

Using Microdata Access

With ACS 1-Year Estimates – Public Use Microdata Sample

data.census.gov/mdat

The screenshot shows the 'Explore Data' section of the Census Bureau's microdata access portal. The header includes the 'United States Census Bureau' logo and a 'BETA' tag. The main heading is 'Select a Dataset & Vintage'. Below this, there are two selection fields. The first field, 'Select Dataset', has a dropdown menu with 'ACS 1-Year Estimates - Public Use Microdata Sample' selected, and the code 'ACSPUMS1Y' is displayed below it. The second field, 'Select Vintage', has a dropdown menu with '2017' selected, and the code '2017' is displayed below it. A teal 'NEXT' button is located at the bottom right of the selection area. In the bottom left corner, there is a 'Send Feedback' link with the email address 'cedsci.feedback@census.gov'.

United States[®] **Census** Bureau **BETA**

Explore Data

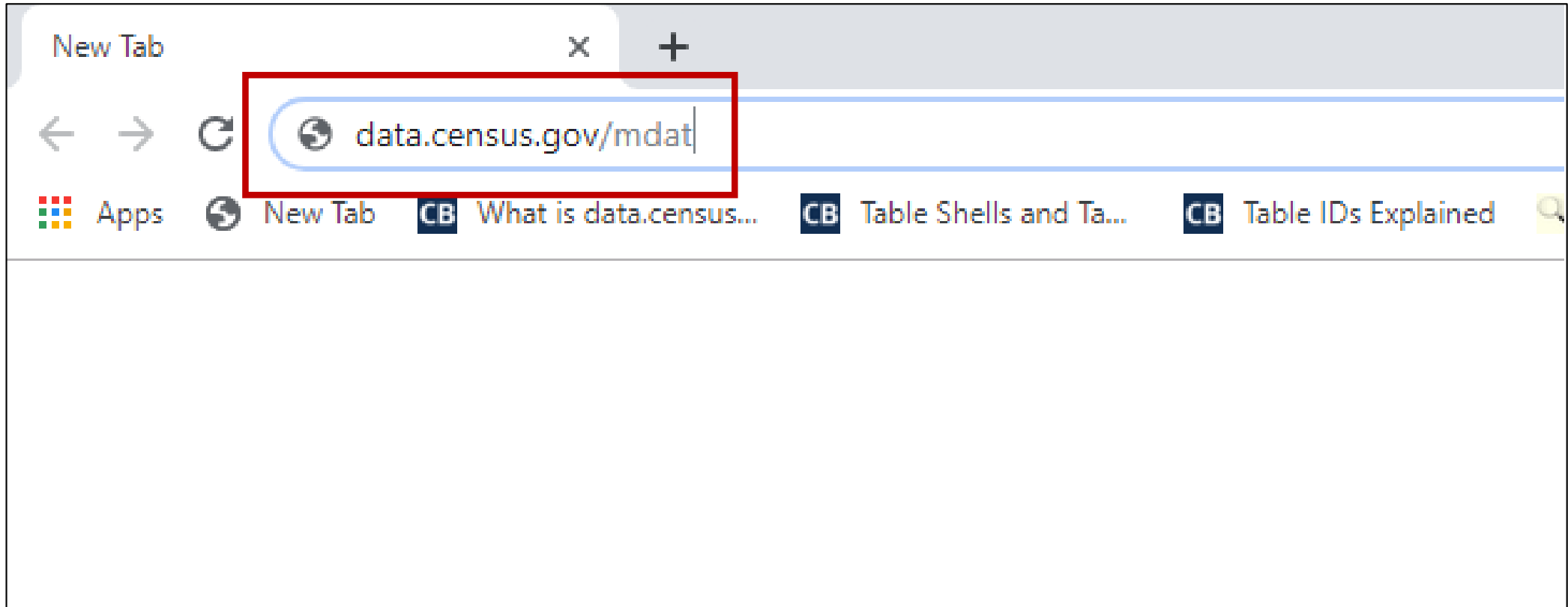
Select a Dataset & Vintage

Select Dataset ACS 1-Year Estimates - Public Use Microdata Sample ▼
ACSPUMS1Y

Select Vintage 2017 ▼
2017

NEXT

Send Feedback
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To use Microdata Access, go to
data.census.gov/mdat.

Microdata Access should work
properly using any web browser.

Select a Dataset & Vintage

Select Dataset

ACS 1-Year Estimates - Public Use Microdata Sample

ACSPUMS1Y

Select Vintage

2017

2017

NEXT

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The landing page allows you to
select your dataset and vintage.

Select a Dataset & Vintage

Select Dataset

Select Vintage

ACS 1-Year Estimates - Public Use Microdata Sample

ACS 1-Year Estimates - Puerto Rico Public Use Microdata Sample

ACS 5-Year Estimates - Public Use Microdata Sample

ACS 5-Year Estimates - Puerto Rico Public Use Microdata Sample

CPS Annual Social and Economic (March) Supplement

CPS Basic Monthly

NEXT

Currently, the following datasets can be found in Microdata Access:

- ACS 1-Year Estimates – Public Use Microdata Sample
- ACS 1-Year Estimates – Puerto Rico Public Use Microdata Sample
- ACS 5-Year Estimates – Public Use Microdata Sample
- ACS 5-Year Estimates – Puerto Rico Public Use Microdata Sample
- CPS Annual Social and Economic (March) Supplement
- CPS Basic Monthly

Select a Dataset & Vintage

Select Dataset

ACS 1-Year Estimates - Public Use Microdata Sample

ACSPUMS1Y

Select Vintage

2017

2016

2015

2014

2013

The vintages available are dependent on the dataset.

