Survey of Construction Microdata Files

- Include single-family houses started, completed, and/or sold in the U.S. each year
- Also include houses authorized but not started, under construction, or for sale at the end of the year
- Files contain more than 50 physical and financial characteristics
- Available geography: Census Division
- Annual files are available for 1999 through 2019  *(released on the first workday of June for the previous year)*
- More information about the Survey of Construction is available online at [www.census.gov/starts](http://www.census.gov/starts).
- Collection of these data is partially funded by the Department of Housing and Urban Development (HUD).

Files are available in Excel format at [www.census.gov/construction/chars/microdata.html](http://www.census.gov/construction/chars/microdata.html)
To order files in SAS format, call (301) 763-5160
General Information

Annual microdata files contain all Survey of Construction (SOC) sampled single-family houses started, sold, and/or completed during the year. Houses authorized by building permits but not started at the end of the year, under construction at the end of the year, or for sale at the end of the year are also included. Houses for which construction was abandoned after permit issuance or after start are not included.

SOC is a national sample survey of new houses selected from building permits and a canvassing of areas not requiring permits. Builders or owners of the houses selected are interviewed for information including start, sale, and completion dates, and more than 40 physical and financial characteristics of the houses. The characteristics are collected throughout the construction process, thus the highest response rate is associated with completed homes. The Department of Housing and Urban Development (HUD) funds the collection of these characteristics and allows the Census Bureau to provide the data to the public free of charge. The overall national sampling rate is about 1 in 50 new houses, although this varies considerably by individual survey location based on activity.

Available geography on the files include the nine Census Divisions (DIV). Files prior to 2017 also include whether a house is inside or outside a metropolitan area (METRO).

All new houses are classified into one of four categories (CAT): (1) houses built for sale (whether sold or not) where the house and land are sold as a package; (2) contractor-built houses where the owner of the land hires a general contractor to build the house; (3) owner-built houses where the owner of the land builds the house him/herself or acts as the general contractor; and (4) houses built for rent. Only houses “built for sale” can have a sale date.

Tabulating records on the files by characteristics for a given year (for example, all houses completed in 2015) can be done by using one of the available dates (start, sale, or completion), which appear in year/month (YYYYMM) format.

The files also allow tabulations of the number of units authorized but not started, under construction (started but not completed), or for sale (built for sale but not sold) at the end of the year.

Each record contains a sampling weight (WEIGHT) that indicates how many houses a sampled house represents. Tabulated totals from the files will not exactly match published estimates, primarily because the files were produced at different times. The files do not provide accurate tabulations of total units authorized by permits for a number of reasons.

The files contain no information that would identify the specific addresses or builders of the sampled houses. In addition, certain variables such as sales price (SLPR) and square footage (SQFS) have been "top and bottom-coded" to further remove the possibility of disclosure. Cases that have been modified as such are identified with "flags". The relationship of modified variables with other variables will be altered.

Please refer to www.census.gov/starts for a full description of SOC including a discussion of the reliability of the data and measures of sampling error.

