhouse

Unit of observation: HOUSEHOLD


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**JFELEC**

Edit flag for FELECT

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Type: Character

Edit flag variable: None

Allocation Matrix: None

Topcoded: No

Module 1999 and earlier: houshld

Module 2001 and later: newhouse

Unit of observation: HOUSEHOLD

**JFFLIN**

Edit flag for FFLIN

- 0: No change
- 1: Other edit change
- 2: Changed by hot deck
- Blank: Not reported

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


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**JFFLOT**

Edit flag for FFLOT

- 0: No change
- 1: Other edit change
- 2: Changed by hot deck
- Blank: Not reported

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

**JFFPLI**

Edit flag for FFRPLI

- 0: No change
- 1: Other edit change
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- Blank: Not reported

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**Allocation Matrix:** None  
**Topcoded:** No  
**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

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**JFFRPL**

Edit flag for FFRPL

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- 1: Other edit change
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- Blank: Not reported

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**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**JFHOTH**
Edit flag for FHOTH

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**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**JFHPMP**
Edit flag for FHPMP

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**Module 1999 and earlier:** houshld  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**JFOTHF =**
Edit flag for IFOTHF

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1  Other edit change  
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Blank  Not reported

Type: Character  
Edit flag variable: None  
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Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  

**JFPLF =**
Edit flag for FPLF

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Blank  Not reported

Type: Character  
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Allocation Matrix: None  
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Module 1999 and earlier: houshld  
Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  
**JFPLWK** =
Edit flag for FPLWK

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1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JFPORH** =
Edit flag for FPORTH

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1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JFRENT**

Edit flag for FRENT

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- **Blank**: Not reported

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**Module 2001 and later**: newhouse  
**Unit of observation**: HOUSEHOLD  

**JFSTEA**

Edit flag for FSTEAM

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** Module 2001 and later**: newhouse  
** Unit of observation**: HOUSEHOLD  
**JFSTOV**

Edit flag for FSTOVE

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2  Changed by hot deck
Blank  Not reported

**Type:** Character  
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**Topcoded:** No  
**Module 1999 and earlier:** houshold  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**JGRAD**

Edit flag for GRAD

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1  Other edit change
2  Changed by hot deck
Blank  Not reported

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**Module 2001 and later:** person  
**Unit of observation:** HOUSEHOLD  
**JHALFB**

Edit flag for HALFB

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Type: Character

Edit flag variable: None

Allocation Matrix: None

Topcoded: No

Module 1999 and earlier: houshld

Module 2001 and later: newhouse

Unit of observation: HOUSEHOLD


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**JHARAT**

Edit flag for SHARAT

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Type: Character

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Allocation Matrix: None

Topcoded: No

Module 1999 and earlier: houshld

Module 2001 and later: newhouse

Unit of observation: HOUSEHOLD

### JHARFR

**Edit flag for SHARFR**

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- **Type:** Character
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- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

### JHARPF

**Edit flag for SHARPF**

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- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
**JHERE**

Edit flag for HERE

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1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* person
*Module 2001 and later:* person
*Unit of observation:* HOUSEHOLD

**JHFUEL**

Edit flag for HFUEL

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1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD
**JHHAGE** =
Edit flag for HHAGE

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

**JHHATVTY** =
Edit flag for HHNATVTY

0  No change
1  Other edit change
2  Changed by hot deck
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*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD
**JHHGRAD**

Edit flag for HHGRAD

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**Type:** Character  
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**Topcoded:** No  
**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N

**JHHTSHP**

Edit flag for HHCITSHP

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**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N
### JHHMAR

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**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N

### JHHMOVE

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**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N
**JHHMOV**

Edit flag for HHMOV

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Type: Character
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Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JHMMVG**

Edit flag for HHMVG

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Type: Character
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Allocation Matrix: None
Topcoded: No
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JHHNUSYR**

Edit flag for HHINUSYR

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- **Type:** Character
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- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
- **Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N

**JHRACE**

Edit flag for HHRACE

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- **Type:** Character
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- **Topcoded:** No
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
- **Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N
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Unit of observation: HOUSEHOLD

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Unit of observation: HOUSEHOLD
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Unit of observation: HOUSEHOLD


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- **Unit of observation:** HOUSEHOLD

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- **Unit of observation:** HOUSEHOLD

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- **Unit of observation:** HOUSEHOLD
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**Unit of observation:** HOUSEHOLD


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**Module 1999 and earlier:** mortg

**Module 2001 and later:** mortg

**Unit of observation:** HOUSEHOLD

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1 Other edit change
2 Changed by hot deck
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Type: Character
Edit flag variable: None
Allocation Matrix: None
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Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JINING =
Edit flag for DINING

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Type: Character
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Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
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**Module 2001 and later:** mortg
**Unit of observation:** HOUSEHOLD

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**JINTW2**
Edit flag for INTW2

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**Unit of observation:** HOUSEHOLD
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Edit flag for AIRSYS

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*Type:* Character
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*Unit of observation:* HOUSEHOLD

**JITSHP**

Edit flag for CITSHP

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*Module 2001 and later:* person
*Unit of observation:* HOUSEHOLD
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Edit flag for LIVING

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**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


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**JKITCH**

Edit flag for KITCH

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**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

**JLEAK**

Edit flag for LEAK

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**JLINE1**

Edit flag for DLINE1

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Edit flag for FLOORS

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Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  

**JLOT =**
Edit flag for LOT

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Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  
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**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


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**JLT25K**

Edit flag for LT25K

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**Type:** Character

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**Topcoded:** No

**Module 1999 and earlier:** houshld

**Unit of observation:** HOUSEHOLD

**Present in survey year(s):** 1997N, 1998MSA
**JM3ROD**

Edit flag for M3ROD

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- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

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Edit Flag for PMAMT2

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- **Topcoded:** No
- **Module 2001 and later:** mortg
- **Unit of observation:** HOUSEHOLD
- **Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N
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Edit flag for MAR

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Blank  Not reported

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Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: person  
Module 2001 and later: person  
Unit of observation: HOUSEHOLD  

**JMARKT**
Edit flag for MARKT

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Blank  Not reported

Type: Character  
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Allocation Matrix: None  
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Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  
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Edit flag for WMCHEP

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**JMCHTN**

Edit flag for WMCHTN

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Edit flag for MCOM2

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**Unit of observation:** HOUSEHOLD


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**JMDISL**

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**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

**JMFAML**

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**JMFARM**

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*Notes:*  
In 1997, in MORTG module.
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Unit of observation: HOUSEHOLD  

**JMGOVT**

Edit flag for WMGOVT

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Unit of observation: HOUSEHOLD  
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

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Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JMIPMT**

Edit flag for PMIPMT

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Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
**JMJOBS**

Edit flag for WMJ OBS

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Blank  Not reported

Type: Character
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Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JMLARG**

Edit flag for WMLARG

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Type: Character
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Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
JMMARR =
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Type:            Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:         No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

JMMORT =
Edit flag for AMMORT

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Type:            Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:         No
Module 1999 and earlier:  mortg
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD
JMMRT2 =
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1  Other edit change
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Type: Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  mortg
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD

JMMRT3 =
Edit flag for AMMRT3

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1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  mortg
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD
JMMRT4 =
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2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

JMONHH =
Edit flag for WMONHH

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Type: Character
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Allocation Matrix: None
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Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JMOTHHR =**

Edit flag for WMOTH

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- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**JMOVAC =**

Edit flag for MOVAC

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- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
**JMOVE**

**Edit flag for MOVE**

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**JMOVM**

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*Unit of observation:* HOUSEHOLD  
**JMOWNR**

Edit flag for WMOWNR

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Module 2001 and later: newhouse  
Unit of observation: HOUSEHOLD  

**JMPMT2**

Edit flag for PMPMT2

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Module 2001 and later: mortg  
Unit of observation: HOUSEHOLD  
**JMPRIV**

Edit flag for WMPRIV

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*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

**JMQUAL**

Edit flag for WMQUAL

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*Unit of observation:* HOUSEHOLD  
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Edit flag for AMRTZ2

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Blank  Not reported

Type: Character  
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Allocation Matrix: None  
Topcoded: No  
Module 1999 and earlier: mortg  
Module 2001 and later: mortg  
Unit of observation: HOUSEHOLD  

**JMVG**

Edit flag for MVG

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2  Changed by hot deck  
Blank  Not reported

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Allocation Matrix: None  
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Module 1999 and earlier: person  
Module 2001 and later: person  
Unit of observation: HOUSEHOLD  
JNFEQ =
Edit flag for CONFEEQ

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1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1998MSA, 1999N

JNHOME =
Edit flag for WNHOME

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1  Other edit change
2  Changed by hot deck
Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JNITSF**

Edit flag for UNITSF

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Type: Character
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Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JNLOOK**

Edit flag for WNLOOK

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Blank  Not reported

Type: Character
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Topcoded: No
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JNOOTH**

Edit flag for NOOTHLM

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Unit of observation: HOUSEHOLD  
Present in survey year(s): 1999N

**JNOTHR**

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Unit of observation: HOUSEHOLD  
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**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


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**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

**JNUSYR** =
Edit flag for INUSYR

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Blank  Not reported

*Type:* Character  
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*Module 2001 and later:* person  
*Unit of observation:* HOUSEHOLD  

**JNYCAR** =
Edit flag for ANYCAR

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1  Other edit change
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*Type:* Character  
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*Present in survey year(s):* 1997N, 1999N
**JNYRUG**

Edit flag for ANYRUG

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Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1997N, 1999N

**JOAFUE**

Edit flag for OAFUEL

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Type: Character
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JOILET**
Edit flag for TOILET

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Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JOOMSA**
Edit flag for ROOMSA

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1  Other edit change
2  Changed by hot deck

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Unit of observation: HOUSEHOLD
Present in survey year(s): 1998MSA
JOPERM =
Edit flag for MOPERM

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Blank   Not reported

Type:       Character
Edit flag variable:   None
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Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

JORTIN =
Edit flag for MORTINS

0       No change
1       Other edit change
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Blank   Not reported

Type:       Character
Edit flag variable:   None
Allocation Matrix:  None
Topcoded:   No
Module 1999 and earlier:  mortg
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD
**JORTN2**

Edit flag for MORTN2

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**Unit of observation:** HOUSEHOLD  

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**JOTHFN**

Edit flag for OTHFN

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**Unit of observation:** HOUSEHOLD  
**JOTPIP**

Edit flag for HOTPIP

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**Unit of observation:** HOUSEHOLD  

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**JOTSUR**

Edit flag for NOTSUR

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Edit flag for OVEN

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1       Other edit change
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Blank   Not reported

Type: Character
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Allocation Matrix: None
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Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JOVGRP =
Edit flag for MOVGRP

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1       Other edit change
2       Changed by hot deck
Blank   Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: rmov
Module 2001 and later: rmov
Unit of observation: HOUSEHOLD
JOWire =
Edit flag for NOWIRE

0 No change
1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

JPAR =
Edit flag for PAR

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1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: HOUSEHOLD
**JPASS =**
Edit flag for PASS

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**Module 1999 and earlier:** jtw
**Module 2001 and later:** jtw
**Unit of observation:** HOUSEHOLD

**JPLUGS =**
Edit flag for PLUGS

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Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

JPMT =
Edit flag for PMT

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Blank   Not reported

Type:       Character
Edit flag variable:   None
Allocation Matrix:    None
Topcoded:   No
Module 1999 and earlier:  mortg
Module 2001 and later:  mortg
Unit of observation:  HOUSEHOLD
**JPMT2**

Edit flag for PMT2

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Blank  Not reported

Type: Character
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Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

**JPMT3**

Edit flag for PMT3

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Blank  Not reported

Type: Character
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Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: mortg
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
**JPMT4**

Edit flag for PMT4

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Blank  Not reported

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**Topcoded:**  No  
**Module 1999 and earlier:**  mortg  
**Module 2001 and later:**  mortg  
**Unit of observation:**  HOUSEHOLD  


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**JPMVYR**

Edit flag for PMOVYR

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**Module 2001 and later:**  newhouse  
**Unit of observation:**  HOUSEHOLD  
**JPORCH**

Edit flag for PORCH

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**Module 2001 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  

**JPQIDRI**

Edit flag for PQIDRI

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**Unit of observation:** PERSON  
**Present in survey year(s):** 2005N
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Edit flag for pqotalm

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Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N

JPQOTHNR = 
Edit flag for pqothnr

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Blank  Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N
JPQRETIR =
Edit flag for pqretir

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1  Other edit change
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Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N

JPQSAL =
Edit flag for pqsal

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2  Changed by hot deck
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Type: Character
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Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N
JPQSALNR =
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Blank Not reported

Type: Character
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Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N

JPQSELF =
Edit flag for pqself

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Type: Character
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Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N

JPQSLFNR =
Edit flag for PQSELFNR

Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N
JPQSS =
Edit flag for pqss

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1 Other edit change
2 Changed by hot deck
Blank Not reported

Type: Character
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Allocation Matrix: None
Topcoded: No
Unit of observation: PERSON
Present in survey year(s): 2005N

JPQSSI =
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1 Other edit change
2 Changed by hot deck
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Type: Character
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Unit of observation: PERSON
Present in survey year(s): 2005N
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Blank  Not reported

Type: Character
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Allocation Matrix: None
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Unit of observation: PERSON
Present in survey year(s): 2005N

JPQWKCMP =
Edit flag for pqwkcmp

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Blank  Not reported

Type: Character
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Allocation Matrix: None
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Unit of observation: PERSON
Present in survey year(s): 2005N
**JPRENT**
Edit flag for PRENT

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*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  

**JPROJ**
Edit flag for PROJ

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*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
**JPVALU**

**Edit flag for PVALUE**

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**Type**: Character

**Edit flag variable**: None

**Allocation Matrix**: None

**Topcoded**: No

**Module 1999 and earlier**: houshld

**Module 2001 and later**: newhouse

**Unit of observation**: HOUSEHOLD


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**JQALIM**

**Edit flag for QALIM**

- **0**: No change
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- **Blank**: Not reported

**Type**: Character

**Edit flag variable**: None

**Allocation Matrix**: None

**Topcoded**: No

**Module 1999 and earlier**: houshld

**Module 2001 and later**: newhouse

**Unit of observation**: HOUSEHOLD

**JQBUS**
Edit flag for QBUS

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Blank  Not reported

*Type:* Character
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD

**JQDIV**
Edit flag for QDIV

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1  Other edit change
2  Changed by hot deck
Blank  Not reported

*Type:* Character
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*Allocation Matrix:* None
*Topcoded:* No
*Module 1999 and earlier:* houshld
*Module 2001 and later:* newhouse
*Unit of observation:* HOUSEHOLD
**JQIDRI**

Edit flag for QIDRI

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Allocation Matrix: None  
Topcoded: No  
Unit of observation: HOUSEHOLD  
Present in survey year(s): 2005N

**JQINT**

Edit flag for QINT

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Unit of observation: HOUSEHOLD  
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Edit flag for qotalm

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Type: Character
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Topcoded: No
Unit of observation: HOUSEHOLD
Present in survey year(s): 2005N

JQOTHR =
Edit flag for QOTHER

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Type: Character
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Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JQRENT**

Edit flag for QRENT

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- Blank Not reported

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshd

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


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**JQRETIR**

Edit flag for qretir

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- Blank Not reported

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Unit of observation:** HOUSEHOLD

**Present in survey year(s):** 2005N
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Edit flag for qself

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Blank  Not reported

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Unit of observation:  HOUSEHOLD
Present in survey year(s):  2005N

JQSS  =
Edit flag for QSS

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1  Other edit change
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Blank  Not reported

Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

JQSSI  =
Edit flag for QSSI

Type:  Character
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Allocation Matrix:  None
Topcoded:  No
Unit of observation:  HOUSEHOLD
Present in survey year(s):  2005N
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Edit flag for QWELF

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Type: Character

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Allocation Matrix: None

Topcoded: No

Module 1999 and earlier: houshld

Module 2001 and later: newhouse

Unit of observation: HOUSEHOLD


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Edit flag for qwkcmp

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Unit of observation: HOUSEHOLD

Present in survey year(s): 2005N
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Edit flag for RACE

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Blank  Not reported

Type: Character
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Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: HOUSEHOLD

JRA CKS =
Edit flag for CRACKS

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1  Other edit change
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Blank  Not reported

Type: Character
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Allocation Matrix: None
Topcoded: No
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
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Edit flag for rah

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**Unit of observation:** HOMEIMP

**Present in survey year(s):** 2005N

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**Allocation Matrix:** None

**Topcoded:** No

**Module 2001 and later:** homimp

**Unit of observation:** HOUSEHOLD

**Present in survey year(s):** 2001N, 2002MSA, 2003N, 2004MSA, 2005N
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Edit flag for RATS

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Blank   Not reported

Type: Character
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

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Edit flag for RECRM

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Blank   Not reported

Type: Character
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
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Edit flag for FREEZE

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Blank  Not reported

Type: Character
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Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

**JREFR**

Edit flag for REFR

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1  Other edit change
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Blank  Not reported

Type: Character
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
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**JRMOR2**

Edit flag for YRMOR2

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Edit flag for CROPSL

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**JRSHOP =**
Edit flag for DRSHOP

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**JRSTOC =**
Edit flag for FRSTOC

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Edit flag for MRTYP1

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**JRTYP2**

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**JRUCKS**

Edit flag for TRUCKS

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Type: Character
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Module 1999 and earlier: person
Module 2001 and later: person
Unit of observation: HOUSEHOLD

JSEGAS =
Edit flag for USEGAS

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Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
**JSEX**

Edit flag for SEX

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1 Other edit change
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- **Type:** Character
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- **Unit of observation:** HOUSEHOLD

**JSFCHG**

Edit flag for USFCHG

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1 Other edit change
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Blank Not reported

- **Type:** Character
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- **Unit of observation:** HOUSEHOLD
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Edit flag for SFLIN

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**Unit of observation:** HOUSEHOLD  

**JSINK**

Edit flag for SINK

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**Unit of observation:** HOUSEHOLD  
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Edit flag for SPAN

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Module 2001 and later: person  
Unit of observation: HOUSEHOLD  

**JSPORH**

Edit flag for SPORTH

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Module 2001 and later: person
Unit of observation: HOUSEHOLD

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Present in survey year(s): 1997N, 1998MSA
**JTBSUN**
Edit flag for ATBSUN

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**JTERM**
Edit flag for TERM

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Edit flag for TERM2

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Unit of observation: HOUSEHOLD
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Edit flag for OTHRUN

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**JTIMEJ**

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*Unit of observation:* HOUSEHOLD  
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Module 1999 and earlier: houshld
Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

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Type: Character
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Module 2001 and later: mortg
Unit of observation: HOUSEHOLD
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Type: Character
Edit flag variable: None
Allocation Matrix: None
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Module 1999 and earlier: jtw
Module 2001 and later: jtw
Unit of observation: HOUSEHOLD

JTRASH =
Edit flag for TRASH

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Blank  Not reported

Type: Character
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
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- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

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**JUBMOR** =
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1  Other edit change
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Edit flag for SUBMR2

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Type: Character
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2001 and later: mortg
Unit of observation: HOUSEHOLD

JUBRNT =
Edit flag for SUBRNT

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Blank Not reported

Type: Character
Edit flag variable: None
Allocation Matrix: None
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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
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Edit flag for PUBSEW

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Edit flag for NUMAIR

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Edit flag for NUMSEW

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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD

**JUNIT2**

Edit flag for NUNIT2

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Module 2001 and later: newhouse
Unit of observation: HOUSEHOLD
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- **Unit of observation:** HOUSEHOLD

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- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD
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- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

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Edit flag for VALUE

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**JVARY**

Edit flag for VARY

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| Blank | Not reported |

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Module 2001 and later: \hspace{1em} mortg
Unit of observation: \hspace{1em} HOUSEHOLD

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Edit flag for MVCNT1

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Module 1999 and earlier: \hspace{1em} rmov
Module 2001 and later: \hspace{1em} newhouse
Unit of observation: \hspace{1em} HOUSEHOLD
Present in survey year(s): \hspace{1em} 1999N, 2001N, 2002MSA, 2003N, 2004MSA, 2005N
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**Module 1999 and earlier:** rmov

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


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**Type:** Character

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**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD

**JVCL**

Edit flag for VEHCL

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**Module 2001 and later:** jtw  
**Unit of observation:** HOUSEHOLD  

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**JVOTHR**

Edit flag for VOTHER

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Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Unit of observation:  HOUSEHOLD
Present in survey year(s):  1997N, 1999N

JWASH =
Edit flag for WASH

0  No change
1  Other edit change
2  Changed by hot deck
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Type:  Character
Edit flag variable:  None
Allocation Matrix:  None
Topcoded:  No
Module 1999 and earlier:  houshld
Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD
**JWATER**

Edit flag for WATER

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Blank  Not reported

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**JWFUEL**

Edit flag for WFUEL

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**JWHAVL**

Edit flag for WHAVL

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Unit of observation: HOUSEHOLD  

**JWHDSON**

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Edit flag for WHHRB

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Edit flag for WHHRW

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**JWHKIT**

Edit flag for WHKIT

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Blank  Not reported

- **Type:** Character  
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- **Unit of observation:** HOUSEHOLD  
**JWHOTH**

Edit flag for WHOTH

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Unit of observation: HOUSEHOLD

**JWHQUL**

Edit flag for WHQUL

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Unit of observation: HOUSEHOLD
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Module 2001 and later:  newhouse
Unit of observation:  HOUSEHOLD

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Type:  Character
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JWNHER =
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Module 2001 and later: owner
Unit of observation: HOUSEHOLD

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*Unit of observation:* HOUSEHOLD  

**JWNSCH**
Edit flag for WNSCH

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*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* houshld  
*Module 2001 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
**JWNSRV**

Edit flag for WNSRV

0  No change
1  Other edit change
2  Changed by hot deck
Blank  Not reported

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** houshld
- **Module 2001 and later:** newhouse
- **Unit of observation:** HOUSEHOLD

**JWTIME**

Edit flag for WTIME

0  No change
1  Other edit change
2  Changed by hot deck

- **Type:** Character
- **Edit flag variable:** None
- **Allocation Matrix:** None
- **Topcoded:** No
- **Module 1999 and earlier:** jtw
- **Module 2001 and later:** jtw
- **Unit of observation:** HOUSEHOLD
**JXCLUS =**

Edit flag for EXCLUS

- 0: No change
- 1: Other edit change
- 2: Changed by hot deck
- Blank: Not reported

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** houshld

**Module 2001 and later:** newhouse

**Unit of observation:** HOUSEHOLD


**JXHEAD =**

Edit flag for XHEAD

- 0: No change
- 1: Other edit change
- 2: Changed by hot deck
- Blank: Not reported

**Type:** Character

**Edit flag variable:** None

**Allocation Matrix:** None

**Topcoded:** No

**Module 1999 and earlier:** rmov

**Module 2001 and later:** rmov

**Unit of observation:** HOUSEHOLD

**JXPER**

Edit flag for XPER

- **0** No change
- **1** Other edit change
- **2** Changed by hot deck
- **Blank** Not reported

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* rmov  
*Module 2001 and later:* rmov  
*Unit of observation:* HOUSEHOLD  

**JXTEN**

Edit flag for XTEN

- **0** No change
- **1** Other edit change
- **2** Changed by hot deck
- **Blank** Not reported

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* rmov  
*Module 2001 and later:* rmov  
*Unit of observation:* HOUSEHOLD  
**JXUNIT**

**Edit flag for XUNIT**

0  No change  
1  Other edit change  
2  Changed by hot deck  
Blank  Not reported

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* rmov  
*Module 2001 and later:* rmov  
*Unit of observation:* HOUSEHOLD  

**JYRMOR**

**Edit flag for YRMOR**

0  No change  
1  Other edit change  
2  Changed by hot deck  
Blank  Not reported

*Type:* Character  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 1999 and earlier:* mortg  
*Module 2001 and later:* mortg  
*Unit of observation:* HOUSEHOLD  
Income Limits FY2003

This section contains documentation for variables describing the income limits, Fair Market Rents (FMRs), area median incomes, and poverty levels for the records in the public use microdata of the 2003 AHS National Survey. As of the release of version 1.75 of the AHS Codebook, this data have not yet been added to the distribution of the AHS national file, but are expected to be added shortly. Documentation is included here in anticipation of that update.

FMRs, area median incomes, poverty levels, and income limits are area-specific figures that HUD calculates annually to help administer several of its assistance programs. Detailed explanations on how they are determined and data files for current and previous years are available at:


This narrative discussion is based on the documentation provided by HUD.

HUD determines 3 sets of income limits for each area (typically a county or group of counties): 30%, 50%, and 80% of area median income. These three income limits are then adjusted for household size, and used for various administrative purposes. The procedure is as follows:

1. For each area, estimate a median income.
2. Multiply the median income by 30, 50, and 80 percent.
3. Apply certain exceptions and make adjustments to these amounts.

Steps 1-3 determine three income limits for 4-person households. Step 4 adjusts for household size:

4. Multiply the amount from the previous step to get the amounts for each household size. For example, multiply by 70 percent to get the 1-person income limit.

The 2003 estimates in the AHS data were calculated in a different way from the estimates of previous years. In order to understand this change, some background on the geographic variation of income limits and fair market rents is required, as is an understanding of the geographic variables available in the AHS public use file (PUF). To avoid repetition, in the discussion below "income limits" should be understood to mean "income limits, area median incomes, and fair market rents."

HUD’s Economic Market Analysis Division (EMAD) estimates income limits annually for every metropolitan area and nonmetropolitan county in the United States. However, the AHS PUF identifies the metropolitan area (via the SMSA variable) only when the area has a population of 100,000 or more persons. Other AHS variables that have a geographic component include REGION (the four Census regions), METRO3 (central city, suburban, or nonmetropolitan), and DEGREE (heating and cooling degree days).
In the mid-1990s, a group of HUD analysts computed population-weighted averages of 1995 HUD income limits and fair market rents for the areas identified by SMSA and for the other areas denoted by all possible combinations of REGION*METRO*DEGREE (METRO was an earlier version of METRO3). These averages were used as input by a computer program that looked up the correct information in that file, for each AHS record. The program also applied the household size adjustments and calculated poverty incomes. Finally, these values were updated for inflation, using the Consumer Price Index.

Thus, the data in earlier versions of the AHS income limits files were inflation-adjusted 1995 HUD income limits. Where the metropolitan area was known, the appropriate limits were applied. For other areas, the REGION*METRO*DEGREE limits were applied.

The Census Bureau has recently developed a geocoded database that allows analysts to identify the county and metropolitan area of each AHS record. (For confidentiality reason, access to this database is limited to sworn Census employees.) The existence of this database and improvements in computing power have made it possible to match 2003 AHS records with the income limits appropriate to that housing unit's county or metropolitan area.

The current file thus uses actual HUD 2003 income limits (available at http://www.huduser.org/datasets/il/fmr03/index.html) for all records identified by SMSA. For those not so identified, the income limits are averaged across all records with the same REGION*METRO3*DEGREE combination. (This was done to preserve confidentiality.) However, the basis of the limits are the HUD 2003 limits, not inflated 1995 limits. Thus, the new limits will more accurately reflect current income and rent conditions.
FMR =
Fair market rent (average)

Long description:
Fair market rents (FMRs), set at the 40th percentile of estimated gross rental costs for standard quality rental housing units, are used to determine the eligibility of rental housing units for the Section 8 Housing Assistance Payments program. FMR (average) is a population-weighted average of the different FMRs existing within one AHS location.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
1. Fair market rent is in dollars per month.
2. In 2001, FMRs for 39 selected areas began being calculated at the 50th percentile level.
3. Prior to 2003, FMR estimates are based on official HUD numbers as of 1995, updated for inflation. Starting in 2003, they are based on current levels.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.

FMRA =
Fair market rent (minimum)

Long description:
Fair market rents (FMRs), set at the 40th percentile of estimated gross rental costs for standard quality rental housing units, are used to determine the eligibility of rental housing units for the Section 8 Housing Assistance Payments program. FMR (minimum) is the lowest FMR value present in an AHS location.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
See FMR notes.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.
**FMRB**

Fair market rent (maximum)

*Long description:*
Fair market rents (FMRs), set at the 40th percentile of estimated gross rental costs for standard quality rental housing units, are used to determine the eligibility of rental housing units for the Section 8 Housing Assistance Payments program. FMR (maximum) is the highest FMR value present in an AHS location.

<table>
<thead>
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<td>Unit of observation:</td>
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</table>

*Notes:*
See FMR notes.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.

**IPOV**

Poverty level income

*Long description:*
This is the federal poverty measure used to determine financial eligibility for certain federal programs. It is based on 1983 official HHS guidelines and annually updated for inflation.

<table>
<thead>
<tr>
<th>Type:</th>
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<td>Module 2002 and earlier:</td>
<td>Separate data file - see note.</td>
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<tr>
<td>Unit of observation:</td>
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*Notes:*
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.
JPQSELFN =
Edit flag for pqselfn

Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation:
Present in survey year(s):

JPVOTHER =
Edit flag for pvother

0 No change
1 Other edit change
2 Changed by hot deck
Blank Not reported

Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation:
Present in survey year(s):
**L30** =
Extremely low income limit (average)

*Long description:*
HUD's extremely low income limit is set at 30% of the area median income, but then subject to adjustments based on certain exceptions. This variable is a population-weighted average of the corresponding limits of FMR/income limit areas within an AHS area.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD
Present in survey year(s): 2003N

*Notes:*
Though extremely low income limits were calculated for each FMR/income limit level beginning in 1999, their AHS area corresponding values (average, minimum, and maximum) do not exist prior to 2003. Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.

**L30A** =
Extremely low income limit (minimum)

*Long description:*
For each FMR/income limit area, HUD's extremely low income limit is set at 30% of the area median income, but then subject to adjustments based on certain exceptions. This variable is the lowest such limit found within an AHS area.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD
Present in survey year(s): 2003N

*Notes:*
See L30 notes.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.
**L30B**
Extremely low income limit (maximum)

*Long description:*
For each FMR/income limit area, HUD's extremely low income limit is set at 30% of the area median income, but then subject to adjustments based on certain exceptions. This variable is the highest such limit found within an AHS area.

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 2002 and earlier:* Separate data file - see note.
*Module 2003 and later:* newhouse
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 2003N

*Notes:*
See L30 notes.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.

**L50**
Very low income limit (average)

*Long description:*
HUD's very low income limit is set at 50% of the area median income, but then subject to adjustments based on certain exceptions. This variable is a population-weighted average of the corresponding limits of FMR/income limit areas within an AHS area.

*Type:* Numeric
*Edit flag variable:* None
*Allocation Matrix:* None
*Topcoded:* No
*Module 2002 and earlier:* Separate data file - see note.
*Module 2003 and later:* newhouse
*Unit of observation:* HOUSEHOLD
*Present in survey year(s):* 1997N, 1999N, 2001N, 2003N

*Notes:*
Prior to 2003, averages are based on HUD's 1995 limits, updated for inflation using the Consumer Price Index. Starting in 2003, they are based on current levels.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.
**L50A** =
Very low income limit (minimum)

*Long description:*
For each FMR/income limit area, HUD's very low income limit is set at 50% of the area median income, but then subject to adjustments based on certain exceptions. This variable is the lowest such limit found within an AHS area.

*Type:* Numeric  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 2002 and earlier:* Separate data file - see note.  
*Module 2003 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
*Present in survey year(s):* 1997N, 1999N, 2001N, 2003N

*Notes:* 
Prior to 2003, values are based on HUD's 1995 estimates, updated for inflation using the Consumer Price Index. Starting in 2003, they are based on current levels. Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.

**L50B** =
Very low income limit (maximum)

*Long description:*
For each FMR/income limit area, HUD's very low income limit is set at 50% of the area median income, but then subject to adjustments based on certain exceptions. This variable is the highest such limit found within an AHS area.

*Type:* Numeric  
*Edit flag variable:* None  
*Allocation Matrix:* None  
*Topcoded:* No  
*Module 2002 and earlier:* Separate data file - see note.  
*Module 2003 and later:* newhouse  
*Unit of observation:* HOUSEHOLD  
*Present in survey year(s):* 1997N, 1999N, 2001N, 2003N

*Notes:* 
Prior to 2003, values are based on HUD's 1995 estimates, updated for inflation using the Consumer Price Index. Starting in 2003, they are based on current levels. Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.
L80 =
Low income limit (average)

Long description:
HUD's low income limit is set at 80% of the area median income, but then subject
to adjustments based on certain exceptions. This variable is a population-weighted average
of the corresponding limits of FMR/income limit areas within an AHS area.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Prior to 2003, averages are based on HUD's 1995 limits, updated for inflation using the Consumer Price
Index. Starting in 2003, they are based on current levels.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.

L80A =
Low income limit (minimum)

Long description:
For each FMR/income limit area, HUD's low income limit is set at 80% of the area
median income, but then subject to adjustments based on certain exceptions.
This variable is the lowest such limit found within an AHS area.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Prior to 2003, values are based on HUD's 1995 estimates, updated for inflation using the Consumer Price
Index. Starting in 2003, they are based on current levels.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.
L80B =
Low income limit (maximum)

Long description:
For each FMR/income limit area, HUD's low income limit is set at 80% of the area median income, but then subject to adjustments based on certain exceptions. This variable is the highest such limit found within an AHS area.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Prior to 2003, values are based on HUD's 1995 estimates, updated for inflation using the Consumer Price Index. Starting in 2003, they are based on current levels.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.

LMED =
Average median income (average)

Long description:
A population-weighted average of HUD's median family income estimates for each FMR/income limit area within an AHS area.

Type: Numeric
Edit flag variable: None
Allocation Matrix: None
Topcoded: No
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD

Notes:
Prior to 2003, averages are based on HUD's 1995 limits, updated for inflation using the Consumer Price Index. Starting in 2003, they are based on current levels.
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.
**LMEDA =**
Average median income (minimum)

*Long description:*
The lowest median family income estimate for an FMR/income limit area within an AHS area.

**Type:** Numeric  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 2002 and earlier:** Separate data file - see note.  
**Module 2003 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 1997N, 1999N, 2001N, 2003N  

**Notes:**
Prior to 2003, values are based on HUD's 1995 estimates, updated for inflation using the Consumer Price Index. Starting in 2003, they are based on current levels.  
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.

**LMEDB =**
Average median income (maximum)

*Long description:*
The highest median family income estimate for an FMR/income limit area within an AHS area.

**Type:** Numeric  
**Edit flag variable:** None  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 2002 and earlier:** Separate data file - see note.  
**Module 2003 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 1997N, 1999N, 2001N, 2003N  

**Notes:**
Prior to 2003, values are based on HUD's 1995 estimates, updated for inflation using the Consumer Price Index. Starting in 2003, they are based on current levels.  
Prior to the 2003 National file, income limit data are contained in a separate file available on HUD USER.
**QWELF**

=  

B  Not applicable  
Blank  Not reported  

*Long description:*  
Did you receive any public assistance or public welfare payments from the state or local welfare office DURING THE PAST 12 MONTHS?  

**Type:** Character  
**Edit flag variable:** JQWELF  
**Allocation Matrix:** None  
**Topcoded:** No  
**Module 2002 and earlier:** Separate data file - see note.  
**Module 2003 and later:** newhouse  
**Unit of observation:** HOUSEHOLD  
**Present in survey year(s):** 2003N, 2004MSA, 2005N  

*Notes:*  
The question was revised in 2005 from the following:  
In the past 12 months did you receive SSI/AFDC/other welfare?  

*Conditions not in universe:*  
1 : [NOT occupied interview]
The maximum number of upgrades shown in the flat file is 16. There is a small number (less than .03% of those responded to the question) of observations where the number of upgrades is greater than 16. For information on all upgrades please refer to the HOMEIMP file. In 2005, the coding for the carpeting options was changed with Option 51 becoming obsolete and Option 52 reworded. Previously Option 52 read: Added wall to wall carpeting over finished floor.
VOTHER =

-10000:999997  -$10,000-$999,997
B  Not applicable

Type: Numeric
Edit flag variable: JVOTHR
Allocation Matrix: Regression based
Topcoded: Yes
Module 2002 and earlier: Separate data file - see note.
Module 2003 and later: newhouse
Unit of observation: HOUSEHOLD
Present in survey year(s): 2003N, 2004MSA, 2005N

Notes:
Topcoded at 100,000. Listed topcode appears on microdata.
Bottomcoded at -10,000. Listed bottomcode appears on microdata.
In surveys prior to 2005, the Census Bureau's practice was that if a household listed no sources of nonlabor income, VOTHER was coded as blank, not zero. Similarly, if a person had no labor income, SAL was coded as blank. Beginning in 2005, these became zero values instead.

Conditions not in universe:
1 : [NOT occupied interview] ; OR
2 : [Occupied interview] AND [(Did NOT receive income from business/farm/ranch and Did not receive social security income or pension and Did NOT receive interest from savings, cd, etc. and Did NOT receive dividends from stock and Did NOT receive rental income and did NOT receive ssi, afdc, other welfare and Did NOT receive alimony or child support and Did NOT receive workers company or other disability and Did NOT receive unemployment /vet. Payments/other income)]
Appendix A: About the American Housing Survey

The American Housing Survey (AHS) can be used to answer many questions about housing units and households in the United States. The AHS provides data on apartments, single-family homes, mobile homes, vacant homes, family composition, income, housing and neighborhood quality, housing costs, equipment, fuels, size of housing unit, and recent movers. The survey started in 1973 and has had the same core sample since 1985, which provides a panel data series on homes and household changes over the years.

The national survey is conducted in every odd-numbered year, collecting data from a fixed sample of about 50,000 homes, and adding newly constructed units as well. The metropolitan survey is conducted in even-numbered years, cycling through a set of 41 metropolitan areas, surveying each one about once every six years. A list at the Census Bureau web site, http://www.census.gov/hhes/www/housing/ahs/metrodates.html, shows which areas are covered in each metro survey. In addition, the six largest metropolitan areas are surveyed every four years (1995, 1999, 2003) as a supplement to the national survey.

The U.S. Census Bureau (Census) conducts the surveys in person and by telephone for the U.S. Department of Housing and Urban Development.

Changes in the 2005 AHS

There were three major changes in the 2005 AHS:

- A new system for collecting and imputing income data.
- A new sample of manufactured (mobile) homes
- A new sample of assisted living units

In addition, the dataset has these new or changed items:

- Type of manufactured (mobile) housing unit (MOBILTYP).
- Access to units without requiring steps (NOSTEP).
- Whether assistive services are provided to households in multifamily structures (ASSTSERV).
- Whether personal services are provided to households in multifamily structures (PERSERV).
- Revised coding of the same household variable (SAMEHH).

See the appropriate variable entries for details.

Income

Before 2005, the AHS field representatives (FRs) collected these data from each household:

1. Wage and salary amounts from each family member (SAL).
2. Whether or not any family member received income from a variety of specified non-wage sources (various variables beginning with Q...).
3. The total amount of non-wage income received by family members (VOTHER).
4. The total amount of wage and non-wage income received by non-family members of the household (recorded in SAL, although this included non-wage income).

The AHS dataset included two recoded income variables, ZINC (total family income) and ZINC2 (total household income).

Beginning in 2005, the FRs collect these data:

1. Wage and salary amounts from each person, including family and non-family household members (SAL).
2. Whether or not each person receives income from a variety of specified non-wage sources (variables beginning with PQ...). Note: the organization of the sources has changed as well.
3. The amount of income each person receives from each non-wage source. The dataset reports the total non-wage income (PVOTHER).

The dataset still includes ZINC, ZINC2, and VOTHER. A new variable is VOTHER2, total household non-wage income.

Because of the new system of collecting income data, the 2005 AHS also implements a new system of imputing missing values for the income variables. This new system uses an upper-triangular regression approach to populating and applying hot deck vectors. Technical details concerning this method will be published in a separate document.

In addition, in previous surveys the practice was to code SAL and VOTHER to missing values if the person or family had no income of the appropriate type. In 2005, these variables are coded as zero. This also applies to the new variable, VOTHER2.

Manufactured (Mobile) Home Sample

The Census Bureau updates the AHS sample every time to include new housing units added to the stock since the previous survey. The updating procedure is known to be less effective in detecting new manufactured housing, particularly those units placed on private lots instead of manufactured housing communities. To compensate for this, the Census Bureau reinforced the 2005 sample by a new sample of manufactured housing, drawn from the 2000 decennial census.