- ACS 1-Year Estimates are available back to 2004 (2005 for Puerto Rico)
- ACS 5-Year Estimates are available back to 2009
- CPS ASEC March Supplement datasets are available back to March 2014
- CPS Basic Monthly datasets are available back to January 1994

Select a Dataset & Vintage

Select Dataset

ACS 1-Year Estimates - Public Use Microdata Sample

ACSPUMS1Y

Select Vintage

2017

2017

NEXT

Send Feedback
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For this walkthrough, we'll use the 2017 ACS 1-Year Estimates. Once these are selected, hit the NEXT button found in the lower right of the screen.

SELECT VARIABLES

SELECT GEOGRAPHIES

DATA CART (0)

TABLE LAYOUT

DOWNLOAD

Topic filtering not enabled, but you can browse the topic list

Search is not enabled in this beta version

SEARCH

Showing 210 of 503 Variables

Select at least one variable to start

	Variable	Label	Number of Values	Type	
				(3) Edited Items, Estimate, Recode	
<input type="checkbox"/>	AGEP	Age	2	Estimate	▼ DETAILS
<input type="checkbox"/>	ANC	Ancestry categorization	4	Edited Items	▼ DETAILS
<input type="checkbox"/>	DRIVESP	Number of vehicles calculated from JWRI	7	Estimate	▼ DETAILS
<input type="checkbox"/>	ELEP	Electricity (monthly cost, use ADJHSG to adjust values 3 ...	4	Estimate	▼ DETAILS
<input type="checkbox"/>	FES	Family type and employment status	9	Estimate	▼ DETAILS
<input type="checkbox"/>	FRANC	▼ DETAILS

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (

The SELECT VARIABLES screen is the next screen that appears. You can choose the variables that you need by clicking the checkbox next to it. To find the variables more quickly, you can use the search bar to search for the desired variable. You can view specific details about the variable by clicking on the DETAILS dropdown.

! This variable is continuous and can only go to "Values in table cells". Create a group (recode) to use elsewhere. "Age (AGEP)"

SELECT VARIABLES

SELECT GEOGRAPHIES

DATA CART (1)

TABLE LAYOUT

DOWNLOAD



Topic filtering not enabled, but you can browse the topic list

Search is not enabled in this beta version

SEARCH

Showing 210 of 503 Variables

Selected: 1 variable (1 column, 1 row)

	Variable	Label	Number of Values	Type	
				(3) Edited Items, Estimate, Recode	
<input checked="" type="checkbox"/>	AGEP	Age	2	Estimate	▼ DETAILS
<input type="checkbox"/>	ANC	Ancestry categorization	4	Edited Items	▼ DETAILS
<input type="checkbox"/>	DRIVESP	Number of vehicles calculated from JWRI	7	Estimate	▼ DETAILS
<input type="checkbox"/>	ELEP	Electricity (monthly cost, use ADJHSG to adjust values 3 ...	4	Estimate	▼ DETAILS
<input type="checkbox"/>	FES	Family type and employment status	9	Estimate	▼ DETAILS
<input type="checkbox"/>	FAGEP				

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample

For this walkthrough, we'll choose the Age variable, AGEP, by checking the box next to it. When the checkbox is selected, a yellow message box appears at the top of the screen to alert you that, "This variable is continuous and can only go to 'Values in table cells'. You must create a group (recode) to use elsewhere."

This means that a recode must be created in order to use this variable in more than just the 'Values in table cells' option (more on creating recodes later).

SELECT VARIABLES
SELECT GEOGRAPHIES
DATA CART (2)
TABLE LAYOUT
DOWNLOAD

Topic filtering not enabled, but you can browse the topic list
Search is not enabled in this beta version
SEARCH

Showing 1 of 503 Variables
Selected: 2 variables (5 columns, 1 row)

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/>	MAR	Marital status	5 Edited Items

You can explore the full set of variables and values in the ACS PUMS Data Dictionary at <https://www.census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html>

We will create a recode for the AGEP variable in a bit. For now, let's also search for marital status using the search bar. Enter 'marital' into the Label search bar—it should automatically bring up the variable, MAR, for Marital Status. Check the box next to it.

We can keep track of the number of variables we've selected by looking at the right side of the screen—if we accidentally failed to include one of our desired variables, we'll be able to tell, right away, by checking the number we have selected.

Now that we have our two variables selected, let's click on the SELECT GEOGRAPHIES tab.

SELECT VARIABLES

SELECT GEOGRAPHIES

DATA CART (2)

TABLE LAYOUT

DOWNLOAD

IN THIS BETA VERSION, DATA ARE AVAILABLE ONLY FOR STATES. THE OTHER GEOGRAPHIC AREAS WILL BE ENABLED SOON.

GEOGRAPHIES

Region

Division

State

Public Use Microdata Area (PUMA)

STATE

☐ Alabama

☐ Alaska

☐ Arizona

☐ Arkansas

☒ California

☐ Colorado

☐ Connecticut

☐ Delaware

☐ District of Columbia

☐ Florida

Now that we're on the SELECT GEOGRAPHIES tab, let's choose our geography. Nation, State and Public Use Microdata Area (PUMA) geographies are available. If you do not select a geography, Nation will be used as the default geography.

Other geographies will be enabled in the future. Once the other geographies are enabled, you'll see that the list is tailored according to the survey being used.

For this example, let's click on State. Next, we'll check the box next to California.

