AHS Table Creator Help

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Create a simple table back to top

- NOTE: You can create a table by selecting an Area, Year, and a Table, while using the default selections for all other sections of the form.
- To create a table that shows plumbing characteristics at the national level of geography from the 2021 AHS:
 - $\circ~$ Select "National" from the Area selection box.
 - $\circ~$ Select "2021" from the Year selection box.
 - $\circ~$ Select "Plumbing, Water, and Sewage Disposal" from the Table selection box.
 - $\circ~$ Press the "Get Table" button at the bottom of the form.
 - $_{\odot}~$ This creates the table below. NOTE: The table below is just an excerpt for demonstration purposes. The actual table has many more rows.

Table Criteria:		₽	American	Housing Survey (AHS) Table Creator	C
National	•	4.0			
Select Year: 2021	•	2021 Nati	onal — Plumbing I	Nater and Sewage Disposal — All Occupied Units	
Select a Table: Plumbing, Water, and	d Sewa 👻	Fistimates and Maroins of Error in thousands of housing units except as indicate	Tenure Filter: A V: d. Medians are rounded to four s	Tenures • Geography Filter: All Geographies Table 1: None. Variable 2: None anificant digits as part of disclosure avoidance protocol. Margin of Error is calculated at the 90% confidence interval. Weighting consistent with	
Column Variables: Variable 1:		Centus 2200. Blank cells represent zero; Z rounds to zero; ¹¹ Represents not appl Subject Definitions	licable or no cases in sample; S re	giminal u gipt ar part of alcount and and protocol magin of the standard at the post comparts method regiming conductive ma- presents estimates that did not meet publication standards or withheld to avoid disclosure.]	
None	Ψ.	Characteristics	Estimate		_
Variable 2: None	•	Total	128,504		Column
		Primary Source of Water			
Filters: Tenure Filter:		Public or private system	114,454		L
All	*	Individual well	13,688		L
Geography Filter:	~				L
View: Estimates		Type of Sewage System			L
		Public sewer	108,574		
Get Table	Reset	Septic tank or cesspool	19,489		
		Pump used to distribute wastewater	633		
View the AHS Table Cre	eator tutorial	Elevated above natural soil surface	291		
here.		Applied treated wastewater	66		Ţ
		Other	128		- C

Create a table with column variables back to top

- NOTE: If you previously created the first example table, then use the "Reset" button in the tool to reset the form. The steps below presume you have not created the previous example table.
- To create a table that shows plumbing characteristics at the national level of geography by tenure from the 2021 AHS:
 - Select "National" from the Area selection box.
 - Select "2021" from the Year selection box.
 - Select "Plumbing, Water, and Sewage Disposal" from Table selection box.
 - Under Column Variables, select "Tenure" (under the General heading) from the Variable 1 selection box.
 - Press the "Get Table" button at the bottom of the form.
 - This creates the table below. NOTE: The table below is just an excerpt for demonstration purposes. The actual table has many more rows.
 - NOTE: The column variable you selected appears below the table title (circled in red in the example below).

Table Criteria:		₽	American	Housing Survey (AHS)	Table Creator		٦
Select area:							_
National	*	4 ()					
Select Year:							
2021	-	20	21 National — Plumbing, V	Water, and Sewage	e Disposal — All Oo	cupied Units	
Select a Table:			Tenure Filter:	Tenures • Geography Filte	r: All Geographies		
Plumbing, Water, and Sev	wa 👻			nable 1. lendre, anable 2. Is	Volle		
Column Variables:		[Estimates and Margins of Error in thousands of housing units, excep Census 2020. Blank cells represent zero; Z rounds to zero; ¹¹ Repres Subject Definitions	pt as indicated. Medians are rounded to four s sents not applicable or no cases in sample; S re	ignificant digits as part of disclo presents estimates that did not	sure avoidance protocol. Margin meet publication standards or w	of Error is calculated at the 90% confidence interval. Weighting consistent with ithheld to avoid disclosure.]	
Variable 1:			-				
Tenure	*		lenure				
Variable 2:			Total	Owner	Renter		0
None	-	Characteristics	Estimate	Estimate	Estimate		umns
		Total	128.504	82.513	45,991		A
F 114							
Filters:		Deimen Course of Mater					
Tenure Filter:		Primary Source of Water					
All	Ť						
Geography Filter:		Public or private system	114,454	70,286	44,168		
All	-	Individual well	13,688	11,979	1,709		
		Other	361	248	113		
View:							
Louinateo	*	Type of Source System					
		Type of Sewage System					
Get Table	Reset						
		Public sewer	108,574	64,892	43,682		
		Septic tank or cesspool	19,489	17,387	2,102		
View the AHS Table Creator	r tutorial	Standard septic tank and subsurface leach field	18,371	16,369	2,002		
nere.		Pump used to distribute wastewater	633	594	39		
			201	274			T