Assisted Living Sample

The definition of a housing unit has been modified in recent years. The earlier definition stipulated that, among other things, the residents of a housing unit had to eat their meals separately from others. This had the effect of excluding units in assisted living communities, where meals are served communally (but which meet the other elements of the definition). In
order to pick up older units, which would be included in the new definition but not the old, the AHS drew a sample of likely units from the decennial census. The FRs then gave the selected addresses a preliminary screening to determine if they met the definition of a housing unit. Those that did were added to the AHS sample.

**Changes in the 2003 AHS**

The two major changes in the 2003 survey are race coding and rebenchmarked weights.

**Race**

In 2003, multiple race classifications were introduced, allowing respondents to classify themselves in more than one race category, and eliminating the "other" category from the edit of the answer category.

Persons were asked to self-identify race by choosing one or more of six race categories:

- White
- Black or African American
- American Indian and Alaska Native
- Asian
- Native Hawaiian and Other Pacific Islander
- Some Other Race (this category is not read or displayed to respondents)

The 2003 American Housing Survey uses the complete Current Population Survey persons' edits, placing respondents in one of 21 possible race categories (see HHRACE or RACE). These edits do not allow "other" entries in race, but allocate one of the five specified response categories to those people reporting "other race." Previously many Hispanic householders (about 30 percent in 2001) stated that they were "other race," and 78 percent of the "other" race householders in 2001 were Hispanic. In 2003, although people may have reported themselves as "other" race, the edits allocated them to a different race category. So while over 7,000 people (6,100 of whom were Hispanic), said they were "other" race, the edits assigned a category of "white only" to 92 percent of the Hispanics who had reported "other race." This ratio corresponds to the responses of Hispanics who do report a race category.

**Weighting**

In 2003, the independent estimates (control totals) used to produce the weights are based on the Census 2000 with an estimate of change since then. This 2000-based weighting produces, on average, estimates that are about 1.0 percent lower then 1990-based weighting.

The 2003 AHS estimates are not available using 1990-based weighting. For comparative purposes 2001 data were produced using 2000-based weighting (the original data used 1990-based weighting). As can be seen in the table below, the switch from 1990-based to 2000-based weighting produced a 1.0 percent lower estimate for 2001 at the United States level. The
The effect of the weighting change ranged from a 2 percent drop in the West to 2 tenths of a percent increase in the Northeast.


**Table:** Total Housing Units in 2001 from the American Housing Survey Using 1990-based and 2000-based Weighting

<table>
<thead>
<tr>
<th>Area</th>
<th>2000-based weighting (revised)</th>
<th>1990-based weighting (as published)</th>
<th>Difference</th>
<th>Percent Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>118,196,000</td>
<td>119,117,000</td>
<td>-921,000</td>
<td>-1.0</td>
</tr>
<tr>
<td>Northeast</td>
<td>22,382,000</td>
<td>22,347,000</td>
<td>35,000</td>
<td>0.2</td>
</tr>
<tr>
<td>Midwest</td>
<td>27,396,000</td>
<td>27,748,000</td>
<td>-352,000</td>
<td>-1.3</td>
</tr>
<tr>
<td>South</td>
<td>43,466,000</td>
<td>43,571,000</td>
<td>-105,000</td>
<td>-0.2</td>
</tr>
<tr>
<td>West</td>
<td>24,953,000</td>
<td>25,450,000</td>
<td>-497,000</td>
<td>-2.0</td>
</tr>
</tbody>
</table>

**Changes in the 2001 AHS**

Several changes were made in the 2001 AHS data file that are reflected in the codebook.

The 2001 AHS data includes new variables containing information from the regarding mortgages, lines of credit, citizenship, nationality, and country of birth.

Data at the household level of observation from three files—household, toppf, and weight—has been merged to one new file—newhouse. In addition, information for the head of the household from the person level has also been included. This consolidation enables users to study household level data more extensively without having to merge files. The codebook lists both modules. The “file flattening program” has been updated to work with this change.

In December 2002, HUD and Census released a new dataset in order to add a variable, WGT90GEO. The new variable is an alternative weight for AHS records. This new weight is adjusted for 1990 metropolitan geography, as opposed to the standard weight, which is based on 1980 geography. This new weight is provided to allow matching to the printed reports. Both weights sum to national control totals for total units for 2001. Totals for all units will match when computed with both sets of weights, although occupied unit totals and any breakdown do not match. Additional information on how to use the new weight is described in the beginning of the chapter on Sample status, weighs, interview status.

**Evolution of AHS in 1997 and later**

*Note: This information summarizes text included in the Documentation of Changes in the 1997 American Housing Survey available on the HUD USER (http://www.huduser.org/) Web site.*
Data Collection

In 1997, the Census Bureau changed from the existing survey process to a paperless system. This new system - Computer Assisted Personal Interviewing (CAPI) - was implemented to accomplish a number of goals. First, the system was intended to make the interviewing process faster and more accurate. The pattern of questions posed to respondents is no longer left up to the interviewer with CAPI; the computer now makes those determinations. CAPI automatically follows the question skip pattern, thus speeding up the interview and ensuring that respondents are asked the proper questions. Second, the conversion was intended to reduce costs and speed the release of data to the public. The information is entered directly into the system, so it is no longer necessary to enter data from the paper survey. This process also reduces the introduction of errors that generally occur during the data entry process. Finally, CAPI was also implemented in an effort to reduce the burden on respondents with some questions asked only once and then verified in later years. This process is only used for variables thought to be fairly constant over time. This technique, also known as “dependent interviewing,” can lead to significantly faster interviews and additional data reliability in the future. This technique was partially introduced in 1997 and fully implemented in 1999.

New Data Processing Structure

Along with new data entry procedures, the AHS data are now manipulated and processed using a completely new set of software. In years prior to 1997, Census manipulated the data using custom FORTRAN programs developed internally, running on a UNISYS mainframe. In 1997, Census moved the entire processing of the AHS into SAS running on SUN Microsystems workstations. This change to SAS necessitated redesigning the processing system and writing new programs to produce the tables in the printed report. As part of the conversion, Census designed their programs to take advantage of some of the special features and functions available in SAS, which in turn led to changes in variable codes.

New Data Structure

Following the changes in data entry and processing, the Census Bureau took advantage of the flexibility of the SAS software to generate the output data files in a new format. Prior to 1997, the public use file (PUF) of the AHS was a single text (ASCII) file with a “flat” data structure. In such a file, each housing unit's information is contained on a single logical record. The file has a set number of characters for each observation with each variable having a fixed location in the file. This file format that had been established many years ago, however, and was not Year 2000 (Y2K) compliant - all variables containing years were allocated only two digits rather than the four digits required. In the process of changing the data structure to make the data file Y2K compliant, Census took advantage of the opportunity to enhance the data format in other ways as well.

The “raw state” of the AHS data in 1997 and 1999 was a collection of 10 files, each containing data in a different format or layout. In the 2001 survey, the Census Bureau combined contents of the weight, toppuf, and household files into a new file, called newhouse. Now, all of the household level observations are in the same file. Each record type corresponds to one or more module(s) in the data collection instrument or processing. This new file format removes
the issue of fixed variable lengths and allows for a wider range of values. In addition, the new
file format corresponds to the actual data collection process. The 2001 files are:

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• HOMIMP – questions about upgrades and remodeling</td>
<td>• HOMIMP – questions about upgrades and remodeling</td>
</tr>
<tr>
<td>• JTW – journey to work or commuting information</td>
<td>• JTW – journey to work or commuting information</td>
</tr>
<tr>
<td>• MORTG – mortgage information</td>
<td>• MORTG – mortgage information</td>
</tr>
<tr>
<td>• NEWHOUSE – Household-level information, data recodes, unit characteristics, and weighting information, 2001 data only</td>
<td>• HOUSEHLD – household level information (on internal Census data, this file is called “houshld”)</td>
</tr>
<tr>
<td></td>
<td>• TOPPUF – general unit characteristics and data recodes</td>
</tr>
<tr>
<td></td>
<td>• WEIGHT – weighting information</td>
</tr>
<tr>
<td>• OWNER – questions just for owners of rental properties</td>
<td>• OWNER – questions just for owners of rental properties</td>
</tr>
<tr>
<td>• PERSON – individual person level information</td>
<td>• PERSON – individual person level information</td>
</tr>
<tr>
<td>• RATIOV – verification of income to cost when the ratio of income to cost is outside of certain tolerances.</td>
<td>• RATIOV – verification of income to cost when the ratio of income to cost is outside of certain tolerances. (Note: This file is present beginning with the 1998 AHS metro sample. This file is not present in 1997.)</td>
</tr>
<tr>
<td>• RMOV – recent mover information</td>
<td>• RMOV – recent mover information</td>
</tr>
</tbody>
</table>

At first, the files were available only in an SAS format. Later, HUD created ASCII (text) versions of the files and made them available to users. The ASCII files are not a Census Bureau product. The ASCII versions have the same multi-file layout as the SAS versions, but differ in the coding of missing values.

The general structure of the collection of files in 1997 and later are different from the 1995 file structure and earlier versions. The files in 1997 and later are more analogous to a relational database so that it is not possible to simply merge the files together to create the flat file. Each file is based on the unit of observation for that file. A file, for example, on the housing unit structure has one observation for each housing unit while the file on people living in the housing unit has one observation for each person in the household (and so if there are multiple persons in the household, there will be multiple observations). As a result, the files have different numbers of observations depending on base unit of observation.

Users can use the raw information in its current state, develop their own programs to read the data in and convert it, or convert the data into a format that is similar to the older format. ICF Consulting has also developed a conversion program that combines the different data files into a flat-file format that is similar to that of the 1995 dataset. The final format is a SAS dataset with a similar structure to the original flat file with each observation equal to one housing unit. That
program can be found on the HUD USER Web site under the links for AHS data. The program is also included in the distribution of the data in SAS format from the HUD USER Web site. Currently, the conversion program is written in SAS and works only in SAS. AHS users not using SAS will need to convert the programs to the system they are using or use a program developed by another AHS user. The AHS electronic mailing list exists, in part, to facilitate such exchanges. The Census Bureau and HUD do not officially support the flat file format. Further discussion on this topic can be found under “Discussion of the File Flattening Program.”

**Missing values**

One of the changes in the 1997 AHS is the coding of missing values. Previously, missing values were general coded as all 9’s, and then counting down by one from there. For example, 9999=Not applicable, 9998=Not answered, etc. There were generally only two possible values. One of the improvements in 1997 is the ability to distinguish among a variety of reasons for missing values.

The 1997 AHS changed the coding of missing values by taking advantage of the SAS missing value functions. Analogous missing values are also present in the ASCII version of the microdata.

In the SAS data files, the missing values are as follows:

- **B** = Not applicable
- **D** = Don’t Know
- **R** = Refused
- **Blank or .** = Not reported

When the range of valid values contains two or more digits or the largest valid value is greater or equal to 6, then the equivalent in the ASCII text version of the data are:

- **-9** = Not applicable
- **-8** = Refused
- **-7** = Don’t Know
- **-6 or Blank** = Not reported

Otherwise, when the valid values for a variable only has one digit and the largest valid value is less than six, then the coding for missing variables is:

- **9** = Not applicable
- **8** = Refused
- **7** = Don’t Know
- **6 or Blank** = Not reported

This change in the coding of missing values means that programs developed to use previous years of AHS data may need to be revised to run properly and accurately. If programs are not adapted, the program may crash, report errors, or produce erroneous results.
Topcoding and Other Confidentiality Measures

Extreme high or low values for a characteristic may be able to be linked to an individual household, and so in a limited number of circumstances, the Census Bureau modifies the public use microdata to reduce the possibility of identification. As a result, a number of the variables on the AHS public use microdata files are topcoded and/or bottomcoded to preserve the survey respondent's confidentiality. “Topcoding” refers to adjusting the values at the upper end of a distribution (above a certain threshold) while “bottomcoding” refers to adjusting the values at the bottom end of a distribution.

Note: When producing the AHS printed reports, the Census Bureau uses data that has not been topcoded. As a result, for items involving topcoded variables it may not be possible to replicate the printed report results exactly.

Currently, variables are topcoded in a number of different ways. The threshold used for changing values and the substituted new values vary depending on the variable. These could include: 97th percentile, 99.5th percentile, or a predetermined value. In different years, different topcoding levels may be used depending on the characteristics of the data. Some variables are topcoded using the topcode of a different variable. For each variable, the codebook notes whether or not variables are topcoded, and also notes which method was used.

In general, for data for 2001 and later, all values above a variable’s topcode threshold percentile were replaced with the mean of all values above this threshold percentile. Exceptions are explained in the Notes section for each variable that is topcoded differently. In contrast, in 1997 to 1999, all values above a variable’s topcode threshold percentile were replaced with the greater of either the threshold percentile or the highest topcoded values for 1985 and later years.

The topcodes are calculated differently for the AHS-National and the AHS-Metropolitan surveys. The topcodes are calculated using the entire data file for the AHS-National except where noted below. In the AHS-Metropolitan survey, the topcodes are calculated uniquely for each MSA that is enumerated in the survey year.

Other notes about the topcoding/bottomcoding operation

1. Number of cases used to compute the mean for the topcodes
   The Census Bureau’s Disclosure Review Board’s policy is that there must be at least three cases included in the calculation of this mean. It is not unusual in the AHS surveys, particularly in the AHS-Metropolitan survey, for a variable’s universe of cases to be so small that there is not a minimum of three cases greater than or equal to the topcode predetermined or calculated for that variable. In these instances, the value of the topcode is lowered until there are at least three cases that can be included in the calculation of the mean. In the rare instances where there are not three eligible cases in the entire universe for a variable, no topcode is used at all. In the AHS-Metropolitan survey, there are occasions where a variable may have a large enough universe to obtain at least three cases for the mean in some MSAs, but not in others. When this happens, the topcode and its related mean are calculated across all MSAs enumerated
in that survey year.

2. **Longitudinal topcodes**
   Topcodes for variables that describe the physical characteristics of housing units that are not likely to change very much over time are compared to topcodes used in previous enumerations of the AHS survey. The larger of the topcode calculated in the current survey year and the largest topcode ever used in a previous survey year is the topcode that will be used for the current survey year. The variables that fall into this category are: CLIMB, FLOORS, LOT, NUNITS, and UNITSF.

3. **Special topcoding of mortgage data**
The Disclosure Review Board decided that the following variables must not sum to more than the topcode for the variable VALUE: AMMORT, AMMRT2, AMMRT3, AMMRT4, HEBAM1, HEBAM2, HEBAM3, HECR1, HECR2, HECR3. If the sum of these variables does exceed the topcode for VALUE, the variables are changed to ensure the sum is less than or equal to the topcode for VALUE.

**Other Confidentiality Measures Used**

In addition to topcoding and bottomcoding variables, a number of other variables on the public use microdata file are reviewed and possibly changed to protect the respondent's confidentiality. The Census Bureau requires that no geographic areas in a sample survey containing less than 100,000 in population be identified on a public use microdata file. The AHS public use microdata files contain a number of geographic variables. The Census Bureau take steps to ensure that no combination of these geographic variables will identify an area with a population less than 100,000 by either suppressing or changing the values of one or more of these variables. Likewise, steps are taken to eliminate rare events that could allow a respondent to be identified. Details documenting the variables affected are described next.

**Geographic variables changed and/or suppressed to comply with the 100,000 population rule**

These variables are changed and/or suppressed in the AHS-National survey:
- CMSA
- DEGREE
- METRO3
- SMSA

These variables are changed and/or suppressed in the AHS-Metropolitan survey:
- COUNTY
- LONGIT
- METRO
- PSUDOTCT
- STATE
Appendix B: Definitions

The definitions are alphabetized by the titles used in summary tables. Some cross references are provided, and if a specific topic is not located, try related topics. The definitions apply to summary tables, and also to the computer files ("microdata"), unless they are marked "not applicable."

Adults and single children under 18 years old. See "Household composition."

Age of householder. The classification refers to the age reported for the householder as of that person's last birthday.

Age of other residential buildings within 300 feet. The respondent was asked to describe the age of other residential buildings within 300 feet of the sample unit. The responses were then classified as: "Older," "Newer," "About the same," or "Very mixed." "Very mixed" indicates that the ages vary. If there are no other residential buildings within 300 feet, "No other residential buildings" is marked.

Amenities. See "Selected amenities."

Amount of savings and investments. These data are collected only for families and primary individuals with total incomes of $25,000 per year or less, to indicate how many have substantial assets in spite of their low incomes. Savings include savings in a bank, other financial institution, or money market account. Other investments include stocks, bonds, rental properties, second homes, real estate, antiques, art, certificates of deposit, IRA or KEOGH accounts, and commodities. Investments exclude the primary residence and its furnishings, and cars.

Annual taxes paid per $1,000 value.

Books. Real estate taxes paid per $1,000 value of the house (and lot, except on mobile homes) are presented. Medians for taxes per $1,000 value are rounded to the nearest dollar.

Microdata. Not applicable, can be calculated from taxes and value.

Bars on windows of buildings. The respondent was asked if any of the buildings within 300 feet of the sample unit have metal bars on the windows. The condition of the windows has no bearing on this item. The windows might be in perfect condition, but the bars might be there to protect against vandalism. Windows that are boarded up or covered with metal sheeting are not included.

Bathrooms. See "Complete bathrooms."

Bedrooms. The number of bedrooms in the housing unit is the count of rooms used mainly for sleeping, even if they also are 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 or designed as bedrooms, such as a living room with a hideaway bed or a den or sewing room, 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.

**Bodies of water within 300 feet.** These questions determine the proximity of the respondent's property to bodies of water such as ponds, lakes, rivers, or ocean. Swimming pools and temporary pools of water are not included in this definition. The respondent was also asked if the property is waterfront property and whether the property is on a flood plain.

**Building and ground maintenance.** Renters were asked their level of satisfaction with the maintenance of the grounds and building in which they live. The responses could be “completely satisfied,” “partly satisfied,” “dissatisfied,” or “landlord not responsible for ground maintenance.”

**Building neighbor noise.** Respondents in multiunit buildings were asked about noise heard through floors, walls, or ceilings of their units. Respondents were also asked about the frequency of noise. The survey also asked the respondents' opinions of the loudness of noise as well as whether it was bothersome or not bothersome.

**Buildings.** See “Bars on windows of buildings,” “Common stairways,” “External building conditions,” “Year structure built.”

**Business.** See “Income,” “Other activities on property,” “Rooms.”

**Cars and trucks available.** Included are passenger cars and station wagons owned or regularly used by one or more household members and ordinarily kept at home. Company cars are counted (if used regularly for nonbusiness purposes and kept at home), as are taxicabs (if they are owned by a household member and kept at home). The total number of vehicles is not published, since cars are counted separately from “trucks or vans.” In the books, to obtain a count of all units lacking cars specifically, the lines “no cars, trucks, or vans” and “other households without cars” must be added together.

Included are pickups and small panel trucks of one-ton capacity or less, and small vans that are owned or regularly used by one or more members of the household and ordinarily kept at home. Company trucks and vans are included if used regularly for nonbusiness purposes and kept at home. To obtain a count of all units lacking trucks or vans, the lines “no cars, trucks, or vans” and “with cars, no trucks or vans” must be added together.

Except for units falling in the category “no cars, trucks, or vans,” all units will fall into two categories. For example, a unit with one car only would fall both in the category “1 car with or without trucks or vans” and “with cars, no trucks or vans.”

**Census.** See “Comparability with Census of Population and Housing data in 1990.”

**Central cities.**
National books and microdata. Since 1985, the National AHS has used the official list of central cities published on June 27, 1983, by the Office of Management and Budget as OMB Bulletin 83-20. That list was developed from definitions published January 3, 1980, in the Federal Register, Volume 45, pages 956-963. AHS still uses these 1983 boundaries to measure change consistently over time.

Books and microdata. Most metropolitan statistical areas had at least one central city, which was usually its largest city. In addition, any city with at least 250,000 population or at least 100,000 people working within its corporate limits qualified as a central city. Smaller cities were also identified as central cities if they had at least 25,000 population and (1) had at least 75 jobs for each 100 residents who were employed, and (2) 60 percent or fewer of the city's resident workers commuted to jobs outside the city. Finally, in certain smaller metropolitan statistical areas, there were places with between 15,000 and 25,000 population that also qualified as central cities, because they were at least one-third the size of the metropolitan statistical area's largest city and met the two commuting requirements. See also “Places” and “Urban and rural residence.”

Change in housing costs. Housing costs include mortgage and rent payment, real estate taxes, insurance, upkeep of place, utilities, homeowner membership fees, land rent, and mobile home park fees. For the householder and those who moved with the householder (from the same place at the same time), comparison is made of the share paid in the previous unit with the share paid in the present residence. The wording in the questionnaire is “their share, if not whole household,” so there may be some ambiguity for someone who used to pay 50 percent of $100 and now pays 50 percent of $600, but this is intended to count as increased rent.

Choice of present home and home search. These data are shown for units where the respondent moved during the 12 months prior to the interview. The respondent was asked a three-part question on choice of present home: (1) whether the respondent looked at both houses/mobile homes and apartments; (2) the reasons the respondent chose the present house or apartment; and (3) the main reason the present house or apartment was chosen. The distribution for choice of present home may not add to the total, because the respondent was not limited to one response. See “Reasons for leaving previous unit.”

Choice of present neighborhood and neighborhood search. These data are shown for units where the respondent moved during the past year. The respondent was asked a three-part question on choice of present neighborhood: (1) whether the respondent looked for a house/apartment in any other neighborhood; (2) the reasons the respondent chose the present neighborhood; and (3) the main reason the present neighborhood was chosen. The distribution for choice of present neighborhood may not add to the total, because the respondent was not limited to one response.

Common stairways. Common stairways are usually used by the occupants and guests to get to the doors of the unit. They may be either inside the structure or attached to the outside of the building. The statistics on common stairways are presented for multiunit structures with two or more floors and common stairways. The figures reflect the physical condition of the stairway: the presence of loose, broken, or missing steps or stair railings.

Commuting. See “Journey to work” and “Neighborhood conditions and neighborhood services.”
Comparability with Census of Population and Housing data in 1990. The concepts and definitions are largely the same for items that appear in the 1990 Census of Population and Housing with the following main exceptions.

In the AHS, recent movers are householders that moved into their unit during the 12 months prior to the interview. In the 1990 Census of Housing, mover households were those that moved between January 1, 1989, and March 31, 1989, a period of 15 months or less.

In the AHS, units are classified as new construction if the unit was constructed 4 years or less from the date of the interview. In the 1990 census, units are classified as new construction if constructed in 1985 through 1990.

Data on poverty level in the 1990 census do not contain the income of household members unrelated to the householder. In the AHS, data on poverty level include the income of all household members whether or not they are related to the householder (see “Poverty status”).

Income data in the AHS are based on income for the 12 months prior to interview for those household members 16 years and older. The 1990 census income data are for calendar year 1989 and for income of household members 15 years and older.

Differences between the AHS data and the 1990 census also may be attributed to the method of data collection (mailed questionnaires in the census, personal and telephone interviews in the AHS); differences in processing procedures and sample designs; the sampling variability associated with the sample data from both the AHS and the census; and the nonsampling errors associated with the survey estimates and the census data.

A variety of data on mortgages and owner-occupied properties are presented in the Residential Finance Survey, a specialized study done as part of the 1990 census. Differences include the fact that the basic unit of tabulation in the AHS is the housing unit, and in Residential Finance publications it is the property. Also, all the data in the AHS are provided by the occupant; in Residential Finance publications, mortgage is reconciled with responses from the lender.

Comparability with Current Construction Reports from the Survey of Construction. The U.S. Census Bureau issues several publications under the series title, Current Construction Reports. The data for these reports are primarily from the Survey of Construction.

The major difference with the AHS is that the Survey of Construction shows counts and characteristics of housing units in various stages of construction through completion. The AHS shows only counts and characteristics of completed housing. Additional differences may be attributed to factors such as the sampling variability and nonsampling errors of the data from the two surveys, survey procedures and techniques, and processing procedures.

Complete bathrooms. A housing unit is classified as having a complete bathroom if it has a room or adjoining areas with a flush toilet, bathtub or shower, a sink, and hot and cold piped water. A half bathroom has hot and cold piped water and either a flush toilet or a bathtub or shower, but does not have all the facilities for a complete bathroom.
**Conditions of streets.** The respondent was asked if any of the streets within 300 feet of the sample unit needed major repairs. Major repairs needed include large potholes, badly crumbling or deteriorating shoulders and roadsides, and deep ruts. Minor repairs include small cracks, shallow holes, or missing minor surfacing.

**Condominium and cooperative fee.** A condominium fee is charged to the owners of the individual condominium unit on a regular basis. The fee covers any operating and maintenance costs of the common property; for example, halls, lobby, parking areas, laundry room, swimming pool, as well as related administrative costs, such as utilities billed communally and management fees.

A cooperative maintenance fee (also called carrying charge) is a fee charged to the owners of the cooperative on a regular basis. It covers a share of the annual amount paid by the cooperative for real estate taxes, mortgage interest, and operating cost. In the books, medians for condominium fees and cooperative fees are rounded to the nearest dollar.

**Consolidated metropolitan statistical areas.** A consolidated metropolitan statistical area (CMSA) is made up of at least two primary metropolitan statistical areas. The microdata identify specific CMSAs. See Metropolitan areas.

**Construction.** See “Comparability with Current Construction Reports from the Survey of Construction” and “Year structure built.”

**Cooling degree days.** See “Heating and cooling degree days.”

**Cooperatives and condominiums.** A cooperative is a type of ownership whereby a group of housing units is owned by a corporation of member-owners. Each individual member is entitled to occupy or rent out an individual housing unit and is a shareholder in the corporation that owns the property, but does not own the unit directly. The corporation may have a mortgage on the whole group of units. The member may have a loan or mortgage to buy his or her shares in the corporation.

A condominium is a type of ownership that enables a person to own an apartment or house directly in a project of similarly owned units. The owner's name is on the deed, and the owner may have a mortgage on the unit occupied. The owner also may hold common or joint ownership in some or all common areas such as grounds, hallways, entrances, and elevators. Cooperative or condominium ownership may apply to various types of structures such as single-family houses, rowhouses, and townhouses, as well as apartment units.

**Cost and ownership sharing.** This item is restricted to owner-occupied housing units. Shared ownership is two or more names on a deed or title. Shared costs include only payments designated for mortgage or utility costs (not taxes or insurance), whether paid directly to a mortgage or utility company, or to household members. Not living here means that one of the people sharing the ownership or costs is not a household member.

**Cost.** See “Annual taxes paid per $1,000 value,” “Change in housing costs,” “Real estate taxes,” “Monthly housing costs,” “Other housing costs per month,” “Mortgages currently on property.”
Crime. See Neighborhood crime, a subtopic under: “Neighborhood conditions and neighborhood services."

Crop sales.

National microdata. Data on sales of $1,000 or more of agricultural products during the 12-month period prior to the interview were collected in rural areas.

Metropolitan microdata. Not applicable.

Current income. Upon completion of the detailed income questions, respondents were asked, “Is your total family income THIS MONTH about the same as it was a year ago?" “About the same" was defined as within 10 percent, or just cost of living adjustments. If the respondent answered “no," a second question was asked, “What do you expect your total family income to be in the NEXT 12 MONTHS?"

Current income for families and primary individuals whose most recent month's income was NOT about the same as a year ago is the “total expected family income in the NEXT 12 MONTHS." The majority of respondents answered “about the same," and their current income is therefore defined as the total income of the family and primary individual in the past year.

Current income is not published separately. It is used in the calculation of "Ratio of value to current income," and "Monthly housing costs as percent of current income." It is felt that respondents who recently entered the job market, retired, changed jobs, or moved often had a previous year’s income that is too low or high to compare to housing costs.

Current interest rate. This item refers to the annual percentage rate in effect as of the date of the interview, not the rate when the mortgage was made, nor any imminent changes of which the respondent may be aware. In the books, medians for current interest rate are rounded to the nearest tenth of a percent.

Current total loan as percent of value.

Books. This percentage is computed by dividing the outstanding principal amount by the value of the housing unit. Medians for loan as a percent of value are rounded to the nearest tenth of a percent.

Microdata. Not applicable.

Dependent interviewing. Dependent interviewing is the process by which data from surveys conducted in previous years are used instead of, in addition to, or to verify data collected during the current interview. The first use of dependent interviewing in AHS was for the item “Year structure built" in the year 1984.

Description of area within 300 feet. The respondent was asked to describe the area within a half block (defined as within 300 feet) of the sample unit. The categories include: single-family detached houses, single-family attached houses or low-rise (1-3 story) multiunit buildings, mid-
rise (4-6 story) multiunit buildings, high-rise (7-or-more story) multiunit buildings, and mobile homes.

The category "Commercial and institutional; industrial buildings or factories" includes all varieties of nonresidential structures--offices, banks, hospitals, prisons, pumping stations, water treatment plants, factories, parking garages, churches, hotels, restaurants, barns, and junk yards.

"Residential parking lots" exclude driveways of single-family homes and parking garages where parking is on more than one level. "Body of water" refers to categories such as lakes, ponds, streams, reservoirs, and rivers. Swimming pools and temporary pools of water are excluded.

"Open space, park, woods, farm, or ranch" include cemeteries, golf courses, woods, forest preserves, vacant lots, undeveloped land, airport land, ball fields, and school fields.

**Down payment.** See "Major source of down payment."

**Educational attainment.** Data on educational attainment are derived from a question that asks, "What is the highest level of school ... completed or the highest degree ... has received?" The question on educational attainment applied only to progress in "regular" schools. Regular schools include public, private, and parochial elementary and high schools (both junior and senior), colleges, universities, professional, vocational, trade, and business schools. Schooling in other than regular schools is counted only if the credits obtained are regarded as transferable in the regular school system.

The category "high school graduate" included people who received either a high school diploma or the equivalent; for example, passed the Test of General Educational Development (GED) and did not attend college. The category "Associate degree" includes people whose highest degree is an associate degree in (1) an occupational program that prepares them for a specific occupation, and the course work may or may not be creditable toward a bachelor's degree or (2) an academic program primarily in the arts and sciences, and the course work is transferable to a bachelor's degree. Some examples of professional degrees include medicine, dentistry, pharmacy, and law.

In the books, to obtain the total number of householders who are high school graduates, add 1) high school graduates (includes equivalency), 2) graduates with some college, no degree, 3) with an associate degree, 4) with a bachelor's degree, and 5) with a graduate degree. To obtain the total number of householder graduates with a bachelor's degree, add (1) with a bachelor's degree and (2) with a graduate or professional degree. The microdata have similar information on other household members aged 14 years and older. See also "Neighborhood conditions and neighborhood services."

**Elderly.**

**Books.** Data for elderly include all households with householders aged 65 years and older. Note that this definition is narrower than in Department of Housing and Urban Development housing programs, which count as elderly all households where the householder or spouse is 62 or older, or has a disability.
**Microdata.** Not applicable; data can be classified at any age.

**Electric fuses and circuit breakers.** These statistics are presented for occupied housing units. The data show whether an electric fuse has blown or circuit breaker has tripped in the home in the 3 months prior to the interview, or while the household was living in the unit if less than 3 months. A blown fuse or tripped breaker switch results in the temporary loss of electricity until the fuse is replaced or the breaker switch reset. Blown fuses inside major pieces of installed equipment (such as some air conditioners) are counted as blown fuses or tripped breaker switches. The item may identify inadequate wiring, but it also happens commonly when people move into houses and are unfamiliar with which items can be turned on at the same time.

**Electricity.** See “Monthly costs for electricity and gas.”

**Elevator on floor.** Statistics are shown for housing units in structures with two or more floors that have one or more passenger elevators in working condition on the same floor as the sample unit. Elevators used only for freight are excluded.

**Equipment.** This item refers to selected equipment that is not shared with other households. Refrigerators, burners, ovens and disposals are counted only if they are in working order or the household plans to have them repaired or replaced soon.

**Complete kitchen facilities.** A housing unit has complete kitchen facilities when it has all of the following: (1) kitchen sink; (2) burners, cook stove, or microwave oven; and (3) refrigerator. These terms are further defined below.

The same criteria are used for occupied and vacant units in determining complete kitchen facilities. In some areas of the country it is common for the occupant to bring a refrigerator. In these cases the vacant unit, lacking a refrigerator, has an incomplete kitchen.

**Kitchen sink.** Only a sink in the unit or on an enclosed porch is counted, but it does not matter whether it is in the kitchen. However a bathroom sink does not count as a kitchen sink.

**Refrigerator.** It may or may not have a freezer. Kerosene refrigerators are counted, but not ice boxes.

**Microwave oven.** Data for microwave ovens were collected only if the respondent did not report having a cooking stove with oven, or burners. Prior to 1997, the data collected included all types of ovens except toaster ovens.

**Burners.** Data for burners were collected only if the respondent did not report having a cooking stove with oven. Burners built into a stove or counter top are counted, as are burners in a wood-burning stove.

**Cooking stove.** The cookstove can be mechanical or wood-burning.

**Dishwasher.** Counter top dishwashers are not counted.

**Washing machine.** Any kind with a motor is counted.
**Clothes dryer.** Only clothes dryers with motors are counted, not hand-operated wringers or hand-turned spin dryers.

**Disposal in sink.** A disposal is a motorized device that grinds waste so it can flow through the waste water pipe.

**Trash compactor.** Only built-in motorized trash compactors are counted.

**Air conditioning.** Air conditioning is defined as the cooling of air by a refrigeration unit; excluded are evaporative coolers, fans, or blowers that are not connected to a refrigeration unit. A room air-conditioning unit is an individual air conditioner that is installed in a window or an outside wall and generally intended to cool one room, although it may sometimes be used to cool several rooms. A central system is a central installation that air conditions the entire housing unit or major portions of it. 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.

**External building conditions.** The external condition of the building that contains the sample unit was determined by direct questions asked of the respondent. The categories were grouped into the following: roof, walls, windows, and foundation.

**Roof.** A “sagging roof” is a critical defect indicating continuous neglect, or deep or serious damage to the structure. Only roofs with substantial sagging were included. “Missing roofing material” includes rotted, broken, loose or missing shingles, tiles, slate, shake, and tin, caused by extensive damage from fire, storm, or serious neglect. “Hole in roof” occurs when the missing roof materials expose the interior of the unit directly to weather. Holes caused by construction activity were not counted unless the construction had been abandoned.

**Walls.** “Missing bricks, siding, other outside wall material” applies to the exterior wall (including chimney) of the structure. Those defects may have been caused by storm, fire, flood, extensive neglect, vandalism, and so forth. Materials may include clapboard siding, shingles, boards, brick, concrete, and stucco. The missing materials do not necessarily expose the interior of the unit directly to weather. Missing materials resulting from construction activity were not counted unless construction had been abandoned. “Sloping outside walls” is a critical defect indicating continuous neglect or serious damage to the structure. Only walls with substantial sagging were included.

**Windows.** “Boarded-up windows” have been sealed off to protect against weather or entry and include windows and/or doors covered by board, brick, metal, or some other material. “Broken windows” indicate several broken or missing window panes. “Bars on windows” are to protect against unlawful entry. The condition of the windows has no bearing on this item. The bars can be vertical, horizontal, or a metal grating. Windows completely covered with metal sheeting are not included in this category.

**Foundation crumbling or has open crack or hole.** This category includes large cracks, holes, and rotted, loose, or missing foundation material.
Extra unit. Extra units include units classified as usual residence elsewhere (URE), vacant units designated as occasional use, and seasonal units (excluding migratory). A series of four questions was asked concerning these units.

Reasons for extra unit owned. The following designations for the reason the unit was owned:

- Previous usual residence--never sold the unit after moving from the unit into a new permanent residence
- Recreational purposes--used for vacations, weekends, sports, and holidays, but is not anyone's usual residence
- Current investment purposes--kept currently for investment purposes regardless of why it was obtained originally
- Wishes to sell the property but has not been able to yet--the owner is currently attempting to sell the unit but has not been successful yet
- Inherited--received as an inheritance in the settling of an estate
- Some other reason--used if none of the other designations applied

Location of extra unit. Designates how close the unit is to the owner's current residence.

Nights owner spent at extra unit. Indicates how often the extra unit was used by the owner.

Nights owner rented extra unit. Determines how often the extra unit was used by people other than the owner.

Family or primary individual. While any occupant of a housing unit is called a household member, each household includes either (a) a family, which is the householder and all (one or more) other people living in the same household who are related to the householder by blood, marriage, or adoption, or (b) a primary individual, which is a householder who lives alone or with nonrelatives only. In any case the household also may include one or more roommates, lodgers, servants, or other people unrelated to the householder. These are considered members of the household but not of the family.

Married couples related to the householder of a family are included in the family and are not considered as separate families unless they reside in separate living quarters. While they are part of the family, they are also usually a subfamily (see Persons other than spouse or children).

By definition, families include the householder and at least one relative, so in the statistics on household composition, families are always included in the various categories of two-or-more-person households. Primary individuals with nonrelatives living with them also are tabulated as two-or-more-person households. Primary individuals living alone are tabulated as one-person households.

The definition of families and primary individuals is significant in that some income items are collected only for the family or primary individual; these are: source of income, current income, food stamps, savings and investments. (Source of income and amount of wages are, in fact, only for family members 16 years and older.) For other household members 16 years and older, who are not related to the householder, total income is collected for each person, but sources and current changes in income are not identified, and their income is not included in
comparisons with monthly housing costs or value. The distinction is meant to approximate whose income may be available for housing and other shared living expenses. However it is imperfect in the case of roommates who share more or less equally. See also “Household composition.”

**Farm.** See “Crop sales.”

**First-time owners.** If neither the owner nor any co-owner have ever owned or co-owned another home as a usual residence then the housing unit was reported as the first home ever owned. Previous homes purchased solely as vacation homes or homes purchased for commercial rental purposes are not considered usual residences. However, if a previously owned home was originally purchased as a usual residence and later used as a vacation home or for commercial or rental purposes, the owner is not a first-time owner.

**Flush toilet and flush toilet breakdowns.** A privy or chemical toilet is not considered a flush toilet. Flush toilets outside the unit were not counted. The statistics on breakdowns of flush toilet are shown for housing units with at least one flush toilet for the household's use only. The flush toilet may be completely unusable because of a faulty flushing mechanism, broken pipes, stopped up sewer pipe, lack of water supplied to the flush toilet, or some other reason. For households with more than one toilet, the question asked about times when all toilets were unusable.

**Food stamps.** These data are restricted to families and primary individuals with total incomes of $25,000 per year or less. Housing units are counted in these data if the householder or any relative currently living in the unit received food stamps in the past year, even at another address. Food stamps are government issued coupons that can be used to purchase food. The food stamp program is a joint federal-state program that is administered by the U.S. Department of Agriculture, state and local governments.

**Foundation.** This item is restricted to one-unit buildings and excludes mobile homes. A structure has a basement if there is enclosed space at least partially underground in which a person can walk upright under all or part of the building. The basement is under all the building if it is under the entire main structure, excluding garages, carports, and porches. Crawl space is space between the ground and the first floor of the house, but it is not high enough for a person to walk upright. A house is built on a concrete slab if it is built on concrete that has been poured on the ground. The “other” category refers to a house built on stilts or pilings (for example, beach houses), boats, and motor homes.

**Fuels.** Electricity may be supplied by above- or underground electric power lines or generated at the housing unit. Piped gas is gas piped through underground pipes from a central system to serve the neighborhood. Bottled gas is pressurized gas stored in tanks or bottles that are filled or exchanged when empty. Fuel oil is heating oil normally supplied by truck to a storage tank for use by the heating system. Kerosene or other liquid fuel includes kerosene, gasoline, alcohol, and other similar combustible liquids. Coal or coke is usually delivered by truck. Wood refers to the use of wood or wood charcoal as a fuel. Solar energy refers to the use of energy available from sunlight as a heating fuel source. Other includes briquettes made of pitch and sawdust, coal dust, waste material like corncobs, purchased steam, or any other fuel not listed.
Fuels, other house heating. These are the same types of fuels mentioned above but use in addition and/or supplementing the main house heating fuel.

Gas. See "Monthly cost for electricity and gas."

Group quarters. See "Housing units."

Halls. See "Light fixtures in public halls."

Heating and cooling degree days.

*National books and microdata.* Each degree that the average temperature for a day is below 65 degrees Fahrenheit produces one *heating degree day (HDD).* For example, if the maximum temperature is 70 degrees F and the minimum temperature is 52 degrees F, the average temperature for the day is 61 degrees, resulting in four heating degree days. A day when the average temperature is 65 or more has zero heating degree days.