SELECT VARIABLES **SELECT GEOGRAPHIES** DATA CART (2) TABLE LAYOUT DOWNLOAD

State

Public Use Microdata Area (PUMA)

- ☒ California
- ☐ Colorado
- ☐ Connecticut
- ☐ Delaware
- ☐ District of Columbia
- ☐ Florida

California X

You can keep track of the geographies you've added by scrolling down. As you can see in the example above, we only have California selected. If you would like to remove a geography, you can click on the X located next to the state name.

Now that we have selected our geography, we'll move to the DATA CART tab.

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (2)TABLE LAYOUTDOWNLOAD

Selected Variables (2)

AGEP

2 of 2 responses

MAR

5 of 5 responses

Age (AGEP)

DETAILS ^

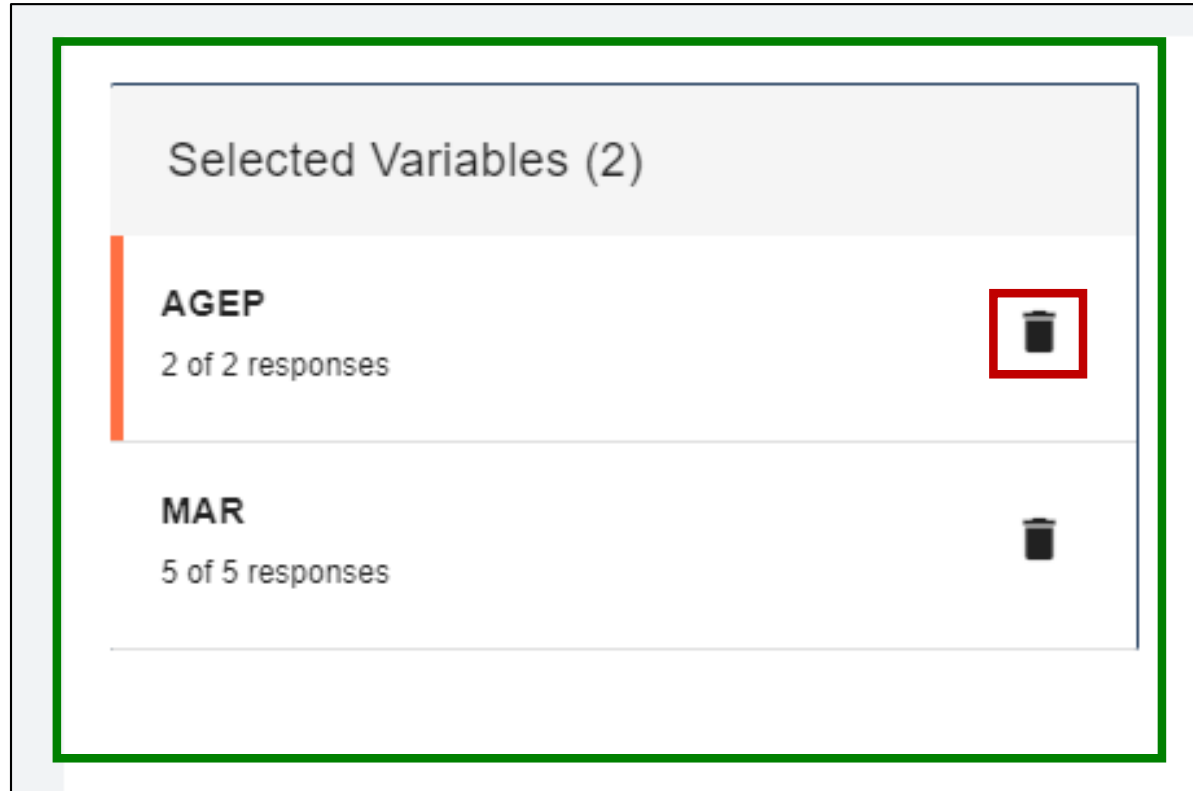
+ CREATE CUSTOM GROUP

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	1 to 99 years (Top-coded***)	1 ————— 99
<input checked="" type="checkbox"/>	Under 1 year	00

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2017)CHANGE

VIEW TABLE

This is how your DATA CART tab should look. Your selected variables should be displayed on the left side of the screen (highlighted in the green box). The information for the variable you have highlighted on the left will be displayed on the right side of the screen (highlighted in the purple box)—this section is used to create the recodes. In our case, right now we have the AGEP variable selected, so we can create a recode for it. If we were to select the MAR variable, we could create a recode for that, as well.



In the Selected Variables box, you can see your selected variables, along with the current number of responses associated with that variable. For example, MAR, the marital status variable, has 5 different response options (Married, Widowed, Divorced, Separated, and Never married or under 15 years old).

You can also click on the trashcan icon to remove a variable from your list.

Age (AGEP)

DETAILS ^

+ CREATE CUSTOM GROUP

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	1 to 99 years (Top-coded***)	1 ————— 99
<input checked="" type="checkbox"/>	Under 1 year	00

In the Age (AGEP) box, you'll find the current information about the variable, such as the Response Label and the value range.

This is where we will create a recode of the Age (AGEP) variable.

To create the recode, select the + CREATE CUSTOM GROUP button.