Create a table that displays nested column variables back to top

To create a table that nests the previously created Plumbing, Water, and Sewage Disposal by Tenure and by Hispanic origin:

- NOTE: If you previously created either of the other example tables, then use the "Reset" button in the tool to reset the form. The steps below presume you have not created the previous example table.
- Select "National" from the Area selection box.
- Select "2021" from the Year selection box.
- Select "Plumbing, Water, and Sewage Disposal" from the Table selection box.
- Under Column Variables, select "Tenure" (under the General heading) from the Variable 1 selection box.
- Under Column Variables, select "Hispanic Origin of Householder" (under the Demographics heading) from the Variable 2 selection box.
- Press the "Get Table" button at the bottom of the form.
- This creates the table below -- notice that the counts of "Hispanic Origin of Householder" are nested within each value of "Tenure." NOTE: The table below is just an excerpt for demonstration purposes. The actual table has many more columns and rows.
- NOTE: The column variable you selected appears below the table title (circled in red in the example below).

Table Criteria:		≡	Americar	Housing Survey (AHS)	Table Creator			E
Select area:								
National	Ŧ	± ()						
Select Year:								
2021	-	2021	National — Plumbing, '	Water, and Sewage	e Disposal — All Oo	cupied Units		
Select a Table:			Tenure Filter: A	Il Tenures • Geography Filte	r: All Geographies			
Plumbing, Water, and Se	ewa 👻		variable 1: len	ure variable 2: Hispanic Origi	n of Householder			
Column Variables:		[Estimates and Margins of Error in thousands of housing units, except as in Census 2020. Blank cells represent zero; Z rounds to zero; ¹¹ Represents n <u>Subject Definitions</u>	ndicated. Medians are rounded to four s ot applicable or no cases in sample; S r	significant digits as part of disclo epresents estimates that did not	sure avoidance protocol. Margin meet publication standards or w	of Error is calculated at the 90% ithheld to avoid disclosure.]	6 confidence interval. Weighting	onsistent with
Variable 1:								
Tenure	Ψ		Tenure					
Variable 2:			Total			Owner		<u>e</u>
Hispanic Origin of Hous	eho 🔻	Hispanic Origin of Householder Hispanic Origin of Householder						
			Total	Hispanic **	Not Hispanic	Total	Hispanic **	Not Hispanic
Filters:		Characteristics	Estimate	Estimate	Estimate	Estimate	Estimate	E
Tenure Filter:		Total	128,504	18,428	110,076	82,513	8,988	A
All	Ŧ							
Geography Filter:		Primary Source of Water						
All	•							
View:		Public or private system	114,454	17,778	96,677	70,286	8,545	
Estimates	-	Individual well	13,688	612	13,077	11,979	405	
		Other	361	39	322	248	38	
Get Table	Reset							
		Type of Sewage System						
View the AHS Table Creato here.	r tutorial	Public sewer	108,574	17,490	91,084	64,892	8,281	
		Sentic tank or cessnool	19.489	862	18 627	17 387	676	•

New features back to top

In 2023, the AHS Table Creator the following features were added to improve the tool's usability:

Frozen column headings and "Characteristics" column:

Before, when scrolling right or down through a table, the headings would disappear. Now, the column headings and "Characteristics" column stay displayed no matter how far to the right you scroll or how far down you scroll.