Information on each variable contained in the files is shown in the following table.
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<th>Item</th>
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<th>Remarks</th>
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</thead>
</table>
| 1    | Central Air-conditioning (ACS)| Will this house have central air conditioning?  
1 = Yes  
2 = No  
0 = Not reported | None.                                                                                         |
| 2    | Age-Restricted (AGER)         | Will this house be in a development that is age-restricted?  
1 = Yes  
2 = No  
0 = Not reported | Age-restricted developments are intended for occupancy by persons of a specific age group, usually 55 and older or 62 and older.  
Not available in files for years prior to 2009. |
| 3    | Community Association (ASSOC)| Will this house be part of a community or homeowner’s association?  
1 = Yes  
2 = No  
0 = Not reported | Community or homeowner’s associations are formal legal entities created to maintain common areas of a development and to enforce private deed restrictions; these organizations are usually created when the development is built, and membership is mandatory.  
Not available in files for years prior to 2009. |
| 4    | Foundation (BASE)             | What type of foundation will this house have?  
01 = Full or partial basement  
02 = Crawl space  
03 = Slab  
04 = Other  
00 = Not reported | “Other” includes raised supports, earthen, and other foundation types. |
| 5    | Category Code (CAT)           | Is this house being built –  
1 = Built for sale/sold  
2 = Contractor-built  
3 = Owner-built  
4 = Built for rent | Beginning with the file for 2017, houses that are built for rent will be included in the “1-Built for Sale/Sold” category rather than being shown separately. |
| 6    | Closing Costs in Sales Price (CLOS) | Are closing costs included in the sale price?  
1 = Yes  
2 = No  
0 = Not applicable or not reported | Applies only to houses sold.  
Not available in files for years after 2007. |
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</thead>
</table>
| 7    | Condominium (CON)     | Will this house be part of a condominium project?  
1 = Yes  
2 = No  
0 = Not applicable or not reported | Applies only to houses built for sale/sold.                                                  |
| 8    | Deck (DECK)           | Will this house have a deck?  
1 = Yes  
2 = No  
0 = Not reported                                                                 | None.                                                                 |
| 9    | Design of House (DET) | Will this house be –  
1 = Detached  
2 = Attached  
0 = Not reported                                                                 | None.                                                                 |
| 10   | Division (DIV)        | In which Census division is this house located?  
1 = New England  
2 = Middle Atlantic  
3 = East North Central  
4 = West North Central  
5 = South Atlantic  
6 = East South Central  
7 = West South Central  
8 = Mountain  
9 = Pacific | Order of houses within each division was randomly scrambled.                                 |
| 11   | Type of Financing (FINC) | What type of financing was or will be arranged?  
01 = Conventional  
02 = FHA  
03 = VA  
04 = Cash  
05 = Other financing  
00 = Not reported | Applies only to houses sold, contractor-built houses and owner-built houses.  
“Other” includes Rural Housing Service, cash, Habitat for Humanity, loan from an individual, State or local government mortgage-backed bonds and other types of financing. |
| 12   | Finished Basement (FNBS) | Will part or all of this basement be finished?  
1 = Yes  
2 = No  
0 = Not applicable or not reported | Applies only to houses reporting a full or partial basement. |
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| 13   | Two-Story Foyer (FOYER)    | Will this house have a two-story foyer?  
1 = Yes  
2 = No  
0 = Not reported  
A two-story or "open" foyer means that the entranceway inside the front door of the house has a ceiling that is at the level of the second-floor ceiling.  
Not available in files for years prior to 2009. |                                                                                              |
| 14   | Framing Material (FRAME)   | What primary material is being used for the framing of this house? 
1 = Wood  
2 = Steel  
3 = Concrete/masonry other than concrete forms  
4 = Insulated concrete forms (or SIP)  
0 = Not reported  
Structural framing refers to the studs used to frame exterior walls.  
Not available in files for years prior to 2009. |                                                                                              |
| 15   | Parking Facility (GAR)     | What type of parking will this house have?  
1 = 1 car garage  
2 = 2 car garage  
3 = 3 or more car garage  
4 = Other  
0 = Not reported  
"Other" includes carport, other off-street parking (including a driveway with no garage or carport), and other parking facilities. |                                                                                              |
| 16   | Primary Space Heating System (HEAT) | Which heating system will be used most in this house? 
01 = Air-source or ground-source heat pump  
02 = Forced-air furnace without heat pump  
03 = Hot water or steam system  
04 = Other or no heat  
00 = Not reported 