Each degree that the average temperature for a day is above 65 degrees Fahrenheit produces one *cooling degree day (CDD).* For example, if the maximum temperature is 80 degrees F and the minimum temperature is 62 degrees F, the average temperature for the day is 71 degrees, resulting is six cooling degree days. A day when the average temperature is 65 or less has zero cooling degree days.

The National Oceanic and Atmospheric Administration (NOAA) provided the information on degree days, based on averages for 1951-80. Each sample unit was assigned heating and cooling degree days using average NOAA data for counties.

*Metropolitan books and microdata.* Not applicable.

Heating equipment. Data are shown for the main heating equipment and other heating equipment used in addition to the main heating equipment. More than one category of "Other heating equipment" could be reported for the same household. Only one type of equipment was reported as the "Main heating equipment."

Warm-air furnace refers to a central system that provides warm air through ducts leading to various rooms.

Steam or hot water system refers to a central heating system in which heat from steam or hot water is delivered through radiators or other outlets. It also includes solar heated hot water that is circulated throughout the home.

Electric heat pump refers to a heating and cooling system that utilizes indoor and outdoor coils, a compressor, and a refrigerant to pump in heat during the winter and pump out heat during the summer. Only heat pumps that are centrally installed with ducts to the rooms are included in this category. Others are included in wall units.

Built-in electric units refer to units permanently installed in floors, walls, ceilings, or baseboards.
Floor, wall, or other built-in hot-air unit 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 heater with flue refers to nonportable room heaters in the wall or free standing heaters that burn liquid fuel, and which are connected to a flue, vent, or chimney to remove smoke and fumes.

Room heater without flue refers to any room heater that burns kerosene, gas, or oil, and that does not connect to flue, vent, or chimney.

Portable electric heater refers to heaters that receive current from an electrical wall outlet.

Fireplaces with inserts have a fan-forced air circulation system to force the heat into the room.

Fireplaces without inserts refers to glass door fire screens or fire backs inserted in the back of the fireplace to passively reflect heat.

Cooking stove refers to gas or electric ranges or stoves originally manufactured to cook food.

Stove refers to any range or stove that burns solid fuel including wood burning, pot belly, and Franklin stoves.

Other includes any heating equipment that does not fit the definition for any of the previous definitions.

**Heating equipment breakdowns.** Statistics are shown for housing units occupied by the householder during the winter prior to the interview and refer only to the main heating equipment. The data are classified by whether the housing unit was uncomfortably cold for 24 hours or more, the number of times equipment breakdowns occurred lasting 6 hours or more, and causes for the breakdowns.

The heating equipment is broken down if it is not providing heat at its normal heating capacity through some fault in the equipment. Utility interruptions occur when there is a cutoff in the gas, electricity, or other fuel supplying the heat. Inadequate heating capacity refers to heating equipment that is providing heat at its normal capacity, but the housing unit is still too cold for the occupants. Inadequate insulation refers to air drafts through window frames, electrical outlets, or walls that are cold. Cost of heating refers to the occupants turning down their thermostat or turning the equipment off altogether to save money. This category includes utilities/fuels that are unavailable due to unpaid bills.

**Hispanic.** “Hispanic” refers to the origin of the householder, and was determined by asking respondents to identify people living in the unit who were Hispanic or Spanish American. There is no intent to include people of Brazilian or Portuguese ancestry. Hispanic people may be of any race. Most identify themselves as White or Black, as shown in Table 2-1.

Data on Hispanic households shown in the AHS are collected in the 50 states and the District of Columbia and therefore do not include households living in Puerto Rico.
**Home equity loan.** Households were asked how many home equity loans they have. Home equity loans include both revolving lines of credit and lump sums loans with a fixed repayment schedule. The respondent was not given a definition to distinguish between these and most other mortgages. However reverse annuity mortgages were defined first and excluded. Respondents were asked if each home equity loan was a line of credit or lump sum, the credit limit, current balance, the amount of last payment, and the interest rate.

**Homes currently for sale or rent.** The data are presented in the book for owner-occupied units, year-round units temporarily occupied by people who have a usual residence elsewhere, and vacant units. The classification of the unit refers to the current action of the owner. The owner may offer the unit *up for rent only, up for rent or for sale, or for sale only.* In addition, the current owner may have contracted to rent or sell the unit but the transfer has not yet taken place. Finally, the housing unit may be *not on the market* at all.

**Household.** A household consists of all people who occupy a particular housing unit as their usual residence, or who live there at the time of the interview and have no usual residence elsewhere. The usual residence is 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.

Households include not only occupants related to the householder but also any lodgers, roomers, boarders, partners, wards, foster children, and resident employees who share the living quarters of the householder. It includes people temporarily away for reasons such as visiting, traveling in connection with their jobs, attending school, in general hospitals, and in other temporary locations.

By definition, the count of households is the same as the count of occupied housing units.

**Householder.** The householder is the first household member listed on the questionnaire who is an owner or renter of the sample unit and is aged 18 years or older. An owner is a person whose name is on the deed, mortgage, or contract to purchase. A renter is a person whose name is on the lease; if there is no lease, a renter is a person responsible for paying the rent. If no one meets the full criteria, the age requirement is relaxed before the owner/renter requirement. Where the respondent is one of several unrelated people who all could meet the criteria, the interviewer may list the respondent first, so the respondent will be the householder and can answer the questions that are asked specifically about the householder, such as data on moves and income sources.

**Household composition.**

*Books.* The following categories are published in the books.

*Married-couple families.* Each household in this group includes the householder and spouse, and other people, if any, who are related to the householder and live in the household. If the householder's spouse is not present, but another married couple is present, for example daughter and son-in-law or mother- and father-in-law, the household is not counted here as a married-couple family.
**Other male householder.** This category includes households with male householders who are widowed, divorced, separated or single, or who are married with wife absent for other reasons.

**Other female householder.** This category includes households with female householders who are widowed, divorced, separated or single, or who are married with husband absent for other reasons.

**No nonrelatives.** When this phrase modifies Married-couple households, then households that include householder, spouse, nonrelatives, and other relatives, if any, are included with Other male and Other female householder, rather than with Married-couples, no nonrelatives. The data are published both ways, in the data tables, so readers can see whether their findings are affected by the presence of nonrelatives with married couples.

**Single children under 18 years old.** This category includes all household members under 18 years, whether related to the householder or not, who are not currently married (that is they have never been married, or are divorced, separated, or widowed). For example, it includes currently unmarried children of lodgers and foster children.

**Own never-married children.** This category includes any household member under 18 years old, if he or she has never been married, and is a son, daughter, stepchild, or adopted child of the householder. By definition, children of subfamilies are not children of the householder, so they are excluded from this count of own children. The data are published for both this definition of children and the definition above (based on age and current marital status), in different stub items, so readers can see whether the definition of children affects their findings.

**Microdata.** Not applicable; researchers may calculate these and other categories from the data on each person.

See also "Persons other than spouse or children" and "Family or primary individual."

**Household moves and formation.**

**Books.** Data are shown for households that moved into the present unit during the 12 months prior to the date of the interview. The distribution is further classified by (1) whether the household moved together from the same unit, from two or more units, or moved at separate times, and (2) if previous householder(s) moved into the present unit.

The total does not measure net household formation, since it omits deaths, moves to institutions, and moves abroad, and it does not show whether all occupants of the previous unit moved here; some may have stayed there, or moved elsewhere.

The categories do indicate people moving out of units where they were not the householder (divorce or children setting out on their own.), and people moving in with others (marriage, roommates, children moving from one parent to another, or to a grandparent).

**Microdata.** Not applicable; researchers may calculate these and other categories from the data on each person.
**Housing units.** A housing unit is a house, apartment, group of rooms, or single room occupied or intended for occupancy as separate living quarters.

Living quarters is a general term that includes both housing units and group quarters. Living quarters include structures intended for residential use (such as a house, apartment building, boarding house, or mobile home). Living quarters also include the following, but only if they are occupied as usual residences: (a) places such as tents, caves, boats, and railroad cars; and (b) structures intended for nonresidential use (such as rooms in a warehouse where a guard lives). Living quarters exclude quarters being used entirely for nonresidential purposes, such as a store, an office, or quarters used for storing business supplies, machinery, or agricultural products.

Separate living quarters are those in which the occupants live and eat separately from any other people in the structure and that have direct access from the outside of the structure or through a common hall, lobby, or vestibule that is used or intended for use by the occupants of more than one unit or by the general public. This means that the hall, lobby, or vestibule is not part of any unit but must be clearly separate from all units in the structure. For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible. If the information cannot be obtained, the criteria are applied to the previous occupants.

**Group quarters.** The following types of living quarters are not classified as housing units and are not covered by the AHS interviews (some are in the microdata as Noninterviews):

*Institutional group quarters* are living quarters occupied by one or more people under care or custody, such as children in an orphanage, people in a nursing home, and prisoners in a penitentiary.

*Noninstitutional group quarters* do not involve care or custody, and do not have separate living. They include college dormitories, fraternity and sorority houses, nurses' dormitories, and congregate housing for the elderly. In addition, *noninstitutional group quarters* include any living quarters that are occupied by nine or more people unrelated to the householder.

Note that institutional and commercial establishments that have single-family houses or individual apartments with direct access, where staff live and eat separately, such as some residential hotels, and units for college professors, are *housing units*. Military housing for singles is not covered, but housing where civilian family members live is, if it meets the definition of a housing unit.

*Hotels.* Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; that is, people who consider the hotel as their usual residence or have no usual residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only in those hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

*Rooming houses.* If any of the occupants in a rooming or boarding house live and eat separately from everyone else in the building and have direct access, their quarters are classified as separate housing units. The remaining quarters are combined. If the combined quarters contain
eight or fewer roomers unrelated to the householder, or a person in charge, they are counted as one housing unit. Otherwise they are noninstitutional group quarters.

New housing units. Units being built are classified as housing units (though they may be vacant), if construction has reached a point where all exterior windows and doors are installed and final usable floors are in place. Note this stage of construction is earlier than the one used in Duration of vacancy (see Vacancy, seasonality, and marketing), which measures when construction was completed.

The occupants of each housing 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 (up to the limit of eight people unrelated to the householder).

Both occupied and vacant units are counted, except that the following are excluded if they are vacant: (a) tents, caves, boats, railroad cars, and the like; (b) structures intended for nonresidential use; (c) units used for business storage (storage of personal furniture does not disqualify a unit); and (d) units unfit for human habitation (roof, walls, windows, or doors no longer protect the interior from weather, or there is positive evidence such as a sign on the house or block that the unit is to be demolished or is condemned).

Income. The survey covers total money income in the 12 months before the interview. It covers people age 16 and older (age 14 and older before 1999) currently living in the housing unit, even if they lived elsewhere during some of the previous 12 months. The figures represent the amount of income before any deductions such as taxes, Social Security, union dues, bonds, and insurance.

The figures exclude: capital gains; lump sum payments from inheritances or insurance; occasional gifts; other sporadic payments; money borrowed; tax refunds; withdrawal of bank deposits; accrued interest on uncashed savings bonds; payments between household members except wages in a family business; income “in kind'' such as free living quarters, housing subsidies, food stamps, or food produced and consumed in the home; and money from the sale of property (unless the recipient was in the business of selling such property). Figures also exclude income of people who have died or moved out of the housing unit, even if they lived in it for part of the previous 12 months.

Most data are from the respondent's replies. For people not related to the householder, the interviewer tries to ask them directly about their income, but if they are not available, the interviewer asks the respondent. Medians for income are rounded to the nearest hundred dollars.

Figures are shown separately for household income and income of families and primary individuals (see definition). Each has its own advantages. Only household income includes the income of lodgers, roommates, employees, and other household members who are not related to the householder.

Wages and salaries include income received for work performed as an employee. It includes wages, salary, piece-rate payments, commissions, tips, cash bonuses, and Armed Forces pay, but not pay that a business owner pays to herself or himself.
Business, farm, or ranch income is received from self-employment in a business, professional practice, partnership, or farm.

Social Security and pensions include pensions, survivors' benefits, and disability payments. This is not intended to include Supplemental Security Income (SSI), which is grouped with welfare, but many respondents confuse SSI and Social Security. Both come from the Social Security Administration. They used to be issued on different colored checks to minimize confusion, but now most payments are sent by electronic deposit.

Interest is money received or credited to a person's account for the use of money. Notes, bonds, deposits in banks, credit unions, savings and loan associations, money market accounts, and certificates of deposit (CDs) are the most common sources of interest.

Stock dividends are payments made by a corporation to its stockholders. These include periodic payments from an estate or trust fund, and dividends paid or credited to those who hold shares in a mutual fund.

Rental income includes the total money received from rental of property, rental from real estate, or from roomers or boarders, less all rental expenses.

Welfare or SSI includes the Supplemental Security Income Program (SSI), which is administered by the Social Security Administration, and replaces most public assistance payments that were previously made by state and local welfare agencies to low income aged, blind, and disabled persons. Welfare includes money received from local or state administered public assistance programs, old-age assistance, aid to families with dependent children (AFDC, ADC), aid to the blind or totally disabled, or other public assistance.

Alimony or child support includes as alimony, money received periodically from a former spouse after a divorce or legal separation. Child support is money received for the support of children not living with their father/mother as the result of a legal separation.

Other includes worker's compensation or other disability payments, unemployment compensation, veteran's payments, total amount that parents receive for the care of foster children in their home, money received from gambling, scholarship and fellowship money received by students for which no service or work was required, military reenlistment bonuses, and any other sources of money income not specified above.

There may be significant differences in the income data between the AHS and other surveys and censuses. For example, the time period for income data in the AHS is the 12 months prior to the interview, while other income data generally refer to the calendar year prior to the date of the interview. Additional differences in the income data may be attributed to how income questions are asked, levels of missing data (usually high on questions about income), whether missing data are estimated or ignored, sampling variability, and nonsampling errors.

Inside (P)MSAs. See “Metropolitan areas.”

Insurance. See “Property insurance.”
Interest. See "Current interest rate."

Items included in primary mortgage payment. The respondent was asked to indicate which items were included in the monthly mortgage payment besides principal and interest. These items included property taxes, property insurance, and other charges. Other charges may include disability insurance or life insurance.

Journey to work. National books and microdata. The books publish data on householders. The microdata have similar information on all workers.

Workers. Include all people aged 14 years and older who held a job in the United States, any time the week before the interview.

Householders. Householders who worked last week include householders who reported having a job in the United States, any time the week before the interview.

Principal means of transportation to work last week. This refers to the principal mode of travel used to get from home to work. People who use different means of transportation on different days of the week were asked to specify the one used most often. People who use more than one means of transportation to get to work each day were asked to specify the one used for the longest distance during the trip to work. Public transportation refers to bus, streetcar, subway, or elevated trains. Other means include taxicabs, ferryboats, surface trains, van service. See also "Neighborhood conditions and neighborhood services."

Travel time from home to work. The total elapsed time in minutes reported to usually get from home to work during the week prior to interview was counted as the travel time to work. The elapsed time included time spent waiting for public transportation and picking up members of carpools. Respondents were instructed to report travel time to the nearest minute.

No fixed place to work. Workers with no fixed place of work were those who did not usually work at the same location each day and did not usually report in to a central location to begin work each day.

Distance from home to work. This was the usual one-way, "door-to-door" distance in miles from home to work during the week prior to interview. Respondents were instructed to report travel rounded to the nearest mile.

Departure time to work. Refers to the time (hour and minutes) the respondent left for work. The categories begin with midnight, 12:00 a.m., and progress to 11:59 p.m. Metropolitan books and microdata. Not applicable.

Kitchen. See "Equipment."

Last used as a permanent residence. See "Vacancy, seasonality, and marketing."

Lenders of primary and secondary mortgage. This item is presented for units with two or more mortgages. The data are classified by whether the money was borrowed from a firm (bank
or other organization), the seller of the property, or from another individual. Other organizations consist of mortgage corporations, pension plans, credit unions, and savings and loan associations. **Other individual(s)** includes anyone who was not the most recent owner.

**Light fixtures in public halls.** These statistics are presented for housing units in two-or-more-unit structures. Data include whether or not there are light fixtures in the public halls and whether or not some, none, or all of the light fixtures are in working order. Light fixtures include wall lights, ceiling lights, or table lamps in the public halls of the building. Public halls are used by the occupants and guests to get to their apartment doors.

**Living quarters.** See “Housing units."

**Location of previous unit.** Books show data for units in which the householder moved during the 12 months prior to the interview. Microdata show similar information for moves since the previous interview, or for the past 2 years for units added to the sample.

The data compare metropolitan areas of the previous residence and the residence in the AHS sample, where the interview was conducted. The AHS residence is coded by its 1983 metropolitan area definition (see Metropolitan areas), which may not be the current area definition. Since 1993, coding the previous residence with comparable 1983 boundaries has not been done because of geographic boundary changes. Therefore, this item has been suppressed to avoid spurious changes.

**Lodgers.** See “Household,” “Persons other than spouse or children,” “Rent paid by lodgers."

**Lot size.** Lot size includes all connecting land that is owned or rented with the home. Excluded are two-or-more-unit buildings and two-or-more-unit mobile homes. In the books, median lot size is shown to hundredths of an acre.

**Lower cost state and local mortgages.** Data are shown for owner occupied units with one or more mortgages. These are loans generally 1 percent to 3 percent below the current mortgage interest rate at the time the loan was made. The loans are managed through state or local governments. Excluded are federally funded programs of the Veterans Administration and Farmers Home Administration.

**Major source of down payment.** This item refers to the source of the cash used for down payment or outright purchase of the property (house or lot). If more than one source applied, the one providing the largest amount was recorded. Sale of previous home was reported only if the previous home was sold during the 12-months preceding the acquisition of the present home. Savings, or cash on hand, includes money drawn as bank deposits, credit unions, share accounts, saving bonds, certificates of deposits (CDs), money market funds, and IRA or KEOGH accounts. Sale of other investment includes the sale of other real property or real estate other than the previous home or from the sale of other investments such as stocks, bonds, mutual funds, dissolved business ventures. Borrowing other than a mortgage on this property was reported if the present owner borrowed the down payment, even if the property was mortgaged.
Money received as a gift regardless of the source was categorized *inheritance or gift*. Land where building built used for financing means the land on which the structure was built was used as the present owner's equity in the property. Sources of down payment that do not fit any of the above categories were recorded in the *other* category.

**Manager.** See “Owner or manager on property.”

**Medians.**

*Books.* We estimate each median from the printed distribution. For example if there are 12 million homes of a particular type, the median is the 6 millionth, or halfway point of these homes. Therefore, if 5 million homes are below $400 rent, then the median is the millionth home above $400. Finally, if the next interval printed in the book (from $400 to $449), has 3 million homes, the median is assumed to be one-third of the way through the interval (at $417).

This technique overestimates medians by a few percent, because most homes cluster at the bottom of their intervals. The clustering happens because landlords ask for rent in round numbers, like $400, and people give answers in round numbers, like $20,000 income, or 40 years old.

We do not show the median at all if the distribution is estimated to have fewer than 25 sample cases (50,000 homes in the national books).

*Microdata.* Not applicable; no medians are shown in the public use file.

**Median monthly housing costs for owners.**

*Books.* In addition to the median for “Monthly housing costs,” this item gives two additional medians for *owner-occupied units*. The first median includes maintenance costs in addition to those items included in “Monthly housing costs.” The second median excludes second and subsequent mortgages, installment loans or contracts, and maintenance costs, but includes all remaining items listed in “Monthly housing costs.” Because neither of these medians includes costs for renter-occupied units, they are not comparable to the median presented in “Monthly housing costs,” except in the “Owners column” and the “Owners” chapter.

*Microdata.* Not applicable.

**Metropolitan areas.** Metropolitan areas are made up of whole counties (towns in New England) that have significant levels of commuting and contiguous urban areas in common. They may cross state lines, and usually include large amounts of rural land and farm land, provided the county or town as a whole qualifies. See also Central cities; Places; and Urban, which is based on much higher population density than metropolitan areas.

*National books and microdata.* Since 1985 the National AHS has used the official list of metropolitan areas published on June 27, 1983, by the Office of Management and Budget as OMB Bulletin 83-20. That list was developed from definitions published January 3, 1980, in the Federal Register, Volume 45, pages 956-963. AHS still uses these 1983 boundaries in order to measure change consistently over time.
National microdata identify parts of many metropolitan areas. The sample size is usually too small for analysis, but researchers may group the areas, for example, by growth rate, turnover rate, and size, to have enough cases in each group to analyze. For six broad areas, containing a total of 18 metropolitan area codes (shown in Codebook for the American Housing Survey, Volume 2 or 3), the sample sizes have been augmented to permit analysis: Chicago, Detroit, Los Angeles, New York, Northern New Jersey, and Philadelphia. Elsewhere, metropolitan area codes are shown for (a) central cities of a metropolitan area where they had total 1980 population of 100,000 or more, and (b) urbanized suburbs of a metropolitan area where they had total 1980 population of 100,000 or more. In some areas, only central cities or only suburbs met the cutoff, so only those sample cases show metropolitan codes. Other sample cases show 9999 as their metropolitan code. This suppression for confidentiality does not affect the printed books.

Metropolitan books and microdata. Since 1995 the metropolitan AHS has used HUD definitions of metropolitan areas. These are based on the definitions of the Office of Management and Budget, but some outlying areas are omitted from the HUD definitions. Those counties have enough commuting to meet the OMB definition, but HUD believes they are not part of the same housing market as the rest of the area and need to be omitted for housing analysis. The areas for a given year included in and excluded from each metropolitan area are listed in the front of the books for that year.

Mobile homes. A mobile home is defined as a housing unit that was originally constructed to be towed on its own chassis. It also may have permanent rooms attached at its present site, or other structural modifications. The term does not include prefabricated buildings, modular homes, travel campers, boats, or self-propelled vehicles like motor homes. Some people use the terms trailer or manufactured housing in the same sense as mobile homes.

Mobile homes in group. Mobile homes or mobile home sites gathered close together are considered to be in a “group.” This may be a mobile home park or it may be a number grouped together on adjacent individually owned lots but not in a mobile home park. See also “Site placement.”

Monthly costs paid for electricity and piped gas. Three separate procedures are used to estimate monthly costs of electricity and gas. All respondents are asked if they have records available showing their costs for electricity (or gas) separate from other utilities. If they respond “yes,” they are asked the amount of their electric (or gas) bill for the most recent months of January, April, August, and December. These months are the best predictors of annual costs. On average, more than one-third of respondents provide answers for at least 1 of the 4 months.

If the respondent provides data for only 1 month, the first procedure is used. The data for the month are adjusted using regression formulas to estimate yearly costs that are then divided by 12. These formulas are modeled after the results of the Residential Energy Consumption Survey (RECS) sponsored by the United States Department of Energy. These formulas take into account the following characteristics of the unit: electric water heating, natural gas water heating, year built, type of unit, number of rooms, number of bathrooms, number of appliances, and number of household members.
If the respondent provides data for 2, 3, or 4 months, the second procedure is used. As with the first procedure, the monthly data are adjusted using regression formulas, modeled after the results of RECS, to estimate yearly costs that are then divided by 12. Because more than 1 month's worth of real costs are available, it is not necessary to take into account detailed characteristics of the unit as is done in procedure one.

If the respondent answers "no," that he or she does not have separate records for the electricity (or gas), the third procedure is used. The respondent is asked to provide an estimate of the average monthly costs. A factor is then applied that, in effect, lowers these costs to make them consistent with electricity and gas costs in RECS.

**Monthly expenses, additional help with.**

*Books.* Not applicable.

*Microdata.* Additional questions are asked of renters when the ratio of monthly housing costs as percent of current income is high. Rental households receiving housing assistance that report spending more than 35 percent of their income on housing; or rental households not receiving housing assistance with incomes less than $15,000 that report spending more than 50 percent of their income on housing were asked questions on assistance for food, clothing, car payments, tolls, public transportation, child care, medical care or medicine, and utility bills. They were asked to specify the type of help they received.

**Monthly housing costs.** The data are presented for owner-occupied and renter-occupied housing units.

Monthly housing costs for *owner-occupied units* include the sum of monthly payments for all mortgages or installment loans or contracts, except reverse annuity mortgages and home equity lines of credit. Costs also include real estate taxes (including taxes on mobile homes, and mobile home sites if the site is owned), property insurance, homeowner association fees, cooperative or condominium fees, mobile home park fees, land rent, utilities. Costs do not include maintenance and repairs, but see "Median monthly housing costs for owners."

Monthly housing costs for *renter occupied housing* units include the contract rent, utilities, property insurance, mobile home park fee. Renter housing units occupied without payment of cash rent are shown separately as no cash rent. For rental units subsidized by a housing authority, the federal government, or state or local governments, the monthly rental costs reflect only the portion paid by the household and not the portion subsidized. The figures do not adjust for lost security deposits, or the benefit of free rent offered by some owners.

The term utilities here includes electricity, gas, fuels (oil, coal, kerosene, or wood.), water, sewage disposal, garbage and trash collection, but not telephones or cable television. Utility costs are counted if they are paid by the occupant or by someone else, such as a relative, welfare agency, or friend. They may be paid separately or included in rent, condominium fee, or mobile home park fee, and the AHS questions take care to avoid double-counting.
Specified owners and renters—In the books, Table 19 of each chapter presents financial characteristics for these groups, which are comparable to the costs published before 1984. Medians for monthly housing costs are rounded to the nearest dollar.

**Monthly housing costs as percent of current income.**

*Books.* The yearly housing costs (monthly housing costs multiplied by 12) are expressed as a percentage of the total current income (see definition). The percentage was computed separately for each unit and rounded to the nearest percent, so 25 to 29 percent means 24.5 to 29.49 percent. The percentage was not computed for units where occupants reported no income, a net loss, or no cash rent. The category 100 percent or more counts units with housing costs exceeding income. This situation may mean inaccurate income or housing costs data, or true but temporary situations. For most purposes, readers may wish to treat this line as missing or unreliable data.

*Microdata.* Not applicable; may be calculated as needed.

**Monthly payment for principal and interest.** The data present the monthly dollar amount paid on the mortgage for principal and interest only. They do not include that portion of the monthly payment used for property taxes, homeowner insurance, and/or other charges. In the books, medians for monthly payment for principal and for interest are rounded to the nearest dollar.

**Mortgage origination.** Data are shown for owner-occupied units with one or more mortgages. For units that placed new mortgages, data are classified by the date the new mortgage was obtained in relation to the date the property was acquired. An assumed mortgage indicates that the current owner assumed the previous owner's when the property was acquired and has not been refinanced. A wrap-around mortgage is a mortgage with a face value that encompasses the unpaid balance of the first mortgage(s), plus the amount of any new funds extended by the wrap-around lender. Combination of the above means that there was more than one method of origination for the outstanding mortgages on the property.

**Mortgages currently on property.**

*Books.* The owner or the owner's spouse was asked the number of mortgages or similar loans (including home equity loans) currently in effect on the home. Data are shown for the number of units with the following mortgage categories: reverse mortgages, regular and home equity, regular only, and home equity only.

A mortgage or similar debt refers to all forms of debt for which 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 vendors' liens. In trust arrangements usually a third party, known as the trustee, holds the title to the property until the debt is paid. In vendors' lien arrangements, 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 or similar debt are contracts to purchase, land contracts, and lease-purchase agreements where the title to the property remains with the seller until the agreed upon payments have been made by the buyer.
See also “Current interest rate,” “Items included in primary mortgage payment,” “Lenders of primary and secondary mortgage,” “Lower cost state and local mortgages,” “Major source of downpayment,” “Monthly payment for principal and interest,” “Primary mortgage,” “Remaining years mortgaged,” “Term of primary mortgage at origination or assumption,” “Total outstanding principal amount,” “Type of primary mortgage,” “Year primary mortgage originated.”

Microdata. Not applicable. May be recoded as needed.

Moves. See “Choice of present home and home search,” “Household moves and formation,” “Location of previous unit,” “Persons--previous residence,” “Present and previous units,” “Reasons for leaving previous unit,” “Recent movers comparison to previous home,” “Structure type of previous residence,” “Tenure of previous unit,” “Year householder moved into unit.”

Neighborhood conditions and neighborhood services. The statistics are based on the respondent’s opinion. He or she may define the neighborhood as any size. Some topics are collected by an open-ended question on what, if anything, bothers the respondent about the neighborhood. Others come from questions about specific topics. The first three, and schools, have followup questions about whether the problem bothers the respondent so much he or she would like to move.

Street noise or heavy street traffic. Street noise refers to noise made by children playing outdoors, noise from a factory or business, or any other sounds that the respondent considers to be street noise. Traffic refers to the amount of vehicular traffic that the respondent considers “heavy.”

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

Odors. This category refers to smoke, gas, or bad smells.

Those three specific questions are followed by an open-ended question about what (else) bothers the respondent. The category “People” includes such complaints as unfriendly neighbors, noisy children, other races, or specific neighbors.

Public transportation. The respondent answers (1) if service is available; (2) if service is satisfactory; and (3) if any member of the household uses the service at least once a week.

Shopping. The respondent answers whether grocery stores or drug stores were satisfactory and were within 1 mile of the housing unit.

Police protection. The respondent was asked if police protection was satisfactory.

Elementary schools. The respondent was asked (1) if young children in the household attended public school, private school, preschool, or were schooled at home (does not attend school before 1999); (2) if the public elementary school was satisfactory; (3) if it was so unsatisfactory the respondent wants to move; and (4) if the public elementary school was within 1 mile of the housing unit. See also Educational attainment.
See also “Bars on windows of buildings,” “Conditions of streets,” “Description of area within 300 feet,” “Educational attainment,” “Other buildings vandalized or within interior exposed,” “Overall opinion of neighborhood,” “Trash, litter, or junk on streets or any properties.”

Noninterview.

Books. Not applicable.

Microdata. Noninterview cases are classified as Type A, Type B, or Type C.

Type A noninterviews are units occupied by people eligible for interview who were not interviewed. A noninterview means that valuable information was lost and the sample returns may not be representative of the population. It is very important to keep noninterviews to a minimum. Type A noninterview categories include (1) no one home; (2) temporarily absent; (3) refused; (4) unable to locate; (5) language problems; and (6) other occupied - specify.

Type B noninterviews are units not eligible for interview at present, but who could become eligible for interviews in the future. Type B noninterview categories include (1) permit granted, construction not started; (2) under construction, not ready; (3) permanent or temporary business or commercial storage; (4) unoccupied site for mobile home or tent; (5) other unit or converted to institutional unit; (6) occupancy prohibited; (7) interior exposed to the elements; and (8) Type B, not classified.

Type C noninterviews are units ineligible for sample, either because they no longer exist or because of sample reasons. Type C noninterview categories include: (1) demolished or disaster loss; (2) house or mobile home moved; (3) unit eliminated in structural conversion; (4) merged, not in current sample; (5) permit abandoned; (6) Type C not classified elsewhere; and (7) unit eliminated in subsampling.

Number of single children under 18 years old. See “Household composition.”

Occupied housing units. A housing unit is classified as occupied if there is at least one person who lives in the unit as a usual resident at the time of the interview, or if the occupants are only temporarily absent, for example, on vacation. However, if the unit is occupied entirely by people with a usual residence elsewhere, the unit is classified as vacant. By definition, the count of occupied housing units is the same as the count of households.

Other activities on property. Data presented exclude rental units. Property consists of one or more tracts of land that the respondent considers to be the same property, farm, ranch, estate. The tracts may be adjoining or they may be separated by a road, creek, or other piece of land. For a condominium, this item refers to the sample unit only.

A medical or dental office is a doctor's or dentist's office regularly visited by patients.

A commercial establishment may be located in the same building as the sample unit, or it may be located elsewhere on the property (such as grocery store, restaurant, gasoline station, and veterinary office). Those housing units that have no recognizable alterations to the outside of
the house are not considered as having a commercial establishment. A farm is not classified as a commercial establishment.

**Other buildings vandalized or with interior exposed.** The respondent was asked if there were any vandalized or abandoned buildings within 300 feet of the sample unit. A unit is counted as vandalized if it has most of the visible windows broken, doors pulled off, has been badly burned, has words or symbols printed on it, has portions of the roof missing, or in some other way has the interior exposed to weather.

**Other housing costs per month.** A homeowners' association fee (excludes condominium and cooperative fees) is a fee charged for services such as upkeep of common property (painting hallways, cleaning lobbies, mowing lawns, repairing laundry facilities, paving parking areas, and repairing street lights). The fee may include the use and maintenance of either indoor or outdoor swimming facilities or other recreational facilities (party rooms, tennis courts, basketball courts, exercise rooms, and playground areas). Also the homeowner's association fee can include payments for security personnel such as security guards or services such as telephone answering service, maid service, or other domestic help.

Mobile home park fees are regular payments to the park management that could include site rental, utility charges, mail handling, and/or fees for the maintenance of common areas.

Aside from mobile homes (where site rent is covered above in mobile home park fees), in a few areas of the country, occupants may own the unit, but not the land on which it stands. Land rent refers to land that is rented or leased from the land owner, and “ground rent" is paid. These leases are for long periods of time (50-100 years) when originated. The lease obligation transfers with the property and cannot be canceled.

The medians for other housing costs are rounded to the nearest dollar.

**Outside (P)MSAs.** See Metropolitan areas.

**Overall opinion of neighborhood.** The data presented are based on the respondent's overall opinion of the neighborhood. The respondent defines neighborhood. The respondent was asked to rate the neighborhood based on a scale from 1 to 10, where 10 is the best and 1 is the worst.

**Overall opinion of structure.** The data presented are based on the respondent's overall opinion of the house or apartment as a place to live. The respondent was asked to rate the structure based on a scale from 1 to 10, where 10 is the best and 1 is the worst.

**Owner or manager on property.** These statistics show the number of rental housing units in structures of two or more units with the owner or resident manager living on the property.

**Own never-married children under 18 years old.** See "Household composition."

**Painted surfaces.**

*National books.* Not applicable.
National microdata. This item is restricted to housing units built before 1978 (older homes). Respondents were asked 1) whether they had peeling paint, and 2) whether the peeling paint was inside or outside the house. Respondents also were asked whether any work was done, such as sanding or scraping that would have disturbed painted surfaces, and if they replaced or repaired doors or frames, cabinets or built in shelves, inside walls or ceilings, windows (not counting glass) and outside walls, foundation, doors, and window frames or trim.

Additionally, respondents were asked if they were told before moving in that the paint might contain lead.

Parallel heating equipment. This is additional heating equipment for an area not heated by the main heating equipment.

Payment plans of primary and secondary mortgages. Data are presented separately for primary and secondary mortgages. The term “payment” refers to regular principal and interest payments only, and not to payments for real estate taxes and property insurance. Fixed payment, self amortizing mortgages have payments that do not change during the term of the loan, with the principal payments sufficient to pay off the loan completely within the stated term. Adjustable rate mortgages are mortgages whose interest rates could be changed during the life of the mortgage, changing the amount of the payments required. In adjustable term mortgages the amount of the payments stays constant, but the number of payments required to pay off the loan can change over time as interest rates change. Graduated payment mortgages allow monthly payments to change during the term of the mortgage by means other than a change in interest rate. These mortgages begin with lower payments that rise later in the life of the mortgage. Balloon mortgages are mortgages in which only part or none of the principal is paid off during the term of the loan (which commonly is about 5 years). At the end of the term, the principal is paid off in one lump sum, refinanced with a new loan, or extended by renewal of the loan.

National books and microdata. Not applicable.

Persons. See “Household.”

Persons other than spouse or children.

Books. Data are shown for households with the following types of people:

Other relatives of householder. This category counts households that include any person related to the householder by blood, marriage, or adoption, except spouse, son, daughter, stepchild, or adopted child under 18 years old (regardless of marital status).

Single adult offspring 18 to 29. This category counts households with at least one member aged 18-29, if he or she is not currently married (that is, they have never been married or are divorced, separated or widowed), and is a son, daughter, stepchild, or adopted child of the householder. Note this category has the same marital status categories as “Single children under 18 years old,” but the same relationship to householder categories as “Own never-married children.” These are defined under “Household Composition.”
Single adult offspring 30 years of age or over. This category counts households with at least one member aged 30 or older, if he or she is not currently married (that is, they have never been married or are divorced, separated or widowed), and is a son, daughter, stepchild, or adopted child of the householder.

Households with three generations. For each person whose parent lives in the household, the parent (biological, adoptive, or stepparent) is identified in the questionnaire. Each person who is a child or grandchild of the householder is also identified. These codes keep count of households where the following live in the unit: one or more sons, daughters, stepchildren or adopted children of the householder or spouse (regardless of marital status or age), and one or more parents of the householder or spouse, or one or more parents of these parents, or one or more sons, daughters, stepchildren or adopted children of the householder or spouse (regardless of marital status or age), and one or more of these children's children (grandchildren of the householder or spouse, regardless of marital status or age).

Note that the definition of children is different from those in “Single children under 18 years old,” and “Own never-married children.” The first does not involve relationship to householder, and neither involve marital status and age. Also note that if a household has more than three generations, it is still counted here. In addition to the three generations, there also may be other relatives in the household.

Subfamily. A subfamily is one of the following groups that do not include the householder or spouse, but are related to the householder and live in the household (1) a married couple (with or without children of any type), or (2) one parent with one or more of his or her own never-married children under 18 years old. A common example of a subfamily is a young married couple sharing the home of the husband's or wife's parents.

Subfamily householder. For subfamilies that include a couple, the husband is defined as the subfamily householder; for other subfamilies the parent is the householder.

Households with other types of relatives. This category counts households with relatives of the householder, other than the spouse, children, three generations, or subfamilies already counted. Therefore, it includes relatives such as uncles, nieces, cousins, or grandchildren present without their parents. A household already counted above may be counted again, as long as it has some additional relatives not counted above.

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

Co-owners or co-renters. This category includes households for which the names of two or more unrelated household members are on the deed of ownership, mortgage, land contract, contract to purchase, or similar document, or lease; or, if there is no lease, two or more unrelated household members are responsible for paying the rent.

Lodgers. This category is restricted to members of the household who pay rent to another household member and are age 16 and older, nonrelatives of the householder, not sons,
daughters, stepchildren, or adopted children of a co-owner or co-renter, and not a co-owner or co-renter themselves. This item does not use the "lodger" answer on relationship to the householder since it is less carefully defined than the question on lodgers' rent. See also "Household," “Rent paid by lodgers.”

Unrelated children under 18 years old. This category counts households with members under 18 years old who are unrelated to the householder and are not co-owners, co-renters, or lodgers, regardless of marital status. Thus it includes foster children and children of lodgers and employees as long as they are under 18.

Other nonrelatives. This category counts households with nonrelatives of the householder who are not in the categories above, so they are not co-owners, co-renters, lodgers, or under 18. For example, it includes employees and housemates who do not pay a regular rent as lodgers. It also may include households with nonrelatives counted in the categories below.

One or more secondary families. A secondary family is a group of two or more people who are related to each other by birth (Parent/child, child less than 18 years old), marriage, or adoption, but who are not related to the householder. The unrelated secondary family may include people such as guests, roomers, boarders, or resident employees and their relatives living in a household.

Two-to eight-person households, none related to each other. None of the household members is related to any other household member. They may be co-owners, co-renters, lodgers, partners, employees, or foster children. The books make no distinction between housemates and unmarried partners, because we do not want the interviewers to probe into private relationships.

Microdata. Not applicable; may be calculated from household relationships. See also "Household composition."

Persons per room.

Books. Persons per room is computed for each occupied housing unit by dividing the number of people in the unit by the number of rooms in the unit. The figures shown refer, therefore, to the number of housing units having the specified ratio of people per room.

Microdata. Not applicable; may be calculated from household size and rooms.

Persons--previous residence. All people are counted who lived at the previous residence at the time of the move, as well as those who usually lived there but were temporarily away. Persons who were staying there at the time of move, but who had a usual residence elsewhere, were not counted.

Physical problems--severe. A unit has severe physical problems if it has any of the following five problems:
Plumbing. Lacking hot or cold piped water or a flush toilet, or lacking both bathtub and shower, all inside the structure (and for the exclusive use of the unit, unless there are two or more full bathrooms).

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 6 hours each time.

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.

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 working elevator.

Upkeep. Having any five of the following six maintenance problems: (1) water leaks from the outside, such as from the roof, basement, windows, or doors; (2) leaks from inside structure such as pipes or plumbing fixtures; (3) holes in the floors; (4) holes or open cracks in the walls or ceilings; (5) more than 8 inches by 11 inches of peeling paint or broken plaster; or (6) signs of rats in the last 90 days.