SELECT VARIABLES

SELECT GEOGRAPHIES

DATA CART (3)

TABLE LAYOUT

DOWNLOAD

Selected Variables (3)

AGEP

2 of 2 responses

MAR

5 of 5 responses

AGEP_RC1

1 of 1 responses

Age recode

AUTO GROUP

Not Elsewhere Classified

Show on table


Group Label

Not Elsewhere Classified

24 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input type="checkbox"/>	1 to 99 years (Top-coded****)	1 <div></div> 99
<input type="checkbox"/>	Under 1 year	00

As soon as you click the + CREATE CUSTOM GROUP button, a new variable (the recode you have created) will be added to the Selected Variables list. Our recode is called AGE_P_RC1. You'll also notice that we now have three variables in our DATA CART.

 **Age recode**


Not Elsewhere Classified

Group Label
Not Elsewhere Classified

24 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input type="checkbox"/>	1 to 99 years (Top-coded***)	1
<input type="checkbox"/>	Under 1 year	00



 **Age recode**

Age Recode

Group Label
Age Recode

10 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input type="checkbox"/>	1 to 99 years (Top-coded***)	1
<input type="checkbox"/>	Under 1 year	00

Before we do anything else, let's go over some things about this recode. First, we can rename the recode to something that makes sense. Let's call ours "Age Recode"—click on, or next to, the "Not Elsewhere Classified" text in the Group Label box, delete it, and type "Age Recode" in that spot.

 **Age recode**

Age Recode



Group Label
Age Recode

10 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input type="checkbox"/>	1 to 99 years (Top-coded***)	1
<input type="checkbox"/>	Under 1 year	00



Recode Label
Age recode

10 / 80


Age Recode

Group Label
Age Recode

10 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input type="checkbox"/>	1 to 99 years (Top-coded***)	1
<input type="checkbox"/>	Under 1 year	00


You can also change the Recode Label by selecting the pencil icon next to the Age recode text. Once you are happy with the label, click on the check mark in the green circle.

 **Age recode**

Age Recode Show on table

Group Label
Age Recode

10 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input type="checkbox"/>	1 to 99 years (Top-coded***)	1  99
<input type="checkbox"/>	Under 1 year	00



Auto Group Variable

Start

End


Groups of:

The site offers two ways to create custom groups of continuous variables. You can manually specify each grouping or you can use the Auto Group feature. For this example, we will use the Auto Group feature. Click on the AUTO GROUP button. This will bring up the Auto Group Variable box where you select your starting and ending values, as well as the spacing for the groups you would like to have.

Let's keep the starting value as 1 and the ending value as 99. However, let's change the number of groups from '1' to '10'. This will give us the full range of values split into groups of 10 (i.e., between 1 and 10, between 11 and 20, etc.) Then hit the AUTO GROUP button.

If you'd like to cancel the auto grouping, hit the CANCEL button.

Note: For an example of manually specifying each grouping, go to page 37 of this document, "Manually Specifying a Custom Group."


Age recode

Not Elsewhere Classified

VALUES: 00

Between 1 and 10

VALUES: 1:10

Between 11 and 20

VALUES: 11:20

Between 21 and 30

VALUES: 21:30

Between 31 and 40

VALUES: 31:40

Between 41 and 50

VALUES: 41:50

Between 51 and 60

VALUES: 51:60

Between 61 and 70

VALUES: 61:70

Between 71 and 80

VALUES: 71:80

Between 81 and 90

VALUES: 81:90

Between 91 and 99

VALUES: 91:99

AUTO GROUP

EDIT GROUP

EDIT GROUP

EDIT GROUP

EDIT GROUP

EDIT GROUP

EDIT GROUP

EDIT GROUP

EDIT GROUP

EDIT GROUP

EDIT GROUP

Now we have our groups.

If you wanted to further edit one of the groups, you can select the EDIT GROUP button located to the right of each grouping.



Custom Table

"Values in table cells" Options (1)

Determines order in list; cannot move to row/column

AGEP 2 of 2 responses

Columns (1)

5 columns (maximum 400)

MAR 5 of 5 responses

Rows (1)

1 rows (maximum 2000)

Table Preview

Drag and drop variables between sections on the left; see results on table layout below.

Values in table cells:


Average of Age (AGEP)

Universe: selected geographies: California

Selected Geographies	Marital status (MAR)				
	Married	Widowed	Divorced	Separated	Never married or under 15 years old
California	???	???	???	???	???

Now that we have our groups, let's move to the TABLE LAYOUT tab. This tab provides a preview of your table. As you can see, we have California placed as our row variable and marital status placed as our column variable. The ??? act as placeholders for the data that will populate the table.

You can make modifications to the table by clicking on a row header or column header, holding the mouse, and dragging it to the spot you would like it to be.

 Custom Table

"Values in table cells" Options (1)
Determines order in list; cannot move to row/column

AGEP 2 of 2 responses

Columns (1)
5 columns (maximum 400)

MAR 5 of 5 responses

Rows (1)
1 rows (maximum 2000)

Table Preview

Drag and drop variables between sections on the left; see results on table layout below.

Values in table cells:

Count

Average of Age (AGEP)

Universe: selected geographies: California

Selected Geographies	Married	Widowed	Divorced	Separated
California	???	???	???	???

You may notice that the values in the table cells default to “Average of Age (AGEP).” We don’t want the average age for this example, so let’s click on the dropdown menu and select “Count.”

Custom Table

"Values in table cells" Options (1)

Determines order in list; cannot move to row/column

AGEP 2 of 2 responses

Columns (1)

5 columns (maximum 400)

MAR 5 of 5 responses

Rows (1)

1 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

Not on table (1)

(may restrict the sample universe)

AGEP_RC1 11 of 11 responses

Table Preview

Drag and drop variables between sections on the left; see results on table layout below.