"Other" includes electric baseboard or wall panels, fireplace with insert, stove that burns coal or wood, non-portable room heater that burns liquid fuel and is connected to a flue, vent, or chimney, passive solar system, other heat sources, and no heat. |                                                                                              |
| 17   | Second Space Heating System (HEAT2) | Which, if any, secondary heating system will be used in this house? 
01 = Air-source or ground-source heat pump  
02 = Forced-air furnace without heat pump  
03 = Hot water or steam system  
04 = Other  
00 = Not reported or no second heating system  
"Other" includes electric baseboard or wall panels, fireplace with insert, stove that burns coal or wood, non-portable room heater that burns liquid fuel and is connected to a flue, vent, or chimney, passive solar system, and other heat sources.  
Not available in files for years prior to 2009. |                                                                                              |
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<tr>
<td>18</td>
<td>Laundry Location (LNDR)</td>
<td>Where will the washer and dryer connections be located in this house?</td>
<td>Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 = In the basement&lt;br&gt;2 = On the first floor&lt;br&gt;3 = On the second or higher floor&lt;br&gt;4 = In the garage or carport&lt;br&gt;5 = No connection planned&lt;br&gt;6 = Multiple locations&lt;br&gt;0 = Not reported</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Metropolitan Area (METRO)</td>
<td>Will this house be located –&lt;br&gt;1 = In a Metropolitan Statistical Area (MSA)&lt;br&gt;2 = Not in an MSA</td>
<td>Discontinued in 2017.</td>
</tr>
<tr>
<td>20</td>
<td>Construction Method (MFGS)</td>
<td>Will this house be –&lt;br&gt;1 = Modular&lt;br&gt;2 = Panelized / Precut&lt;br&gt;3 = Site-built&lt;br&gt;0 = Not reported</td>
<td>None.</td>
</tr>
<tr>
<td>21</td>
<td>Patio (PATI)</td>
<td>Will this house have a patio?&lt;br&gt;1 = Yes&lt;br&gt;2 = No&lt;br&gt;0 = Not reported</td>
<td>None.</td>
</tr>
<tr>
<td>22</td>
<td>Porch (PRCH)</td>
<td>Will this house have a porch?&lt;br&gt;1 = Yes&lt;br&gt;2 = No&lt;br&gt;0 = Not reported</td>
<td>None.</td>
</tr>
<tr>
<td>23</td>
<td>Sewage Disposal System (SEWER)</td>
<td>What sewage disposal system will be used for this house?&lt;br&gt;1 = Public sewers (inc. community or shared)&lt;br&gt;2 = Individual septic system&lt;br&gt;3 = Other</td>
<td>Not available in files for years prior to 2009.</td>
</tr>
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</tbody>
</table>
| 24   | Stories (STOR)                 | **How many stories, not including the basement, will be in this house?**  
1 = 1 story  
2 = 2 stories (including 1½ stories)  
3 = 3 stories or more  
0 = Not reported | Categories were updated in 2016. The top category has been expanded from '2 stories or more' to '3 stories or more'.  
For 2014-2015 files:  
2 = 2 stories or more (inc. split-level)  
Prior to the 2014 file:  
2 = 2 stories or more  
3 = Split-level |
| 25   | Primary Exterior Wall Material (WAL1) | **Which wall material will cover most of the house when it is completed?**  
01 = Wood or wood products  
02 = Brick or brick veneer  
03 = Aluminum siding (not covered with vinyl)  
04 = Stucco  
05 = Vinyl siding (inc. vinyl-covered aluminum)  
06 = Concrete block (not including stucco)  
07 = Stone, rock, or other stone materials  
08 = Fiber cement siding  
(such as Hardiplank or Hardiboard)  
09 = Other  
00 = Not reported | “Other” includes poured concrete, steel siding, and other materials.  
Beginning with the file for 2008, Aluminum siding is also included with “09-Other” rather than being shown separately. |
| 26   | Secondary Exterior Wall Material (WAL2) | **Which, if any, secondary wall material will be used on this house?**  
01 = Wood or wood products  
02 = Brick or brick veneer  
03 = Aluminum siding (not covered with vinyl)  
04 = Stucco  
05 = Vinyl siding (inc. vinyl-covered aluminum)  
06 = Concrete block (not including stucco)  
07 = Stone, rock, or other stone materials  
08 = Fiber cement siding  
(such as Hardiplank or Hardiboard)  
09 = Other  
00 = Not reported or no secondary wall material | Applies only to houses reporting “yes” to having a secondary exterior wall material.  
“Other” includes poured concrete, steel siding, and other materials.  
Beginning with the file for 2008, Aluminum siding is also included with “09-Other” rather than being shown separately.  
In files for years prior to 2009, WAL2 is “10” for houses with no secondary wall material (those with WALS=”2”). Beginning with the file for 2009, houses with WALS=”2” have WAL2=”00”. |
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| 27   | Secondary Exterior Wall Material (WALS) | Will there be a secondary wall material on this house?  
1 = Yes  
2 = No  
0 = Not reported | In files for years prior to 2009, WAL2 is “10” for houses with no secondary wall material (those with WALS=“2”). Beginning with the file for 2009, houses with WALS=“2” have WAL2=“00”. |
| 28   | Water Supply Source (WATER)         | What water supply source will be used for this house?  
1 = Public water (inc. community or shared well)  
2 = Individual well  
3 = Other  
0 = Not reported | Not available in files for years prior to 2009. |
| 29   | Square Foot Area of the Lot (AREA)  | What is the size of the individual lot on which the house is being built?  