Select area:	=<							Ar	nerican Hou	ising Surve	y (AHS) Ta	ble Creator							
National 👻																			
Select Year:	₾ (D																	
2021	imate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimat							
	6,607	5,574	1,102	4,472	6,899	1,415	5,483	4,510	884	3,626	6,311	1,156	5,155	6,731	1,067	5,664	62	S	6
Select a Table:																			
Plumbing, Water, and Sewa 👻																			
	6.479	5 526	1 089	4 4 37	6.863	1 4 1 0	5 453	4 502	884	3 618	6 294	1 153	5 141	4 972	912	4 060	S	s	-
olumn Variables:	127	47	S	S	31	S	25	S		S	S	S	S	1.716	146	1.570	S		
Variable 1:		S		S	S		S				S	S	S	43	S	33	S		1
Units by Structure Type 🛛 👻																			
Variable 2																			
Hispanic Origin of Househo	6,464	5,497	1.083	4.414	6.858	1,410	5,447	4,486	884	3.602	6.287	1,152	5,136	4,131	876	3.255	S	S	1
	131	46	S	34	S		S	S		S	S	S	S	2,561	181	2,380	S		1
	131	44	S	32	S		S	S		S	S	S	S	2,440	179	2,261	S		5
ilters:		S		S	S		S				S	S		75	S	73			
Tenure Filter:														S		S			
All 👻														S	S	S			
					S		S							S		S			
Geography Filter:	S	S	S	S	S	S	S				S	S	S	S	S	S			
All	S	S	S	S	S	S	S	S		S	S	S	S						
	S	S		S	S	S	S	S	S	S	S	S	S	S	S	S			
View:																			
Estimates 👻																			
	S	S	S	S	S		S	S		S	S	S	S	2 420	173	2 247	S		
Get Table Reset	62	S		S							S		S	102	S	95	S		1
			6	6	9		6	9		S	S	S	S	39	\$	38	S		

Before:

Now:

Table Criteria:		≡×	Ar	merican Housing Surv	ey (AHS) Table Creator				
Select area:									
National	•	40							
Select Year:									
2021	Ψ.		2021 National — Plum	oing, Water, and	Sewage Disposal -	— All Occupied Un	its		
Soloct a Table:			Tenure	Filter: All Tenures • Geo	graphy Filter: All Geographies	•			
Plumbing Water and	Sewa 🚽		Variable 1: Un	its by Structure Type, Varia	ble 2: Hispanic Origin of Hous	eholder			
Column Variables		(Estimates and Margins of Error in Census 2020. Blank cells represent Subject Definitions	thousands of housing units, except as indicated. Medians are rounded t zero; ${\bf Z}$ rounds to zero; '.' Represents not applicable or no cases in se	d to four significant digits as imple; S represents estimates	part of disclosure avoidance prot that did not meet publication st	ocol. Margin of Error is calculat andards or withheld to avoid di	ed at the 90% confidence interva sclosure.]	I. Weighting consistent with	
Variable 1:									_
Units by Structure Typ	e 👻								٦
Variable 2:			ed/mobile home			Other (Boat, RV, van, etc.)			
Hispanic Origin of Hou	useho 👻		igin of Householder			Hispanic Origin of Househol	der		
				lispanic **	Not Hispanic	Total	Hispanic **	Not Hispanic	
Filters:		Characteristics	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	
Tenure Filter:									-
All	•	Other	S	S	S				
Geography Filter:		None							
All	Ψ.	Not reported	S	S	S				
View:									
Estimates	•	Number of Units Connected t	o Septic Tank or Cesspool						
Get Table	Reset	1	2,420	173	2,247	S		S	
		2 to 5	102	S	95	S		S	
		6 or more	39	S	38	S		S	
View the AHS Table Crea	tor tutorial								
here.		** Because Hispanics may be any re	ace, data can overlap slightly with other groups. Most Hispanics re	port themselves as White,	but some report themselves as	Black or in other categories.			Ŧ

Ability to change column width:

Columns of a table can now be resized to be larger/smaller by moving your cursor to the vertical rule in the boxhead at the top of the table until the double-headed arrow appears, as seen below, then clicking and dragging to the desired column width. A column menu has also been added to the 'Characteristics' column. Users can use this menu to resize this column or all columns with one button click. They can also reset the column widths back to their defaults.

	Units by Structure Type					
	Total	1, detached	1, attached	to - Units	5 to 9 Units	10 to 19 Units
Characteristics		Estimate	Estimat	Estimate	Estimate	
Total	Autosize This Column	81,744	8,155	8,519	5,574	A
	Autosize All Columns					
Units in Structure	Reset Columns					
1, detached	81,744	81,744				
1, attached	8,155		8,155			
2 to 4	8,519			8,519		
5 to 9	5,574				5,574	

Moving columns within a column variable:

Clicking and holding the left mouse button allows users to drag columns to a different position in the table. Columns cannot be moved outside of their column group. This can also be done using the tool panel.