Values in table cells:

Count

Universe: selected geographies: California

	Marital status (MAR)				
Selected Geographies	Married	Widowed	Divorced	Separated	Never married or under 15 years old
California	???	???	???	???	???

Drop it here

You may notice that our preview table is only using the geography we selected (California) and one of the variables that we selected (MAR, or marital status). To add our age recodes, scroll down until you see the AGEP_RC1 variable. Click on the AGEP_RC1 text. While holding the click on your mouse, drag it over to the table preview. Let's drop it right underneath the cell for California.

Custom Table

"Values in table cells" Options (1)

Determines order in list; cannot move to row/column

AGEP 2 of 2 responses

Columns (1)

5 columns (maximum 400)

MAR 5 of 5 responses

Rows (2)

11 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

AGEP_RC1 11 of 11 responses

Not on table (0)

(may restrict the sample universe)

Table Preview

Drag and drop variables between sections on the left; see results on table layout below.

Values in table cells:

Count

Universe: selected geographies: California

	Marital status (MAR)				
Age recode (AGEP_RC1)	Married	Widowed	Divorced	Separated	Never married or under 15 years old
Selected Geographies - California (11)					
Not Elsewhere Classified		???	???	???	???
Between 1 and 10		???	???	???	???
Between 11 and 20		???	???	???	???
Between 21 and 30		???	???	???	???
Between 31 and 40		???	???	???	???
Between 41 and 50		???	???	???	???
Between 51 and 60		???	???	???	???

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2017) [CHANGE](#)

[VIEW TABLE](#)

As you can see, we now have all the age recode groups included. You can continue to rearrange the table as you see fit. Once you have the table set up the way you want, click on the VIEW TABLE button located near the bottom of the screen.

Custom Table

MORE TABLE OPTIONS

DETAILS ▾

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample [CHANGE DATASET](#)Geography: 1 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2017 ▾

Weighting: PUMS person weight ▾

On Columns

MAR

Not on Table

On Rows

Selected Geographies

AGEP_RC1

"Values in table cells" Options

AGEP

Values in table cells:

Count ▾

Universe: selected geographies: California

Marital status (MAR)

Age recode (AGEP_RC1)

Married

Widowed

Divorced

Separated

Never married or under 15 years old

Selected Geographies - California (11)

Not Elsewhere Classified	0	0	0	0	448,456
Between 1 and 10	0	0	0	0	5,019,948
Between 11 and 20	48,993	1,359	1,806	3,510	5,130,710
Send Feedback cedsci.feedback@census.gov	1,241,143	7,873	99,325	50,242	4,557,500

This screen has a lot of different options on it. Let's take a few moments to go over the different things that are included on it.

Values in table cells:

Universe: selected geographies: California

Count

Age recode (AGEP_RC1)	Marital status (MAR)				
	Married	Widowed	Divorced	Separated	Never married or under 15 years old
Selected Geographies - California (11)					
Not Elsewhere Classified	0	0	0	0	448,456
Between 1 and 10	0	0	0	0	5,019,948
Between 11 and 20	48,993	1,359	1,806	3,510	5,130,710
Between 21 and 30	1,241,143	7,873	99,325	50,242	4,557,500
Between 31 and 40	3,074,958	19,307	367,927	123,682	1,962,919
Between 41 and 50	3,277,733	57,189	606,603	161,093	994,306
Between 51 and 60	3,179,083	160,065	794,242	149,720	734,590
Between 61 and 70	2,462,445	330,708	674,918	92,765	384,236
Between 71 and 80	1,205,213	419,690	315,039	33,834	131,655
Between 81 and 90	411,965	419,112	103,711	9,999	43,375
Between 91 and 99	45,265	145,881	20,120	1,450	10,990

Send Feedback
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First and foremost, we have our table displayed at the bottom of the page. As you can see, the table is populated with the actual estimates instead of the question marks we saw on the preview. Right above the table, you can see that our Universe is our selected geography, California.

Custom Table

MORE TABLE OPTIONS

DETAILS ▾

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample [CHANGE DATASET](#)Geography: 1 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2017 ▾

Weighting: PUMS person weight ▾

On Columns



MAR

On Rows



Selected Geographies

AGEP_RC1

Not on Table



"Values in table cells" Options



AGEP

Values in table cells:

Universe: selected geographies: California

Count ▾

Marital status (MAR)

Age recode (AGEP_RC1)

Married

Widowed

Divorced

Separated

Never married or under 15 years old

Selected Geographies: California

Not Elsewhere Classified

Between 1 and 10

Between 11 and 20

Now back to the top of the screen. You have the option to change the dataset, vintage, geography, and weighting.

You should always confirm that the PUMS person weight is applied if the values represent a person variable and the Housing Weight is applied if the values represent a household variable. For this example, the appropriate weighting is the PUMS person weight, since we are using person-level variables.

Custom Table

MORE TABLE OPTIONS

DETAILS ▾

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample [CHANGE DATASET](#)Geography: 1 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2017 ▾

Weighting: PUMS person weight ▾

On Columns



MAR

On Rows



Selected Geographies

AGEP_RC1

Not on Table



"Values in table cells" Options



AGEP

Values in table cells:

Universe: selected geographies: California

Count ▾

	Marital status (MAR)				
Age recode (AGEP_RC1)	Married	Widowed	Divorced	Separated	Never married or under 15 years old
Selected Geographies - California (11)					
Not Elsewhere Classified	0	0	0	0	448,456
Between 1 and 10	0	0	0	0	5,019,948
Between 11 and 20	48,993	1,359	1,806	3,510	5,130,710
Send Feedback cedsci.feedback@census.gov	1,241,143	7,873	99,325	50,242	4,557,500

You can also move the variables around from a row to a column, or vice versa, using the black variable pills (examples highlighted in the purple box). If you need to add a variable (or remove one), you can click on the + in the circle—this will take you back to the earlier screen that lists all the variables.