0 = Not reported | For all houses, values less than 2,000 were changed to 2,000. For houses built for sale/sold and houses built for rent, all values greater than 87,120 were changed to 87,120. For houses that are contractor-built and owner-built, all values greater than 435,600 were changed to 435,600. |
| 30   | Bedrooms (BEDR)                     | How many bedrooms will be in this house?  
2 = 2 bedrooms or less  
3 = 3 bedrooms  
4 = 4 bedrooms  
5 = 5 bedrooms or more  
0 = Not reported | None. |
| 31   | Completion Date (COMP)              | When was this house completed or occupied?  
0 = Not completed | YYYYMM = Year/month, such as 200901 |
| 32   | Square Foot Area of Finished Basement (FNSQ) | What will be the square foot area of the finished part of the basement?  
0 = Not applicable or not reported | Applies only to houses with a full or partial finished basement and reporting square foot areas of house (unchanged) and finished basement. Values not allowed to exceed 50% or be less than 5% of area of house. Values outside those limits changed to those limits. |
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</thead>
<tbody>
<tr>
<td>33</td>
<td>Final Square Foot Area of Finished Basement at Completion (FFNSQ)</td>
<td>Final square foot area of finished basement reported at the time the house was completed; in square feet.</td>
<td>Applies only to houses with a full or partial finished basement and reporting square foot areas of house (unchanged) and finished basement. Values not allowed to exceed 50% or be less than 5% of area of house. Values outside those limits changed to those limits. Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>34</td>
<td>Fireplace (FPLS)</td>
<td>How many fireplaces will be in this house? 0 = None 1 = 1 fireplace 2 = 2 or more fireplaces 9 = Not reported</td>
<td>None.</td>
</tr>
<tr>
<td>35</td>
<td>Full Bathrooms (FULB)</td>
<td>How many full bathrooms will be in this house? 1 = 1 bathroom or less 2 = 2 bathrooms 3 = 3 bathrooms 4 = 4 bathrooms or more 9 = Not reported</td>
<td>None.</td>
</tr>
<tr>
<td>36</td>
<td>Half Bathrooms (HAFB)</td>
<td>How many half bathrooms will be in this house? 0 = 0 half bathrooms 1 = 1 half bathrooms 2 = 2 half bathrooms or more 9 = Not reported</td>
<td>None.</td>
</tr>
<tr>
<td>37</td>
<td>Lot Value (LOTV)</td>
<td>What is the current market value of the improved lot? (nearest $100) 0 = Not applicable or not reported</td>
<td>Applies only to houses sold with reported sales prices (unchanged) and lot values. Top and bottom 3% of all ratios of lot value to sales price by division were determined. Lot values with ratios outside those limits were changed such that recalculated ratios equal the limits.</td>
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<tr>
<td>38</td>
<td>Permit value (PVALU)</td>
<td>What is the estimated value of the house as shown on the building permit? (nearest $100)</td>
<td>Within each division, top 3% and bottom 1% of all reported values were changed to those limits. Unchanged values less than $15,000 were changed to $15,000. Not available in files for years prior to 2009.</td>
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<td></td>
<td></td>
<td>0 = Not applicable or not reported</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Sale Date (SALE)</td>
<td>When was a deposit taken or a sales agreement signed?</td>
<td>YYYYMM = Year/month, such as 200901</td>
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<td>0 = Not sold</td>
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</tr>
<tr>
<td>40</td>
<td>Final Square Foot Area of House at Completion (FSQFS)</td>
<td>Final square foot area reported at the time the house was completed; in square feet.</td>
<td>Top and bottom 1% of all reported values have been changed to values at those limits. Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>41</td>
<td>Start Date (STRT)</td>
<td>When did excavation start for the footings or foundation of this house?</td>
<td>YYYYMM = Year/month, such as 200901</td>
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<td>0 = Not started</td>
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<tr>
<td>42</td>
<td>Contract Price (CONPR)</td>
<td>What is the contract price for this house? (nearest $100)</td>
<td>Applies only to contractor-built houses. Within each division, top 3% and bottom 1% of all reported values were changed to those limits. Unchanged values less than $15,000 were changed to $15,000.</td>
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<td></td>
<td></td>
<td>0 = Not applicable or not reported</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>Sales Price (SLPR)</td>
<td>What is the sales price for this house? (nearest $100)</td>
<td>Sales price at the time the first sales contract was signed or deposit made; includes the price of the improved lot.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 = Not applicable or not reported</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Square Foot Area of House (SQFS)</td>
<td>What will be the square foot area of completely finished floor space, including finished areas of the basement and attic?</td>
<td>Top and bottom 1% of all reported values have been changed to values at those limits.</td>
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<tr>
<td></td>
<td></td>
<td>0 = Not reported</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Weight (WEIGHT)</td>
<td>Number of housing units represented by this sample case.</td>
<td>None.</td>
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<tr>