Tool panel:

A new column tool panel was added, allowing users to collapse, hide, and/or move columns. When boxes are checked or unchecked, the table changes to display the column selections made, as do downloaded files. In the example below, the Margin of Error box is no longer checked. As a result, the Margin of Error column that would normally appear to the right of the Total column is no longer displaying.

	Tenure				~ E
	Total	Owner		Renter	✓ — Ⅲ Tenure
Characteristics	Estimate	Estimate	Margin of Error +/-	Estimate	V - III Total
Total	128,504	82,513	668	45,99 ^	Marrin of Error +/-
					✓ ✓ IIII Owner
Units in Structure					🖂 📖 Estimate
					Margin of Error +/-
1, detached	81,744	69,508	634	12,23	V V III Renter
1, attached	8,155	4,486	231	3,66	Margin of Error +/-
2 to 4	8,519	1,285	110	7,23	
5 to 9	5,574	504	66	5,07	
10 to 19	6,899	416	65	6,48	
20 to 49	4,510	479	56	4,03	
50 or more	6,311	821	79	5,48	
Manufactured/mobile home or trailer	6,731	4,977	294	1,75	
Other (Boat, RV, van, etc.)	62	37	17	-	
4	4				

Row/column highlighting:

Users can now highlight rows and columns based on where the cursor is in the table. See blue highlight below. This could help users locate the row and column headings for a particular cell.

± 0										
2021 Nationa	2021 National — Heating, Air Conditioning, and Appliances — All Occupied Units Tenure Filter: All Tenures • Geography Filter: All Geographies Variable 1: Year Built, Variable 2: Tenure									
[Estimates and Margins of Error in thousands of housing units, except as indicated Census 2020. Blank cells represent zero; Z rounds to zero; ¹¹ Represents not appli <u>Subject Definitions</u>	[Estimates and Margins of Error in thousands of housing units, except as indicated. Medians are rounded to four significant digits as part of disclosure avoidance protocol. Margin of Error is calculated at the 90% confidence interval. Weighting consistent with Census 2020. Blank cells represent zero; Z rounds to zero; "." Represents not applicable or no cases in sample; S represents estimates that did not meet publication standards or withheld to avoid disclosure.] Subject Definitions									
	Year Built									
	Total 2020 to 2021									
	Tenure Tenure									
	Total	Owner	Total	Owner	Renter					
Characteristics	Estimate	Estimate	Estimate	Estimate	Estimate					
Total	128,504	82,513	45,991	1,017	767	^				
Units Using Each Fuel ¹										
Electricity	128,382	82,433	45,949	1,017	767					
Gas	87,480	59,992	27,488	672	555					
Fuel oil	7,280	5,221	2,058	S	S					
Other	9,111	7,712	1,400	S	S					
Main Heating Equipment										

Footnote tool tips:

When a data user hovers over a row label with a footnote, a tooltip appears displaying the footnote's text. If more than one footnote applies to a row, the text for both footnotes will appear in the tooltip, separated by a pipe (|). See below for an example. (Note: The footnotes are also available at the bottom of the table, as they were before.)

20	21 National — Gei Tenure Filter: All Var	neral Housing Data Tenures • Geography Filter: iable 1: Tenure, Variable 2: No	All Occupied U All Geographies one	nits
[Estimates and Margins of Error in thousands of housing units, except as indicate Census 2020. Blank cells represent zero; Z rounds to zero; * Represents not app <u>Subject Definitions</u>	ed. Medians are rounded to four plicable or no cases in sample; S r	significant digits as part of disclo represents estimates that did not	sure avoidance protocol. Margin meet publication standards or w	of Error is cr ithheld to av
	Tenure			
	Total	Owner	Renter	
Characteristics			Estimate	
Membership not reported	Pipe separating	footnotes 1 and 2.	918	
Year Structure Buil 1.2				
For manufactured/mobile homes, o	Idest category is 1939 or earlier.	Median is estimated from the p	rinted distribution; see Subject D	efinitions.
2020 to 2021	1,017	767	249	
2015 to 2019	5,949	4,091	1,858	

CSV downloads:

Extraneous metadata columns (Row Number, Survey, Survey Year, Area, Table description, Tenure Filter, and Geography filter) were removed from the CSV downloads, as seen by the red 'X' below. Header titles have been parsed into separate rows to make it looks more like the HTML and Excel versions in that the headers look more like spanners (headers that span more than 1 column). In the example below, before the column header circled in red below used to say, "Units by Structure Type: Total|Number of Bedrooms: Total|Metric: Estimate", with the header titles separated by pipes (|). Now, however, the header titles are separated into different rows (circled in blue below).