Explore Data / Microdata / Custom Table

Custom Table MORE TABLE OPTIONS **DETAILS** ▾



Explore Data / Microdata / Custom Table

Custom Table MORE TABLE OPTIONS DETAILS ^

Values in table cells: Count Universe: selected geographies: California

	Marital status (MAR)				
Age recode (AGEP_RCI)	Married	Widowed	Divorced	Separated	Never married or under 15 years old
Selected Geographies - California (11)					
Not Elsewhere Classified	0	0	0	0	448,456
Between 1 and 10	0	0	0	0	5,019,948
Between 11 and 20	48,993	1,359	1,806	3,510	5,130,710
Between 21 and 30	1,241,143	7,873	99,325	50,242	4,557,500
Between 31 and 40	2,074,050	10,307	167,037	133,600	4,063,010

Clicking on the DETAILS button near the top of the screen will hide the upper part of the screen. Click on it again to display the detail pane again.

Custom Table

[MORE TABLE OPTIONS](#)

DETAILS ▾

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample [CHANGE DATASET](#)Geography: 1 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2017 ▾

Weighting: PUMS person weight ▾

On Columns

MAR

On Rows

Selected Geographies

AGEP_RC1

Not on Table

"Values in table cells" Options

AGEP

Values in table cells:

Count ▾

Universe: selected geographies: California

	Marital status (MAR)				
Age recode (AGEP_RC1)	Married	Widowed	Divorced	Separated	Never married or under 15 years old
Selected Geographies - California (11)					
Not Elsewhere Classified	0	0	0	0	448,456
Between 1 and 10	0	0	0	0	5,019,948
Between 11 and 20	48,993	1,359	1,806	3,510	5,130,710
Send Feedback cedsci.feedback@census.gov	1,241,143	7,873	99,325	50,242	4,557,500

Clicking on the MORE TABLE OPTIONS will give you an opportunity to further customize your table or download/share it.



Custom Table

"Values in table cells" Options (1)

Determines order in list; cannot move to row/column

AGEP

2 of 2 responses

Columns (1)

5 columns (maximum 400)

MAR

5 of 5 responses

Rows (2)

11 rows (maximum 2000)

SELECTED GEOGRAPHIES

1 of 1 responses

AGEP_RC1

11 of 11 responses

Not on table (0)

(may restrict the sample universe)

Table Preview

Drag and drop variables between sections on the left; see results on table layout below.

Values in table cells:

Count

Universe: selected geographies: California

	Marital status (MAR)				
Age recode (AGEP_RC1)	Married	Widowed	Divorced	Separated	Never married or under 15 years old
Selected Geographies - California (11)					
Not Elsewhere Classified	???	???	???	???	???
Between 1 and 10	???	???	???	???	???
Between 11 and 20	???	???	???	???	???
Between 21 and 30	???	???	???	???	???
Between 31 and 40	???	???	???	???	???
Between 41 and 50	???	???	???	???	???
Between 51 and 60	???	???	???	???	???

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2017)

[CHANGE](#)[VIEW TABLE](#)

If you click on Customize Table (from the MORE TABLE OPTIONS button), you will return to the TABLE LAYOUT tab.

☐ Download table view (.CSV)☐ Extract raw data (.JSON)

✓ * PUMS person weight

☐ Housing Weight

* weight associated with at least one variable in download

Bookmark for your current selections; save to return later or send to someone to share.

https://data.census.gov/mdat/#/search?ds=ACSPUMS1Y2017&vv=AGEP&cv=MAR&rv=ucgid.AGEP_RC1&wt=PWGTP&g=0400000US06&AGEP_RC1=%7B%22S%22%3A%22Age%20recode%22%2C%22R

COPY BOOKMARK

Query to extract PUMS records for your current selections from the Census Data API.

[illegible]

COPY API GET QUERY

Query to extract tabular (aggregated) for your current selections from the Census Data API.

[https://api.census.gov/data/2017/acs/acs1/pums?tabulate=weight\(PWGTP\)&col=MAR&row=ucgid&row=AGEP_RC1&ucgid=0400000US06&recode=AGEP_RC1=%7B%22b%22:%22AGEP%22,%22d%22](https://api.census.gov/data/2017/acs/acs1/pums?tabulate=weight(PWGTP)&col=MAR&row=ucgid&row=AGEP_RC1&ucgid=0400000US06&recode=AGEP_RC1=%7B%22b%22:%22AGEP%22,%22d%22)

COPY API TABULATE QUERY

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2017) [CHANGE](#)

VIEW TABLE

If you click on Download/Share (from the MORE TABLE OPTIONS button), you'll go to the DOWNLOAD tab. Here you can download the table as a CSV file, extract the raw data, copy the bookmark for the table, or copy API queries.