<td>46</td>
<td>Primary Space Heating Fuel (FUEL)</td>
<td>What fuel will be used most for heating this house? &lt;br&gt;01 = Electricity &lt;br&gt;02 = Natural gas &lt;br&gt;03 = Bottled or liquefied petroleum gas (inc. propane) &lt;br&gt;04 = Oil (inc. heating oil or kerosene) &lt;br&gt;05 = Other or no heat &lt;br&gt;00 = Not reported</td>
<td>“Other” includes wood, pellets, solar, coal, and other fuels.  &lt;br&gt;In the files for 2008 and 2009, Bottled gas is included with “02-Natural gas” rather than being shown separately.</td>
</tr>
<tr>
<td>47</td>
<td>Second Space Heating Fuel (FUEL2)</td>
<td>What, if any, secondary fuel will be used for heating this house? &lt;br&gt;01 = Electricity &lt;br&gt;02 = Natural gas &lt;br&gt;03 = Bottled or liquefied petroleum gas (inc. propane) &lt;br&gt;04 = Oil (inc. heating oil or kerosene) &lt;br&gt;05 = Other &lt;br&gt;00 = Not reported or no second heating system</td>
<td>“Other” includes wood, pellets, solar, coal, and other fuels.  &lt;br&gt;Not available in files for years prior to 2009.  &lt;br&gt;In the file for 2009, Bottled gas is included with “02-Natural gas” rather than being shown separately.</td>
</tr>
<tr>
<td>48</td>
<td>Final Contract Price at Completion (FCONPR)</td>
<td>Final contract price reported at the time the house was completed; whole dollars to nearest $100.  &lt;br&gt;0 = Not applicable or not reported</td>
<td>Applies only to contractor-built houses. Within each division, top 3% and bottom 1% of all reported values were changed to those limits. Unchanged values less than $15,000 were changed to $15,000.  &lt;br&gt;Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>49</td>
<td>Final Sales Price at Completion (FSLPR)</td>
<td>Final sales price reported at the time the house was completed; whole dollars to nearest $100.  &lt;br&gt;0 = Not applicable or not reported</td>
<td>Applies only to houses sold. Within each division, top 3% and bottom 1% of all reported values were changed to those limits. Unchanged values less than $15,000 were changed to $15,000.  &lt;br&gt;Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>50</td>
<td>Square Foot Area of the Lot Flag (AREA_F)</td>
<td>1 = Lot size has been changed &lt;br&gt;0 = No changing done</td>
<td>Relationships of changed values to other values will be different.</td>
</tr>
<tr>
<td>51</td>
<td>Square Foot Area of Finished Basement Flag (FNSQ_F)</td>
<td>1 = Final square foot area of finished basement at time of completion has been changed &lt;br&gt;0 = No changing done</td>
<td>Relationships of changed values to other values will be different.</td>
</tr>
<tr>
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<td>Description / Possible Values</td>
<td>Remarks</td>
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<tr>
<td>52</td>
<td>Final Square Foot Area of Finished Basement at Completion Flag (FFNSQ_F)</td>
<td>1 = Final square foot area of finished basement at time of completion has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different. Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>53</td>
<td>Sales Price Flag (SLPR_F)</td>
<td>1 = Sales price has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different.</td>
</tr>
<tr>
<td>54</td>
<td>Final Sales Price Flag (FSLPR_F)</td>
<td>1 = Final sales price reported at the time the house was completed has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different. Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>55</td>
<td>Contract Price Flag (CONPR_F)</td>
<td>1 = Contract price has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different.</td>
</tr>
<tr>
<td>56</td>
<td>Final Contract Price Flag (FCONPR_F)</td>
<td>1 = Final contract price reported at the time the house was completed has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different. Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>57</td>
<td>Lot Value Flag (LOTV_F)</td>
<td>1 = Lot value has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different.</td>
</tr>
<tr>
<td>58</td>
<td>Square Foot Area of House Flag (SQFS_F)</td>
<td>1 = Square foot area has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different.</td>
</tr>
<tr>
<td>59</td>
<td>Final Square Foot Area of House at Completion Flag (FSQFS_F)</td>
<td>1 = Final square foot area of house at time of completion has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different. Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>60</td>
<td>Permit Value Flag (PVALU_F)</td>
<td>1 = Permit value has been changed 0 = No changing done</td>
<td>Relationships of changed values to other values will be different. Not available in files for years prior to 2009.</td>
</tr>
<tr>
<td>Item</td>
<td>Variable Name</td>
<td>Description / Possible Values</td>
<td>Remarks</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 61   | Permit Authorization Date (AUTH)       | When was this house authorized by a building permit?                                                                                                                                                                                                                                   | YYYYYMM = Year/month, such as 200901

Usually the month the building permit for the house was issued, but can vary based on the availability of permits for sampling for SOC. Set to the start date if the house is in an area where permits are not required or if the start date was before the issuance of the final building permit.