Before:

Nw Order Survey	Survey Year A	Area	Table Description	Tenure Filter	Geography Filter	Characteristics	Units by Structure Type: Total Number of Bedrooms: Total Metric: Estimate
1 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE	Total	128504
2 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE		
3 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	ONE	Units in Structure	
4 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE		
5 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE	1, detached	81744
6 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE	1, attached	8155 9
7 AHS	2021	vational	General Housing Data - All Occupied Units	All	NONE	2 to 4	8519
8 AHS	2021 N	Vation	General Housing Data - All Occupied Units	All	NONE	5 to 9	5574
9 AHS	2021 N	Vational	Coneral Housing Data - All Occupied Units	All	NONE	10 to 19	6899
10 AHS	2021 N	Vational	General Housing Data - in Occupied Units	All	NONE	20 to 49	4510
11 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE	50 or more	6311
12 AHS	2021 N	Vational	General House Data - All Occupied Units	All	NONE	Manufactured/mobile home or trail	6731 9
13 AHS	2021 N	Vational	General Housing Dat - All Occupied Units	All	NONE	Other (Boat, RV, van, etc.)	62 5
14 AHS	2021 N	Vational	General Housing Data - AN Occupied Units	All	NONE		
15 AHS	2021 N	Vational	seneral Housing Data - All Occupied Units	All	NONE	Cooperatives and Condominiums	
16 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE		
17 AHS	2021	ational	General Housing Data - All Occupied Units	All	NONE	Cooperatives	1072
18 AHS	2521 N	Vational	General Housing Data - All Occupied Units	AL .	NONE	Condominiums	7689
19 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE		
20 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE	Member of Any Type of Cooperative	e or Association
21 AL 5	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE		
22 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE	Member of condominium association	1445 5
23 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE	Member of cooperative only	430
24 AHS	2021 N	Vational	General Housing Data - All Occupied Units	All	NONE	Member of homeowners associatio	21180

Now:

	Units by St	ucture Ty	/pe												
	Total						1, detache	ed					1, attache	d	
	Number of	Bedroom	ıs				Number o	of Bedroom	ns				Number o	f Bedroon	ns
	Total	one	1	. 2	3	4 or more	Total	None	1	. 2	3	4 or more	Total	None	1
Characteristics	Estimate	stimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate
Total	128,504	1,018	14,010	31,520	51,501	30,455	81,744	48	1,367	11,035	40,869	28,425	8,155	S	538
Units in Structure															
1, detached	81,744	48	1,367	11,035	40,869	28,425	81,744	48	1,367	11,035	40,869	28,425			
1, attached	8,155	S	538	3,311	3,450	831							8,155	S	538
2 to 4	8,519	48	1,917	4,439	1,790	325									
5 to 9	5,574	98	1,767	2,978	649	82									
10 to 19	6,899	213	2,694	3,365	562	64									
20 to 49	4,510	190	2,080	1,878	305	57									
50 or more	6,311	392	3,283	2,247	338	S									
Manufactured/mobile home	e 6,731	S	316	2,261	3,532	619									
Other (Boat, RV, van, etc.)	62	S	49	S	S	•	•					•	•	•	
Cooperatives and Condomir	niums														

Downloading back to top

HTML is the default download option. You can also download tables in Excel and CSV formats. Click

the " (down arrow) on the top tool bar and choose the Excel option. A box may pop up asking you: "Do you want to open or save TableX.xlsx from census.gov?" Click "Open." The Excel file should open in a few seconds. Once downloaded, the file will appear in your downloads folder and the file name will show the survey followed by the date, as shown below.

Downloads	
AHS TABLE1 12_6_2022.xlsx Open file	

Upon opening the file, note that the survey and date are also included at the bottom of the table, as shown below.