DOWNLOAD

3

VIEW TABLE

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32

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (3)TABLE LAYOUT

DOWNLOAD

☐ Download table view (.CSV)

☒ Extract raw data (.JSON)

Include:

☒ * PUMS person weight

☐ Housing Weight

* weight associated with at least one variable in download

DOWNLOAD

Bookmark for your current selections; save to return later or send to someone to share.
https://data.census.gov/mdat/#/search?ds=ACSPUMS1Y2017&vv=*AGEP&cv=MAR&rv=ucgid,AGEP_RC1&wt=PWGTP&g=0400000US06&AGEP_RC1=%7B%22S%22%3A%22Age%20recode%22%2C%22F

COPY BOOKMARK

Query to extract PUMS records for your current selections from the Census Data API.
https://api.census.gov/data/2017/acs/acs1/pums?get=PWGTP,AGEP,MAR,AGEP_RC1&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22:%22AGEP%22,%22d%22:%5B%5B%2200%22%5D,%5B%22

COPY API GET QUERY

Dataset: ACS 1-Year Estimates -

Open

Always open files of this type

Show in folder

Cancel

VIEW TABLE

ACSPUMS1Y.json

Show all

```
[["PWGTP", "AGEP", "MAR", "AGEP_RC1", "ST"],  
["66", "14", "5", "3", "6"],  
["106", "20", "5", "3", "6"],  
["85", "25", "5", "4", "6"],  
["55", "56", "1", "7", "6"],  
["66", "59", "1", "7", "6"],  
["57", "13", "5", "3", "6"],  
["60", "40", "5", "5", "6"],  
["137", "72", "3", "9", "6"],  
["136", "60", "2", "7", "6"],  
["54", "21", "5", "4", "6"],  
["45", "24", "5", "4", "6"],  
["95", "62", "1", "8", "6"],  
["76", "66", "1", "8", "6"],  
["68", "25", "5", "4", "6"],  
["65", "34", "5", "5", "6"],  
["92", "1", "5", "2", "6"],  
["66", "6", "5", "2", "6"],  
["66", "6", "5", "2", "6"]]
```

To extract raw data in a JSON file, check the box next to Extract raw data (.JSON). Be sure that the weight files you would like are also selected. Then hit the DOWNLOAD button. It may take a few moments for the JSON file to be produced. Once it has finished downloading, open it.

Explore Data/ Microdata/ Custom Table

SELECT VARIABLES
SELECT GEOGRAPHIES
DATA CART (3)
TABLE LAYOUT
DOWNLOAD

☐ Download table view (.CSV)
☐ Extract raw data (.JSON)

Include:
☒ * PUMS person weight
☐ Housing Weight

* weight associated with at least one variable in download

DOWNLOAD

Bookmark for your current selections; save to return later or send to someone to share.
https://data.census.gov/mdat/#/search?ds=ACSPUMS1Y2017&vv=*AGEP&cv=MAR&rv=ucgid,AGEP_RC1&wt=PWGTP&g=0400000US06&AGEP_RC1=%7B%22S%22%3A%22Age%20recode%22%2C%22F

COPY BOOKMARK

Query to extract PUMS records for your current selections from the Census Data API.
https://api.census.gov/data/2017/acs/acs1/pums?get=PWGTP,AGEP,MAR,AGEP_RC1&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22:%22AGEP%22,%22d%22:%5B%5B%2200%22%5D,%5B%22

COPY API GET QUERY

Query to extract tabular (aggregated) for your current selections from the Census Data API.
[https://api.census.gov/data/2017/acs/acs1/pums?tabulate=weight\(PWGTP\)avg\(AGEP\)&col+MAR&row+ucgid&row+AGEP_RC1&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22:%22AGEP%22](https://api.census.gov/data/2017/acs/acs1/pums?tabulate=weight(PWGTP)avg(AGEP)&col+MAR&row+ucgid&row+AGEP_RC1&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22:%22AGEP%22)

COPY API TABULATE QUERY

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2017) **CHANGE**

VIEW TABLE

Custom Table

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample **CHANGE DATASET**

Vintage: 2017

Geography: 1 geographies selected **CHANGE GEOGRAPHY**

Weighting: PUMS person weight

On Columns

MAR

On Rows

Selected Geographies

AGEP_RC1

Not on Table

"Values in table cells" Options

AGEP

Values in table cells:

Average of Age (AGEP)

Universe: selected geographies: California

	Marital status (MAR)				
Age recode (AGEP_RC1)	Married	Widowed	Divorced	Separated	Never married or under 15 years old
Not Elsewhere Classified	0	0	0	0	0
Between 1 and 10	0	0	0	0	5.57
Between 11 and 20	18.63	16.9	18.68	17.7	15.51
Send Feedback usinfo.feedback@census.gov	27.06	25.96	27.58	27.42	25.17

To copy the bookmark, select the COPY BOOKMARK button. Open a new window in your browser and paste the URL into the URL bar. Hit enter. It may initially look as though it has taken you to the landing page for Microdata Access. However, if you wait a few seconds, it will automatically open the Custom Table pane that is shown on page 24.

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Explore Data/ Microdata/ Custom Table

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (3) TABLE LAYOUT **DOWNLOAD**

☐ Download table view (.CSV)

☐ Extract raw data (.JSON)

 Include:

☒ * PUMS person weight

☐ Housing Weight

* weight associated with at least one variable in download

DOWNLOAD

Bookmark for your current selections; save to return later or send to someone to share.
https://data.census.gov/mdat/#/search?ds=ACSPUMS1Y2017&vv=*AGEP&cv=MAR&rv=ucgid,AGEP_RC1&wt=PWGTP&g=0400000US06&AGEP_RC1=%7B%22S%22%3A%22Age%20recode%22%2C%22F
COPY BOOKMARK

Query to extract PUMS records for your current selections from the Census Data API.
https://api.census.gov/data/2017/acs/acs1/pums?get=PWGTP,AGEP,MAR,AGEP_RC1&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22:%22AGEP%22,%22d%22:%5B%5B%2200%22%5D,%5B%
COPY API GET QUERY