Physical problems--moderate. A unit has moderate physical problems if it has any of the following five problems, but none of the severe problems:

Plumbing. On at least three occasions during the last 3 months, all the flush toilets were broken down at the same time for 6 hours or more (see “Flush toilet and flush toilet breakdowns”).

Heating. Having unvented gas, oil, or kerosene heaters as the primary heating equipment.

Kitchen. Lacking a kitchen sink, refrigerator, or cooking equipment (stove, burners, or microwave oven) inside the structure for the exclusive use of the unit.

Hallways. Having any three of the four problems listed above.

Upkeep. Having any three or four of the six problems listed above in “upkeep.”

See also “Bars on windows of buildings,” “Common stairways,” “Equipment,” “External building conditions,” “Flush toilet and flush toilet breakdowns,” “Heating equipment and heating equipment breakdowns,” “Overall opinion of structure,” “Primary source of water and water supply stoppage,” “Water leakage during last 12 months,” “Selected deficiencies.”

Places.

National books. The geographic variable place size, as shown in national reports, shows the current count of housing units in places as defined in the 1980 census.

Microdata and metropolitan books. Not applicable.
See also “Central cities” and “Urban and rural residence.”

**Plumbing facilities.** The category “With all plumbing facilities” consists of housing units that have hot and cold piped water as well as a flush toilet and a bathtub or shower. For units with less than two full bathrooms, the facilities are only counted if they are for the exclusive use of the occupants of the unit. Plumbing facilities need not be in the same room. Lacking some plumbing facilities or having no plumbing facilities for exclusive use means that the housing unit does not have all three specified plumbing facilities (hot and cold piped water, flush toilet, and bathtub or shower) inside the housing unit, or that the toilet or bathing facilities are also for the use of the occupants of other housing units.

See also “Complete bathrooms,” “Flush toilet and flush toilet breakdowns,” “Sewage disposal and sewage disposal breakdowns.”

**Population in housing units.**

*Books.* Included are all people living in housing units. Persons living in group quarters are excluded.

*Microdata.* Not applicable; can be calculated by adding weight times household size, for all occupied units.

**Poverty status.** The poverty data differ from official poverty estimates in two important respects:

(1) Interest in housing affordability made it appropriate for AHS to adopt a poverty definition based on household income. The official method is based on the income of families, and of individuals living without relatives. (Under the official approach, the poverty status of two unrelated individuals living together would be determined by comparing the income of each individual to the one-person poverty threshold. The result might be that both were in poverty, both were out of poverty, or one was in poverty and one was not. In the AHS books, their poverty status was determined by comparing their combined income to the two-person poverty threshold.) The effect of using household income is to count about 6 percent fewer people in poverty than the official estimate. See “Technical Paper X, Effect of Using a Poverty Definition Based On Household Income,” U.S. Department of Health, Education, and Welfare, 1976.

(2) The official poverty estimates are based on the March supplement to the Current Population Survey. Income questions in that survey are very detailed, and measure income received during the previous calendar year. Income questions in the AHS are much less detailed, and measure income received during the 12 months just before the interview. Because interviews were conducted over several months, the AHS income measures do not pertain to a fixed period.

The poverty thresholds are based on the Department of Agriculture's 1961 Economy Food Plan and reflect different consumption requirements by number of adults and children. They consider only money income (see Income), not assets or benefits in kind, such as housing subsidies. The poverty thresholds are updated every year to reflect changes in the Consumer Price Index (CPI).
Note that in the official poverty thresholds, elderly are expected to need less than nonelderly in the one- to two-person groups. Also note that an all-adult household is expected to need less than the same size household where one member is a child, but if additional members are children, costs go down again.

These official poverty thresholds are different from the poverty guidelines published for program purposes by the U.S. Department of Health and Human Services (HHS).

HUD “very low income limits'' (the L50 series) for four-person households are 50 percent of median family income for families in each metropolitan area or nonmetropolitan county. The HUD income limits vary among areas, and the average national HUD income limits in 1997 are shown (local details are at www.huduser.org/data/factors.html).

The HUD adjustments for household size in the L50 series are very roughly based on national average differences in housing cost. The HUD limits have smaller adjustments than the official and HHS poverty thresholds, which are based on food cost. Housing cost does not vary as much as food does between small and large households. Academic research suggests even the HUD adjustments may be too large; see van Praag, "The Relativity of the Welfare Concept,” in Nussbaum and Sen, Quality of Life, Oxford University Press, 1993, page 374, which suggests 6 percent adjustments per person instead of HUD's 10 percent and 8 percent adjustments.

**Microdata.** Not applicable; may be calculated by comparing current or past income to the thresholds.

**Present and previous units.** The present unit is the one occupied by the householder or respondent at the time of the interview. The previous unit is the one from which the householder or respondent moved. If the householder or respondent moved more than once during the 12 months prior to the date of the interview, the previous unit is the one from which they last moved.

**Previous home owned or rented by someone who moved here.**

**Books.** These data are shown for units where the householder moved within the United States during the past year.

**Microdata.** Data are shown for units where anyone in the present household moved within the United States during the past year.

**Previous occupancy.** The statistics presented are restricted to housing units built in 1990 or later. "Previously occupied" indicates that some person or people not now in the household occupied the housing unit prior to the householder or other related household members' occupancy. "Not previously occupied" indicates that either the householder or some other current household member was the first occupant of the housing unit.

**Primary metropolitan statistical areas.** See “Metropolitan areas.”

**Primary mortgage.** Detailed information on mortgages was collected in the AHS on the first three mortgages reported, even if the unit had four or more mortgages. On the basis of this
information, one of the mortgages was considered to be primary. The definition of the primary mortgage may not agree with legal definitions of a “first mortgage,” which would be paid first after a foreclosure.

If there is only one mortgage, it is primary. If two or more mortgages exist, the following hierarchy was used (1) Federal Housing Administration (FHA), Veterans Administration (VA), or Farmers Home Administration (FmHA) mortgage; (2) assumed mortgage; (3) mortgage obtained first; (4) largest initial amount borrowed.

**Primary source of water and water supply stoppage.** A public system or private company refers to any 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 that supplies six or more housing units. An individual well that provides water for five or fewer housing units is further classified by whether it is drilled or dug. Water sources such as springs, cisterns, streams, lakes, or commercial bottled water are included in the other category.

Water supply stoppage means that the housing unit was completely without running water from its regular source. Completely without running water means that the water system servicing the unit supplied no water at all; that is, no equipment or facility using running water (in kitchen and bathroom sinks, shower, in bathtub, flush toilet, dishwasher, and other similar items) had water supplied to it, or all were inoperable. The reason could vary from a stoppage because of a flood or storm, to a broken pipe, to a shutdown of the water system, to a failure to pay the bill, or other reasons.

Data on water supply stoppage are shown if they occurred in the 3 months prior to the interview, or while the household was living in the unit if less than 3 months, and if the breakdown or failure lasted 6 consecutive hours or more. Housing units with water supply stoppage also are classified according to the number of times the stoppages occurred.

**Principal.** See “Total outstanding principal amount.”

**Problems.** See “Neighborhood conditions and neighborhood services,” “Physical problems,” “Poverty status.”

**Property insurance.** This item refers to insurance on the structure and/or its contents (such as furniture, appliances, or clothing) and usually contains some liability insurance. Renters usually do not have property insurance, but its cost is counted if they do have it. The total cost is the most recent yearly cost for which the occupants have actually been billed. Yearly cost was divided by 12 before calculating a monthly median cost. Medians for property insurance are rounded to the nearest dollar.

**Public elementary school.** See “Educational attainment” and “Neighborhood conditions and neighborhood services.”

**Purchase price.** The purchase price refers to the price of the house or apartment and lot at the time the property was purchased. Closing costs are excluded from the purchase price, and for mobile homes, the value of the land is excluded. In the books, the median purchase price is rounded to the nearest dollar.
Quality. See “Neighborhood conditions and neighborhood services,” “Physical problems,” “Selected amenities,” “Selected deficiencies.”

Questionnaire. Computer Assisted Personal Interviewing (CAPI) was introduced in 1997, eliminating paper questionnaires. The questions and the question interview pattern are available as part of the Field Representative’s guide for the AHS released on the Census Bureau Web site. The computer code controlling the interviews, known as “Q-Code” (“Questionnaire Code”), can be found on the HUD USER Web site. The Field Representative’s guide is much easier to read than the Q-Code but does not include information on skip patterns or the exact rules for question flow.

Race. In the books, the classification of “race” refers to the race of the householder occupying the housing unit. The concept of race as used by the Census Bureau does not denote a clear-cut scientific definition of biological stock. Race was determined on the basis of a question that asked for self-identification of a person's race. For respondents who refused to answer, the interviewer decided on a race only for people she or he saw; others are imputed by computer. For mixed-race answers, respondents are asked for the race most closely identified with, respondents are asked for the mother's race, or the first race mentioned is used, in that order of priority.

Hispanic is considered an ethnic origin rather than a race and is tallied separately. Most Hispanics report themselves as White, but some report themselves as Blacks or other categories. Figures are given for race and ethnicity in Table 2-1 of the printed reports.

Revisions to the OMB Statistical Policy Directive 15 designate five races (White, Black or African American, American Indian or Alaska Native, Asian, and Native Hawaiian or other Pacific Islander) and two ethnic origins (Hispanic or Latino and not Hispanic or Latino). The AHS will adopt the new terminology in 2003.

Ratio of value to current income.

Books. The ratio of value to current income was computed by dividing the value of the housing unit by the total current (family) income (see definition of current income). The ratio was computed separately for each housing unit and was rounded to the nearest tenth. For value and current income, the dollar amounts were used. Units occupied by individuals who reported no income or a net loss compose the category “zero or negative income." Medians for the ratio of value to current income are rounded to the nearest tenth.

Microdata. Not applicable; can be calculated from value and income.

Real estate taxes. This item includes special assessments, school taxes, county taxes, and any other real estate taxes. Excluded are payments on delinquent taxes due from prior years. Rebates are subtracted from the total. When the real estate taxes are included with the mortgage, a separate amount for the taxes is obtained. To determine average monthly cost, yearly cost was divided by 12. In the books, medians for real estate taxes are rounded to the nearest dollar.
**Reasons for leaving previous unit.** These data are shown for units where the respondent moved during the 12 months before the interview. The distribution may not add to the total, because the respondent was not limited to one reason.

Private displacement includes situations in which a private company or person wanted to use the housing unit for some other purpose (to develop the land or building commercially, to occupy the unit, to convert the unit to a condominium or cooperative, or to make repairs and renovate the unit).

Government displacement means the respondent was forced to leave by the government (local, state, or federal), because it wanted to use the land for other purposes (to build a road or highway, for urban renewal or other public activity, because the building was condemned, or some other reason).

Disaster loss includes damage by a tornado, storm, flood, earthquake, fire, landslide or other similar occurrences.

New job or job transfer indicates that the respondent moved to begin a new job or was transferred from the previous location to the present location.

To be closer to work/school/other means that the respondent moved because commuting was too far and respondent wanted to live closer to work, school, or some other commuting purpose.

Other, financial/employment related refers to financial or employment related reasons, such as wanting to look for a new or different job, because the person entered or left the U.S. Armed Forces, retired, or some other financial/employment reason.

To establish own household means that the respondent left a previous residence (parent's home, rooming or boarding house, or shared apartment) to establish own household.

Needed larger house or apartment refers to moves that were necessary because of crowding or for aesthetic reasons.

Married, widowed, divorced, or separated is marked if the respondent moved because of marital reasons.

Other, family/personal related indicates that the respondent moved because of family or personal reasons such as wanting to live closer to relatives.

Wanted better home was marked if the respondent moved because the previous residence was too old, run-down, in need of too many repairs or if there was nothing wrong with the previous home, but the respondent simply wanted to move to a better one.

Change from owner to renter, or change from renter to owner indicates a change in tenure.

Wanted lower rent or less expensive maintenance indicates that the respondent moved because the rent (or mortgage) payments were too high at the previous residence or that the taxes or upkeep were too high.
Other housing related reasons includes such reasons as respondent wanted larger yard, different zoning, or wanted a better investment. Other includes examples such as respondent wanted a change in climate, neighborhood crime problem, racial or ethnic composition of neighborhood.

See also “Choice of present home and home search” and “Choice of present neighborhood and neighborhood search.”

**Recent movers.** Data for recent movers are shown for two categories of movers: (1) units where the householder moved into the present unit during the 12 months prior to the interview (shown as a column in most tables, and in Table 10 of each chapter) and (2) units where the respondent moved into the present housing unit during the 12 months prior to the interview (Table 11 of each chapter). In most cases, the two groups represent the same households.

Microdata also show moves of other household members.

**Recent movers comparison to previous home.** This item is based on the respondent's comparison between the present unit and previous unit as to which was better.

**Recent movers comparison to previous neighborhood.** This item is based on the respondent's comparison between the present neighborhood and the previous neighborhood as to which was better. The definition of neighborhood is whatever the respondent considers it to be.

**Regions.** States contained in each region are as follows:


**Midwest.** Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Kansas, Nebraska, North Dakota, and South Dakota.

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


**Remaining years mortgaged.** The owner or owner's spouse was asked the length of time it would take to pay off the loan at the current payments. The response reflects the amortization schedule. For example, in many balloon mortgages the initial monthly payments are calculated to pay off the loan in 30 years, though the mortgage is due in 5 years, and the 60th payment is very large. Such a mortgage would count here as 30 years, not 5 years, minus whatever number of years have passed. In the books, medians for remaining years mortgaged are rounded to the nearest year.
**Rent paid by lodgers.** This item refers to regular, fixed rent: a set amount of money, billed or charged, which is paid at regular intervals by a lodger (usually weekly or monthly) to a member of the household. This category is restricted to lodgers who are 16 years and older, nonrelatives of the householder, and people who are not spouses of a co-owner or co-renter, not children of a co-owner or co-renter, and not a co-owner or co-renter themselves. Medians for rent paid by lodgers are rounded to the nearest dollar.

**Rent reductions.** Rent control means that increases in rent are limited by state or local law. The jurisdiction, state or local agency, mandates that rent increases may not exceed some level, or must be approved by the government. This category does not include limits that HUD puts on all rental projects insured by the Federal Housing Administration.

A housing unit is classified as being in a public housing project if the unit is owned by any local or state government agency, and operated as public housing. These organizations may receive subsidies from the federal or state government, but the local agency owns the property. A housing unit is classified as having a subsidy if the household pays a lower rent because a federal, state, or local government program pays part of the cost of construction, mortgage, or operating expenses. These programs include rental assistance programs where part of the rent for low-income families is paid by HUD, and direct loan programs of HUD and the Department of Agriculture for reduced cost housing. Units requiring income verification are usually subsidized. Many households in these programs apply through the public housing authority, and misreport themselves in public housing. Others do not think of their units as subsidized, and misreport themselves as unsubsidized.

Subsidies for homeowners, including HUD subsidies for cooperatives, are not counted, since the questions are asked only of renters.

**Renter maintenance quality.** Renters were asked their opinion of owner's response time and if owners were polite and considerate for maintenance and repairs of major and minor problems. The definition of a major or minor problem was left up to the discretion of the respondent. Satisfaction was measured by the following choices: “usually,” “not usually,” “very mixed,” “haven't needed any,” and “landlord not responsible for maintenance.” When problems occurred, renters were asked if problems were solved quickly once repairs started.

**Replacements and additions.**

*Microdata.* The statistics refer to within 2 years prior to the interview and are restricted to owner-occupied units. The respondents were first asked if, in the last 2 years has there been a major disaster, such as an earthquake, tornado, hurricane, landslide, fire, or flood that required them to make extensive repairs to their home. Only if the damage involved at least 2 rooms or a majority of the home were replacements and additions counted as disaster required repairs.

Respondents were asked to name major repairs made within the last 2 years. Also, they were asked if the repair was a replacement or an addition, if someone in the household did the work, and the cost of the repair.
The microdata file shows the total number of replacements/additions reported by all households, and the total cost of these replacements/additions. Each household could name as many as 74 jobs done in their home.

Questions were asked about where the work was done, if any rooms were created or attached, and if the bathroom or kitchen had been remodeled within the last 2 years.

Respondents also were asked if they added or replaced their roof, siding, interior water pipes; electrical wiring, fuse boxes or breaker switches; doors or windows; plumbing fixtures such as sinks or bath tubs; insulation; wall to wall carpeting, flooring; paneling or ceiling tiles; air conditioning; built in heating equipment; septic tank; water heater; dishwasher, garbage disposal; driveways or walkways; fencing or walls; patio, terrace or detached deck; swimming pool, tennis court and other recreational structures; shed, detached garage or other buildings.

The microdata file also includes information about whether the household got a low interest loan or grant to pay for repairs and the amount spent in a typical year on routine repairs and maintenance.

**Reverse annuity mortgages.** These were defined to the respondent as “reverse annuity mortgage or home equity conversion mortgage.” These mortgages involve borrowing against home equity for retirement or income and sometimes do not need to be repaid until after the owner's death.

**Rooms.** The respondent was asked to report all rooms in the housing unit. The interviewer then coded the responses into different categories. Rooms counted include whole rooms used for living purposes, such as bedrooms, living rooms, dining rooms, kitchens, recreation rooms, permanently enclosed porches that are suitable for year-round use, lodgers' rooms, and other finished rooms. Also included are rooms used for offices by a person living in the unit. Median for rooms is rounded to the nearest tenth (see Medians).

A dining room, to be counted, must be a separate room. It must be separated from adjoining rooms by built-in archways or walls that extend at least 6 inches from an intersecting wall. Half walls or bookcases count if built-in. Movable or collapsible partitions or partitions consisting solely of shelves or cabinets are not considered built-in walls.

Bathrooms, laundry rooms, utility rooms, pantries, and unfinished rooms are not counted as rooms.

**Rooms used for business.** A room used for business or office space is a room set up for use as an office or business such as rooms for: a business owner, contract worker, self-employed person, commercial use (such as daycare or catering) or regular job.

The question asked if rooms were exclusively used for business space. Followup questions asked if there is direct access to the outside without going through any other room and whether the space is used both as business space and for personal use. See also “Other activities on property.”
Routine maintenance in last year. Routine maintenance consists of regular maintenance activities necessary for the preventive care of the structure, property and fixed equipment items. Included are such things as painting, papering, floor sanding, restoring of some shingles, fixing water pipes, replacing parts of large equipment, such as furnace, repairing fences, gutters, sidewalks, decks or patios, removing dangerous trees, termite inspection. Housecleaning is not included. Routine maintenance does not include work reported under the section on repairs, improvements, and alterations. Medians for routine maintenance are rounded to the nearest dollar.

Rural. See "Urban and rural residence."

Safety of primary source of water. Water was considered safe (consumable or potable) if the main water source was used or could be used for drinking. The respondent was not asked what source was used by the household for drinking but whether or not the main water source was safe for cooking and drinking. This item excludes units where the primary source of household water was commercial bottled water.

Sample size. The sample size is the unweighted count of the actual sample cases. See Appendix B in this report for an explanation of sample design.

Savings. See "Amount of savings and investments."

Schools. See "Educational attainment" and "Neighborhood conditions and neighborhood services."

Seasonal units. See "Vacancy, seasonality, and marketing."

Selected amenities.

Porch, deck, balcony, or patio is counted if it is attached to the sample unit, not just to the building or free standing. Porches may be enclosed or open. The porch, deck, balcony, or patio is only counted if it is at least 4 feet by 4 feet.

Usable fireplace. Excludes the following: fireplaces that have been blocked off or whose chimney or flue has been filled, decorative or artificial fireplaces and wood stoves, even if shaped like a fireplace, like a Franklin stove. Free-standing fireplaces are included in this item.

Separate dining room. A separate dining room is an area separated from adjoining rooms by archways or wall that extend at least 6 inches from an intersecting wall. See "Rooms."

Living rooms, recreation rooms, etc. Includes family rooms, dens, recreation rooms and/or libraries.

Garage or carport. The garage or carport is only counted if it is on the same property, though not necessarily attached to the house. Off-street parking includes driveway or parking lot privileges that are paid for as part of the rent or owned with the unit. Data on garage or carport are not collected for occasional-use vacant units and other vacant units.
See also “Overall opinion of structure.”

**Selected deficiencies.**

**Signs of mice or rats.** The statistics on signs of mice or rats refer to respondents who reported seeing mice or rats or signs of mice or rats inside the house or building during the 3 months prior to interview or while the household was living in the unit if less than 3 months. Signs of mice or rats include droppings, holes in the wall, or ripped or torn food containers.

**Holes in floors.** Respondents were asked about holes in the interior floors of the unit. The holes may or may not go all the way through to a lower floor or to the exterior of the unit. The holes are only counted if large enough for someone to trip in.

**Open cracks or holes (interior).** Statistics are presented on open cracks or holes in the interior wall or ceilings of the housing unit. Included are cracks or holes that do not go all the way through to the next room or to the exterior of the housing unit. Hairline cracks or cracks that appear in the walls or ceilings but are not large enough to insert the edge of a dime, are not counted. Very small holes caused by nails or other similar objects are also not counted.

**Broken plaster or peeling paint (interior).** The area of peeling paint or broken plaster must be on the inside walls or ceilings and at least one area of broken plaster or peeling paint must be larger than 8 inches by 11 inches.

**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 or plastic coverings. Excluded are appliance cords, extension cords, chandelier cords, and telephone, antenna, or cable television wires.

**Electric wall outlets.** A housing unit is classified as having rooms without electric wall outlets if there is not at least one working electric wall outlet in each room of the unit. A working electric wall outlet is one that is in operating condition; that is, it 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.

**Sewage disposal and sewage disposal breakdowns.** A public sewer is connected to a city, county, sanitary district, neighborhood, or subdivision sewer system, serving six or more units. A septic tank or cesspool is an underground tank or pit used for disposal of sewage (serving five or fewer units). A chemical toilet, which may be inside or outside the unit, uses chemicals to break down or dissolve sewage. Housing units for which sewage is disposed of in some other way are included in the Other category.

The data on breakdowns in the means of sewage disposal are limited to housing units in which the means of sewage disposal was a public sewer, septic tank, or cesspool. Breakdowns refer to situations in which the system was completely unusable. Examples include septic tank being pumped because it no longer perked, tank collapsed, tank exploded, sewer main broken, sewer treatment plant not operating as a result of electrical failure or water service interruption.
Data on breakdowns are shown if they occurred in the 3 months prior to the interview or while the household was living in the unit if less than 3 months, and if the breakdown lasted 6 consecutive hours or more. Housing units with a breakdown in sewage disposal also are classified according to the number of breakdowns.

See also "Painted surfaces."

**Sharing.** See "Cost and ownership sharing" and "Time sharing."

**Single children under 18 years old.** See "Household composition."

**Site placement.** This item is collected for mobile homes. "Site" refers to location (other than the manufacturer's or dealer's lot) and not necessarily a mobile home park site. The mobile home was not necessarily occupied at each site, as long as it was set up for occupancy.

**Source of drinking water.** The statistics presented are restricted to units where the respondents answered that their primary source of drinking water was not safe to drink. Units where the primary source of water was commercial bottled water were excluded. See "Primary source of water."

**Specified owner and renters.** See "Monthly housing costs."

**Square feet per person.**

*Books.* Square feet per person is computed for each single-family detached housing unit and mobile home by dividing the square footage of the unit by the number of people in the unit. The figures shown refer to the number of housing units having the specified square feet per person. Median square footage is rounded to the nearest foot.

*Microdata.* Not applicable.

**Square footage of unit.** Housing size is shown for single family detached housing units and mobile homes. Excluded from the calculation of square footage are unfinished attics, carports, attached garages, porches that are not protected from weather (such as screened porches), and mobile home hitches. Both finished and unfinished basements are included. Median square footage is rounded to the nearest foot. Square footage is based on the respondent's estimate of the size of the unit.

**Stories between main and apartment entrances.** Data are presented for multiunit structures with two or more floors and are concerned with the number of floors from the main entrance level of the building to the main entrance of the unit. "Same floor" indicates that the main entrance of the sample unit is on the same level as the main entrance that residents use to enter the building.

**Stories in structure.** The statistics are presented for all housing units, except for mobile homes. Any basement is included, whether finished or not. Finished attics also are included; unfinished attics are not. For split levels and bilevels, the number of stories is determined by the highest number of floors that are physically over each other.

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Structure type of previous residence. These data are shown for householders who moved within the United States during the previous 12 months. They are based on the respondent's classification.

Subsidies. See “Rent reductions.”

Suburbs. Suburbs are defined in the AHS as the portion of each metropolitan area that is not in any central city. See also “Central cities” and “Metropolitan areas.”

Suitability for year-round use. See “Vacancy, seasonality, and marketing.”

Supplemental heating equipment. Additional heating equipment for a heated area of the housing unit.

Taxes. See “Annual taxes paid per $1,000 value” and “Real estate taxes.”

Tenure. Any housing unit is owner occupied (including a cooperative or condominium unit) if someone whose name is on the deed, mortgage, or contract to purchase, lives in the unit. Units where the elderly “buy” a unit to live in for the remainder of their lives, after which it reverts to the seller, are considered owner-occupied. All other occupied housing units are classified as renter occupied units, including units rented for cash, if occupants or others pay some rent, and/or occupied without payment of cash rent, such as a life tenancy or a unit that comes free with a job. Households who do not pay cash rent may still pay utilities.

Tenure of previous unit. These data are shown for householders who moved within the United States during the 12 months prior to the interview. The previous unit was owner occupied if the owner or co-owner lived in the unit. All other previous units were renter occupied.

Term of primary mortgage at origination or assumption. Term is the number of years from the date the present owner-occupants first obtained the present mortgage to the date the last payment is due according to the terms of the contract. On a balloon mortgage this term may be short, and the last payment very large. In the books, medians for term of primary mortgage are rounded to the nearest year.

Total outstanding principal amount.

Books. The statistics shown represent the total amount of principal that would have to be paid off if the loans were paid off in full on the date of interview. The formula used to calculate the outstanding principal amount does not take into account the fact that some households make additional principal payments. The resulting data, therefore, may be an overestimate of the total outstanding principal. In the books, medians for outstanding principal amount are rounded to the nearest dollar. The data include all regular mortgages but exclude home equity loans.

Microdata. Not applicable.

Trash, litter, or junk on streets or any properties. The respondent was asked if there was trash, litter, or junk in the streets, roads, empty lots, or on any properties within 300 feet of the
building. Major accumulation includes tires, appliances or large amounts of trash accumulated over a period of time. Minor accumulation includes small amounts of paper, cans, or bottles that do not give the impression of long neglect. The property on which the sample unit is located is included.

**Trucks.** See “Cars and trucks available."

**Type of primary mortgage.** The federal government agencies that currently insure or guarantee mortgages or similar debts include the Federal Housing Administration (FHA), the Department of Veterans Affairs (VA), and the Farmers Home Administration (FmHA). Mortgage insurance is a promise to pay the lender’s losses in case the borrower fails to keep up the required mortgage payments and defaults on the loan. Such insurance protection is offered by the Government, acting as an insurance agent, and by private mortgage insurance companies. Mortgage loans that are not insured or guaranteed by these government agencies are referred to as “conventional” mortgages. Conventional mortgages, including mortgages insured or guaranteed by state or local governments, are shown as “Other types.”

**Units.** See “Housing unit,” “Occupied housing units,” “Vacancy, seasonality, and marketing.”

**Units in structure.** In determining the number of housing units in a structure, all units, occupied and vacant, were counted. The statistics are presented for the number of housing units, not the number of residential structures. A structure either has open space on all sides or is separated from other structures by dividing walls that extend from ground to roof.

Structures containing only one housing unit are further classified as: detached if it has open space on all four sides, or attached if it has unbroken walls extending from ground to roof that divide it from other adjoining structures, as in many rowhouses or townhouses. If a unit shares a furnace or boiler with adjoining units, then the walls are pierced by pipes or ducts, and all the units thus joined are included in one structure.

Mobile homes are shown as a separate category (see “Mobile homes”).

**Urban and rural residence.** As defined for the 1980 census, urban housing comprises all housing units (a) in urbanized areas and (b) in places (see Places) of 2,500 or more inhabitants outside urbanized areas, but excluding housing units in the rural portions of extended cities. Housing units not classified as urban are rural housing.

**Urbanized areas.** In the 1980 census, each urbanized area comprised an incorporated place and adjacent densely settled area (1.6 or more people per acre, or 1,000 or more people per square mile) that together had at least 50,000 population. It also included some less dense adjacent land such as industrial parks and golf courses inside city limits.

More information on urbanized areas and the historical development of the urban-rural definition appears in the 1980 Census of Population reports, *Characteristics of the Population, Number of Inhabitants, PC80-1-A.*

**Utilities.** See "Monthly costs for electricity and gas."
**Vacancy, seasonality.** A housing unit is vacant if no one is living in it at the time of the interview, unless its occupants are only temporarily absent. In addition, housing units where all the occupants have a usual residence elsewhere are grouped with vacant units.

*Year-round housing units.* This includes all units occupied by people as their usual residence, regardless of design, and all vacant units that are intended by the owner for occupancy at all times of the year. For example, if a unit in a resort area is intended for occupancy in all seasons, it is a year-round unit.

*For rent.* Owners of some units offer them for rent. Other owners solicit offers either for rent or for sale. When separate categories for these are not shown, they are both included in for rent, as in the rental vacancy rate.

*Rental vacancy rate.* The rental vacancy rate is the number of vacant year-round units for rent as a percent of the total rental inventory; i.e., all renter-occupied housing units and all year-round vacant housing units for rent or rented, not occupied.

*For sale only.* Units “for sale only" are offered for sale, and the owner does not solicit renter-occupants, even though the owner might eventually rent the unit.

*Rented or sold.* 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 unit is classified as rented or sold.

*Occasional use.* These are units held for weekend or other occasional use throughout the year. Second homes may be classified here or as seasonal.

*URE.* These are temporarily occupied by persons with Usual Residence Elsewhere. If all people in a housing unit usually live elsewhere, the unit is classified as vacant. For example, a beach cottage occupied at the time of the interview by a family that has a usual residence in the city is included in the count of vacant units. Their home in the city or the home of a comparable vacationing family also can be in the AHS sample and would be reported as occupied since the occupants are only temporarily absent. URE units also may be classified in any of the vacancy categories: seasonal or for sale.

*Other vacant.* 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.

*Seasonal units are intended by the owner to be occupied during only certain seasons of the year.* They are not anyone's usual residence. A seasonal unit may be used in more than one season; for example, for both summer and winter sports. Published counts of seasonal units also include housing units held for occupancy by migratory farm workers. While not currently intended for year-round use, most seasonal units could be used year-round; see the next item.

*Suitability for year-round use.* For vacant housing units that are not intended by their current owners for year-round use (seasonal and migratory), the respondent was asked whether the construction and heating of the housing unit made it suitable for the unit to be occupied on a
year-round basis. A housing unit is suitable for year-round use if it is built as a permanent structure, properly equipped, insulated, and heated as necessitated by the climate.

**Time sharing.** This item is restricted to vacant housing units, including units temporarily occupied by people who have usual residences elsewhere. Time sharing is a form of ownership in which a single property is owned by multiple owners. Each is entitled to occupy the unit for a limited period of time. The number of years of ownership may vary depending on the terms of the contract. Participants in time-sharing ownership usually, but not always, receive a deed of ownership.

**Duration of vacancy** refers to the length of time (in months) from the date the last occupants moved from the housing unit to the date of the interview. The data, therefore, do not provide a direct measure of the total length of time that units remain vacant. For newly constructed units that have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date that conversion or merger was completed.

**Last used as a permanent residence.** The statistics refer to the length of time (in months) since units that are currently seasonal vacant were last used as a permanent residence, and is measured as of the date of interview. Units that have always been used for short-term or seasonal occupancy, are classified as *Never occupied as permanent home.*

**Comparability.** There may be differences between the AHS and other surveys that present vacancy rates. The differences may be attributed to such factors as differing interview periods, survey designs, survey techniques, and processing procedures, as well as differences in concepts and definitions. In addition, there are sampling and nonsampling errors.

**Value.** Value is the respondent's estimate of how much the property (house and lot) would sell for if it were for sale. Any nonresidential portions of the property, any rental units, and land cost of mobile homes, are excluded from the value. 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. In the books, medians for value are rounded to the nearest dollar. See also "Ratio of value to current income."


**Water leakage during last 12 months.** Data on water leakage are shown if the leakage occurred in the 12 months prior to the interview or while the household was living in the unit if less than 12 months. Housing units with water leakage are classified by whether the water leaked in from inside or outside the building and by the most common areas (roof, basement, walls, closed windows, or doors) or reasons (fixtures backed up or overflowed or pipes leaked) of water leakage.

**Work.** See "Income" and "Journey to work."

**Year householder moved into unit.** The data are based on the information reported for the householder and refer to the year of latest move. Thus, if the householder moved back into a
housing unit previously occupied, the year of the latest move was to be reported. If the householder moved from one apartment to another in the same building, the year the householder moved into the present unit was to be reported. The intent is to establish the year present occupancy by the householder began. The year the householder moves is not necessarily the same year other members of the household move; although, in the great majority of cases the entire household moved at the same time. In the books, the median year householder moved into unit is rounded to the nearest year. See also “Year structure built.”

**Year primary mortgage originated.** The year the primary mortgage was originated is the year the mortgage was signed (see Primary mortgage). In the books, medians for year primary mortgage originated are rounded to the nearest year.

**Year structure built.** Year structure built represents the respondent’s estimate of when the building was first constructed, not when it was remodeled, added to, or converted. The figures refer to the number of housing units in structures built during the specified periods and in existence at the time of the interview. For mobile homes, the manufacturer’s model year was assumed to be the year built. For mobile homes, the year the householder moved in can be earlier than the year the structure was built because the mobile home site, not the mobile home itself, is in sample. The householder could have replaced an older mobile home with a newer model. In the books, median year built is rounded to the nearest year.

**Year unit acquired.** The year the unit was acquired or inherited refers to the year in which the present owner acquired or inherited the house or apartment; for example, the year the contract was signed. This date may be different from the date when the occupants moved in. If the land and building were bought at different times, the year the building was acquired was recorded. If there was a land contract only, the year the contract was signed was recorded. In the books, median year acquired is rounded to the nearest year.
Appendix C: SAS Programming Tips

This section is intended to provide some helpful hints and starting points for using the SAS statistical package to write programs for AHS data. It is not intended to serve as an introduction to SAS, or to statistical packages in general; rather, it assumes an already moderate amount of knowledge and familiarity with the use of SAS on the part of the reader.

Hopefully, this section will provide enough information to engage users in thinking about how to set things up in their programs, or lead them to refer to the SAS technical documentation for information on particular SAS commands. The information is SAS specific and may or may not be applicable to other statistical packages. Instructions on converting SAS files for use with SPSS are included at the very end of this section.

Data structure

AHS users should consider the following issues related to data structure to make processing easier.

**Flat file versus pieces**

Since 1997, the Census Bureau has published the AHS data in a SAS transport file containing different modules. The modules make data analysis easier by breaking the dataset into pieces. To conduct an analysis using the entire dataset, a “file-flattener” program that combines the modules into a format similar to the pre-1997 data is available on HUD USER. The main advantage of using the single file format is that all of the variables are in one place, allowing for analyses involving data across modules without having to merge on the data each time. The main disadvantage of this method is that the data file is much larger than when the data is in pieces because all variables must be included for each observation, even if they contain no information.

**Head of household information location in flat file**

In the flat file format, information on the household reference person (often known as the “head of the household”) is stored in position “1” of the collection of variables. For example, the marital status of the household reference person is stored in “MAR1”, his/her education is stored in “GRAD1”, etc. Therefore, it is not necessary to check the relationship codes each time the person characteristic variables are being used.

Data Manipulation

Particularly when working with large datasets such as the AHS, simplifying programs is critical to decreasing SAS processing time. This section provides a few brief tips on how to manipulate data in a manner that will increase SAS program speed.
**File size**

Generally in SAS, the smaller the data file is, the faster the program will run. This is because SAS is very disk intensive. Minimizing the amount of disk access reduces the running time of the program. Keep in mind the following to minimize file size:

**Keep and Drop to adjust variables**

- The SAS “keep” and “drop” data statements can be used to restrict which specific variables are in the data file.
- Limit the data file for analysis just to those variables that you are interested in analyzing will reduce file size and processing time.

**Limiting numbers of observations**

- Eliminate unnecessary observations by using the “delete” statement.
- Create a larger restriction on the number of observations in a data file through the “obs” option. This option can be used as part of the “options” global statement or as an option on the “data” and “set” commands. This feature is particularly useful when running a program for the first time to test for errors.

**SAS compress option**

- SAS can automatically compress the data sets it uses when given the “compress=yes” command on the “options” statement. The result of this command is that all datasets used by SAS are automatically reduced in size, if possible. Smaller datasets lead to less disk access, but potentially more CPU time for reading and writing.
- Given the current relationship in many computer networks of very fast processors to slow disk and network access, using the compress option generally leads to reduced processing time in programs and less disk space used.

**Use of arrays**

- “Arrays” are a method of easily referring to groups of variables as if they were vectors.
- Using an array simplifies programs and program maintenance. The user can set up loops to cycle through all of the variables in the array as opposed to large chunks of code to refer to every variable of interest.

**Weighting**

The AHS is a survey of housing units and so requires the use of “weights” to estimate the total numbers of households with a particular characteristic. For nearly all applications, the adjusted weight is the most appropriate weight to use.
Adjusted weight

- The adjusted weight – stored in the “weight” variable – is the estimated number of households that a particular observation is believed to represent.
- This weight is adjusted each year based on control totals from other Census data sources. This weight should provide a fairly accurate count of number of housing units with a particular characteristic.

Pure weight

- The pure weight – stored in the “pwt” variable – is the inverse of the probability of selection from when the sample was drawn.
- This weight will generally be constant except if there were changes in the sample (such as years with metro oversampling). This weight generally should only be used for certain time series analysis.

Missing values

While the introduction to the Allocation Variables chapter discusses the codings of missing values under the AHS, a useful tip for users is to know how SAS treats missing values in equality statements. Generally, SAS treats missing values as having a value less than all other values. This can cause logic issues for some programs. For example, if a statement in a SAS program says to set up a new variable “if age<10 ....”, then that statement would technically be true for all cases of age less than 10 AND all cases of missing data. As a result, you must set up the program to control for that condition, such as making the statement “if age<10 and age> -1 ....” to ensure that you do not include missing values.

Character vs. numeric definitions

SAS stores variable information as either character or numeric. There are times where you will want it in one format as opposed to another. It is not always possible to convert, for example you can’t convert a variable with the value of “a” to a numeric. But, you can convert a character “1” to a numeric “1” and vice versa.

This conversion may be useful depending on your particular analyses. In the following examples, “charvar” is the name of the character variable, while “numvar” is the name of the numeric variable. Note it is not possible to use the same name for both variables.

Converting numeric to character

- One way to convert a numeric variable to a character variable is to append a space at the end like:

  Charvar=numvar||“ “;

Converting character to numeric

- One way to convert a character variable to a numeric variable to add a 0 to it, like:
Numvar=charvar+0;

• Note that both the old and the new variables will exist in the data set. To remove the variable from the data set, use the SAS “drop” data statement.

Appearance for results

Although SAS is an extremely good statistical package, it is far weaker with presentation of information. There are a few “tips” to have the presentation of results look better.

Use of formats

Formats prompt SAS output to display a label associated with a particular value, rather than just the numeric code. AHS users may create self-designed formats using the “format” procedure, or pre-defined SAS formats for most variables are available on HUD USER.

Use of variable labels

Analogous to formats, SAS can display a label associated with a variable name as opposed to just the variable name. To associate a variable label, use the “label” command in a data statement.

SAS character sets

When SAS displays results, it uses different characters to display borders and lines in tables. These characters can be adjusted using the “-formchar” option. The default can also be adjusted by changing the system options.

Converting SAS files for use with SPSS

The SPSS syntax command for reading in various datasets in the SAS transport file is:

get sas data="file name" dset (dataset name)

where dataset names are the file modules mentioned at the beginning of this section, and further discussed in Appendix H. Note that if you omit specifying a dataset name, the command will extract only the first dataset in the transport file, which will probably be household or newhouse.
Appendix D: Allocation Matrices

General. Missing items on each housing unit are sometimes left on the file as missing data. Otherwise they are filled by cold deck allocation (for example TENURE is filled with owners twice as often as renters, mirroring the universe) or hot deck allocation (copying the answer from the most recent similar case processed). For hot deck allocation, the similar cases are defined by the cells of matrices, with the variables used in the construction of the matrix shown below.