Source: U.S. Census Bureau, American Housing Survey Generated On: 12/06/2022, 04:13 PM

Rounding and median/mean formatting back to top

Estimates and Margins of Error are displayed in thousands of housing units, except as indicated. For example, a median row label may be followed by (dollars), indicating the data are no longer in thousands of housing units. Estimates and Margins of Error have different levels of precision for National tables and State/Metro tables. National tables are rounded to the nearest thousand (e.g., 100 represents 100,000), while Metro and State tables are rounded to the nearest hundred (e.g., 100.3 represents 100,300). Beginning in 2015, all medians (and means beginning in 2019), except Year Structure Built, have been rounded to four significant digits as part of the disclosure avoidance protocol. Blank cells represent true zeros and a Z represents an estimate that rounds to zero. "Rounds to zero" refers to values that amount to less than half the unit of measurement shown (e.g., less than

500 housing units in National tables and less than 50 units in State/Metro tables, except in median, mean or percent rows where another unit of measure may be indicated in parenthesis). In addition, cell suppression results in the symbol, S, which represents estimates that did not meet publication standards.

Cell suppression back to top

Suppressed cells display as an 'S'. Suppression can occur for any of the following reasons:

- When the coefficient of variation (CV) is greater than or equal to 30%, the estimate is suppressed;
- When a median or mean uses a variable not available on the Public Use File (PUF) and the cell count is less than 10, the median or mean is suppressed. Interpolated medians (e.g., Year Structure Built) have a suppression threshold of less than 3;
- When an estimate uses a variable not available on the Public Use File (PUF) and unweighted cell counts are less than 3, the estimate is suppressed. State data are not on the PUF, therefore suppression rules are applied;
- When the unweighted cell count of a "related" estimate is less than 3, the estimate is suppressed;
- When a "child" estimate has a "parent" estimate with an unweighted cell count of less than 3, the "child" estimate is suppressed. Parent indicators are rows that have other rows indented under them. The indented rows are the child rows that, when added together, sum up to the parent row; or
- When an estimate is repeated anywhere in a table and the original estimate is suppressed, the repeated estimate will also be suppressed and vice versa.
- When an estimate is related to a repeated estimate that is less than 3, the estimate is suppressed;
- When an estimate is not applicable or has no cases in sample AND has related cells that are suppressed, the "." will be replaced with an 'S'.

To do this, we grouped mutually exclusive indicators within each table stub, according to parent/child relationships in order to identify which rows were "related" to one another. This allowed us to determine which related cells needed to be suppressed in order to prevent disclosure (by subtraction) of any other cells within the group where at least one of the cells had an unweighted count of less than 3. There are 5 dimensions in Table Creator: Table, Variable 1, Variable 2, Tenure filter, and Geography filter. The suppression algorithm works across these multiple dimensions to ensure that suppression is consistent when executing separate but overlapping filter selections.

Missing values back to top

Cells with no data:

When there are no records for a particular cell, the software will place a '.' in the cell. A '.' is the result of one of the following scenarios: 1.) there were no housing units in the sample that met those conditions, or 2.) you are trying to cross tabulate two variables that do not share the same universe (the figure is not applicable because the column heading and stub line yield impossible, absurd, or meaningless results). Cross tabulations showing a "." in Table Creator were displayed as an X, or not applicable, in published AHS summary tables prior to 2011.

Entire columns with no data:

If a valid column has no records for ANY of the rows in the table, the column will NOT display at all. It will NOT be listed with the missing values symbol for all rows (or columns) unless at least one row of the column has data. Some table combinations are intentionally disabled because some variables do not make sense to cross tabulate. For example, if you select the Mortgage Characteristics table and then choose Tenure as your column variable, the Renter column will not display. The Tenure filter automatically defaults to owner-occupied units only because renters cannot have a mortgage. Other table combinations may result in columns that do not display because there are no housing units in the sample that met the criteria selected. For example, if you select the 2019 General Housing table for Los Angeles-Long Beach using the 2010 Urban Area column variable, the table will render, but the Urban Cluster column will not display.

Entire tables with no data:

Tables that yield no data in any row or column will not display at all. Using the example above, if you add the Urban Cluster geography filter to the same 2019 General Housing table for Los Angeles-Long Beach using ANY column variable, the table will not render because there are no housing units in Los Angeles-Long Beach that meet the Urban Cluster criteria. Instead, the message below will display:

The table you requested does not contain any estimates. This occurs when there are no housing units in the AHS sample that meet the criteria you selected.