When an answer is changed by allocating or editing, another variable is set to 1=edited or 2=allocated (0=unchanged). This variable has the same name as the substantive variable, with J added at the front, like JVALUE. If the variable name is already six characters long, the first letter is changed to J, like JENURE, the allocation variable for TENURE. The J does not stand for anything; it was chosen to minimize ambiguity, since only one active name already began with J (see index). For each variable, the codebook lists the corresponding allocation variable and what matrix was used, if applicable.

Purpose. Hot deck allocation preserves the mean and distribution of data. If an average value were used to fill missing data, distributions would appear much narrower than they are. Some groups have higher rates of missing data than others. For example, annual earnings are missing for young people much more often than for older people. If missing data were ignored, the average and distribution of the other people would be biased upwards, since the missing earnings are disproportionately low. The effect can be seen by comparing results with and without allocated data, using the J variables to identify allocated data. Bias remains, since the non-respondents vary in unknown ways from respondents, and the income data in particular are very weak (see Appendix D of Volume 3 of the AHS codebook), but hot deck allocation reduces the bias. While allocated data are generally wrong for the particular household, the overall distribution may be right. When variables are cross-tabulated, consider omitting allocated data since they weaken comparisons: the allocated cases will show random patterns, which will obscure any true relationship present. Also the allocated cases give a spurious impression of large sample sizes, where the actual sample may be much smaller.

Revisions. These matrices are revised for 1997 and future years. The previous matrices had been used since the 1980s, slightly revised from the ones used in the 1970s, which in turn appear to have been adapted from the Current Population Survey. The older matrices are shown in the Codebook Volume 1 pages 1-68 to 1-72. The purpose of the revision of allocation matrices has been to group similar homes together and avoid very small cells, where cases are few and far between. For information on the current construction of each matrix, please contact the American Housing Survey Branch of the Census Bureau at: ahsn@census.gov or 301-457-3235.

Keeping cells as large as possible, while making sure they contain homogeneous cases, means the cells are refreshed with new data as frequently as possible. This is important for two reasons. First, frequent refreshing of a cell keeps the donor record and the recipient record geographically close together, helping to control for climate, metropolitan status, cost of living, and other regional variations, since the cases are processed in geographic order. Second, frequent refreshing means very few donor records donate data to more than one recipient record, since the donor records are replaced frequently. Multiple donations raise variance significantly, since the donor record in effect gets its own weight plus the weight of each recipient record.
**Standard matrix.** Matrix E is used on most items. It is a general purpose classification, to be used when no special matrix has been designed. The revision of Matrix E is designed to make units in each cell be as homogeneous as possible on housing adequacy, date built, and income (income is not allocated from this matrix, but is a good proxy for some of the items that are).

To clarify terms, each matrix, like E, can be considered as two dimensional: the columns are defined (27 of them in matrix E), and there is a separate row for each variable to be allocated. Thus HEQUIP is allocated from one row of E, and HFUEL from another row. Each data record goes into just one column of the matrix, but it will donate data into many rows and may take data out of other rows whenever it has missing data. The definitions below only define the columns of each matrix. Rows are defined by the number of edits (given earlier) that specify "allocate using matrix E."

A previous version of Matrix E classified cells by tenure, by sex and race of head of household, and by number of units. The female, black and multi-family cells are generally small. There was very little difference between single family and multifamily units, once other factors were controlled. Presence of spouse distinguished homes better than sex of householder, and can usefully be combined with race, ethnicity and elderly status, since “socio-economically disadvantaged” groups often have similar housing conditions.

It was also very effective to distinguish in Matrix E by size of unit and cost. For size, units with zero, one or two bedrooms were similar and are grouped. Bedrooms are used instead of total rooms to avoid problems with all the component types that go into total rooms. Similarly, cost of renters is based on contract rent, to avoid problems with the various components of gross rent (selected monthly housing costs). The change in the cutoffs of value and rent with additional bedrooms approximates the differences among medians, by size. If narrower ranges of cost were used, there would have been somewhat better consistency in Matrix E, but with the disadvantage of more small cells.

**Rooms.** Matrix B, for rooms, is rearranged in the revision with less detail among small households and more detail by type of structure, since these groups had the most consistency for bedrooms and baths, the items that vary most in this matrix.

**Costs.** Matrix D, for utilities, is redesigned in terms of number of bedrooms and people, which distinguish utility costs better than race and sex. Increasing from one person to two or more adds about as much to electricity and gas cost as adding a bedroom. It does not seem to make much difference whether the extra person is a spouse, other adult or child. Increasing to three or more people does not have much additional effect. The effects may be different for water and trash, but these costs are so small it does not seem worthwhile to design, program and maintain special matrices for them. Matrix D also distinguishes when gas and electricity are the main heating fuel, versus when they are just used for other purposes (cooking, lighting, hot water). Oil and other fuels do not get this treatment, since they are insignificant except when they are the main heating fuel, and making a distinction would create many tiny cells.

Matrix H, to allocate amount of mortgage as fraction of value, is used differently from other matrices. Known loan amounts are subtracted from VALUE to get remaining equity, and a loan is allocated so it is the same fraction of this remaining equity in donor and recipient records. For example: the donor has three loans totaling 90 percent of value: 75 percent, 5 percent and 10 percent respectively. The recipient has VALUE =100,000, with 52,000 and 7,000 in the first two mortgages. The donor's third loan is 10/(100-75-5) = 10/20 of the donor's remaining equity. The recipient's remaining equity is 100,000-52,000-7,000 = 41,000, so the third loan is allocated as 10/20 of 41000 = 20,500. The approach shown allows each loan to be allocated independently,
but keeps a reasonable and consistent total for all loans, relative to the value of the house. The alternatives of allocating each loan as a fraction of VALUE or of other mortgages would often create total allocated plus unallocated loans exceeding VALUE. Matrices for mortgage term and interest are broken by year, which is more significant than value of house. Secondary mortgages are few and quite homogeneous, both by year and by value of house, so they are not subdivided in the matrix.

If monthly payment is not known, it is not allocated, but rather calculated. If the monthly payment question is answered but the answer disagree substantially with the calculated value, the answer is nevertheless kept since it is more likely to be right than the long list of items used in calculating the payment.

**Income.** Matrix G1 is used to allocate wages. Householders and spouses have similar wages, after controlling for sex of the earner and housing cost. Other relatives have similar incomes after controlling for age and housing cost. For these reasons, the relationship codes were collapsed. Age categories for children under 25 are now more detailed since this population is numerous and average income changes sharply with age. Cost of housing, a strong correlate of income, also has more detailed categories.

The Matrix G2 is used to allocate presence of income sources (other than wages). Presence of Social Security and pensions is extremely correlated with age of the elder of the householder or spouse, rising significantly above age 50, and jumping at 62 and 65.

The Matrix G3 is used to allocate the amount of family income other than wages.

The Matrix G10 is used to allocate total income of non-relatives.

In general, the presence of children is a better predictor of welfare and alimony than household size. Age 35 is a better distinguishing level for the sources of income than 25. Couples combined with sex of householder is more powerful than sex alone. Some cells become very small, and so have been collapsed.

For persons who refuse to answer income, the questionnaire has a fallback question that asks whether total family income was over $25,000 (LT25K). The matrices already discussed are allocated, ignoring this total, since each piece of income is allocated, and it may be high or low, independent of the total. Subdividing the matrices by high or low income would not help, since not all of a household’s income is necessarily allocated, so the household’s total could still be inconsistent. A multi-step edit is specified after the G matrices to force consistency: If the total already allocated agrees with LT25K, no further changes are needed. Also if just the unallocated amounts exceed $25,000 and the family said the total was under $25,000, the constraint on the total is ignored and the detailed sources of income is used. But if allocated amounts are the sole cause of a conflict with LT25K, this conflict is resolved by increasing or decreasing all the allocated amounts until consistency is reached. This creates a range of outcomes, rather than forcing people just below or above $25,000 as has been done before.

As a measure of quality and respondent cooperation, the original answers to LT25K and INV20K are preserved, even if they are inconsistent.

**Commuting and Movers.** The Matrix JTW is used for commuting. The variable allocated would be minutes per mile, TIMEJ (w)/DISTJ (w), so if either is reported, the other can be calculated from the allocation matrix. If both are missing, then TIMEJ (w) is allocated from Matrix G1, along with the mode and carpool variables.
The previous approach used Matrix F to allocate location of previous residence. This is omitted from the revision, so numerous missing cases will be preserved in the final data, since the distribution of previous locations is not meaningful when it is imputed.

**Revisions.** The research on allocation matrices can be fine-tuned at any time to identify better patterns of homogeneous groups. The patterns themselves are unlikely to change in the next 10 to 20 years, but the whole approach may be slightly revised from year to year. For exact information on the construction of matrices in any particular year of the AHS, please contact the American Housing Survey Branch of the Census Bureau at: ahsn@census.gov or 301-457-3235.

**Initialization.** The matrices are initialized by running through the file once whenever any allocation matrix definition is changed. The final matrix contents can be stored and used as initial values. This simplifies maintenance, since the variables allocated by each matrix do not need to be mentioned in the matrix specifications, and can be changed in the edit specifications alone, with no concerns about keeping the matrix specifications consistent with the edit specifications.

A list of variables used to create each matrix is provided below.

**Matrix A – To Impute Number of Units: Classify by Tenure, Vacancy and Number of Floors**

- FLOORS
- ISTATUS
- TENURE
- VACANCY

**Matrix B – To Impute Number of Rooms and Floors: Classify by Tenure, Vacancy, Structure and Household Size**

- ISTATUS
- NUNIT2
- NUNITS
- PER
- TENURE
- VACANCY

**Matrix D – To Impute Utility Costs: Classify by Tenure, Bedrooms, People and Main Heating Fuel**

- BEDRMS
- HFUEL
- PER
- TENURE
- VACANCY
Matrix E – To Impute Most Items: Classify by Tenure, Householder Sex, Race, Ethnicity, Age, Cost and Type of Structure

- AGE
- BEDRMS
- FRENT
- ISTATUS
- NUNIT2
- RACE
- RENT
- SPAN
- SPOS
- TENURE
- VACANCY
- VALUE

Matrix G1 – To Impute Wages (and Total Income of Nonrelatives): Classify by Relationship, Tenure, Age, Sex, Race and Ethnicity

- AGE
- BEDRMS
- FRENT
- RACE
- RENT
- REL
- SEX
- SPAN
- TENURE
- VALUE

Matrix G2 – To Impute Presence of Income Sources Other than Wages and Social Security: Classify by Relationship, Tenure, Age, Sex, and Presence of Children

- AGE
- BEDRMS
- FRENT
- RACE
- RENT
- SEX
- SPOS
- TENURE
Matrix GA – To Impute Presence of Social Security: Classify by Older of Householder or Spouse

- AGE

Matrix G3 – To Impute Amount of Relatives’ Income Other than Wages: Classify by Relationship, Tenure, Age, Sex, Presence of Children, and Presence of Income Sources

- AGE
- LT25K
- QALIM
- QBUS
- QDIV
- QINT
- QOTHER
- QRENT
- QWELF
- QWKCMP
- SEX
- SPOS
- TENURE
- ZINC

Matrix H – To Impute Amount Originally Borrowed: Classify by Number of Mortgages

- AMMORT
- AMMRT2-AMMRT3
- MATBUY
- VALUE

Matrix I – To Impute Years Needed to Pay off Mortgage and Interest Rate: Classify by Year Borrowed and Type of Mortgage

- Primary Mortgage
- Secondary Mortgage
- Year Borrowed
- Year of Survey
Matrix JTW – To Impute Time and Distance to Work: Classify by Mode of Transportation

- TRAN
Appendix E: Coding for Exclusion from Universes

Census uses blanking edits to indicate when values are “out of universe” or not present subject to certain conditions. This appendix contains the exact codings for these “out of universe” conditions. The following 15 variables are included in the Census codings but are not available in the public use file. For more information on them, please contact the Census Bureau.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GQINST</td>
<td>Defines units as being in group quarters or not and whether the group quarters are institutional (jails) or non-institutional (dorms)</td>
</tr>
<tr>
<td>FPHEQP</td>
<td>Determines if a fireplace is considered to be heating equipment.</td>
</tr>
<tr>
<td>HHMEM</td>
<td>Identifies if a current occupant is a household member.</td>
</tr>
<tr>
<td>INCSAM</td>
<td>Identifies whether a serial number is in sample for the first time, or is a returning case.</td>
</tr>
<tr>
<td>OWNLOT1</td>
<td>Determines if mobile home occupants own the land where the unit is sited.</td>
</tr>
<tr>
<td>OWNLOT2</td>
<td>Determines if a vacant or URE-occupied mobile home is on owned or rented land.</td>
</tr>
<tr>
<td>PEELRM</td>
<td>Determines which room has the most peeling paint (in the lead paint module)</td>
</tr>
<tr>
<td>PHAFLG</td>
<td>Identifies units that are part of a public housing authority. (This variable is not actually used.)</td>
</tr>
<tr>
<td>REPLHH</td>
<td>Identifies replacement households. (Used to create the SAMEHH Variable.)</td>
</tr>
<tr>
<td>RMOVM</td>
<td>Month of move for recent movers.</td>
</tr>
<tr>
<td>ROOM</td>
<td>Variable for room heaters as secondary equipment. (It is split into FLIN and FLOT.)</td>
</tr>
<tr>
<td>SPOUS</td>
<td>Line number of spouse.</td>
</tr>
<tr>
<td>SPOUS_FLG</td>
<td>Identifies if spouse is present in household.</td>
</tr>
<tr>
<td>SURVEYEAR</td>
<td>Identifies survey year.</td>
</tr>
<tr>
<td>TOTINC</td>
<td>Recode at time of interview for total family income. (Uses unedited data.)</td>
</tr>
</tbody>
</table>
ACCESS
1: [(STATUS eq 1 to 3)] AND [(TYPE eq 10 to 11)]; OR
2: [(STATUS eq 1 to 3)] AND [GQINST eq 'I']; OR
3: [STATUS eq 4] AND [(NOINT eq 1 to 6)]; OR
4: [STATUS eq 4] AND [(NOINT eq 10 to 17)]; OR
5: [STATUS eq 4] AND [(NOINT eq 30 to 38)]

AFUEL
1: [(STATUS eq 1 to 3)] AND [AIRSYS eq 2]; OR
2: [(STATUS ne 1 to 3)]

AFUR
1: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3)] AND [NONE eq 'X']; OR
3: [(STATUS ne 1 to 3)]

AIR
1: [(STATUS ne 1 to 3)]

AIRSYS
1: [(STATUS ne 1 to 3)]

AMMORT
1: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
2: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG eq 1]

AMMRT2
1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]
AMMRT3

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL eq 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

AMMRT4

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL eq 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

AMRTZ

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and NEWMOR ne 2] AND [(TERM eq 15 to 41)]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [NEWMOR eq 2]; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

AMRTZ2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and NEWMR2 ne 2] AND [(TERM2 eq 15 to 41)]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [NEWMR2 eq 2]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]
AMTE

1: [(STATUS eq 2 to 3) AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [(STATUS eq 1) AND [(BUYE eq 1 to 3)]]

AMTF

1: [(STATUS eq 2 to 3) AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [(STATUS eq 1) AND [(BUYF eq 1 to 3)]]; OR
5: [(STATUS eq 1) AND [BILLF eq 2]]

AMTG

1: [(STATUS eq 2 to 3) AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [(STATUS eq 1) AND [(BUYG eq 1 to 3)]]; OR
5: [(STATUS eq 1) AND [BILLG eq 2]]; OR
6: [(STATUS eq 1) AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']]}

AMTI

1: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4)) AND [PHAFLG eq 1]; OR
2: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4)) AND [PHAFLG ne 1]; OR
3: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or VACANCY eq 4) AND [(RCNTRL eq 1 to 2) or RCNTRL eq 'D' or RCNTRL eq 'R']]; OR
4: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or VACANCY eq 4) AND [PROJ eq 1]]; OR
5: [(STATUS eq 2 to 3) AND ((VACANCY eq 1 to 2) or VACANCY eq 4)] AND [SUBRNT eq 1]; OR
6: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]]; OR
7: [(STATUS eq 2 to 3) AND [VACANCY eq 3 or VACANCY eq 5]]; OR
8: [(STATUS ne 1 to 3)]; OR
9: [(STATUS eq 1 and (TENURE eq 2 to 3)] AND [BUYI eq 2 or BUYI eq 'D' or BUYI eq 'R']]; OR
10: [(STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]]

AMTM

1: [(STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [OTHPMT ne 1]; OR
Appendix E: Coding for Exclusion from Universes

2: \([\text{STATUS} \text{ eq 1 and TENURE eq 1 and MG eq 1}] \text{ AND } [(\text{MCNT ne 1 to 7})]; \text{ OR}
3: \([\text{STATUS} \text{ eq 1 and TENURE eq 1}] \text{ AND } [\text{MG ne 1 and HEL ne 1}] \text{; OR}
4: \([\text{STATUS} \text{ eq 1 and TENURE eq 1}] \text{ AND } [\text{MG ne 1}]\)

**AMTM2**

1: \([\text{STATUS} \text{ eq 1 and TENURE eq 1 and MCNT eq 1}] \text{ AND } [\text{HEL eq 1}] \text{; OR}
2: \([\text{STATUS} \text{ eq 1 and TENURE eq 1 and MCNT eq 1}] \text{ AND } [\text{HEL ne 1}] \text{; OR}
3: \([\text{STATUS} \text{ eq 1 and TENURE eq 1 and MCNT ge 2}] \text{ AND } [\text{OTPMT2 ne 1}] \text{; OR}
4: \([\text{STATUS} \text{ eq 1 and TENURE eq 1 and MG eq 1}] \text{ AND } [(\text{MCNT ne 1 to 7})]; \text{ OR}
5: \([\text{STATUS} \text{ eq 1 and TENURE eq 1}] \text{ AND } [\text{MG ne 1 and HEL ne 1}] \text{; OR}
6: \([\text{STATUS} \text{ eq 1 and TENURE eq 1}] \text{ AND } [\text{MG ne 1}]\)

**AMTO**

1: \([(\text{STATUS eq 2 to 3}) \text{ AND } [(\text{VACANCY eq 1 to 5})]; \text{ OR}
2: \([(\text{STATUS eq 2 to 3}) \text{ AND } [(\text{VACANCY eq 6 to 11})]; \text{ OR
3: \([(\text{STATUS ne 1 to 3})]; \text{ OR
4: \([\text{STATUS eq 1}] \text{ AND } [(\text{BUYO eq 1 to 3})]; \text{ OR
5: \([\text{STATUS eq 1}] \text{ AND } [\text{BILLO eq 2}]\)

**AMTT**

1: \([(\text{STATUS eq 2 to 3}) \text{ AND } [(\text{VACANCY eq 1 to 5})]; \text{ OR
2: \([(\text{STATUS eq 2 to 3}) \text{ AND } [(\text{VACANCY eq 6 to 11})]; \text{ OR
3: \([(\text{STATUS ne 1 to 3})]; \text{ OR
4: \([\text{STATUS eq 1}] \text{ AND } [(\text{BUYT eq 1 to 3})]; \text{ OR
5: \([\text{STATUS eq 1}] \text{ AND } [\text{BILLT eq 2}]\)

**AMTW**

1: \([(\text{STATUS eq 2 to 3}) \text{ AND } [(\text{VACANCY eq 1 to 5})]; \text{ OR
2: \([(\text{STATUS eq 2 to 3}) \text{ AND } [(\text{VACANCY eq 6 to 11})]; \text{ OR
3: \([(\text{STATUS ne 1 to 3})]; \text{ OR
4: \([\text{STATUS eq 1}] \text{ AND } [(\text{BUYW eq 2 to 3})]; \text{ OR
5: \([\text{STATUS eq 1}] \text{ AND } [\text{BILLW eq 2}]\)

**ANCHOR**

1: \([(\text{STATUS eq 1 to 3}) \text{ AND } [(\text{NUNIT2 ne 4 to 5})]; \text{ OR
2: \([(\text{STATUS eq 1 to 3})];

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ANYCAR
1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [ANYRUG ne 1]; OR
3: [STATUS eq 1] AND [BEAF78 eq 2]; OR
4: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
5: [STATUS ne 1]

ANYPNT
1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [BEAF78 eq 2]; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [STATUS ne 1]

ANYRUG
1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [BEAF78 eq 2]; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [STATUS ne 1]

APPLY
1: [(STATUS eq 2 to 3) AND ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG eq 1]; OR
2: [(STATUS eq 2 to 3) AND ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG ne 1]; OR
3: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
4: [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
5: [(STATUS ne 1 to 3)]; OR
6: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PHAFLG eq 1]; OR
7: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PROJ eq 'D' and (RENEW eq 1 or RENEW eq 'R') and REPHA ne 2 and PHAFLG ne 1]; OR
8: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PROJ eq 'D' and (RENEW eq 2 or RENEW eq 'D') and SUBRNT ne 1 and PHAFLG ne 1]; OR
9: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PROJ eq 1]; OR
10: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [SUBRNT eq 2 and PHAFLG ne 1]; OR
11: [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
12: [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]
1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and (MORTIN eq 1 or MORTIN eq 2 or MORTIN eq 4 or MORTIN eq 'D' or MORTIN eq 'R'))] AND [VARY ne 2]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [MORTIN eq 3]; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

ARM2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and (MORTN2 eq 1 or MORTN2 eq 2 or MORTN2 eq 4 or MORTN2 eq 'D' or MORTN2 eq 'R'))] AND [VARY2 ne 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [MORTN2 eq 3]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

BADSTEP

1: ([STATUS eq 1 to 3]) AND [NUNIT2 ne 3 and NUNIT2 ne 5]; OR
2: [STATUS eq 4]

BANK

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [MORTIN ne 4 and MORTIN ne 'D' and MORTIN ne 'R']; OR
2: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

BANK2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [MORTN2 ne 4 and MORTN2 ne 'D' and MORTN2 ne 'R']; OR
4: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

BATHS
1 : ([STATUS ne 1 to 3])

BBLDG

1 : [STATUS eq 4] AND [(NOINT ne 11 to 12) and (NOINT ne 14 to 17)] ; OR
2 : [STATUS ne 4]

BDCARP

1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)] ; OR
2 : [STATUS eq 1] AND [ANYCAR ne 1] ; OR
3 : [STATUS eq 1] AND [ANYRUG ne 1] ; OR
4 : [STATUS eq 1] AND [BEAF78 eq 2] ; OR
5 : [STATUS eq 1] AND [BEDRMS eq 0] ; OR
6 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)] ; OR
7 : [STATUS ne 1]

BEAF78

1 : [STATUS eq 1] AND [(LAT70S eq 5 to 7)] ; OR
2 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)] ; OR
3 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [STATUS eq 1] AND [BUILT le 1970 and BUILT ge 1919] ; OR
5 : [STATUS eq 1] AND [BEAF78 eq 2] ; OR
6 : [STATUS eq 1] AND [BEDRMS eq 0] ; OR
7 : [STATUS ne 1]

BEDRMS

1 : ([STATUS ne 1 to 3])

BEDX

1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)] ; OR
2 : [STATUS eq 1] AND [ANYCAR ne 1] ; OR
3 : [STATUS eq 1] AND [ANYRUG ne 1] ; OR
4 : [STATUS eq 1] AND [BDCARP ne 1] ; OR
5 : [STATUS eq 1] AND [BEAF78 eq 2] ; OR
6 : [STATUS eq 1] AND [BEDRMS eq 0] ; OR
7 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)] ; OR
8 : [STATUS ne 1]

BIGP
1: \([\text{STATUS eq } 4]\)

**BIGPEL**

1: \([\text{STATUS eq } 1] \text{ AND } [(\text{LAT70S eq } 8 \text{ to } 9)]\); OR
2: \([\text{STATUS eq } 1] \text{ AND } [(\text{BEAF78 eq } 2)]\); OR
3: \([\text{STATUS eq } 1] \text{ AND } [(\text{BUILT ge } 1980 \text{ and } \text{BUILT le } (&\text{SURVYEAR } + 1))]; \text{ OR}\n4: \([\text{STATUS eq } 1] \text{ AND } [(\text{OUTPEL ne } 1)]\); OR
5: \([\text{STATUS eq } 1] \text{ AND } [(\text{OUTPNT ne } 1)]\); OR
6: \([\text{STATUS ne } 1]\)

**BILLF**

1: \([[(\text{STATUS eq } 2 \text{ to } 3)] \text{ AND } [(\text{VACANCY eq } 1 \text{ to } 5)]]; \text{ OR}\n2: \([[(\text{STATUS eq } 2 \text{ to } 3)] \text{ AND } [(\text{VACANCY eq } 6 \text{ to } 11)]]; \text{ OR}\n3: \([[(\text{STATUS ne } 1 \text{ to } 3)]]; \text{ OR}\n4: \([\text{STATUS eq } 1] \text{ AND } [(\text{AMTF eq } 4 \text{ to } 9998)]]; \text{ OR}\n5: \([\text{STATUS eq } 1] \text{ AND } [(\text{BUYF eq } 1 \text{ to } 3)]\)

**BILLFE**

1: \([[(\text{STATUS eq } 2 \text{ to } 3)] \text{ AND } [(\text{VACANCY eq } 1 \text{ to } 5)]]; \text{ OR}\n2: \([[(\text{STATUS eq } 2 \text{ to } 3)] \text{ AND } [(\text{VACANCY eq } 6 \text{ to } 11)]]; \text{ OR}\n3: \([[(\text{STATUS ne } 1 \text{ to } 3)]]; \text{ OR}\n4: \([\text{STATUS eq } 1] \text{ AND } [(\text{AMTF eq } 4 \text{ to } 9998)]]; \text{ OR}\n5: \([\text{STATUS eq } 1] \text{ AND } [(\text{BUYF eq } 1 \text{ to } 3)]\); OR
6: \([\text{STATUS eq } 1] \text{ AND } [(\text{BUYF eq } 1 \text{ to } 3)]\); OR
7: \([\text{STATUS eq } 1] \text{ AND } [(\text{BILLF eq } 1 \text{ or } \text{BILLF eq 'D' or } \text{BILLF eq 'R')}]]\)

**BILLFG**

1: \([[(\text{STATUS eq } 2 \text{ to } 3)] \text{ AND } [(\text{VACANCY eq } 1 \text{ to } 5)]]; \text{ OR}\n2: \([[(\text{STATUS eq } 2 \text{ to } 3)] \text{ AND } [(\text{VACANCY eq } 6 \text{ to } 11)]]; \text{ OR}\n3: \([[(\text{STATUS ne } 1 \text{ to } 3)]]; \text{ OR}\n4: \([\text{STATUS eq } 1] \text{ AND } [(\text{AMTF eq } 4 \text{ to } 9998)]]; \text{ OR}\n5: \([\text{STATUS eq } 1] \text{ AND } [(\text{BUYF eq } 1 \text{ to } 3)]\); OR
6: \([\text{STATUS eq } 1] \text{ AND } [(\text{BUYF eq } 1 \text{ to } 3)]\); OR
7: \([\text{STATUS eq } 1] \text{ AND } [(\text{BILLF eq } 1 \text{ or } \text{BILLF eq 'D' or } \text{BILLF eq 'R')}]; \text{ OR}\n8: \([\text{STATUS eq } 1] \text{ AND } [(\text{USEGAS eq } 2 \text{ or USEGAS eq 'D' or USEGAS eq 'R')})]\)

**BILLFO**

1: \([[(\text{STATUS eq } 2 \text{ to } 3)] \text{ AND } [(\text{VACANCY eq } 1 \text{ to } 5)]]; \text{ OR}\n
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2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTF eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYF eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYO eq 1 to 3)]; OR
7 : [STATUS eq 1] AND [BILLF eq 1 or BILLF eq 'D' or BILLF eq 'R']

BILLFT

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTF eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYF eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYT eq 1 to 3)]; OR
7 : [STATUS eq 1] AND [BILLF eq 1 or BILLF eq 'D' or BILLF eq 'R']

BILLFW

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTF eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYF eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYW eq 2 to 3)]; OR
7 : [STATUS eq 1] AND [BILLF eq 1 or BILLF eq 'D' or BILLF eq 'R']

BILLG

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTG eq 4 to 998)]; OR
5 : [STATUS eq 1] AND [(BUYG eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']

BILLGE

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTG eq 4 to 998)]; OR
5 : [STATUS eq 1] AND [(BUYE eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYG eq 1 to 3)]; OR
7: \[\text{STATUS eq 1} \text{ AND [BILLG eq 1 or BILLG eq 'D' or BILLG eq 'R']}; \text{ OR}\]
8: \[\text{STATUS eq 1} \text{ AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']}\]

**BILLGF**

1: \[\text{[STATUS eq 2 to 3]} \text{ AND [VACANCY eq 1 to 5]}]; \text{ OR}\]
2: \[\text{[STATUS eq 2 to 3]} \text{ AND [VACANCY eq 6 to 11]}]; \text{ OR}\n3: \[\text{[STATUS ne 1 to 3]}]; \text{ OR}\n4: \[\text{[STATUS eq 1]}\text{ AND [AMTG eq 4 to 998]}]; \text{ OR}\n5: \[\text{[STATUS eq 1]}\text{ AND [(BUYF eq 1 to 3)]}; \text{ OR}\n6: \[\text{[STATUS eq 1]}\text{ AND [(BUYG eq 1 to 3)]}; \text{ OR}\n7: \[\text{[STATUS eq 1]}\text{ AND [BILLG eq 1 or BILLG eq 'D' or BILLG eq 'R']}; \text{ OR}\n8: \[\text{[STATUS eq 1]}\text{ AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']}\]

**BILLGO**

1: \[\text{[STATUS eq 2 to 3]} \text{ AND [VACANCY eq 1 to 5]}]; \text{ OR}\n2: \[\text{[STATUS eq 2 to 3]} \text{ AND [VACANCY eq 6 to 11]}]; \text{ OR}\n3: \[\text{[STATUS ne 1 to 3]}]; \text{ OR}\n4: \[\text{[STATUS eq 1]}\text{ AND [AMTG eq 4 to 998]}]; \text{ OR}\n5: \[\text{[STATUS eq 1]}\text{ AND [(BUYG eq 1 to 3)]}; \text{ OR}\n6: \[\text{[STATUS eq 1]}\text{ AND [(BUYO eq 1 to 3)]}; \text{ OR}\n7: \[\text{[STATUS eq 1]}\text{ AND [BILLG eq 1 or BILLG eq 'D' or BILLG eq 'R']}; \text{ OR}\n8: \[\text{[STATUS eq 1]}\text{ AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']}\]

**BILLGT**

1: \[\text{[STATUS eq 2 to 3]} \text{ AND [VACANCY eq 1 to 5]}]; \text{ OR}\n2: \[\text{[STATUS eq 2 to 3]} \text{ AND [VACANCY eq 6 to 11]}]; \text{ OR}\n3: \[\text{[STATUS ne 1 to 3]}]; \text{ OR}\n4: \[\text{[STATUS eq 1]}\text{ AND [AMTG eq 4 to 998]}]; \text{ OR}\n5: \[\text{[STATUS eq 1]}\text{ AND [(BUYT eq 1 to 3)]}; \text{ OR}\n7: \[\text{[STATUS eq 1]}\text{ AND [BILLG eq 1 or BILLG eq 'D' or BILLG eq 'R']}; \text{ OR}\n8: \[\text{[STATUS eq 1]}\text{ AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']}\]

**BILLGW**

1: \[\text{[STATUS eq 2 to 3]} \text{ AND [VACANCY eq 1 to 5]}]; \text{ OR}\n2: \[\text{[STATUS eq 2 to 3]} \text{ AND [VACANCY eq 6 to 11]}]; \text{ OR}\n3: \[\text{[STATUS ne 1 to 3]}]; \text{ OR}\n4: \[\text{[STATUS eq 1]}\text{ AND [AMTG eq 4 to 998]}]; \text{ OR}\n5: \[\text{[STATUS eq 1]}\text{ AND [(BUYW eq 2 to 3)]}; \text{ OR}
7 : [STATUS eq 1] AND [BILLG eq 1 or BILLG eq 'D' or BILLG eq 'R']; OR
8 : [STATUS eq 1] AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']

**BILLO**

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTO eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYO eq 1 to 3)]

**BILLOE**

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTO eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYE eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYO eq 1 to 3)]; OR
7 : [STATUS eq 1] AND [BILLO eq 1 or BILLO eq 'D' or BILLO eq 'R']

**BILLOF**

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTO eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYF eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYO eq 1 to 3)]; OR
7 : [STATUS eq 1] AND [BILLO eq 1 or BILLO eq 'D' or BILLO eq 'R']

**BILLOG**

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTO eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYG eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYO eq 1 to 3)]; OR
7 : [STATUS eq 1] AND [BILLO eq 1 or BILLO eq 'D' or BILLO eq 'R']
8 : [STATUS eq 1] AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']

**BILLOT**
1: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 1 \text{ to} \ 5)]; \text{ OR} \\
2: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 6 \text{ to} \ 11)]; \text{ OR} \\
3: \([(\text{STATUS} \text{ ne} \ 1 \text{ to} \ 3)]; \text{ OR} \\
4: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{AMTO} \text{ eq} \ 4 \text{ to} \ 9998)]; \text{ OR} \\
5: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{BUYO} \text{ eq} \ 1 \text{ to} \ 3)]; \text{ OR} \\
6: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{BUYT} \text{ eq} \ 1 \text{ to} \ 3)]; \text{ OR} \\
7: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [\text{BILLLO} \text{ eq} \ 1 \text{ or} \ \text{BILLLO} \text{ eq} \ 'D' \text{ or} \ \text{BILLLO} \text{ eq} \ 'R'] \\

**BILLLO** \\
1: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 1 \text{ to} \ 5)]; \text{ OR} \\
2: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 6 \text{ to} \ 11)]; \text{ OR} \\
3: \([(\text{STATUS} \text{ ne} \ 1 \text{ to} \ 3)]; \text{ OR} \\
4: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{AMTO} \text{ eq} \ 4 \text{ to} \ 9998)]; \text{ OR} \\
5: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{BUYO} \text{ eq} \ 1 \text{ to} \ 3)]; \text{ OR} \\
6: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{BUYW} \text{ eq} \ 2 \text{ to} \ 3)]; \text{ OR} \\
7: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [\text{BILLLO} \text{ eq} \ 1 \text{ or} \ \text{BILLLO} \text{ eq} \ 'D' \text{ or} \ \text{BILLLO} \text{ eq} \ 'R'] \\

**BILLT** \\
1: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 1 \text{ to} \ 5)]; \text{ OR} \\
2: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 6 \text{ to} \ 11)]; \text{ OR} \\
3: \([(\text{STATUS} \text{ ne} \ 1 \text{ to} \ 3)]; \text{ OR} \\
4: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{AMTT} \text{ eq} \ 4 \text{ to} \ 9998)]; \text{ OR} \\
5: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{BUYT} \text{ eq} \ 1 \text{ to} \ 3]) \\

**BILLTE** \\
1: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 1 \text{ to} \ 5)]; \text{ OR} \\
2: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 6 \text{ to} \ 11)]; \text{ OR} \\
3: \([(\text{STATUS} \text{ ne} \ 1 \text{ to} \ 3)]; \text{ OR} \\
4: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{AMTT} \text{ eq} \ 4 \text{ to} \ 9998)]; \text{ OR} \\
5: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{BUYF} \text{ eq} \ 1 \text{ to} \ 3)]; \text{ OR} \\
6: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{BUYF} \text{ eq} \ 1 \text{ to} \ 3)]; \text{ OR} \\
7: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [\text{BILLTE} \text{ eq} \ 1 \text{ or} \ \text{BILLTE} \text{ eq} \ 'D' \text{ or} \ \text{BILLTE} \text{ eq} \ 'R'] \\

**BILLTF** \\
1: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 1 \text{ to} \ 5)]; \text{ OR} \\
2: \([(\text{STATUS} \text{ eq} \ 2 \text{ to} \ 3)] \text{ AND } [(\text{VACANCY} \text{ eq} \ 6 \text{ to} \ 11)]; \text{ OR} \\
3: \([(\text{STATUS} \text{ ne} \ 1 \text{ to} \ 3)]; \text{ OR} \\
4: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{AMTT} \text{ eq} \ 4 \text{ to} \ 9998)]; \text{ OR} \\
5: \([(\text{STATUS} \text{ eq} \ 1)] \text{ AND } [(\text{BUYF} \text{ eq} \ 1 \text{ to} \ 3)]; \text{ OR}
6 : [STATUS eq 1] AND [(BUYT eq 1 to 3)] ; OR
7 : [STATUS eq 1] AND [BILLT eq 1 or BILLT eq 'D' or BILLT eq 'R']

BILLTG

1 : [[STATUS eq 2 to 3]] AND [[VACANCY eq 1 to 5]]; OR
2 : [[STATUS eq 2 to 3]] AND [[VACANCY eq 6 to 11]]; OR
3 : [[STATUS ne 1 to 3]]; OR
4 : [STATUS eq 1] AND [(AMTT eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYG eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYT eq 1 to 3)]; OR
7 : [STATUS eq 1] AND [BILLT eq 1 or BILLT eq 'D' or BILLT eq 'R']; OR
8 : [STATUS eq 1] AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']

BILLTO

1 : [[STATUS eq 2 to 3]] AND [[VACANCY eq 1 to 5]]; OR
2 : [[STATUS eq 2 to 3]] AND [[VACANCY eq 6 to 11]]; OR
3 : [[STATUS ne 1 to 3]]; OR
4 : [STATUS eq 1] AND [(AMTT eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYO eq 1 to 3)]; OR
6 : [STATUS eq 1] AND [(BUYT eq 1 to 3)]; OR
7 : [STATUS eq 1] AND [BILLT eq 1 or BILLT eq 'D' or BILLT eq 'R']

BILLTW

1 : [[STATUS eq 2 to 3]] AND [[VACANCY eq 1 to 5]]; OR
2 : [[STATUS eq 2 to 3]] AND [[VACANCY eq 6 to 11]]; OR
3 : [[STATUS ne 1 to 3]]; OR
4 : [STATUS eq 1] AND [(BUYT eq 1 to 3)]; OR
5 : [STATUS eq 1] AND [(BUYW eq 2 to 3)]; OR
6 : [STATUS eq 1] AND [BILLT eq 1 or BILLT eq 'D' or BILLT eq 'R']

BILLW

1 : [[STATUS eq 2 to 3]] AND [[VACANCY eq 1 to 5]]; OR
2 : [[STATUS eq 2 to 3]] AND [[VACANCY eq 6 to 11]]; OR
3 : [[STATUS ne 1 to 3]]; OR
4 : [STATUS eq 1] AND [(AMTW eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [(BUYW eq 2 to 3)]

BILLWE
1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [(STATUS eq 1) AND [(AMTW eq 4 to 9998)]]; OR
5: [(STATUS eq 1) AND [(BUYE eq 1 to 3)]]; OR
6: [(STATUS eq 1) AND [(BUYW eq 2 to 3)]]; OR
7: [(STATUS eq 1) AND [(BILLW eq 1 or BILLW eq 'D' or BILLW eq 'R')]

BILLWF

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [(STATUS eq 1) AND [(AMTW eq 4 to 9998)]]; OR
5: [(STATUS eq 1) AND [(BUYF eq 1 to 3)]]; OR
6: [(STATUS eq 1) AND [(BUYW eq 2 to 3)]]; OR
7: [(STATUS eq 1) AND [(BILLW eq 1 or BILLW eq 'D' or BILLW eq 'R')]

BILLWG

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [(STATUS eq 1) AND [(AMTW eq 4 to 9998)]]; OR
5: [(STATUS eq 1) AND [(BUYG eq 1 to 3)]]; OR
6: [(STATUS eq 1) AND [(BUYW eq 2 to 3)]]; OR
7: [(STATUS eq 1) AND [(BILLW eq 1 or BILLW eq 'D' or BILLW eq 'R')]]; OR
8: [(STATUS eq 1) AND [(USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R')]}

BILLWO

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [(STATUS eq 1) AND [(AMTW eq 4 to 9998)]]; OR
5: [(STATUS eq 1) AND [(BUYO eq 1 to 3)]]; OR
6: [(STATUS eq 1) AND [(BUYW eq 2 to 3)]]; OR
7: [(STATUS eq 1) AND [(BILLW eq 1 or BILLW eq 'D' or BILLW eq 'R')]

BILLWT

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1] AND [(BUYT eq 1 to 3)] ; OR
5: [STATUS eq 1] AND [(BUYW eq 2 to 3)] ; OR
6: [STATUS eq 1] AND [BILLW eq 1 or BILLW eq 'D' or BILLW eq 'R']

BLDMNT

1: [(STATUS eq 2 to 3)] ; OR
2: [STATUS eq 1] AND [TENURE eq 1] ; OR
3: [STATUS eq 4]

BLEAK

1: [(STATUS eq 2 to 3)] ; OR
2: [STATUS eq 1] AND [LEAK ne 1] ; OR
3: [STATUS eq 4]

BLOON

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and (MORTIN eq 1 or MORTIN eq 2 or MORTIN eq 4 or MORTIN eq 'D' or MORTIN eq 'R')] AND [VARY ne 2] ; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [MORTIN eq 3] ; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)] ; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG eq 1 and HEL eq 1] ; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG eq 1]

BLOON2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1] ; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1] ; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and (MORTN2 eq 1 or MORTN2 eq 2 or MORTN2 eq 4 or MORTN2 eq 'D' or MORTN2 eq 'R')] AND [VARY2 ne 2] ; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [MORTN2 eq 3] ; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)] ; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG eq 1 and HEL eq 1] ; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG eq 1]

BOARDU

1: [STATUS eq 4] AND [(NOINT ne 11 to 12) and (NOINT ne 14 to 17)] ; OR
2: [STATUS ne 4]

BSINK
1 : [(STATUS ne 1 to 3)]

BUILT

1 : [(STATUS ne 1 to 3)]

BURNER

1 : [(STATUS eq 1 to 3)] AND [COOK eq 1]; OR
2 : [(STATUS ne 1 to 3)]

BUSPER

1 : [(STATUS eq 2 to 3)]; OR
2 : [(STATUS ne 1 to 3)]

BUYE

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTE eq 4 to 998)]

BUYE2

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 3 or VACANCY eq 5) and CONDO ne 2]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1]

BUYF

1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1] AND [(AMTF eq 4 to 9998)]; OR
5 : [STATUS eq 1] AND [BILLF eq 2]

BUYF2
1: [(STATUS eq 2 to 3) AND [(VACANCY eq 3 or VACANCY eq 5) and CONDO ne 2]]; OR
2: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1]

BUYG

1: [(STATUS eq 2 to 3) AND [(VACANCY eq 1 to 5)]]; OR
2: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1] AND [(AMTG eq 4 to 998)]; OR
5: [STATUS eq 1] AND [BILLG eq 2]; OR
6: [STATUS eq 1] AND [USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']

BUYG2

1: [(STATUS eq 2 to 3) AND [(VACANCY eq 3 or VACANCY eq 5) and CONDO ne 2]]; OR
2: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1]

BUYI

1: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4)) AND [PHAFLG eq 1]]; OR
2: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4)) AND [PHAFLG ne 1]]; OR
3: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4)) AND [(RCNTRL eq 1 to 2) or RCNTRL eq 'D' or RCNTRL eq 'R']]; OR
4: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4)) AND [PROJ eq 1]]; OR
5: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4)) AND [SUBRNT eq 1]]; OR
6: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]]; OR
7: [(STATUS eq 2 to 3) AND [VACANCY eq 3 or VACANCY eq 5]]; OR
8: [(STATUS ne 1 to 3)]

BUYO

1: [(STATUS eq 2 to 3) AND [(VACANCY eq 1 to 5)]]; OR
2: [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1] AND [(AMTO eq 4 to 9998)]; OR
5: [STATUS eq 1] AND [BILLO eq 2]
BUYO2

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 3 or VACANCY eq 5) and CONDO ne 2]; OR
2: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1]

BUYT

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1] AND [(AMTT eq 4 to 9998)]; OR
5: [STATUS eq 1] AND [BILLT eq 2]

BUYT2

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
2: [(STATUS ne 1 to 3)]; OR
3: [STATUS eq 1]

BUYW

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 5)]; OR
2: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1] AND [(AMTW eq 4 to 9998)]; OR
5: [STATUS eq 1] AND [BILLW eq 2]

BUYW2

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
2: [(STATUS ne 1 to 3)]; OR
3: [STATUS eq 1]

CABNX

1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [BEAF78 eq 2]; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [STATUS eq 1] AND [CABREP ne 1]; OR
5: [STATUS ne 1]


**CABREP**

1 : \([\text{STATUS} \text{ eq 1}] \text{ AND } [(\text{LAT70S} \text{ eq 8 to 9})] \); OR  
2 : \([\text{STATUS} \text{ eq 1}] \text{ AND } [(\text{BEAF78} \text{ eq 2})] \); OR  
3 : \([\text{STATUS} \text{ eq 1}] \text{ AND } [(\text{BUILT} \text{ ge 1980} \text{ and } \text{BUILT} \text{ le } (\text{SURVYEAR} + 1))] \); OR  
4 : \([\text{STATUS} \text{ ne 1}] \)

**CAMF**

1 : \([(\text{STATUS} \text{ eq 1 and } (\text{TENURE} \text{ eq 2 to 3})) \text{ or } ((\text{STATUS} \text{ eq 2 to 3}) \text{ and } (\text{VACANCY} \text{ eq 1 to 2}) \text{ or } (\text{VACANCY} \text{ eq 4}))) \text{ AND } [(\text{NUNIT2} \text{ eq 1 to 3})] \); OR  
2 : \([(\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1}) \text{ or } ((\text{STATUS} \text{ eq 2 to 3}) \text{ and } (\text{VACANCY} \text{ eq 3} \text{ or } \text{VACANCY} \text{ eq 5})) \text{ AND } [(\text{IFFEE} \text{ eq 2 or IFFEE} \text{ eq 'D' or IFFEE} \text{ eq 'R'}) \text{ and } (\text{NUNIT2} \text{ eq 1 to 3})] \); OR  
3 : \([(\text{STATUS} \text{ eq 1 to 3}) \text{ AND } [(\text{IFFEE} \text{ eq 2 or IFFEE} \text{ eq 'D' or IFFEE} \text{ eq 'R'})] \); OR  
4 : \([(\text{STATUS} \text{ eq 2 to 3}) \text{ and } (\text{VACANCY} \text{ eq 3 or VACANCY} \text{ eq 5})] \text{ AND } [(\text{MHSTAY} \text{ eq 2})] \); OR  
5 : \([(\text{STATUS} \text{ eq 2 to 3}) \text{ AND } [(\text{VACANCY} \text{ eq 6 to 11})] \); OR  
6 : \([(\text{STATUS} \text{ ne 1 to 3})]

**CANVAR**

1 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1 and } \text{MCNT} \text{ ge 1}] \text{ AND } [(\text{NEWMOR} \text{ eq 2})] \); OR  
2 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1 and } \text{MG} \text{ eq 1}] \text{ AND } [(\text{MCNT} \text{ ne 1 to 7})] \); OR  
3 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1}] \text{ AND } [(\text{MG} \text{ ne 1 and } \text{HEL} \text{ ne 1})] \); OR  
4 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1}] \text{ AND } [(\text{MG} \text{ ne 1})]

**CANVR2**

1 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1 and } \text{MCNT} \text{ eq 1}] \text{ AND } [(\text{HEL} \text{ eq 1})] \); OR  
2 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1 and } \text{MCNT} \text{ eq 1}] \text{ AND } [(\text{HEL} \text{ ne 1})] \); OR  
3 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1 and } \text{MCNT} \text{ ge 2}] \text{ AND } [(\text{NEWMR2} \text{ eq 2})] \); OR  
4 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1 and } \text{MG} \text{ eq 1}] \text{ AND } [(\text{MCNT} \text{ ne 1 to 7})] \); OR  
5 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1}] \text{ AND } [(\text{MG} \text{ ne 1 and } \text{HEL} \text{ ne 1})] \); OR  
6 : \([\text{STATUS} \text{ eq 1 and } \text{TENURE} \text{ eq 1}] \text{ AND } [(\text{MG} \text{ ne 1})]

**CARS**

1 : \([(\text{STATUS} \text{ eq 2 to 3})] \); OR  
2 : \([(\text{STATUS} \text{ ne 1 to 3})]

**CELLAR**
1 : [(STATUS eq 1 to 3)] AND [(NUNIT2 eq 3 to 5)] ; OR
2 : [(STATUS ne 1 to 3)]

**CFUEL**

1 : [(STATUS eq 1 to 3)] AND [COOK eq 2 and BURNER eq 2 and OVEN eq 2] ; OR
2 : [(STATUS ne 1 to 3)]

**CLIMB**

1 : [(STATUS eq 1 to 3)] AND [NUNIT2 ne 3] ; OR
2 : [(STATUS ne 1 to 3)]

**COKST**

1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR
2 : [(STATUS eq 1 to 3)] AND [NONE eq 'X'] ; OR
3 : [(STATUS ne 1 to 3)]

**CONDO**

1 : [(STATUS ne 1 to 3)]

**COOK**

1 : [(STATUS ne 1 to 3)]

**CPRICE**

1 : [(STATUS eq 2 to 3)] ; OR
2 : [STATUS eq 1 and TENURE eq 1] AND [(LPRICE eq 1 to 999998) or LPRICE eq .D or LPRICE eq .R] ; OR
3 : [STATUS eq 1 and TENURE eq 1] AND [CUSHOM eq 5 or PREOCC eq 1] ; OR
4 : [STATUS eq 1] AND [TENURE ne 1] ; OR
5 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

**CRACKS**

1 : [STATUS eq 4]
CROPSL

1 : [STATUS \text{ ne } 1] ; OR  
2 : [STATUS eq 1] AND [((NUNIT2 eq 1 to 2) or NUNIT2 eq 4) and QBUS eq 1 and LOT le 44000] ; OR  
3 : [STATUS eq 1] AND [((NUNIT2 eq 1 to 2) or NUNIT2 eq 4) and QBUS ne 1] ; OR  
4 : [STATUS eq 1] AND [NUNIT2 eq 3 or NUNIT2 eq 5] 

CUSHOM

1 : [(STATUS eq 2 to 3)] ; OR  
2 : [STATUS eq 1 and TENURE eq 1] AND [((NUNIT2 eq 3 to 5)] ; OR  
3 : [STATUS eq 1 and TENURE eq 1] AND [FRSTOC eq '2' or FRSTOC eq 'D' or FRSTOC eq 'R' or REPLHH eq '1'] ; OR  
4 : [STATUS eq 1] AND [TENURE ne 1] ; OR  
5 : [STATUS eq 4] AND [(STATUS ne 1 to 3)] 

DAFUR

1 : [(STATUS eq 1 to 3)] AND [AFUR ne 'X'] ; OR  
2 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR  
3 : [(STATUS ne 1 to 3)] 

DCOKST

1 : [(STATUS eq 1 to 3)] AND [COKST ne 'X'] ; OR  
2 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR  
3 : [(STATUS ne 1 to 3)] 

DELECT

1 : [(STATUS eq 1 to 3)] AND [ELECT ne 'X'] ; OR  
2 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR  
3 : [(STATUS ne 1 to 3)] 

DENS

1 : [(STATUS ne 1 to 3)] 

DFIRE
1: \[\text{STATUS eq 4}\] AND \[(\text{NOINT ne 30 to 31})\]; OR
2: \[\text{STATUS ne 4}\]

**DFLOT**

1: \[(\text{STATUS eq 1 to 3})\] AND \[\text{FLOT ne 'X'}\]; OR
2: \[(\text{STATUS eq 1 to 3})\] AND \[\text{HFUEL eq 9}\]; OR
3: \[(\text{STATUS ne 1 to 3})\]

**DFRPL**

1: \[(\text{STATUS eq 1 to 3})\] AND \[\text{FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R'}\]; OR
2: \[(\text{STATUS eq 1 to 3})\] AND \[\text{FRPL ne 'X'}\]; OR
3: \[(\text{STATUS ne 1 to 3})\]

**DFRPLI**

1: \[(\text{STATUS eq 1 to 3})\] AND \[\text{FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R'}\]; OR
2: \[(\text{STATUS eq 1 to 3})\] AND \[\text{FRPLI ne 'X'}\]; OR
3: \[(\text{STATUS ne 1 to 3})\]

**DFUEL**

1: \[(\text{STATUS eq 1 to 3})\] AND \[\text{DRY eq 2}\]; OR
2: \[(\text{STATUS ne 1 to 3})\]

**DHOTH**

1: \[(\text{STATUS eq 1 to 3})\] AND \[\text{HFUEL eq 9}\]; OR
2: \[(\text{STATUS eq 1 to 3})\] AND \[\text{HOTH ne 'X'}\]; OR
3: \[(\text{STATUS ne 1 to 3})\]

**DHPMP**

1: \[(\text{STATUS eq 1 to 3})\] AND \[\text{HFUEL eq 9}\]; OR
2: \[(\text{STATUS eq 1 to 3})\] AND \[\text{HPMP ne 'X'}\]; OR
3: \[(\text{STATUS ne 1 to 3})\]

**DINING**

1: \[(\text{STATUS ne 1 to 3})\]
DIRAC
1: [(STATUS eq 2 to 3)]; OR
2: [(STATUS ne 1 to 3)]; OR
3: [STATUS eq 1] AND [(EXCLUS ne 1 to 10)]

DISAS
1: [STATUS eq 4] AND [(NOINT ne 30 to 31)]; OR
2: [STATUS ne 4]

DISH
1: [(STATUS ne 1 to 3)]

DISPL
1: [(STATUS eq 1 to 3)] AND [SINK ne 1]; OR
2: [(STATUS ne 1 to 3)]

DOORX
1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [BEAF78 eq 2]; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [STATUS eq 1] AND [DORREP ne 1]; OR
5: [STATUS ne 1]

DORREP
1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [BEAF78 eq 2]; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [STATUS eq 1]

DPLF
1: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3)] AND [PLF ne 'X']; OR
3: [(STATUS ne 1 to 3)]
Appendix E: Coding for Exclusion from Universes

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DRSHOP
1. [(STATUS ne 1 to 3)]; OR
2. [STATUS eq 1] AND [(TENURE eq 2 to 3)]

DRY
1. [(STATUS ne 1 to 3)]

DSTEAM
1. [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2. [(STATUS eq 1 to 3)] AND [STEAM ne 'X']; OR
3. [(STATUS ne 1 to 3)]

DSTOVE
1. [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2. [(STATUS eq 1 to 3)] AND [STOVE ne 'X']; OR
3. [(STATUS ne 1 to 3)]

DWNPAY
1. [(STATUS eq 2 to 3)]; OR
2. [STATUS eq 1 and TENURE eq 1] AND [CUSHOM eq 5 or PREOCC eq 1]; OR
3. [STATUS eq 1] AND [TENURE ne 1]; OR
4. [STATUS eq 4] AND [(STATUS ne 1 to 3)]

EABAN
1. [STATUS eq 4]

EAGE
1. [STATUS eq 4]

EAPTBL
1. [STATUS eq 4]
EBAR
1 : [STATUS eq 4]

EBARCL
1 : [(STATUS eq 1 to 3) AND [EABAN eq 4]; OR
2 : [STATUS eq 4]

EBOARD
1 : [STATUS eq 4]

EBROKE
1 : [STATUS eq 4]

ECOM1
1 : [STATUS eq 4]

ECOM2
1 : [STATUS eq 4]

ECRUMB
1 : [STATUS eq 4]

EGOOD
1 : [STATUS eq 4]

EGREEN
1 : [STATUS eq 4]
EHIGH
1 : [[STATUS eq 1 to 3]] AND [EAPTBL ne 1] ; OR
2 : [STATUS eq 4]

EHOLER
1 : [STATUS eq 4]

EJUNK
1 : [STATUS eq 4]

ELECT
1 : [[STATUS eq 1 to 3]] AND [HFUEL eq 9] ; OR
2 : [[STATUS eq 1 to 3]] AND [NONE eq 'X'] ; OR
3 : [[STATUS ne 1 to 3]]

ELEV
1 : [[STATUS eq 1 to 3]] AND [NUNIT2 ne 3] ; OR
2 : [[STATUS ne 1 to 3]]

ELOW1
1 : [STATUS eq 4]

ELOW2
1 : [[STATUS eq 1 to 3]] AND [EAPTBL ne 1] ; OR
2 : [STATUS eq 4]

EMID
1 : [[STATUS eq 1 to 3]] AND [EAPTBL ne 1] ; OR
2 : [STATUS eq 4]

EMISSR
1 : [STATUS eq 4]

EMISSW
1 : [STATUS eq 4]

EMOBIL
1 : [STATUS eq 4]

EPRKG
1 : [STATUS eq 4]

EPRKGA
1 : [(STATUS eq 1 to 3) AND [EPRKG ne 1] ; OR
2 : [STATUS eq 4]

EPRKGR
1 : [(STATUS eq 1 to 3) AND [EPRKG ne 1] ; OR
2 : [STATUS eq 4]

EPRKGS
1 : [(STATUS eq 1 to 3) AND [EPRKG ne 1] ; OR
2 : [STATUS eq 4]

EROAD
1 : [STATUS eq 4]

ESAGR
1 : [STATUS eq 4]

ESFD
Appendix E: Coding for Exclusion from Universes

1 : [STATUS eq 4]

ESLOPW
1 : [STATUS eq 4]

ETRANS
1 : [STATUS eq 4]

EVROD
1 : [(STATUS eq 2 to 3)] ; OR
2 : [STATUS eq 4]

EVRTES
1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)] ; OR
2 : [STATUS eq 1] AND [BEAF78 eq 2] ; OR
3 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4 : [STATUS eq 1] AND [LDTEST eq 1] ; OR
5 : [STATUS ne 1]

EWATER
1 : [STATUS eq 4]

EXCLUS
1 : [(STATUS eq 2 to 3)] ; OR
2 : [(STATUS ne 1 to 3)]

EXPOSE
1 : [STATUS eq 4] AND [NOINT ne 12 and (NOINT ne 14 to 15)] ; OR
2 : [STATUS ne 4]

FAFUR
1 : [(STATUS eq 1 to 3)] AND [AFUR ne 'X'] ; OR
2 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3 : [(STATUS ne 1 to 3)]

FAMRM
1 : [(STATUS ne 1 to 3)]

FCOKST
1 : [(STATUS eq 1 to 3)] AND [COKST ne 'X']; OR
2 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3 : [(STATUS ne 1 to 3)]

FELECT
1 : [(STATUS eq 1 to 3)] AND [ELECT ne 'X']; OR
2 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3 : [(STATUS ne 1 to 3)]

FFLIN
1 : [(STATUS eq 1 to 3)] AND [FLIN ne 'X']; OR
2 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3 : [(STATUS ne 1 to 3)]

FFLOT
1 : [(STATUS eq 1 to 3)] AND [FLOT ne 'X']; OR
2 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3 : [(STATUS ne 1 to 3)]

FFRPL
1 : [(STATUS eq 1 to 3)] AND [FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R']; OR
2 : [(STATUS eq 1 to 3)] AND [FRPL ne 'X']; OR
3 : [(STATUS ne 1 to 3)]

FFRPLI
1 : [(STATUS eq 1 to 3)] AND [FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R']; OR
2 : [(STATUS eq 1 to 3)] AND [FRPLI ne 'X']; OR
3 : \([\text{STATUS ne 1 to 3}]\)

**FHOTH**

1 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{HFUEL eq 9}] \text{ OR} \]
2 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{HOTH ne 'X'] \text{ OR} \]
3 : \([\text{STATUS ne 1 to 3}]\)

**FHPMP**

1 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{HFUEL eq 9}] \text{ OR} \]
2 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{HPMP ne 'X] \text{ OR} \]
3 : \([\text{STATUS ne 1 to 3}]\)

**FIXED**

1 : \([\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and (MORTIN eq 1 or MORTIN eq 2 or MORTIN eq 4 or MORTIN eq 'D' or MORTIN eq 'R')] AND [VARY ne 2] \text{ OR} \]
2 : \([\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 1} \text{ AND } [\text{MORTIN eq 3}] \text{ OR} \]
3 : \([\text{STATUS eq 1 and TENURE eq 1 and MG eq 1} \text{ AND } [(\text{MCNT ne 1 to 7})] \text{ OR} \]
4 : \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1 and HEL ne 1} ; \text{ OR} \]
5 : \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1}]\)

**FIXED2**

1 : \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}] \text{ AND } [\text{HEL eq 1}] ; \text{ OR} \]
2 : \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}] \text{ AND } [\text{HEL ne 1}] ; \text{ OR} \]
3 : \([\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and (MORTN2 eq 1 or MORTN2 eq 2 or MORTN2 eq 4 or MORTN2 eq 'D' or MORTN2 eq 'R')] AND [VARY2 ne 2] ; \text{ OR} \]
4 : \([\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 2}] \text{ AND } [\text{MORTN2 eq 3}] ; \text{ OR} \]
5 : \([\text{STATUS eq 1 and TENURE eq 1 and MG eq 1}] \text{ AND } [(\text{MCNT ne 1 to 7})] ; \text{ OR} \]
6 : \([\text{STATUS eq 1 and TENURE eq 1}] \text{ AND } [\text{MG ne 1 and HEL ne 1}] ; \text{ OR} \]
7 : \([\text{STATUS eq 1 and TENURE eq 1}] \text{ AND } [\text{MG ne 1}]\)

**FLIN**

1 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{HFUEL eq 9}] ; \text{ OR} \]
2 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{NONE eq 'X'] ; \text{ OR} \]
3 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{ROOM ne 'X'] ; \text{ OR} \]
4 : \([\text{STATUS ne 1 to 3}]\)

**FLOODPLN**
1: \[[\text{STATUS eq 1 to 3}]\text{ AND } [\text{EWATER ne 1}]; \text{ OR} \]
2: \[[\text{STATUS eq 4}]\]

**FLOORS**

1: \[[\text{STATUS ne 1 to 3}]\]

**FLOT**

1: \[[\text{STATUS eq 1 to 3}]\text{ AND } [\text{HFUEL eq 9}]; \text{ OR} \]
2: \[[\text{STATUS eq 1 to 3}]\text{ AND } [\text{NONE eq 'X'}]; \text{ OR} \]
3: \[[\text{STATUS eq 1 to 3}]\text{ AND } [\text{ROOM ne 'X'}]; \text{ OR} \]
4: \[[\text{STATUS ne 1 to 3}]\]

**FLRENT**

1: \[[\text{STATUS eq 1 and TENURE eq 1}) \text{ or } ((\text{STATUS eq 2 to 3}) \text{ and } (\text{VACANCY eq 3 or VACANCY eq 5})) \text{ AND } ((\text{IFFEE eq 2 or IFFEE eq 'D' or IFFEE eq 'R'})) \text{ and } (\text{NUNIT2 eq 1 to 3}) \text{ and } (\text{CONDO eq 1 to 2})]; \text{ OR} \\
2: \[[\text{STATUS eq 1 and TENURE eq 1}) \text{ or } ((\text{STATUS eq 2 to 3}) \text{ and } (\text{VACANCY eq 3 or VACANCY eq 5})) \text{ AND } ((\text{INCS eq 2 or INCS eq 'D' or INCS eq 'R'}) \text{ and } (\text{NUNIT2 eq 1 to 3}) \text{ and } (\text{CONDO eq 3}) \text{ and } (\text{CONDO eq 1 to 3})]; \text{ OR} \\
3: \[[\text{STATUS eq 1 and TENURE eq 1}) \text{ or } ((\text{STATUS eq 2 to 3}) \text{ and } (\text{VACANCY eq 3 or VACANCY eq 5})) \text{ AND } ((\text{NUNIT2 eq 1 to 3}) \text{ and } (\text{INCS eq 1 to 3}))]; \text{ OR} \\
4: \[[\text{STATUS eq 1 to 3}) \text{ AND } (\text{INCS eq 2 or INCS eq 'D' or INCS eq 'R'}); \text{ OR} \\
5: \[[\text{STATUS eq 1 to 3}) \text{ AND } (\text{INCS eq 2 or INCS eq 'D' or INCS eq 'R'}) \text{ and } (\text{NUNIT2 eq 1 to 3}) \text{ and } (\text{INCS eq 1 to 3})]; \text{ OR} \\
6: \[[\text{STATUS eq 2 to 3}) \text{ AND } (\text{VACANCY eq 6 to 11})]; \text{ OR} \\
7: \[[\text{STATUS ne 1 to 3})]; \text{ OR} \\
8: \[[\text{STATUS eq 1 and TENURE eq 1 and MG eq 1}) \text{ AND } [\text{LANPMT eq 1}]; \text{ OR} \\
9: \[[\text{STATUS eq 1 and TENURE eq 1}) \text{ AND } ((\text{OWNLOT1 eq 1 or OWNLOT1 eq 'R'}) \text{ and } (\text{OWNLOT1 eq 'R'}) \text{ and } (\text{NUNIT2 eq 1 to 3}))]; \text{ OR} \\

**FMHOTF**

1: \[[\text{STATUS eq 1 and TENURE eq 1}) \text{ or } ((\text{STATUS eq 2 to 3}) \text{ and } (\text{VACANCY eq 3 or VACANCY eq 5})) \text{ AND } ((\text{IFOTHF eq 2 or IFOTHF eq 'D' or IFOTHF eq 'R'}) \text{ and } (\text{NUNIT2 eq 1 to 3}) \text{ and } (\text{MHSTAY ne 2})]; \text{ OR} \\
2: \[[\text{STATUS eq 1 and TENURE eq 1}) \text{ or } ((\text{STATUS eq 2 to 3}) \text{ and } (\text{VACANCY eq 3 or VACANCY eq 5})) \text{ AND } ((\text{NUNIT2 eq 1 to 3}) \text{ and } (\text{IFFEE eq 1})]; \text{ OR} \\
3: \[[\text{STATUS eq 1 to 3}) \text{ AND } (\text{NUNIT2 ne 4 to 5})]; \text{ OR} \\
4: \[[\text{STATUS eq 1 to 3}) \text{ AND } (\text{IFOTHF eq 2 or IFOTHF eq 'D' or IFOTHF eq 'R'})]; \text{ OR}
5: \((\text{STATUS} = 2 \text{ to } 3) \text{ AND } (\text{UNIT2} = 4 \text{ to } 5) \text{ and } (\text{VACANCY} = 3 \text{ or } \text{VACANCY} = 5) \text{ and } \text{MHSTAY} = 2)\); \text{ OR}
6: \((\text{STATUS} = 2 \text{ to } 3) \text{ AND } (\text{UNIT2} = 4 \text{ to } 5) \text{ and } (\text{VACANCY} \neq 1 \text{ to } 5)\); \text{ OR}
7: \((\text{STATUS} = 2 \text{ to } 3) \text{ AND } (\text{VACANCY} = 6 \text{ to } 11)\); \text{ OR}
8: \((\text{STATUS} \neq 1 \text{ to } 3)\)

**FOOD**

1: \((\text{STATUS} = 2 \text{ to } 3) \text{ AND } (\text{VACANCY} = 6 \text{ to } 11)\); \text{ OR}
2: \((\text{STATUS} \neq 1 \text{ to } 3)\); \text{ OR}
3: \([\text{STATUS} = 1 \text{ AND } \text{AGE(L_NO)} \geq 16 \text{ and } \text{REL(L_NO)} \geq 27 \text{ and } \text{PAR(L_NO)} \neq 0 \text{ and } \text{PAR(L_NO)} \neq \text{ parity} \text{ and } \text{TEN(PAR)} = \text{X}])\); \text{ OR}
4: \([\text{STATUS} = 1 \text{ AND } \text{AGE(L_NO)} \geq 16 \text{ and } \text{REL(L_NO)} \geq 27 \text{ and } \text{SPOUS(L_NO)} \neq 0 \text{ and } \text{SPOUS(L_NO)} \neq \text{ parity} \text{ and } (\text{TEN(SPOUS)} = \text{X} \text{ or } \text{SPOUS_FLG} = 1)]\); \text{ OR}
5: \([\text{STATUS} = 1 \text{ AND } \text{AGE(L_NO)} \geq 16 \text{ and } \text{REL(L_NO)} \geq 27 \text{ and } \text{TEN(L_NO)} = \text{X}]\); \text{ OR}
6: \([\text{STATUS} = 1 \text{ AND } \text{AGE(L_NO)} \leq 26]\); \text{ OR}
7: \([\text{STATUS} = 1 \text{ AND } \text{AGE(L_NO)} \leq 15]\); \text{ OR}
8: \([\text{STATUS} = 1 \text{ AND } \text{LODSTA} = 2 \text{ or LODSTA} = \text{D} \text{ or LODSTA} = \text{R}]\)

**FPINS**

1: \([\text{STATUS} = 1 \text{ to } 3] \text{ AND } \text{FPHEQP} \neq 1]\); \text{ OR}
2: \([\text{STATUS} = 1 \text{ to } 3] \text{ AND } \text{FPLWK} = 2 \text{ or } \text{FPLWK} = \text{D} \text{ or } \text{FPLWK} = \text{R}]\); \text{ OR}
3: \([\text{STATUS} \neq 1 \text{ to } 3]\)

**FPLF**

1: \([\text{STATUS} = 1 \text{ to } 3] \text{ AND } \text{HFUEL} = 9]\); \text{ OR}
2: \([\text{STATUS} = 1 \text{ to } 3] \text{ AND } \text{PLF} \neq \text{X}]\); \text{ OR}
3: \([\text{STATUS} \neq 1 \text{ to } 3]\)

**FPLWK**

1: \([\text{STATUS} \neq 1 \text{ to } 3]\)

**FPOR**

1: \([\text{STATUS} = 1 \text{ to } 3] \text{ AND } \text{HFUEL} = 9]\); \text{ OR}
2: \([\text{STATUS} = 1 \text{ to } 3] \text{ AND } \text{PORTH} \neq \text{X}]\); \text{ OR}
3: \([\text{STATUS} \neq 1 \text{ to } 3]\)

**FREEZE**
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
3 : [STATUS eq 4]

FRENT
1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
2 : [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
5 : [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]; OR
6 : [STATUS eq 1] AND [TENURE eq 3]

FRPL
1 : [(STATUS eq 1 to 3)] AND [FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R']; OR
2 : [(STATUS eq 1 to 3)] AND [NONE eq 'X']; OR
3 : [(STATUS ne 1 to 3)]

FRPLI
1 : [(STATUS eq 1 to 3)] AND [FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R']; OR
2 : [(STATUS eq 1 to 3)] AND [NONE eq 'X']; OR
3 : [(STATUS ne 1 to 3)]

FRSIT
1 : [(STATUS eq 1 to 3)] AND [(NUNIT2 eq 1 to 3)]; OR
2 : [(STATUS ne 1 to 3)]

FRSTHO
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1 and TENURE eq 1] AND [DWNPAY eq '1']; OR
3 : [STATUS eq 1] AND [TENURE ne 1]; OR
4 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

FRSTOC
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [BUILT lt 1990]; OR
3 : \([\text{STATUS eq 4}] \text{ AND } [\text{STATUS ne 1 to 3}]\)

**FSTEAM**

1 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{HFUEL eq 9}] \text{; OR} \)
2 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{STEAM ne 'X'}] \text{; OR} \)
3 : \([\text{STATUS ne 1 to 3}]\)

**FSTOVE**

1 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{HFUEL eq 9}] \text{; OR} \)
2 : \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{STOVE ne 'X'}] \text{; OR} \)
3 : \([\text{STATUS ne 1 to 3}]\)

**GARAGE**

1 : \([\text{STATUS ne 1 to 3}]\)

**GASPI2**

1 : \([\text{STATUS eq 2 to 3}] \text{ AND } [\text{HFUEL ne 2}] \text{; OR} \)
2 : \([\text{STATUS ne 1 to 3}]\); OR
3 : \([\text{STATUS eq 1}]\)

**GASPIP**

1 : \([\text{STATUS eq 2 to 3}] \text{ AND } [\text{VACANCY eq 1 to 5}] \text{; OR} \)
2 : \([\text{STATUS eq 2 to 3}] \text{ AND } [\text{VACANCY eq 6 to 11}] \text{; OR} \)
3 : \([\text{STATUS ne 1 to 3}]\); OR
4 : \([\text{STATUS eq 1}] \text{ AND } [\text{BUYG eq 1}] \text{; OR} \)
5 : \([\text{STATUS eq 1}] \text{ AND } [\text{USEGAS eq 2 or USEGAS eq 'D' or USEGAS eq 'R']}

**GPM**

1 : \([\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and (MORTIN eq 1 or MORTIN eq 2 or MORTIN eq 4 or MORTIN eq 'D' or MORTIN eq 'R')}} \text{ AND } [\text{VARY ne 2}] \text{; OR} \)
2 : \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}] \text{ AND } [\text{MORTIN eq 3}] \text{; OR} \)
3 : \([\text{STATUS eq 1 and TENURE eq 1 and MG eq 1}] \text{ AND } [\text{MCNT ne 1 to 7}] \text{; OR} \)
4 : \([\text{STATUS eq 1 and TENURE eq 1}] \text{ AND } [\text{MG ne 1 and HEL ne 1}] \text{; OR} \)
5 : \([\text{STATUS eq 1 and TENURE eq 1}] \text{ AND } [\text{MG ne 1}]\)
GPM2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and (MORTN2 eq 1 or MORTN2 eq 2 or MORTN2 eq 4 or MORTN2 eq 'D' or MORTN2 eq 'R')] AND [VARY2 ne 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [MORTN2 eq 3]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

GPMW

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and (MORTIN eq 1 or MORTIN eq 2 or MORTIN eq 4 or MORTIN eq 'D' or MORTIN eq 'R')] AND [VARY ne 2]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [MORTIN eq 3]; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

GPMW2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and (MORTN2 eq 1 or MORTN2 eq 2 or MORTN2 eq 4 or MORTN2 eq 'D' or MORTN2 eq 'R')] AND [VARY2 ne 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [MORTN2 eq 3]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

GRDMNT

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1] AND [TENURE eq 1]; OR
3: [STATUS eq 4]

HALFB

1: [(STATUS ne 1 to 3)]

HEBAL1
1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM eq 1 and HETYP1 ne 1] AND [HETYP1 ne 2]; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HETYP1 ge 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and HENUM eq 1] AND [HENUM eq 2]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2 AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEBAL2

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM ge 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 2 and HETYP2 ne 1] AND [HETYP2 ge 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and HENUM eq 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and HENUM eq 2]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
9: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEBAL3

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 2] AND [HENUM eq 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and HENUM ge 3 and HETYP3 ne 1] AND [HETYP3 ge 2]; OR
5: [STATUS eq 1 and TENURE eq 1 and HENUM eq 3] AND [HETYP3 eq 2]; OR
6: [STATUS eq 1 and TENURE eq 1 and HENUM ge 3] AND [HETYP3 eq 2]; OR
7: [STATUS eq 1 and TENURE eq 1 and HENUM eq 3] AND [HETYP3 eq 2]; OR
8: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
9: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
10: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEBAM1

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1 and HETYP1 eq 1] AND [HETYP1 eq 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
6: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 4} \text{ AND } \text{HEL ne 1}\]; OR
7: \[\text{STATUS eq 1 and TENURE eq 1}\] AND \[\text{MG ne 1 and HEL ne 1}\]

**HEBAM2**

1: \[\text{STATUS eq 1 and TENURE eq 1 and HEL eq 1} \text{ AND } \text{HENUM lt 1}\]; OR
2: \[\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 1} \text{ AND } \text{HENUM eq 1}\]; OR
3: \[\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 2}\] AND \[\text{HETYP2 eq 1}\] AND \[\text{HEBAL2 ne 1}\]; OR
4: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}\] AND \[\text{HEL ne 1}\]; OR
5: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2}\] AND \[\text{HEL ne 1}\]; OR
6: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 3}\] AND \[\text{HEL ne 1}\]; OR
7: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 4}\] AND \[\text{HEL ne 1}\]; OR
8: \[\text{STATUS eq 1 and TENURE eq 1}\] AND \[\text{MG ne 1 and HEL ne 1}\]

**HEBAM3**

1: \[\text{STATUS eq 1 and TENURE eq 1 and HEL eq 1}\] AND \[\text{HENUM lt 1}\]; OR
2: \[\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 1}\] AND \[\text{HENUM eq 1}\]; OR
3: \[\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 2}\] AND \[\text{HENUM eq 2}\]; OR
4: \[\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 3}\] AND \[\text{HETYP3 eq 1}\] AND \[\text{HEBAL3 ne 1}\]; OR
5: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}\] AND \[\text{HEL ne 1}\]; OR
6: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2}\] AND \[\text{HEL ne 1}\]; OR
7: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 3}\] AND \[\text{HEL ne 1}\]; OR
8: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 4}\] AND \[\text{HEL ne 1}\]; OR
9: \[\text{STATUS eq 1 and TENURE eq 1}\] AND \[\text{MG ne 1 and HEL ne 1}\]

**HECR1**

1: \[\text{STATUS eq 1 and TENURE eq 1 and HEL eq 1}\] AND \[\text{HENUM lt 1}\]; OR
2: \[\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 1}\] AND \[\text{HETYP1 ne 1}\]; OR
3: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}\] AND \[\text{HEL ne 1}\]; OR
4: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2}\] AND \[\text{HEL ne 1}\]; OR
5: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 3}\] AND \[\text{HEL ne 1}\]; OR
6: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT ge 4}\] AND \[\text{HEL ne 1}\]; OR
7: \[\text{STATUS eq 1 and TENURE eq 1}\] AND \[\text{MG ne 1 and HEL ne 1}\]

**HECR2**

1: \[\text{STATUS eq 1 and TENURE eq 1 and HEL eq 1}\] AND \[\text{HENUM lt 1}\]; OR
2: \[\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 1}\] AND \[\text{HENUM eq 1}\]; OR
3: \[\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 2}\] AND \[\text{HETYP2 ne 1}\]; OR
4: \[\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}\] AND \[\text{HEL ne 1}\]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT ge 4] AND [HEL ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HECR3
1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 2] AND [HENUM eq 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and HENUM ge 3] AND [HETYP3 ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1 and MCNT ge 4] AND [HEL ne 1]; OR
9: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEINF1
1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1 and HEBAL1 ne 2 and HEBAL1 ne 'D'
and HEBAL1 ne 'R'] AND [(HEINW1 ne 1 to 25)]; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1 and HETYP1 eq 1] AND [HEBAL1 ne 1]
; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT ge 4] AND [HEL ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEINF2
1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 2 and HEBAL2 ne 2 and HEBAL2 ne 'D'
and HEBAL2 ne 'R'] AND [(HEINW2 ne 1 to 25)]; OR
4: [STATUS eq 1 and TENURE eq 1 and HENUM ge 2 and HETYP2 eq 1] AND [HEBAL2 ne 1]
; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1 and MCNT ge 4] AND [HEL ne 1]; OR
9: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]
HEINF3

1 : [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1] ; OR
2 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1] ; OR
3 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 2] AND [HENUM eq 2] ; OR
4 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 3 and HEBAL3 ne 2 and HEBAL3 ne 'D' and HEBAL3 ne 'R'] AND [(HEINW3 ne 1 to 25)] ; OR
5 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 3 and HETYP3 eq 1] AND [HEBAL3 ne 1] ; OR
6 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 1 and HENUM eq 1] AND [HEBAL1 ne 1] ; OR
7 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 2 and HETYP1 eq 1] AND [HEBAL1 ne 1] ; OR
8 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 3 and HETYP1 eq 1] AND [HEBAL1 ne 1] ; OR
9 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 4] AND [HEBAL1 ne 1] ; OR
10 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEINW1

1 : [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1] ; OR
2 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1] ; OR
3 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 2] AND [HENUM eq 2] ; OR
4 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 3 and HETYP1 eq 1] AND [HEBAL1 ne 1] ; OR
5 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1] ; OR
6 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1] ; OR
7 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1] ; OR
8 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 4] AND [HEL ne 1] ; OR
9 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEINW2

1 : [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1] ; OR
2 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1] ; OR
3 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 2] AND [HENUM eq 2] ; OR
4 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 3 and HETYP2 eq 1] AND [HEBAL2 ne 1] ; OR
5 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1] ; OR
6 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1] ; OR
7 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1] ; OR
8 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEINW3