You can try:

- Broadening your search criteria by deselecting a filter category.
- Visiting the American Housing Survey Table Creator Help Guide for more information about missing values.

Row and column variable ranges back to top

Variables involving ranges are pre-defined and cannot be customized. For example, square footage ranges are 'Less than 500,' '500 to 749,' etc. and cannot be changed. Ranges can only be manipulated using the Public Use File.

Margins of Error back to top

Starting in 2015, tables include the added ability for users to display the Margin of Error (MOE) for each estimate. To display MOEs, click the View drop-down box at the bottom of the Table Criteria menu panel and select "Estimates and Margins of Error" (circled in red in the example below). Then click the "Get Table" button.

Table Criteria:					
National 👻	₩ ()				
Select Year: 2021	Due to changes in geographic boundaries, use caution when comparing 2015 metro estimates to prior years. Please see Summary of the Differences between the 2015 and 2013 AHS Metro Areas for more information.				
Select a Table: General Housing 👻	The AHS Table Creator gives you the ability to create customized tables from the American Housing Survey without having to use the Public Use File (microdata). To create a table:				
Column Variables: Variable 1: None	1. Select area. Options are "national," "states," or selected "metro areas". You may select only one at a time, however selecting "Top 15 Metropolitan Areas" allows side-by-side comparisons of the largest 15 Metropolitan Areas, according to 2013 ACS population totals. 2. Select survey year. For historical AHS data (1973-2009), visit the Data page. Note: because not all metro areas are sampled each survey year, certain years may be unavailable for a particular area.				
Variable 2: None	3. Select table. 4. Select column variable. You may select up to 2 variables (except when the Top 15 Metropolitan Areas is selected). Selecting a second column variable will result in column headings with nested categories. If none is selected, only the total will display. 5. Output to Tanues and Concerning Without to anywork totakaa.				
Filters: Tenure Filter: All	 Optional uses the Ferritie and Oeography mension fail of the scope of your table. View: Beginning in 2015, there are two options - "Estimates" or "Estimates and Margins of Error." For all other years, "Estimates" is the only option. Click Get Table. Optional download the table in Excel by clicking on the down arrow on the top-left tool bar. 				
Geography Filter:	Disclaimer: Like published tables, AHS Table Creator tabulations may not match estimates derived using the Public Use File (PUF) because the PUF uses topcoding and geographic suppressions used to protect the identities of survey respondents. Beginning in 2015, all medians (and means beginning in 2019), except Year Structure Built, have been rounded to four significant digits as part of the disclosure avoidance protocol. Cross tabulations may not match estimates derived using the Public Use File (PUF) because the PUF uses topcoding and geographic suppressions used to protect the identities of survey respondents. Beginning in 2015, all medians (and means beginning in 2019), except Year Structure Built, have been rounded to four significant digits as part of the disclosure avoidance protocol. Cross tabulations may not not the survey of the survey				
View: Estimates Estimates and Margin Of Error	applicable, in published AHS tables are shown as a " in Table Creator. Prior to 2015, estimates displaying an S are suppressed to avoid disclosure. Beginning in 2015, estimates displaying an S are suppressed because the quality of the rate did not meet standards, to avoid disclosure, or both. Table Creator Release Notes				

The resulting table will show the estimate and margin of error (MOE) side-by-side. See example below.

2021 National — General Housing Data — All Occupied Units Tenure Filter: All Tenures • Geography Filter: All Geographies Variable 1: None, Variable 2: None [Estimates and Margins of Error in thousands of housing units, except as indicated. Medians are rounded to four significant digits as part of disclosure avoidance protocol. Margin of Error is calculated at the 90% confidence interval. Weighting consistent with Census 2020. Blank cells represent zero; Z rounds to zero; ** Represents not applicable or no cases in sample; S represents estimates that did not meet publication standards or withheld to avoid disclosure.] Subject Definitions					
Total	128,504	388			
Units in Structure					
1, detached	81,744	613			
1, attached	8,155	323			
2 to 4	8,519	290			
5 to 9	5,574	209			
10 to 19	6,899	243			
20 to 49	4,510	187			
50 or more	6,311	212			
Manufactured/mobile home or trailer	6,731	337			
Other (Boat, RV, van, etc.)	62	23			

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented using a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the AHS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see <u>Accuracy of the Data</u>). The effect of nonsampling error is not represented in these tables.