1 : [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1] ; OR
2 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1] ; OR
3 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 2] AND [HENUM eq 2] ; OR
4 : [STATUS eq 1 and TENURE eq 1 and HENUM ge 3 and HETYP3 eq 1] AND [HEBAL3 ne 1] ; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1] ; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1] ; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1] ; OR
8: [STATUS eq 1 and TENURE eq 1 and MCNT ge 4] AND [HEL ne 1] ; OR
9: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HELMP1

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1] ; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1 and HETYP1 ne 1] AND [HETYP1 ne 2] ; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HETYP1 eq 1] ; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1] ; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1] ; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1] ; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT ge 4] AND [HEL ne 1] ; OR
8: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HELMP2

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1] ; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1 and HETYP2 ne 1] AND [HETYP2 ne 2] ; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HETYP2 eq 1] ; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1] ; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1] ; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1] ; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT ge 4] AND [HEL ne 1] ; OR
8: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HELMP3

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1] ; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1 and HETYP3 ne 1] AND [HETYP3 ne 2] ; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HETYP3 eq 1] ; OR
4: [STATUS eq 1 and TENURE eq 1 and HENUM ge 3 and HETYP3 ne 1] AND [HETYP3 ne 2] ; OR
5: [STATUS eq 1 and TENURE eq 1 and HENUM ge 3] AND [HETYP3 eq 1] ; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1] ; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1] ; OR
8: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1] ; OR
9: [STATUS eq 1 and TENURE eq 1 and MCNT ge 4] AND [HEL ne 1] ; OR
10: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]
HENUM

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 4] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEPMT1

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1 and HETYP1 eq 1] AND [HEBAL1 ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 4] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEPMT2

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 2] AND [HENUM eq 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 4] AND [HEL ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]

HEPMT3

1: [STATUS eq 1 and TENURE eq 1 and HEL eq 1] AND [HENUM lt 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and HENUM ge 1] AND [HENUM eq 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and HENUM ge 2] AND [HENUM eq 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and HENUM ge 3] AND [HENUM eq 3]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1 and MCNT eq 4] AND [HEL ne 1]; OR
9: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]
HEQUIP

1: \([\text{STATUS ne 1 to 3}]\)

HERE

1: \([\text{STATUS ne 1}]\); OR
2: \([\text{STATUS eq 1}] \text{AND } [(\text{HERE ne .B } \text{and REL lt 30})]\)

HETYP1

1: \([\text{STATUS eq 1 and TENURE eq 1 and HEL eq 1}] \text{AND } [\text{HENUM lt 1}]\); OR
2: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}] \text{AND } [\text{HEL ne 1}]\); OR
3: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2}] \text{AND } [\text{HEL ne 1}]\); OR
4: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 3}] \text{AND } [\text{HEL ne 1}]\); OR
5: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 4}] \text{AND } [\text{HEL ne 1}]\); OR
6: \([\text{STATUS eq 1 and TENURE eq 1}] \text{AND } [\text{MG ne 1 and HEL ne 1}]\)

HETYP2

1: \([\text{STATUS eq 1 and TENURE eq 1 and HEL eq 1}] \text{AND } [\text{HENUM lt 1}]\); OR
2: \([\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 1}] \text{AND } [\text{HENUM eq 1}]\); OR
3: \([\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 2}] \text{AND } [\text{HENUM eq 2}]\); OR
4: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}] \text{AND } [\text{HEL ne 1}]\); OR
5: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2}] \text{AND } [\text{HEL ne 1}]\); OR
6: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 3}] \text{AND } [\text{HEL ne 1}]\); OR
7: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 4}] \text{AND } [\text{HEL ne 1}]\); OR
8: \([\text{STATUS eq 1 and TENURE eq 1}] \text{AND } [\text{MG ne 1 and HEL ne 1}]\)

HETYP3

1: \([\text{STATUS eq 1 and TENURE eq 1 and HEL eq 1}] \text{AND } [\text{HENUM lt 1}]\); OR
2: \([\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 1}] \text{AND } [\text{HENUM eq 1}]\); OR
3: \([\text{STATUS eq 1 and TENURE eq 1 and HENUM ge 2}] \text{AND } [\text{HENUM eq 2}]\); OR
4: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1}] \text{AND } [\text{HEL ne 1}]\); OR
5: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2}] \text{AND } [\text{HEL ne 1}]\); OR
6: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 3}] \text{AND } [\text{HEL ne 1}]\); OR
7: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 4}] \text{AND } [\text{HEL ne 1}]\); OR
8: \([\text{STATUS eq 1 and TENURE eq 1}] \text{AND } [\text{MG ne 1 and HEL ne 1}]\)

HFUEL

1: \([\text{STATUS ne 1 to 3}]\)
HOLES
1 : [STATUS eq 4]

HOTH
1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2 : [(STATUS eq 1 to 3)] AND [NONE eq 'X']; OR
3 : [(STATUS ne 1 to 3)]

HOTPPIP
1 : [(STATUS ne 1 to 3)]

HOWH
1 : [STATUS ne 1]

HOWN
1 : [STATUS ne 1]

HPMP
1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2 : [(STATUS eq 1 to 3)] AND [NONE eq 'X']; OR
3 : [(STATUS ne 1 to 3)]

HUHIS
1 : [(STATUS eq 1 to 4)] AND [INCSAM eq 1]; OR
2 : [(STATUS eq 1 to 4)] AND [SAMEDU ne 2]

IFBLOW
1 : [(STATUS eq 1 to 3)] AND [NOWIRE eq 3]; OR
2 : [STATUS eq 4]
IFCOLD

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [FREEZE ne 1]; OR
3 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
4 : [STATUS eq 4]

IFDRY

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [HOTPIP ne 1]; OR
3 : [STATUS eq 4]

IFFEE

1 : [(STATUS eq 1 and (TENURE eq 2 to 3)) or ((STATUS eq 2 to 3) and ((VACANCY eq 1 to 2)
or (VACANCY eq 4))) AND [NUNIT2 eq 1 to 3)]; OR
2 : [(STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)] AND [MHSTAY eq 2]; OR
3 : [(STATUS eq 2 to 3) AND [(VACANCY eq 6 to 11)]; OR
4 : [(STATUS ne 1 to 3)]

IFOTHF

1 : [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or
VACANCY eq 5))] AND [(NUNIT2 eq 1 to 3) and IFFEE eq 1]; OR
2 : [(STATUS eq 1 to 3)] AND [(NUNIT2 ne 4 to 5)]; OR
3 : [(STATUS eq 2 to 3)] AND [(NUNIT2 eq 4 to 5) and (VACANCY eq 3 or VACANCY eq 5) and
MHSTAY eq 2]; OR
4 : [(STATUS eq 2 to 3)] AND [(NUNIT2 eq 4 to 5) and (VACANCY ne 1 to 5)]; OR
5 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
6 : [(STATUS ne 1 to 3)]

IFSEW

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [PUBSEW ne 1 and (SEWDIS ne 1 to 2)]; OR
3 : [STATUS eq 4]

IFTLT

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [BATHS lt 2 and TOILET ne 1]; OR
3 : [STATUS eq 4]
ILEAK
1: \[\text{STATUS eq } 2 \text{ to } 3\]; OR
2: \[\text{STATUS eq } 4\]

INCP
1: \[\text{STATUS eq } 1 \text{ to } 3\] AND \[\text{GARAGE eq } 1\]; OR
2: \[\text{STATUS ne } 1 \text{ to } 3\]

INCS
1: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1\] or ((\text{STATUS eq } 2 \text{ to } 3) \text{ and } (\text{VACANCY eq } 3 \text{ or VACANCY eq } 5)) AND \[\text{IFFEE eq } 2 \text{ or IFFEE eq 'D' or IFFEE eq 'R'}\] and (\text{NUNIT2 eq } 1 \text{ to } 3) and (\text{CONDO eq } 1 \text{ to } 2)\]; OR
2: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1\] or ((\text{STATUS eq } 2 \text{ to } 3) \text{ and } (\text{VACANCY eq } 3 \text{ or VACANCY eq } 5)) AND \[\text{OWNLOT2 eq } 1 \text{ to } 3\] and IFFEE eq 1; OR
3: \[\text{STATUS eq } 2 \text{ to } 3\] and (\text{VACANCY eq } 3 \text{ or VACANCY eq } 5) AND \[\text{OWNLOT2 eq 'D' or OWNLOT2 eq 'R'}\] and (\text{NUNIT2 eq } 4 \text{ to } 5)\]; OR
4: \[\text{STATUS eq } 2 \text{ to } 3\] AND \[\text{VACANCY eq } 6 \text{ to } 11]\]; OR
5: \[\text{STATUS ne } 1 \text{ to } 3]\]; OR
6: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1\] AND \[\text{OWNLOT1 eq } 1 \text{ or OWNLOT1 eq 'D' or OWNLOT1 eq 'R'}\] and (\text{NUNIT2 eq } 4 \text{ to } 5)\]; OR
7: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1\] AND \[\text{OWNLOT1 eq } 2 \text{ or OWNLOT1 eq ' '}\] and \[\text{MG ne } 1\] and (\text{NUNIT2 eq } 4 \text{ to } 5)\]

INPMT2
1: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1 \text{ and MCNT eq } 1\] AND \[\text{HEL eq } 1\]; OR
2: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1 \text{ and MCNT eq } 1\] AND \[\text{HEL ne } 1\]; OR
3: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1 \text{ and MG eq } 1\] AND \[\text{MCNT ne } 1 \text{ to } 7\]; OR
4: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1\] AND \[\text{MG ne } 1 \text{ and HEL ne } 1\]; OR
5: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1\] AND \[\text{MG ne } 1\]

INSPMT
1: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1 \text{ and MG eq } 1\] AND \[\text{MCNT ne } 1 \text{ to } 7\]; OR
2: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1\] AND \[\text{MG ne } 1 \text{ and HEL ne } 1\]; OR
3: \[\text{STATUS eq } 1 \text{ and TENURE eq } 1\] AND \[\text{MG ne } 1\]

INTF
Appendix E: Coding for Exclusion from Universes

INTF2
1: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
2: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

INTW
1: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
2: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [HEL eq 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [HEL ne 1]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

INTW2
1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [(MCNT ne 1 to 7)]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MCNT ne 1 to 7]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

INV20K
1: [STATUS ne 1]

KEXCLU
1: [(STATUS eq 1 to 3) and (NUNIT2 eq 3 or NUNIT2 eq 5)] AND [SINK ne 1 or REFR ne 1 or (COOK ne 1 and BURNER ne 1 and OVEN ne 1)]; OR
2: [(STATUS eq 1 to 3)] AND [NUNIT2 ne 3 and NUNIT2 ne 5]; OR
3: [(STATUS ne 1 to 3)]

KITCH
1: [(STATUS ne 1 to 3)]
LANPMT

1 : [(STATUS eq 1 and TENURE eq 1 and MG ne 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) and [CONDO eq 3 and INCS eq 1 and (NUNIT2 eq 1 to 3)]; OR
2 : [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) and [(IFFEE eq 2 or IFFEE eq 'D' or IFFEE eq 'R') and (NUNIT2 eq 1 to 3) and (CONDO eq 1 to 2)]; OR
3 : [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) and [(IFOTHF eq 2 or IFOTHF eq 'D' or IFOTHF eq 'R') and (NUNIT2 eq 4 to 5) and (MHOSTAY ne 2)]; OR
4 : [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) and [(INCS eq 2 or INCS eq 'D' or INCS eq 'R') and (CONDO eq 3) and (NUNIT2 eq 1 to 3)]; OR
5 : [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) and [(NUNIT2 eq 1 to 3) and IFFEE eq 1]; OR
6 : [(STATUS eq 1 to 3)] and [IFOTHF eq 1]; OR
7 : [(STATUS eq 2 to 3)] and [(VACANCY eq 1 to 2) or VACANCY eq 4]; OR
8 : [(STATUS eq 2 to 3)] and [(VACANCY eq 6 to 11)]; OR
9 : [(STATUS ne 1 to 3)]; OR
10 : [STATUS eq 1] and [TENURE eq 2]; OR
11 : [STATUS eq 1] and [TENURE eq 3]

LAT70S

1 : [STATUS eq 1] and [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
2 : [STATUS eq 1] and [BUILT le 1970 and BUILT ge 1919]; OR
3 : [STATUS ne 1]

LAUNDY

1 : [(STATUS ne 1 to 3)]

LDMAYB

1 : [STATUS eq 1] and [(LAT70S eq 8 to 9)]; OR
2 : [STATUS eq 1] and [BEAF78 eq 2]; OR
3 : [STATUS eq 1] and [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4 : [STATUS eq 1] and [RMOVE eq &SURVYEAR or (RMOVE eq (&SURVYEAR-1) and RMOVM ge 9)]; OR
5 : [STATUS ne 1]

LDTEST

1 : [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) and [CONDO eq 3 and INCS eq 1 and (NUNIT2 eq 1 to 3)]]
1: \[\text{STATUS eq 1} \land ((\text{LAT70S eq 8 to 9}) \lor \text{BEAF78 eq 2}) \lor \text{BUILT ge 1980 and BUILT le (&SURVYEAR + 1)}) \lor \text{STATUS ne 1}]

LEAK
1: \[\text{STATUS eq 2 to 3}) \lor \text{STATUS eq 4}]

LIVEAT
1: \[\text{STATUS eq 4} \land ((\text{NOINT eq 30 to 38})]

LIVING
1: \[\text{STATUS ne 1 to 3}]

LODRNT
1: \[\text{STATUS eq 2 to 3} \land ((\text{VACANCY eq 6 to 11}) \lor \text{STATUS ne 1 to 3}) \lor \text{STATUS eq 1} \land \text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and PAR(L_NO) ne 0 and PAR(L_NO) ne <> and TEN(PAR) eq 'X'} \lor \text{STATUS eq 1} \land \text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and PAR(L_NO) ne 0 and PAR(L_NO) ne <> and TEN(PAR) eq 'X'} \lor \text{STATUS eq 1} \land \text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and TEN(L_NO) eq 'X'} \lor \text{STATUS eq 1} \land \text{AGE(L_NO) le 15} \lor \text{STATUS eq 1} \land \text{LODSTA eq 2 or LODSTA eq 'D' or LODSTA eq 'R'}}

LODSTA
1: \[\text{STATUS eq 2 to 3} \land ((\text{VACANCY eq 6 to 11}) \lor \text{STATUS ne 1 to 3}) \lor \text{STATUS eq 1} \land \text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and PAR(L_NO) ne 0 and PAR(L_NO) ne <> and TEN(PAR) eq 'X'} \lor \text{STATUS eq 1} \land \text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and SPOUS(L_NO) ne 0 and SPOUS(L_NO) ne <> and TEN(SPOUS) eq 'X' or SPOUS_FLG eq 1}) \lor \text{STATUS eq 1} \land \text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and TEN(L_NO) eq 'X'} \lor \text{STATUS eq 1} \land \text{AGE(L_NO) le 15} \lor \text{STATUS eq 1} \land \text{LODSTA eq 2 or LODSTA eq 'D' or LODSTA eq 'R'}}
LOON

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and (MORTIN eq 1 or MORTIN eq 2 or MORTIN eq 4 or MORTIN eq 'D' or MORTIN eq 'R')) AND [VARY ne 2]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and VARY eq 2 and FIXED eq 'X' and ARM eq 'X' and GPM eq 'X' and GPMW eq 'X' and BLOON eq 'X' and VARM eq 'X'] AND [ARMASK eq 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1 and VARY eq 2] AND [BLOON eq 'X']; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [MORTIN eq 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL eq 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG eq 1]

LOON2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2 and VARY2 eq 2 and FIXED2 eq 'X' and ARM2 eq 'X' and GPM2 eq 'X' and GPMW2 eq 'X' and BLOON2 eq 'X' and VARM2 eq 'X'] AND [ARMASK2 eq 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2 and (MORTN2 eq 1 or MORTN2 eq 2 or MORTN2 eq 4 or MORTN2 eq 'D' or MORTN2 eq 'R')] AND [VARY2 ne 2]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2 and VARY2 eq 2] AND [BLOON2 eq 'X']; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [MORTN2 eq 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [MG eq 1] AND [(MCNT ne 1 to 7)]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL eq 1]; OR
9: [STATUS eq 1 and TENURE eq 1] AND [MG eq 1]

LOT

1: [(STATUS eq 1 to 3)] AND [NUNIT2 eq 3 or NUNIT2 eq 5]; OR
2: [(STATUS ne 1 to 3)]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [(CONDO eq 1 to 2)]

LPRICE

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1 and TENURE eq 1] AND [(CUSHOM eq 3 to 4)]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [CUSHOM eq 5 or PREOCC eq 1]; OR
4: [STATUS eq 1] AND [TENURE eq 1]; OR
5: [STATUS eq 4] AND [(STATUS eq 1 ne 3)]
LRENT

1: [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) AND (IFFEE eq 2 or IFFEE eq 'D' or IFFEE eq 'R') and (NUNIT2 eq 1 to 3) and (CONDO eq 1 to 2)]; OR
2: [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) AND (INCS eq 2 or INCS eq 'D' or INCS eq 'R') and (CONDO eq 3) and (NUNIT2 eq 1 to 3)]; OR
3: [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) AND (NUNIT2 eq 1 to 3) and IFFEE eq 1]; OR
4: [(STATUS eq 1 to 3)] AND [INCS eq 2 or INCS eq 'D' or INCS eq 'R']; OR
5: [(STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)] AND [OWNLOT2 eq 1 or OWNLOT2 eq 'D' or OWNLOT2 eq 'R') and (NUNIT2 eq 4 to 5)]; OR
6: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
7: [(STATUS ne 1 to 3)]; OR
8: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [LANPMT eq 1]; OR
9: [STATUS eq 1 and TENURE eq 1] AND [OWNLOT1 eq 1 or OWNLOT1 eq 'D' or OWNLOT1 eq 'R') and (NUNIT2 eq 4 to 5)]

LT25K

1: [STATUS ne 1]

LTSOK

1: [(STATUS eq 1 to 3)] AND [NUNIT2 ne 3 and NUNIT2 ne 5]; OR
2: [STATUS eq 4]

LTSOK1

1: [(STATUS eq 1 to 3)] AND [NUNIT2 ne 3 and NUNIT2 ne 5]; OR
2: [STATUS eq 4]

LTSOK2

1: [(STATUS eq 1 to 3)] AND [NUNIT2 ne 3 and NUNIT2 ne 5]; OR
2: [STATUS eq 4]

LVALUE

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 eq 4 to 5)]; OR
3 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 ne 4 to 5)]; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [OWNLOT1 eq '2' or OWNLOT1 eq 'D' or OWNLOT1 eq 'R' or OWNLOT1 eq ' ']; OR
5 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

LVCARP
1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2 : [STATUS eq 1] AND [(LIVING ne 1 to 5)]; OR
3 : [STATUS eq 1] AND [ANYCAR ne 1]; OR
4 : [STATUS eq 1] AND [ANYRUG ne 1]; OR
5 : [STATUS eq 1] AND [BEAF78 eq 2]; OR
6 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
7 : [STATUS ne 1]

M3ROD
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [EVROD ne 1]; OR
3 : [STATUS eq 4]

MAJR1
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [TENURE eq 1]; OR
3 : [STATUS eq 4]

MAJR2
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [TENURE eq 1]; OR
3 : [STATUS eq 4]

MAJR3
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [TENURE eq 1]; OR
3 : [STATUS eq 4]

MARKET
1: \([\text{STATUS} = 2 \text{ to } 3]\) AND \([\text{VACANCY} \neq 2 \text{ and } \text{VACANCY} \neq 3 \text{ and } \text{VACANCY} \neq 5]\) or \((\text{VACANCY} \neq 2 \text{ to } 3) \text{ or } \text{VACANCY} \neq 5 \text{ and } \text{TIMSHR} \neq 2\); OR
2: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 2 \text{ to } 3]\) AND \([\text{NUNIT2} = 4 \text{ to } 5]\); OR
3: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 2 \text{ to } 3]\) AND \([\text{NUNIT2} \neq 4 \text{ to } 5]\); OR
4: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MARKT} \neq 1]\); OR
5: \([\text{STATUS} = 4]\) AND \([\text{STATUS} \neq 1 \text{ to } 3]\)

\textbf{MARKT}

1: \([\text{STATUS} = 2 \text{ to } 3]\) AND \([\text{VACANCY} \neq 2 \text{ and } \text{VACANCY} \neq 3 \text{ and } \text{VACANCY} \neq 5]\) or \((\text{VACANCY} \neq 2 \text{ to } 3) \text{ or } \text{VACANCY} \neq 5 \text{ and } \text{TIMSHR} \neq 2\); OR
2: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 2 \text{ to } 3]\) AND \([\text{NUNIT2} = 4 \text{ to } 5]\); OR
3: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 2 \text{ to } 3]\) AND \([\text{NUNIT2} \neq 4 \text{ to } 5]\); OR
4: \([\text{STATUS} = 4]\) AND \([\text{STATUS} \neq 1 \text{ to } 3]\)

\textbf{MATBUY}

1: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1 \text{ and } \text{MG} = 1]\) AND \([\text{MCNT} \neq 1 \text{ to } 7]\); OR
2: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MG} = 1 \text{ and } \text{HEL} = 1]\); OR
3: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MCNT} \neq 1 \text{ to } 7]\)

\textbf{MATBY2}

1: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1 \text{ and } \text{MCNT} = 1]\) AND \([\text{HEL} = 1]\); OR
2: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1 \text{ and } \text{MCNT} = 1]\) AND \([\text{HEL} = 1]\); OR
3: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1 \text{ and } \text{MG} = 1]\) AND \([\text{MCNT} \neq 1 \text{ to } 7]\); OR
4: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MG} = 1 \text{ and } \text{HEL} = 1]\); OR
5: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MCNT} \neq 1 \text{ to } 7]\)

\textbf{MCNT}

1: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MG} = 1 \text{ and } \text{HEL} = 1]\); OR
2: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MG} = 1]\)

\textbf{MCOM}

1: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1 \text{ and } \text{MG} = 1]\) AND \([\text{MCNT} \neq 1 \text{ to } 7]\); OR
2: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MG} = 1 \text{ and } \text{HEL} = 1]\); OR
3: \([\text{STATUS} = 1 \text{ and } \text{TENURE} = 1]\) AND \([\text{MG} = 1]\)

\textbf{MCOM2}
1 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3 : [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

MFARM
1 : [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
2 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
3 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

MFARM2
1 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

MH32
1 : [(STATUS eq 1 to 3)] AND [(NUNIT2 eq 3 and NUNITS ne 2) or ((NUNIT2 eq 4 to 5) and TPARK ne 1)]; OR
2 : [(STATUS ne 1 to 3)]

MH41
1 : [(STATUS eq 1 to 3)] AND [(NUNIT2 eq 3 and NUNITS ne 2) or ((NUNIT2 eq 4 to 5) and TPARK ne 1)]; OR
2 : [(STATUS eq 1 to 3)] AND [MH32 eq 2 or MH32 eq 'D' or MH32 eq 'R'] ; OR
3 : [(STATUS ne 1 to 3)]

MH42
1 : [(STATUS eq 1 to 3)] AND [(NUNIT2 eq 3 and NUNITS ne 2) or ((NUNIT2 eq 4 to 5) and TPARK ne 1)]; OR
2 : [(STATUS eq 1 to 3)] AND [MH32 eq 2 or MH32 eq 'D' or MH32 eq 'R'] ; OR
3 : [(STATUS ne 1 to 3)]

MH43
1: \([\text{STATUS eq 1 to 3}] \text{ AND } (\text{NUNIT2 eq 3 and NUNITS ne 2}) \text{ or } ((\text{NUNIT2 eq 4 to 5}) \text{ and TPARK ne 1})\); OR
2: \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{MH32 eq 2 or MH32 eq 'D' or MH32 eq 'R'}]\); OR
3: \([\text{STATUS ne 1 to 3}]\)

MH44

1: \([\text{STATUS eq 1 to 3}] \text{ AND } (\text{NUNIT2 eq 3 and NUNITS ne 2}) \text{ or } ((\text{NUNIT2 eq 4 to 5}) \text{ and TPARK ne 1})\); OR
2: \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{MH32 eq 2 or MH32 eq 'D' or MH32 eq 'R'}]\); OR
3: \([\text{STATUS ne 1 to 3}]\)

MH45

1: \([\text{STATUS eq 1 to 3}] \text{ AND } (\text{NUNIT2 eq 3 and NUNITS ne 2}) \text{ or } ((\text{NUNIT2 eq 4 to 5}) \text{ and TPARK ne 1})\); OR
2: \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{MH32 eq 2 or MH32 eq 'D' or MH32 eq 'R'}]\); OR
3: \([\text{STATUS ne 1 to 3}]\)

MHOTFE

1: \([\text{STATUS eq 1 and TENURE eq 1}) \text{ or } ((\text{STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5})) \text{ AND } ((\text{IFOTHF eq 2 or IFOTHF eq 'D' or IFOTHF eq 'R'}) \text{ and } (\text{NUNIT2 eq 4 to 5}) \text{ and (MHSTAY ne 2}))\]; OR
2: \([\text{STATUS eq 1 and TENURE eq 1}) \text{ or } ((\text{STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5})) \text{ AND } ((\text{NUNIT2 eq 1 to 3}) \text{ and IFFEE eq 1})\]; OR
3: \([\text{STATUS eq 1 to 3}] \text{ AND } ((\text{NUNIT2 ne 4 to 5})\); OR
4: \([\text{STATUS eq 2 to 3}) \text{ AND } (\text{IFOTHF eq 2 or IFOTHF eq 'D' or IFOTHF eq 'R'})\); OR
5: \([\text{STATUS eq 2 to 3}) \text{ AND } ((\text{NUNIT2 eq 4 to 5}) \text{ and (VACANCY eq 3 or VACANCY eq 5}) \text{ and MHSTAY eq 2})\]; OR
6: \([\text{STATUS eq 2 to 3}) \text{ AND } ((\text{NUNIT2 eq 4 to 5}) \text{ and (VACANCY ne 1 to 5})\]; OR
7: \([\text{STATUS eq 2 to 3}) \text{ AND } (\text{VACANCY eq 6 to 11})\]; OR
8: \([\text{STATUS ne 1 to 3}]\)

MHSETQ

1: \([\text{STATUS eq 1 to 3}] \text{ AND } ((\text{NUNIT2 ne 4 to 5})\); OR
2: \([\text{STATUS eq 1 to 3}] \text{ AND } [\text{ANCHOR ne 1}]\); OR
3: \([\text{STATUS ne 1 to 3}]\)

MHSTAY
1 : [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) AND [(IFFEE eq 2 or IFFEE eq 'D' or IFFEE eq 'R') and (NUNIT2 eq 1 to 3)]; OR
2 : [(STATUS eq 1 and TENURE eq 1) or ((STATUS eq 2 to 3) and (VACANCY eq 3 or VACANCY eq 5)) AND [(NUNIT2 eq 1 to 3) and IFFEE eq 1]]; OR
3 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 2) or VACANCY eq 4]; OR
4 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
5 : [(STATUS ne 1 to 3)]; OR
6 : [(STATUS eq 1 and TENURE eq 1) AND [(NUNIT2 eq 4 to 5)]]; OR
7 : [(STATUS eq 1) AND [TENURE eq 2]]; OR
8 : [(STATUS eq 1) AND [TENURE eq 3]]

MICE

1 : [(STATUS eq 2 to 3)]; OR
2 : [(STATUS eq 1) AND [EVROD ne 1]]; OR
3 : [(STATUS eq 1) AND [M3ROD ne 1]]; OR
4 : [(STATUS eq 4)]

MINR1

1 : [(STATUS eq 2 to 3)]; OR
2 : [(STATUS eq 1) AND [TENURE eq 1]]; OR
3 : [(STATUS eq 4)]

MINR2

1 : [(STATUS eq 2 to 3)]; OR
2 : [(STATUS eq 1) AND [TENURE eq 1]]; OR
3 : [(STATUS eq 4)]

MINR3

1 : [(STATUS eq 2 to 3)]; OR
2 : [(STATUS eq 1) AND [TENURE eq 1]]; OR
3 : [(STATUS eq 4)]

MOPERM

1 : [(STATUS eq 1 and (TENURE eq 2 to 3)) AND [(NUNIT2 eq 4 to 5)]]; OR
2 : [(STATUS eq 1 and (TENURE eq 2 to 3)) AND [(NUNIT2 ne 4 to 5)]]; OR
3 : [(STATUS eq 1 and TENURE eq 1) AND [(LVALUE eq 1 to 999998) or LVALUE eq .D or LVALUE eq .R]]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [OWNLOT1 eq '2' or OWNLOT1 eq 'D' or OWNLOT1 eq 'R' or OWNLOT1 eq '']  OR
5: [STATUS eq 4] AND [(STATUS ne 1 to 3)]

**MORTIN**

1: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]  OR
2: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]  OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

**MORTN2**

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]  OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]  OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]  OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]  OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

**MOVAC**

1: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 eq 4 to 5)]  OR
2: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 ne 4 to 5)]  OR
3: [STATUS eq 1 and TENURE eq 1] AND [(LVALUE eq 1 to 999998) or LVALUE eq .D or LVALUE eq .R]  OR
4: [STATUS eq 1 and TENURE eq 1] AND [OWNLOT1 eq '2' or OWNLOT1 eq 'D' or OWNLOT1 eq 'R' or OWNLOT1 eq '']  OR
5: [STATUS eq 2]  OR
6: [STATUS eq 4] AND [(STATUS ne 1 to 3)]

**MUSTEL**

1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]  OR
2: [STATUS eq 1] AND [BEAF78 eq 2]  OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]  OR
4: [STATUS ne 1]

**NEWMOR**

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [MATBUY ne 1]  OR
2: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]  OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]  OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]
NEWMR2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [MATBY2 ne 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

NLEAK1

1: [STATUS eq 2 to 3]); OR
2: [STATUS eq 1] AND [ILEAK ne 1]; OR
3: [STATUS eq 4]

NLEAK2

1: [STATUS eq 2 to 3]); OR
2: [STATUS eq 1] AND [ILEAK ne 1]; OR
3: [STATUS eq 4]

NOINT

1: [STATUS ne 4]

NONE

1: [(STATUS eq 1 to 3]) AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3]) AND [See comments]; OR
3: [(STATUS ne 1 to 3)]

NOOTHRM

1: [(STATUS ne 1 to 3)]

NOTSUR

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1] AND [EVROD ne 1]; OR
3: [STATUS eq 1] AND [M3ROD ne 1]; OR
4: [STATUS eq 4]
NOWIRE

1 : [STATUS eq 4]

NROWNR

1 : [(STATUS eq 2 to 3)] AND [(VACANCY ne 2 and VACANCY ne 3 and VACANCY ne 5) or (((VACANCY eq 2 to 3) or VACANCY eq 5) and TIMSHR ne 2)]; OR
2 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 eq 4 to 5)]; OR
3 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 ne 4 to 5)]; OR
4 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

NRPAYM

1 : [(STATUS eq 2 to 3)] AND [(VACANCY ne 2 and VACANCY ne 3 and VACANCY ne 5) or (((VACANCY eq 2 to 3) or VACANCY eq 5) and TIMSHR ne 2)]; OR
2 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 eq 4 to 5)]; OR
3 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 ne 4 to 5)]; OR
4 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

NUMAIR

1 : [(STATUS eq 1 to 3)] AND [AIR eq 2 or AIR eq 'D' or AIR eq 'R'] ; OR
2 : [(STATUS ne 1 to 3)]

NUMBLOW

1 : [(STATUS eq 1 to 3)] AND [NOWIRE eq 3] ; OR
2 : [STATUS eq 1] AND [IFBLOW ne 1] ; OR
3 : [STATUS eq 4]

NUMCOLD

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [(IFCOLD ne 1 to 2)]; OR
3 : [(STATUS eq 1) AND [FREEZE ne 1]]; OR
4 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
5 : [STATUS eq 1] AND [IFCOLD eq 2]; OR
6 : [STATUS eq 4]
NUMDRY

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1] AND [HOTPIP ne 1]; OR
3: [STATUS eq 1] AND [IFDRY ne 1]; OR
4: [STATUS eq 4]

NUMSEW

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1] AND [IFSEW ne 1]; OR
3: [STATUS eq 1] AND [PUBSEW ne 1 and (SEWDIS ne 1 to 2)]; OR
4: [STATUS eq 4]

NUMTLT

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1] AND [BATHS lt 2 and TOILET ne 1]; OR
3: [STATUS eq 1] AND [IFTLT ne 1]; OR
4: [STATUS eq 4]

NUNIT2

1: [(STATUS eq 1 to 3)] AND [(TYPE eq 10 to 11)]; OR
2: [STATUS eq 4] AND [(NOINT eq 1 to 6)]; OR
3: [STATUS eq 4] AND [(NOINT eq 10 to 17)]; OR
4: [STATUS eq 4] AND [(NOINT eq 30 to 38)]

NUNITS

1: [(STATUS eq 1 to 3)] AND [(TYPE eq 10 to 11)]; OR
2: [STATUS eq 4] AND [(NOINT eq 1 to 6)]; OR
3: [STATUS eq 4] AND [(NOINT eq 10 to 17)]; OR
4: [STATUS eq 4] AND [(NOINT eq 30 to 38)]

OAFUEL

1: [(STATUS eq 1 to 3)] AND [AIRSYS eq 2]; OR
2: [(STATUS eq 1 to 3)] AND [OARSYS eq 2 or OARSYS eq 'D' or OARSYS eq 'R'] ; OR
3: [(STATUS ne 1 to 3)]

OARSYS
1 : [STATUS eq 1 to 3]) AND [AIRSYS eq 2]; OR
2 : [STATUS ne 1 to 3])

**OTBUP**

1 : [STATUS eq 4] AND [(NOINT eq 1 to 6)]; OR
2 : [STATUS eq 4] AND [(NOINT eq 10 to 17)]; OR
3 : [STATUS eq 4] AND [(NOINT eq 30 to 38)]

**OTHCLD**

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [(IFCOLD ne 1 to 2)]; OR
3 : [STATUS eq 1] AND [FREEZE ne 1]; OR
4 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
5 : [STATUS eq 1] AND [IFCOLD eq 2]; OR
6 : [STATUS eq 4]

**OTHEST**

1 : [STATUS ne 1]

**OTHFN**

1 : [(STATUS ne 1 to 3)]

**OTHLQ**

1 : [(STATUS eq 1 to 3]) AND [(TYPE eq 10 to 11)]; OR
2 : [(STATUS eq 1 to 3]) AND [TYPE gt 3]; OR
3 : [STATUS eq 4] AND [(NOINT eq 1 to 6)]; OR
4 : [STATUS eq 4] AND [(NOINT eq 10 to 17)]; OR
5 : [STATUS eq 4] AND [(NOINT eq 30 to 38)]

**OTHPMT**

1 : [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
2 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
3 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]
OTHRUN
1 : [(STATUS ne 1 to 3)]

OTLEAK
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [LEAK ne 1]; OR
3 : [STATUS eq 4]

OTPMT2
1 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3 : [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

OUTPEL
1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2 : [STATUS eq 1] AND [BEAF78 eq 2]; OR
3 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4 : [STATUS eq 1] AND [OUTPNT ne 1]; OR
5 : [STATUS ne 1]

OUTPNT
1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2 : [STATUS eq 1] AND [BEAF78 eq 2]; OR
3 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4 : [STATUS ne 1]

OVEN
1 : [(STATUS eq 1 to 3)] AND [BURNER eq 1]; OR
2 : [(STATUS eq 1 to 3)] AND [COOK eq 1]; OR
3 : [(STATUS ne 1 to 3)]

OWNHERE
1 : [(STATUS eq 1 to 3)] AND [(NUNIT2 eq 4 and TPARK lt 2) or (NUNIT2 eq 1 to 2)]
OWNLOT

1 : 

[((STATUS eq 1 and (NUNIT2 eq 1 to 3) and TENURE ne 1) or ((STATUS eq 2 to 3) and (NUNIT2 eq 1 to 3) or MHSTAY eq 2)) or STATUS eq 4]) AND [OWNLOT ne 'B']

PAFUR

1 : [STATUS eq 1 to 3)] AND [AFUR ne 'X'] OR
2 : [STATUS eq 1 to 3)] AND [HFUEL eq 9] OR
3 : [STATUS eq 1 to 3)]

PAPHLT

1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)] OR
2 : [STATUS eq 1] AND [BEAF78 eq 2] OR
3 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)] OR
4 : [STATUS eq 1] AND [RMOVE eq &SURVYEAR or (RMOVE eq (&SURVYEAR-1) and RMOVM ge 9)] OR
5 : [STATUS ne 1]

PCOKST

1 : [STATUS eq 1 to 3)] AND [COKST ne 'X'] OR
2 : [STATUS eq 1 to 3)] AND [HFUEL eq 9] OR
3 : [STATUS eq 1 to 3)]

PEELAM

1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)] OR
2 : [STATUS eq 1] AND [BEAF78 eq 2] OR
3 : [STATUS eq 1] AND [BIGP ne 1] OR
4 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)] OR
5 : [STATUS eq 1] AND [PEELRM ne 1] OR
6 : [STATUS eq 1] AND [PEELSZ eq 1] OR
7 : [STATUS ne 1]

PEELSZ

1 : [STATUS eq 1] AND [(LAT70S eq 8 to 9)] OR
2 : [STATUS eq 1] AND [BEAF78 eq 2] OR
3 : [STATUS eq 1] AND [BIGP ne 1] OR
4 : [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
5 : [STATUS eq 1] AND [PEELRM ne 1]; OR
6 : [STATUS ne 1]

**PELECT**

1 : [[STATUS eq 1 to 3)] AND [ELECT ne 'X']; OR
2 : [[STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3 : [[STATUS ne 1 to 3]]

**PFLOT**

1 : [[STATUS eq 1 to 3)] AND [FLOT ne 'X']; OR
2 : [[STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3 : [[STATUS ne 1 to 3]]

**PFRPL**

1 : [[STATUS eq 1 to 3)] AND [FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R']; OR
2 : [[STATUS eq 1 to 3)] AND [FRPL ne 'X']; OR
3 : [[STATUS ne 1 to 3]]

**PFRPLI**

1 : [[STATUS eq 1 to 3)] AND [FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R']; OR
2 : [[STATUS eq 1 to 3)] AND [FRPLI ne 'X']; OR
3 : [[STATUS ne 1 to 3]]

**PHOTH**

1 : [[STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2 : [[STATUS eq 1 to 3)] AND [HOTH ne 'X']; OR
3 : [[STATUS ne 1 to 3]]

**PHPMP**

1 : [[STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2 : [[STATUS eq 1 to 3)] AND [HPMP ne 'X']; OR
3 : [[STATUS ne 1 to 3]]

**PILEAK**
1: [(STATUS eq 2 to 3)] ; OR
2: [STATUS eq 1] AND [ILEAK ne 1] ; OR
3: [STATUS eq 4]

PINCO2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1] ; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1] ; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)] ; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1] ; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

PINCO1

1: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)] ; OR
2: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1] ; OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

PLEAK

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1] AND [ILEAK ne 1]; OR
3: [STATUS eq 4]

PLF

1: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3)] AND [NONE eq 'X']; OR
3: [(STATUS ne 1 to 3)]

PLUGS

1: [(STATUS eq 1 to 3)] AND [NOWIRE eq 3]; OR
2: [STATUS eq 4]

PMT

1: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
2: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]
PMT2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

PMT3

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL eq 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

PMT4

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL eq 1]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT eq 2] AND [HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL eq 1]; OR
6: [STATUS eq 1 and TENURE eq 1 and MCNT eq 3] AND [HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
9: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

PORCH

1: [(STATUS ne 1 to 3)]

PORTH

1: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3)] AND [NONE eq 'X']; OR
3: [(STATUS ne 1 to 3)]

PPLF
1 : [(STATUS eq 1 to 3)) AND [HFUEL eq 9] ; OR
2 : [(STATUS eq 1 to 3)) AND [PLF ne 'X'] ; OR
3 : [(STATUS ne 1 to 3)]

PRENT

1 : [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG eq 1] ; OR
2 : [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG ne 1] ; OR
3 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
4 : [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5] ; OR
5 : [(STATUS ne 1 to 3)]; OR
6 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [((RNTADJ eq 1 to 2) or RNTADJ eq 'D' or RNTADJ eq 'R') and PHAFLG ne 1] ; OR
7 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(VCHER eq 2 or VCHER eq 'D' or VCHER eq 'R') and PHAFLG ne 1] ; OR
8 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PROJ eq 'D' and (RENEW eq 1 or RENEW eq 'R') and REPFA ne 2 and PHAFLG ne 1] ; OR
9 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PROJ eq 'D' and (RENEW eq 2 or RENEW eq 'D') and SUBRNT ne 1 and PHAFLG ne 1] ; OR
10 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [SUBRNT eq 2 and PHAFLG ne 1] ; OR
11 : [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1] ; OR
12 : [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]

PREOCC

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1 and TENURE eq 1] AND [(CUSHOM eq 1 to 5) or CUSHOM eq 'D' or CUSHOM eq 'R' or CUSHOM eq ' ']; OR
3 : [STATUS eq 1] AND [TENURE ne 1]; OR
4 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

PROJ

1 : [(STATUS eq 2 to 3)] AND [VACANCY eq 6 to 11)]; OR
2 : [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5] ; OR
3 : [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [SUBRNT eq 2 and PHAFLG ne 1] ; OR
5 : [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1] ; OR
6 : [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]

PSTEAM
1: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3)] AND [STEAM ne 'X']; OR
3: [(STATUS ne 1 to 3)]

PSTOVE

1: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3)] AND [STOVE ne 'X']; OR
3: [(STATUS ne 1 to 3)]

PUBSEW

1: [(STATUS ne 1 to 3)]

PVALUE

1: [(STATUS eq 1 to 3)] AND [(NUNIT2 eq 1 to 2) and CONDO eq 3 and LOT le 440000 and DRSHOP ne 1]; OR
2: [(STATUS eq 1 to 3)] AND [(NUNIT2 ne 4 and CONDO ne 3) or NUNIT2 eq 4]; OR
3: [(STATUS eq 2 to 3)] AND [(VACANCY ne 2 and VACANCY ne 3 and VACANCY ne 5) or (((VACANCY eq 2 to 3) or VACANCY eq 5) and TIMSHR ne 2)]; OR
4: [(STATUS eq 2 to 3)] AND [VACANCY eq 5 and TIMSHR eq 2]; OR
5: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 eq 4 to 5)]; OR
6: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 ne 4 to 5)]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [(LVALUE eq 1 to 999998) or LVALUE eq '.D' or LVALUE eq '.R']]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [OWNLOT1 eq '2' or OWNLOT1 eq 'D' or OWNLOT1 eq 'R' or OWNLOT1 eq ' ']; OR
9: [STATUS eq 1] AND [(TENURE eq 2 to 3)]; OR
10: [STATUS eq 3] AND [VACANCY eq 1 or VACANCY eq 2 or VACANCY eq 4]; OR
11: [STATUS eq 4] AND [(STATUS ne 1 to 3)]

QALIM

1: [STATUS ne 1]

QBINV

1: [STATUS ne 1]; OR
2: [STATUS eq 1] AND [LT25K eq 1]; OR
3: [STATUS eq 1] AND [TOTINC gt 25000]
QBUS
1 : [STATUS ne 1]

QDIV
1 : [STATUS ne 1]

QFS1
1 : [STATUS ne 1]; OR
2 : [STATUS eq 1] AND [LT25K eq 1]; OR
3 : [STATUS eq 1] AND [TOTINC gt 25000]

QINT
1 : [STATUS ne 1]

QMEN
1 : [STATUS ne 1]

QOINV
1 : [STATUS ne 1]; OR
2 : [STATUS eq 1] AND [LT25K eq 1]; OR
3 : [STATUS eq 1] AND [TOTINC gt 25000]

QOTHER
1 : [STATUS ne 1]

QRENT
1 : [STATUS ne 1]

QSAVNG
1 : [STATUS ne 1]; OR
2 : [STATUS eq 1] AND [LT25K eq 1]; OR
3 : [STATUS eq 1] AND [TOTINC gt 25000]

QSS
1 : [STATUS ne 1]

QWELF
1 : [STATUS ne 1]

QWKCMP
1 : [STATUS ne 1]

RAILOK
1 : [(STATUS eq 1 to 3)] AND [(BADSTEP ne 2 to 3)]; OR
2 : [(STATUS eq 1 to 3)] AND [NUNIT2 ne 3 and NUNIT2 ne 5]; OR
3 : [STATUS eq 4]

RAILOK1
1 : [(STATUS eq 1 to 3)] AND [NUNIT2 ne 3 and NUNIT2 ne 5]; OR
2 : [STATUS eq 4]

RAILOK2
1 : [(STATUS eq 1 to 3)] AND [NUNIT2 ne 3 and NUNIT2 ne 5]; OR
2 : [STATUS eq 4]

RATS
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [EVROD ne 1]; OR
3 : [STATUS eq 1] AND [M3ROD ne 1]; OR
4 : [STATUS eq 4]

RCNTRL
1: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG eq 1]; OR
2: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or VACANCY eq 4)] AND [PROJ eq 1]; OR
3: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or VACANCY eq 4)] AND [SUBRNT eq 1]; OR
4: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
5: [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
6: [(STATUS ne 1 to 3)]; OR
7: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(VCHER eq 2 or VCHER eq 'D' or VCHER eq 'R') and PHAFLG ne 1]; OR
8: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [APPLY eq 2 and PHAFLG ne 1]; OR
9: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PHAFLG eq 1]; OR
10: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PROJ eq 1]; OR
11: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [REPHA eq 2 and PHAFLG ne 1]; OR
12: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [VCHER eq 1 and PHAFLG ne 1]; OR
13: [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
14: [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]

RECRM

1: [(STATUS ne 1 to 3)]

REFR

1: [(STATUS ne 1 to 3)]

RENEW

1: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG eq 1]; OR
2: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG ne 1]; OR
3: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
4: [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
5: [(STATUS ne 1 to 3)]; OR
6: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PHAFLG eq 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]

RENT

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
2: [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
3: [(STATUS ne 1 to 3)]; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
5 : [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]; OR
6 : [STATUS eq 1] AND [TENURE eq 3]

REPHA
1 : [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG eq 1]; OR
2 : [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG ne 1]; OR
3 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
4 : [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
5 : [(STATUS ne 1 to 3)]; OR
6 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(RENEW eq 2 or RENEW eq 'D' or RENEW eq 'R') and PHAFLG ne 1]; OR
7 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PHAFLG eq 1]; OR
8 : [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
9 : [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]

RESMOR
1 : [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [PINCOP ne 1 and MFARM ne 1 and MCOM ne 1]; OR
2 : [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
3 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

RESMR2
1 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3 : [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [PINC02 ne 1 and MFARM2 ne 1 and MCOM2 ne 1]; OR
4 : [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
5 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
6 : [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

RESPTYP
1 : [STATUS eq 1] AND [(STATUS ne 2 to 3)]; OR
2 : [STATUS eq 4]

REUAD
1: \([\text{STATUS eq 1 to 3}] \text{AND} [\text{TYPE eq 10 to 11}]\); OR  
2: \([\text{STATUS eq 1 to 3}] \text{AND} [\text{INCSAM eq 0}]\); OR  
3: \([\text{STATUS eq 4}] \text{AND} [\text{NOINT eq 1 to 6}]\); OR  
4: \([\text{STATUS eq 4}] \text{AND} [\text{NOINT eq 10 to 17}]\); OR  
5: \([\text{STATUS eq 4}] \text{AND} [\text{NOINT eq 30 to 38}]\)

**RLEAK**

1: \([\text{STATUS eq 2 to 3}]\); OR  
2: \([\text{STATUS eq 1}] \text{AND} [\text{LEAK ne 1}]\); OR  
3: \([\text{STATUS eq 4}]\)

**RNTADJ**

1: \([\text{STATUS eq 2 to 3}] \text{and} [(\text{VACANCY eq 1 to 2}) \text{or} (\text{VACANCY eq 4})]\) \text{AND} [\text{PHAFLG eq 1}]; OR  
2: \([\text{STATUS eq 2 to 3}] \text{and} [(\text{VACANCY eq 1 to 2}) \text{or} (\text{VACANCY eq 4})]\) \text{AND} [\text{PHAFLG ne 1}]; OR  
3: \([\text{STATUS eq 2 to 3}] \text{and} [(\text{VACANCY eq 6 to 11})]\); OR  
4: \([\text{STATUS eq 2 to 3}] \text{and} [(\text{VACANCY eq 3 or VACANCY eq 5})]\); OR  
5: \([\text{STATUS eq 4}]\); OR  
6: \([\text{STATUS eq 1 and (TENURE eq 2 to 3)}] \text{AND} [(\text{VCHER eq 2 or VCHER eq 'D' or VCHER eq 'R')} \text{and PHAFLG eq 1}]\); OR  
7: \([\text{STATUS eq 1 and (TENURE eq 2 to 3)}] \text{AND} [(\text{APPLY eq 2 and PHAFLG eq 1})]\); OR  
8: \([\text{STATUS eq 1 and (TENURE eq 2 to 3)}] \text{AND} [\text{PHAFLG eq 1}]\); OR  
9: \([\text{STATUS eq 1 and (TENURE eq 2 to 3)}] \text{AND} [\text{PHAFLG eq 1}]\); OR  
10: \([\text{STATUS eq 1 and (TENURE eq 2 to 3)}] \text{AND} [\text{PHAFLG eq 1}]\); OR  
11: \([\text{STATUS eq 1 and (TENURE eq 2 to 3)}] \text{AND} [\text{VCHER eq 1 and PHAFLG eq 1}]\); OR  
12: \([\text{STATUS eq 1 and TENURE eq 1}] \text{AND} [\text{BUYI eq 1}]\); OR  
13: \([\text{STATUS eq 1 and TENURE eq 1}] \text{AND} [\text{BUYI ne 1}]\)

**RNTDUE**

1: \([\text{STATUS eq 2 to 3}] \text{AND} [(\text{VACANCY eq 6 to 11})]\); OR  
2: \([\text{STATUS ne 1 to 3}]\); OR  
3: \([\text{STATUS eq 1}] \text{AND} [\text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and PAR(L_NO) ne 0 and PAR(L_NO) ne <> and TEN(PAR) eq 'X']}]\); OR  
4: \([\text{STATUS eq 1}] \text{AND} [\text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and SPOUS(L_NO) ne 0 and SPOUS(L_NO) ne <> and (TEN(SPOUS) eq 'X' or SPOUS_FLG eq 1)}]\); OR  
5: \([\text{STATUS eq 1}] \text{AND} [\text{AGE(L_NO) ge 16 and REL(L_NO) ge 27 and TEN(L_NO) eq 'X']}]\); OR  
6: \([\text{STATUS eq 1}] \text{AND} [\text{AGE(L_NO) ge 16 and REL(L_NO) le 26}]\); OR  
7: \([\text{STATUS eq 1}] \text{AND} [\text{AGE(L_NO) le 15}]\); OR  
8: \([\text{STATUS eq 1}] \text{AND} [\text{LODSTA eq 2 or LODSTA eq 'D' or LODSTA eq 'R'}]\)
SAFUR

1 : \[(STATUS \text{ eq 1 to 3}) \text{ AND } [AFUR \text{ ne 'X'}] \text{; OR} \]
2 : \[(STATUS \text{ eq 1 to 3}) \text{ AND } [HFUEL \text{ eq 9}] \text{; OR} \]
3 : \[(STATUS \text{ ne 1 to 3}) \text{]}

SAL

1 : \[STATUS \text{ ne 1}] \text{; OR} \]
2 : \[STATUS \text{ eq 1} \text{ AND } [(HHMEM \text{ ne 1 or AGE lt 16}] \text{]}

SAMEDU

1 : \[(STATUS \text{ eq 1 to 4}) \text{ AND } [INCSAM \text{ eq 1}] \text{]}

SCOAL

1 : \[(STATUS \text{ ne 1 to 3}) \text{]}

SCOKST

1 : \[(STATUS \text{ eq 1 to 3}) \text{ AND } [COKST \text{ ne 'X'}] \text{; OR} \]
2 : \[(STATUS \text{ eq 1 to 3}) \text{ AND } [HFUEL \text{ eq 9}] \text{; OR} \]
3 : \[(STATUS \text{ ne 1 to 3}) \text{]}

SELECT

1 : \[(STATUS \text{ eq 1 to 3}) \text{ AND } [ELECT \text{ ne 'X'}] \text{; OR} \]
2 : \[(STATUS \text{ eq 1 to 3}) \text{ AND } [HFUEL \text{ eq 9}] \text{; OR} \]
3 : \[(STATUS \text{ ne 1 to 3}) \text{]}

SELL

1 : \[STATUS \text{ eq 1 and TENURE eq 1 and MCNT ge 1 and (MORTIN eq 4 or MORTIN eq 'D' or MORTIN eq 'R') \text{ AND } [BANK \text{ ne 2}] \text{; OR} \]
2 : \[STATUS \text{ eq 1 and TENURE eq 1 and MCNT ge 1} \text{ AND } [MORTIN \text{ ne 4 and MORTIN ne 'D' and MORTIN ne 'R'] \text{; OR} \]
3 : \[STATUS \text{ eq 1 and TENURE eq 1 and MG eq 1} \text{ AND } [(MCNT \text{ ne 1 to 7}) \text{; OR} \]
4 : \[STATUS \text{ eq 1 and TENURE eq 1} \text{ AND } [MG \text{ ne 1 and HEL ne 1}] \text{; OR} \]
5 : \[STATUS \text{ eq 1 and TENURE eq 1} \text{ AND } [MG \text{ ne 1}] \text{]}

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Appendix E: Coding for Exclusion from Universes

SELL2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and (MORTN2 eq 4 or MORTN2 eq 'D' or MORTN2 eq 'R')]} AND [BANK2 ne 2]; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [MORTN2 ne 4 and MORTN2 ne 'D' and MORTN2 ne 'R']; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

SEWDIS

1: [(STATUS eq 1 to 3)] AND [PUBSEW eq 1]; OR
2: [(STATUS ne 1 to 3)]

SEWDUS

1: [(STATUS eq 1 to 3)] AND [(SEWDIS eq 2 to 5) or SEWDIS eq 'D' or SEWDIS eq 'R']}; OR
2: [(STATUS eq 1 to 3)] AND [PUBSEW eq 1]; OR
3: [(STATUS ne 1 to 3)]

SFLIN

1: [(STATUS eq 1 to 3)] AND [FLIN ne 'X']; OR
2: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3: [(STATUS ne 1 to 3)]

SFLOT

1: [(STATUS eq 1 to 3)] AND [FLOT ne 'X']; OR
2: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
3: [(STATUS ne 1 to 3)]

SFRPL

1: [(STATUS eq 1 to 3)] AND [FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R']}; OR
2: [(STATUS eq 1 to 3)] AND [FRPL ne 'X']}; OR
3: [(STATUS ne 1 to 3)]
SFRPLI

1: [(STATUS eq 1 to 3)] AND [FPLWK eq 2 or FPLWK eq 'D' or FPLWK eq 'R'); OR
2: [(STATUS eq 1 to 3)] AND [FRPLI ne 'X']; OR
3: [(STATUS ne 1 to 3)]

SGAS

1: [(STATUS ne 1 to 3)]

SHARAT

1: [(STATUS eq 1 to 3)] AND [(TYPE eq 10 to 11)); OR
2: [(STATUS eq 1 to 3)] AND [NUNIT2 ne 2 and SHARAT ne 1 and SHARFR ne 1]; OR
3: [(STATUS eq 4)] AND [(NOINT eq 1 to 6)]; OR
4: [(STATUS eq 4)] AND [(NOINT eq 10 to 17)]; OR
5: [(STATUS eq 4)] AND [(NOINT eq 30 to 38)]

SHARFR

1: [(STATUS eq 1 to 3)] AND [(TYPE eq 10 to 11)); OR
2: [(STATUS eq 1 to 3)] AND [NUNIT2 ne 2 and SHARAT ne 1 and SHARFR ne 1]; OR
3: [(STATUS eq 1 to 3)] AND [SHARAT eq 1]; OR
4: [(STATUS eq 4)] AND [(NOINT eq 1 to 6)]; OR
5: [(STATUS eq 4)] AND [(NOINT eq 10 to 17)]; OR
6: [(STATUS eq 4)] AND [(NOINT eq 30 to 38)]

SHARPF

1: [(STATUS eq 1 to 3)] AND [HOTPIP ne 1 and BSINK ne 1 and TOILET ne 1 and TUB ne 1]; OR
2: [(STATUS ne 1 to 3)]

SHOTH

1: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3)] AND [HOTH ne 'X']; OR
3: [(STATUS ne 1 to 3)]

SHPMP

1: [(STATUS eq 1 to 3)] AND [HFUEL eq 9]; OR
2: [(STATUS eq 1 to 3) AND [HPMP ne 'X']; OR
3: [(STATUS ne 1 to 3)]

SINK
1: [(STATUS ne 1 to 3)]

SJUICE
1: [(STATUS ne 1 to 3)]

SKERO
1: [(STATUS ne 1 to 3)]

SMPEEL
1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [BEAF78 eq 2]; OR
3: [STATUS eq 1] AND [BIGPEL ne 1]; OR
4: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
5: [STATUS eq 1] AND [OUTPEL ne 1]; OR
6: [STATUS eq 1] AND [OUTPNT ne 1]; OR
7: [STATUS ne 1]

SNDPNT
1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [ANYPNT ne 1]; OR
3: [STATUS eq 1] AND [BEAF78 eq 2]; OR
4: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
5: [STATUS ne 1]

SOIL
1: [(STATUS ne 1 to 3)]

SOTHER
1: [(STATUS ne 1 to 3)]
SPLF

1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR
2 : [(STATUS eq 1 to 3)] AND [PLF ne 'X'] ; OR
3 : [(STATUS ne 1 to 3)]

SPORTH

1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR
2 : [(STATUS eq 1 to 3)] AND [PORTH ne 'X'] ; OR
3 : [(STATUS ne 1 to 3)]

SSTEAM

1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR
2 : [(STATUS eq 1 to 3)] AND [STEAM ne 'X'] ; OR
3 : [(STATUS ne 1 to 3)]

SSTOVE

1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR
2 : [(STATUS eq 1 to 3)] AND [STOVE ne 'X'] ; OR
3 : [(STATUS ne 1 to 3)]

SSUN

1 : [(STATUS ne 1 to 3)]

STEAM

1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR
2 : [(STATUS eq 1 to 3)] AND [NONE eq 'X'] ; OR
3 : [(STATUS ne 1 to 3)]

STOVE

1 : [(STATUS eq 1 to 3)] AND [HFUEL eq 9] ; OR
2 : [(STATUS eq 1 to 3)] AND [NONE eq 'X'] ; OR
3 : [(STATUS ne 1 to 3)]
SUBMOR

1: \([\text{STATUS eq 1 and TENURE eq 1 and MG eq 1} \text{ AND } [(MCNT ne 1 to 7)] \text{; OR} \]
2: \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1 and HEL ne 1}]] \text{; OR} \]
3: \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1}]]

SUBMR2

1: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1} \text{ AND } [\text{HEL eq 1}]] \text{; OR} \]
2: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1} \text{ AND } [\text{HEL ne 1}]] \text{; OR} \]
3: \([\text{STATUS eq 1 and TENURE eq 1 and MG eq 1} \text{ AND } [(MCNT ne 1 to 7)]] \text{; OR} \]
4: \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1 and HEL ne 1}]] \text{; OR} \]
5: \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1}]]

SUBMR3

1: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1} \text{ AND } [\text{HEL eq 1}]] \text{; OR} \]
2: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1} \text{ AND } [\text{HEL ne 1}]] \text{; OR} \]
3: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2} \text{ AND } [\text{HEL eq 1}]] \text{; OR} \]
4: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2} \text{ AND } [\text{HEL ne 1}]] \text{; OR} \]
5: \([\text{STATUS eq 1 and TENURE eq 1 and MG eq 1} \text{ AND } [(MCNT ne 1 to 7)]] \text{; OR} \]
6: \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1 and HEL ne 1}]] \text{; OR} \]
7: \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1}]]

SUBMR4

1: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1} \text{ AND } [\text{HEL eq 1}]] \text{; OR} \]
2: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 1} \text{ AND } [\text{HEL ne 1}]] \text{; OR} \]
3: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2} \text{ AND } [\text{HEL eq 1}]] \text{; OR} \]
4: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 2} \text{ AND } [\text{HEL ne 1}]] \text{; OR} \]
5: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 3} \text{ AND } [\text{HEL eq 1}]] \text{; OR} \]
6: \([\text{STATUS eq 1 and TENURE eq 1 and MCNT eq 3} \text{ AND } [\text{HEL ne 1}]] \text{; OR} \]
7: \([\text{STATUS eq 1 and TENURE eq 1 and MG eq 1} \text{ AND } [(MCNT ne 1 to 7)]] \text{; OR} \]
8: \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1 and HEL ne 1}]] \text{; OR} \]
9: \([\text{STATUS eq 1 and TENURE eq 1} \text{ AND } [\text{MG ne 1}]]

SUBRNT

1: \([[\text{STATUS eq 2 to 3} \text{ AND } ((VACANCY eq 1 to 2) \text{ or } (VACANCY eq 4))] \text{ AND } [\text{PHAFLG eq 1}] \text{; OR} \]
2: \([[\text{STATUS eq 2 to 3} \text{ AND } ((VACANCY eq 1 to 2) \text{ or } VACANCY eq 4)] \text{ AND } [\text{PROJ eq 1}] \text{; OR} \]
3: \([[\text{STATUS eq 2 to 3}] \text{ AND } [(VACANCY eq 6 to 11)] \text{; OR} \]
4: \([[\text{STATUS eq 2 to 3}] \text{ AND } [VACANCY eq 3 or VACANCY eq 5] \text{; OR} \]
5: \([[\text{STATUS eq 2 to 3}] \text{ AND } [VACANCY eq 3 or VACANCY eq 5] \text{; OR} \]

6: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PHAFLG eq 1]; OR
7: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [REPHA eq 2 and PHAFLG ne 1]; OR
8: [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
9: [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]

SUBRNT1

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
2: [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
3: [(STATUS ne 1 to 3)]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]

SUBRNT2

1: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
2: [(STATUS ne 1 to 3)]

SWOOD

1: [(STATUS ne 1 to 3)]

TADJ

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1 and TENURE eq 1] AND [TASB ne 1 and TPBPAI ne 1 and TRADON ne 1 and TPBPIP ne 1 and TPBSOL ne 1 and TWATER ne 1 and TALWIR ne 1]; OR
3: [STATUS eq 1] AND [TENURE ne 1]; OR
4: [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TALWIR

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1] AND [TENURE ne 1]; OR
3: [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TASB

1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 1] AND [TENURE ne 1]; OR
3: [STATUS eq 4] AND [(STATUS ne 1 to 3)]
TAXPMT
1: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
2: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

TENURE
1: [(STATUS eq 2 to 3)]; OR
2: [STATUS eq 4] AND [(NOINT eq 10 to 17)]; OR
3: [STATUS eq 4] AND [(NOINT eq 30 to 38)]

TERM
1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and NEWMOR ne 2] AND [CANVAR eq 'X']; OR
2: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

TERM2
1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and NEWMR2 ne 2] AND [CANVR2 eq 'X']; OR
4: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

TIMSHR
1: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 eq 4 to 5)]; OR
2: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 ne 4 to 5)]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [(LVALUE eq 1 to 999998) or LVALUE eq .D or LVALUE eq .R]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [OWNLOT1 eq '2' or OWNLOT1 eq 'D' or OWNLOT1 eq 'R' or OWNLOT1 eq ' ']; OR
5: [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TOILET
1 : [(STATUS ne 1 to 3)]

TPARK
1 : [(STATUS eq 1 to 3)] AND [(NUNIT2 eq 1 to 3)]; OR
2 : [(STATUS ne 1 to 3)]

TPBPAI
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [TENURE ne 1]; OR
3 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TPBPIP
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [TENURE ne 1]; OR
3 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TPBSOL
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [TENURE ne 1]; OR
3 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TRADON
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [TENURE ne 1]; OR
3 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TRASH
1 : [(STATUS ne 1 to 3)]

TREP
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1 and TENURE eq 1] AND [TASB ne 1 and TPBPAI ne 1 and TRADON ne 1 and TPBPIP ne 1 and TPBSOL ne 1 and TWATER ne 1 and TALWIR ne 1]; OR
3 : [STATUS eq 1] AND [TENURE ne 1]; OR
4 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TRUCKS
1 : [(STATUS eq 2 to 3)]; OR
2 : [(STATUS ne 1 to 3)]

TUB
1 : [(STATUS ne 1 to 3)]

TWATER
1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [TENURE ne 1]; OR
3 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

TXPMT2
1 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2 : [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3 : [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [MG eq 1 and HEL eq 1]; OR
5 : [STATUS eq 1 and TENURE eq 1] AND [MG eq 1]

TXRE
1 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 1 to 2) or VACANCY eq 4]; OR
2 : [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
3 : [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
4 : [(STATUS ne 1 to 3)]; OR
5 : [STATUS eq 1] AND [TENURE eq 2]; OR
6 : [STATUS eq 1] AND [TENURE eq 3]

TYPE
1 : [STATUS eq 4] AND [(NOINT eq 30 to 38)]

UNITSF
1 : [(STATUS ne 1 to 3)]
USEGAS

1 : ([STATUS eq 2 to 3]) AND ([VACANCY eq 1 to 5]) ; OR
2 : ([STATUS eq 2 to 3]) AND ([VACANCY eq 6 to 11]) ; OR
3 : ([STATUS ne 1 to 3])

USFCAM

1 : (((STATUS eq 1 to 3) and (SAMEDU eq 1 or INCSAM eq 0 or (IISTATUS eq 1 to 3))) AND [USFCHG ne 1]) ; OR
2 : ([STATUS ne 1 to 3])

USFCHG

1 : ([STATUS eq 1 to 3]) AND [SAMEDU eq 2 or INCSAM eq 1 or IISTATUS eq 4] ; OR
2 : ([STATUS ne 1 to 3])

VACANCY

1 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 eq 4 to 5)] ; OR
2 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 ne 4 to 5)] ; OR
3 : [STATUS eq 1 and TENURE eq 1] AND [(LVALUE eq 1 to 999998) or LVALUE eq .D or LVALUE eq .R] ; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [OWNLOT1 eq '2' or OWNLOT1 eq 'D' or OWNLOT1 eq 'R' or OWNLOT1 eq ' '] ; OR
5 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]

VACVAC

1 : ([STATUS eq 2 to 3]) AND ([VACANCY eq 6 to 11]) ; OR
2 : ([STATUS eq 2 to 3]) AND [VACANCY eq 3 or VACANCY eq 5] ; OR
3 : ([STATUS ne 1 to 3]) ; OR
4 : [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1] ; OR
5 : [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1] ; OR
6 : [STATUS eq 1] AND [TENURE eq 2] ; OR
7 : [STATUS eq 1] AND [TENURE eq 3]

VALUE

1 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 eq 4 to 5)] ; OR
2 : [STATUS eq 1 and (TENURE eq 2 to 3)] AND [(NUNIT2 ne 4 to 5)] ; OR
3: [STATUS eq 1] AND [(TENURE eq 2 to 3)]; OR
4: [STATUS eq 3] AND [VACANCY eq 1 or VACANCY eq 2 or VACANCY eq 4]; OR
5: [STATUS eq 4] AND [(STATUS ne 1 to 3)]

VARM

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and (MORTIN eq 1 or MORTIN eq 2 or MORTIN eq 4 or MORTIN eq 'D' or MORTIN eq 'R') AND [VARY ne 2]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [MORTIN eq 3]; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

VARM2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
4: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

VARY

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [MORTIN eq 3]; OR
2: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
3: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

VARY2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1]; OR
2: [STATUS eq 1 and TENURE eq 1] AND [MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [MORTN2 eq 3]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MCNT ne 1 to 7]); OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

VCHER
1: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG eq 1]; OR
2: [(STATUS eq 2 to 3) and ((VACANCY eq 1 to 2) or (VACANCY eq 4))] AND [PHAFLG ne 1]; OR
3: [(STATUS eq 2 to 3)] AND [(VACANCY eq 6 to 11)]; OR
4: [(STATUS eq 2 to 3)] AND [VACANCY eq 3 or VACANCY eq 5]; OR
5: [(STATUS ne 1 to 3)]; OR
6: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [APPLY eq 2 and PHAFLG ne 1]; OR
7: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PHAFLG eq 1]; OR
8: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PRO eq 'D' and (RENEW eq 1 or RENEW eq 'R') and REPHA ne 2 and PHAFLG ne 1]; OR
9: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PRO eq 'D' and (RENEW eq 2 or RENEW eq 'D') and SUBRNT ne 1 and PHAFLG ne 1]; OR
10: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [PRO eq 1]; OR
11: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [SUBRNT eq 2 and PHAFLG ne 1]; OR
12: [STATUS eq 1 and TENURE eq 1] AND [BUYI eq 1]; OR
13: [STATUS eq 1 and TENURE eq 1] AND [BUYI ne 1]

**VOTHER**

1: [STATUS ne 1]; OR
2: [STATUS eq 1] AND [(QBUS eq '2' and QSS eq '2' and QINT eq '2' and QDIV eq '2' and QRENT eq '2' and QWELF eq '2' and QALIM eq '2' and QWKCMP eq '2' and QOTHER eq '2')]

**WALLX**

1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [BEAF78 eq 2]; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [STATUS eq 1] AND [WALREP ne 1]; OR
5: [STATUS ne 1]

**WALREP**

1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)]; OR
2: [STATUS eq 1] AND [BEAF78 eq 2]; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)]; OR
4: [STATUS ne 1]

**WASH**

1: [(STATUS ne 1 to 3)]
WATER
1 : [(STATUS ne 1 to 3)]

WATERD
1 : [(STATUS eq 1 to 3)] AND [WATERS eq 1 or WATERS eq 'D' or WATERS eq 'R'] ; OR
2 : [(STATUS ne 1 to 3)] ; OR
3 : [(STATUS eq 2 or STATUS eq 3) AND [WATERS eq 2]]

WATERS
1 : [(STATUS ne 1 to 3)]

WELDUS
1 : [(STATUS eq 1 to 3)] AND [WATER eq 7] ; OR
2 : [(STATUS ne 1 to 3)]

WELL
1 : [(STATUS eq 1 to 3)] AND [WATER eq 1 or (WATER eq 3 to 5)] ; OR
2 : [(STATUS eq 1 to 3)] AND [WATER eq 6] ; OR
3 : [(STATUS eq 1 to 3)] AND [WATER eq 7] ; OR
4 : [(STATUS ne 1 to 3)]

WFPREP
1 : [(STATUS eq 1 to 3)] AND [EWATER ne 1] ; OR
2 : [STATUS eq 4]

WFUEL
1 : [(STATUS eq 1 to 3)] AND [HOTPIP ne 1] ; OR
2 : [(STATUS ne 1 to 3)]

WHNGET
1 : [(STATUS eq 2 to 3)] ; OR
2 : [STATUS eq 1] AND [TENURE ne 1] ; OR
3 : [STATUS eq 4] AND [(STATUS ne 1 to 3)]
WHYCD1

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [(IFCOLD ne 1 to 2)]; OR
3 : [STATUS eq 1] AND [FREEZE ne 1]; OR
4 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
5 : [STATUS eq 1] AND [OTHCLD ne 1 and IFCOLD ne 2]; OR
6 : [STATUS eq 4]

WHYCD2

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [(IFCOLD ne 1 to 2)]; OR
3 : [STATUS eq 1] AND [FREEZE ne 1]; OR
4 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
5 : [STATUS eq 1] AND [OTHCLD ne 1 and IFCOLD ne 2]; OR
6 : [STATUS eq 4]

WHYCD3

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [(IFCOLD ne 1 to 2)]; OR
3 : [STATUS eq 1] AND [FREEZE ne 1]; OR
4 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
5 : [STATUS eq 1] AND [OTHCLD ne 1 and IFCOLD ne 2]; OR
6 : [STATUS eq 4]

WHYCD4

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [(IFCOLD ne 1 to 2)]; OR
3 : [STATUS eq 1] AND [FREEZE ne 1]; OR
4 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
5 : [STATUS eq 1] AND [OTHCLD ne 1 and IFCOLD ne 2]; OR
6 : [STATUS eq 4]

WHYCD5

1 : [(STATUS eq 2 to 3)]; OR
2 : [STATUS eq 1] AND [(IFCOLD ne 1 to 2)]; OR
3 : [STATUS eq 1] AND [FREEZE ne 1]; OR
4 : [STATUS eq 1] AND [HEQUIP eq 13 or HEQUIP eq .]; OR
5: [STATUS eq 1] AND [OTHCLD ne 1 and IFCOLD ne 2] ; OR
6: [STATUS eq 4]

WINREP

1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)] ; OR
2: [STATUS eq 1] AND [BEAF78 eq 2] ; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4: [STATUS ne 1]

WINX

1: [STATUS eq 1] AND [(LAT70S eq 8 to 9)] ; OR
2: [STATUS eq 1] AND [BEAF78 eq 2] ; OR
3: [STATUS eq 1] AND [BUILT ge 1980 and BUILT le (&SURVYEAR + 1)] ; OR
4: [STATUS eq 1] AND [WINREP ne 1] ; OR
5: [STATUS ne 1]

WLEAK

1: [(STATUS eq 2 to 3)] ; OR
2: [STATUS eq 1] AND [LEAK ne 1] ; OR
3: [STATUS eq 4]

WTRHRL

1: [(STATUS eq 2 to 3)] ; OR
2: [STATUS eq 1] AND [ILEAK ne 1] ; OR
3: [STATUS eq 4]

YRMOR

1: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1 and MATBUY eq 1] AND [NEWMOR ne 2] ; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT ge 1] AND [NEWMOR eq 2] ; OR
3: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)] ; OR
4: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1] ; OR
5: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

YRMOR2

1: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL eq 1] ; OR
2: [STATUS eq 1 and TENURE eq 1 and MCNT eq 1] AND [HEL ne 1]; OR
3: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2 and MATBY2 eq 1] AND [NEWMR2 ne 2]
   ; OR
4: [STATUS eq 1 and TENURE eq 1 and MCNT ge 2] AND [NEWMR2 eq 2]; OR
5: [STATUS eq 1 and TENURE eq 1 and MG eq 1] AND [(MCNT ne 1 to 7)]; OR
6: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1 and HEL ne 1]; OR
7: [STATUS eq 1 and TENURE eq 1] AND [MG ne 1]

YRRND

1: [[STATUS eq 2 to 3]] AND [[VACANCY ne 8 to 11]]; OR
2: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [[NUNIT2 eq 4 to 5]]; OR
3: [STATUS eq 1 and (TENURE eq 2 to 3)] AND [[NUNIT2 ne 4 to 5]]; OR
4: [STATUS eq 1 and TENURE eq 1] AND [[LVALUE eq 1 to 999998] or LVALUE eq .D or LVALUE eq .R]; OR
5: [STATUS eq 1 and TENURE eq 1] AND [OWNLOT1 eq '2' or OWNLOT1 eq 'D' or OWNLOT1 eq 'R' or OWNLOT1 eq '']; OR
6: [STATUS eq 4] AND [[STATUS ne 1 to 3]]

ZINCH

1: [STATUS ne 1]

ZINCN

1: [STATUS ne 1]; OR
2: [STATUS eq 1] AND [ZINCH eq 1]
### Appendix F: Variable Module Listing

<p>| VN:ACCESS    | Unit       | houshld | newhouse |
| VN:ACCESSB   | Unit       |         |          |
| VN:ACCESSC   | Neighborhood |         |          |
| VN:ADDTN2    | Housing Cost |         | mortg    |
| VN:ADDTNS    | Housing Cost |         | mortg    |
| VN:AFUEL     | Utilities   | houshld | newhouse |
| VN:AFUR      | Utilities   | houshld | newhouse |
| VN:AGE       | Household Composition | person |          |
| VN:AGERES    | Unit       |         | newhouse |
| VN:AIR       | Unit       | houshld | newhouse |
| VN:AIRSYS    | Unit       | houshld | newhouse |
| VN:ALMV      | Recent Movers | houshld | newhouse |
| VN:AMMORT    | Housing Cost | mortg  | mortg    |
| VN:AMMRT2    | Housing Cost | mortg  | mortg    |
| VN:AMMRT3    | Housing Cost | mortg  | mortg    |
| VN:AMMRT4    | Housing Cost | mortg  | mortg    |
| VN:AMPM      | Commuting   | jtw    | jtw      |
| VN:AMRTZ     | Housing Cost | mortg  | mortg    |
| VN:AMRTZ2    | Housing Cost | mortg  | mortg    |
| VN:AMTE      | Utilities   | houshld | newhouse |
| VN:AMTF      | Utilities   | houshld | newhouse |
| VN:AMTG      | Utilities   | houshld | newhouse |
| VN:AMTI      | Housing Cost | houshld | newhouse |
| VN:AMTM      | Housing Cost | mortg  | mortg    |
| VN:AMTM2     | Housing Cost | mortg  | mortg    |
| VN:AMTO      | Utilities   | houshld | newhouse |
| VN:AMTT      | Housing Cost | houshld | newhouse |
| VN:AMTW      | Housing Cost | houshld | newhouse |
| VN:AMTX      | Housing Cost | toppuf | newhouse |
| VN:ANCHOR    | Mobile Homes | houshld | newhouse |
| VN:ANYCAR    | Unit       | houshld |          |
| VN:ANYFNT    | Unit       | houshld |          |
| VN:ANYRUG    | Unit       | houshld |          |
| VN:APPLY     | Household Composition | houshld | newhouse |
| VN:APTAD     | Upgrade and Remodeling | houshld | newhouse |</p>
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October 10, 2006 Appendix F: Variable Module Listing 1193
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# Appendix G: Version History

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Appendix H: Merging Files Examples

Note: This information is only relevant for users not using the “flat-file” version.

The standard distribution of the AHS is as a single SAS transport data file which contains multiple component files. HUD also makes the data available in this format as an ASCII or text file.

Many users of the AHS use the “flat file” version of the file, which is the distribution from the Census Bureau which the user then runs the “file flattening” program on. That SAS program converts the data into a single file format with each observation representing one household. This flat file was designed to be very similar to the AHS data structure before 1997.

This section describes the data structure for the AHS when using the data in its “native” distribution format - not converted to a flat file. There are also some brief examples of how certain data can be merged together for common tasks. These examples only provide a short summary of the logic behind merging the files together and not the exact code. In all examples, the shaded boxes are the files used in merging.

Example 1: Count of number of occupied units

Number of units can be estimated by summing the WEIGHT variable for all observations which have STATUS=1. This requires only the NEWHOUSE file, and no other files.

![Diagram of data structure]

Example 1

PERSON

1:M

PKEY: CONTROL

NEWHOUSE

PKEY: CONTROL

OWNER

MORTG

RM0V

HOMIMP

JTW

RATIOV

Manager & Owner of rental units (not in metro)

Mortgages

Recent mover groups

Home improvement

Journey to work (not in metro)

High burden unit (not in national)
Example 2: Count of number of households with children under 6

To estimate the number of households with children under 6, first use the PERSON file and limit the data based on the AGE variable to less than 6. Then restrict the data to only one case per household – this prevents double counting households with multiple children under six. Then match the remaining records to the NEWHOUSE file. For those records that matched, sum the weights to come up with the total estimate of number of households with children under 6.
**Example 3**: Commuting patterns of people who moved recently

First use the RMOV file to limit the sample to households who have moved recently. Using that subsample, match to the NEWHOUSE, only keeping cases in both datasets. As a second step, merge PERSON and JTW by the CONTROL and PLINE data. Then merge the “recent movers” from the first step with the combined PERSON and JTW from the second step, only keeping the housing units that were present in the first file. The result will be a dataset of commuting information for households who have moved recently.

![Example 3 Diagram](image_url)
Example 4: Count of number of units with HELOCs

Using the MORTG file, limit the data to households with Home Equity Line of Credit (HELOC). Merge that subsample with the NEWHOUSE file, only keeping the households from the subsample. Then sum the WEIGHT variable to get the estimate of the total number of units with HELOCs.
Example 5: Characteristics of mortgages for recent movers

First use the RMOV file to limit to households who have moved recently. Then merge this subsample to the NEWHOUSE, only keeping observations from the subsample. Finally merge on the MTG data, again only keeping observations from the subsample.
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