Topical Coverage back to top

Most of the tables in the AHS Table Creator are included every survey year, with only minor changes—so data users can track changes in important housing statistics over time. These tables are considered "core" tables. Other selected tables rotate in and out of the survey, depending on the survey year and are considered "topical" tables that. Occasionally "topical" information is included in a core table if it fit with the content in the table. For more information about topical questions, see the <u>Topical Module History</u> <u>Report</u>.

Geography back to top

When selecting a geography in Table Creator, note that some geographies are not sampled every survey year. To see what Metros were surveyed in each year, see the <u>Quick Guide to Metro Area Histories</u>: <u>1974 and Beyond</u>.

Because geographic boundaries change over time, AHS metropolitan areas are not always consistent over time and do not always match OMB definitions. To reduce confusion, detailed metropolitan areas names are displayed below the table title. When comparing a metropolitan area between different survey years, use these detailed metropolitan area names to determine if they are comparable.

2015 and Later:

Starting in 2015, the AHS metro area definitions match the official Office of Management and Budget (OMB) delineations. From 2015 onwards, AHS metros match Core Based Statistical Areas

(CBSA) definitions of that year by the same name. For more information, see www.census.gov/programs-surveys/metro-micro.html.

Crosswalk between 2013 and 2015:

Due to changes in geographic boundaries, use caution when comparing 2015 metro estimates to prior years. Please see <u>Summary of the Differences between the 2015 and 2013 AHS Metro Areas</u> for more information.

1985 to 2013:

For more on differences in metro area definitions from 1985 to 2013, see <u>Metropolitan Area</u> <u>Histories</u> and <u>Geography</u>, <u>Public Use File: 1985- 2013</u>.

Table Specifications back to top

A frequent question of AHS Public Use File (PUF) users is, "How can I replicate the results in the AHS Table Creator?" The "AHS Table Specifications" is organized to correspond exactly to each AHS summary table that is currently available in the AHS Table Creator. Each row provides the SAS code logic needed to replicate most summary table estimates. Table specification files are available from the Data section of the Census AHS website (<u>https://www.census.gov/programs-surveys/ahs/data.html</u>). To locate the table specifications, choose the survey year you want, click on the link to the PUF, and then choose the National PUF or the Metropolitan PUF. For 2015 and subsequent years, the AHS Table Specifications include estimates for user verification. Estimates calculated using the PUF might not be exactly the same as those published in the AHS summary tables due to disclosure avoidance techniques applied to the PUF. When differences occur, an explanation is provided.

About the American Housing Survey back to top

Click on the About the American Housing Survey link above to find information about the purpose, sponsoring agency, frequency, historical background, topical coverage, and methodology of the Survey.

Technical Documentation back to top

Click on the Technical Documentation link above to access Appendices of the Summary Report for each survey year. Appendices include:

Subject Definitions – This document provides definitions and explanations of table stub titles (row headings in bold) and column headings.

Sample Design and Weighting – This document provides information on how housing units were selected to be part of the sample and how each housing unit in the sample is weighted. It is found in the Accuracy of the Data section on the Technical Documentation link above. Note that starting with the 2015 AHS, this Appendix was combined with the Errors documentation.

Historical Changes – This document is a complete list of changes to the questionnaire and to the tables that have occurred since the previous survey.

Errors – This document includes descriptions of the types of sampling and nonsampling errors and provides formulas for constructing confidence intervals. Note that starting with the 2015 AHS, this Appendix was combined with the Sample Design and Weighting documentation.

Didn't find what you were looking for? back to top

Try the AHS microdata. The PUF microdata, (a.k.a. Public Use File) are files containing individual household responses to the survey questions, which can be used to generate custom tables. Data can be downloaded in SAS and ASCII formats. To get to the microdata, click on the <u>AHS Data page</u>, select a year tab at the top and then click on "Public Use File (PUF)". To recreate any of the AHS Table Creator tables, you can use the AHS Table Specifications, located on the AHS Data page (click the National or Metropolitan PUF link). The specifications show the variable(s) used to tabulate each row. The <u>PUF Codebook</u> is a searchable web application that provides information about each variable and where to find it on the PUF.