Query to extract tabular (aggregated) for your current selections from the Census Data API.
[https://api.census.gov/data/2017/acs/acs1/pums?tabulate=weight\(PWGTP\)avg\(AGEP\)&col+MAR&row+ucgid&row+AGEP_RC1&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22:%22AGEP%22,%22d%22:%5B%5B%2200%22%5D,%5B%](https://api.census.gov/data/2017/acs/acs1/pums?tabulate=weight(PWGTP)avg(AGEP)&col+MAR&row+ucgid&row+AGEP_RC1&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22:%22AGEP%22,%22d%22:%5B%5B%2200%22%5D,%5B%)
COPY API TABULATE QUERY

Dataset: ACS 1-Year Estimates - Public Use Microdata Sample (2017) **CHANGE** **VIEW TABLE**

```
[["PWGTP", "AGEP", "MAR", "AGEP_RC1", "ST"],
["66", "14", "5", "3", "6"],
["106", "20", "5", "3", "6"],
["85", "25", "5", "4", "6"],
["55", "56", "1", "7", "6"],
["66", "59", "1", "7", "6"],
["57", "13", "5", "3", "6"],
["60", "40", "5", "5", "6"],
["137", "72", "3", "9", "6"],
["136", "60", "2", "7", "6"],
["54", "21", "5", "4", "6"],
["45", "24", "5", "4", "6"],
["95", "62", "1", "8", "6"],
["76", "66", "1", "8", "6"],
["68", "25", "5", "4", "6"],
["65", "34", "5", "5", "6"],
["92", "1", "5", "2", "6"],
["66", "6", "5", "2", "6"],
["66", "6", "5", "2", "6"]]
```




To copy the API queries, select either the COPY API GET QUERY or the COPY API TABULATE QUERY buttons. Open a new window in your browser and paste the URL into the URL bar. Hit enter. This will make the API call. The data can then be pulled into an Excel document.

HOW CAN I VERIFY THAT I AM CREATING MY TABLE CORRECTLY WITH THE ACS PUMS ON DATA.CENSUS.GOV?

To verify that you are creating your table correctly, walk through a few examples using the [PUMS estimates for user verification](https://www.census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html) (<https://www.census.gov/programs-surveys/acs/technical-documentation/pums/documentation.html>) and confirm that you get the same result as provided in the file. For example, you can see that using the 2017 ACS 1-year PUMS files for California, there were 2,451,453 people age 0-4 and 7,137,291 owner occupied housing units.

	A	B	C	D	E	F	G
1	ST	STATE	CHARACTERISTIC	PUMS_EST_17	PUMS_SE_17	PUMS_MOE_17	
2	6	California	Age 0-4	2451453	4488	7382	
3	6	California	Age 5-9	2472855	14817	24374	
4	6	California	Age 10-14	2602113	14844	24419	
5	6	California	Age 15-19	2553601	7968	13107	
6	6	California	Age 20-24	2773114	8114	13348	
7	6	California	Age 25-34	6007094	9426	15505	
8	6	California	Age 35-44	5258093	8827	14520	
9	6	California	Age 45-54	5150941	7519	12369	
10	6	California	Age 55-59	2495668	15269	25118	
11	6	California	Age 60-64	2263832	13717	22564	
12	6	California	Age 65-74	3210365	5196	8547	
13	6	California	Age 75-84	1580794	9594	15782	
14	6	California	Age 85 and over	716730	8535	14041	
15	6	California	Total housing units (TYPE=1)	14177270	568	934	
16	6	California	Total occupied units	13005088	10663	17541	
17	6	California	Owner occupied units (TEN in 1,2)	7137291	19666	32350	
18	6	California	Renter occupied units (TEN in 3,4)	5867797	20192	33216	

coded




-  2013-2017 ACS 5-year PUMS Data Dictionary [<1.0 MB]
-  2013-2017 ACS 5-year PUMS Data Dictionary [<1.0 MB]
-  2013-2017 ACS 5-year PUMS Data Dictionary [<1.0 MB]
-  2017 ACS 1-year PUMS Data Dictionary [<1.0 MB]
-  2017 ACS 1-year PUMS Data Dictionary [<1.0 MB]
-  2017 ACS 1-year PUMS Data Dictionary [<1.0 MB]

Code Lists

Detailed codes for variables that contain

PUMS Estimates for User Verification


Note that some of these estimates may be different from the estimates for the same characteristics published in the American FactFinder. For an explanation of these differences, see the Accuracy of the PUMS above.

-  2013-2017 ACS 5-year PUMS estimates [SAS] [<1.0 MB]
-  2013-2017 ACS 5-year PUMS estimates [CSV] [<1.0 MB]
-  2013-2017 ACS 5-year PUMS record counts [CSV] [<1.0 MB]
-  2017 ACS 1-year PUMS estimates [SAS] [<1.0 MB]
-  2017 ACS 1-year PUMS estimates [CSV] [<1.0 MB]
-  2017 ACS 1-year PUMS record counts [CSV] [<1.0 MB]

Manually Specifying a Custom Group

As discussed on a page 18, the site offers two ways to create custom groups of continuous variables. You can manually specify each grouping or you can use the Auto Group feature.

The next few pages provide directions for manually specifying your groupings.

 **Age recode**

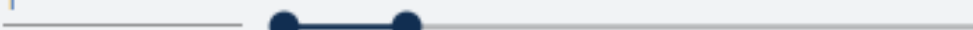
AUTO GROUP

Age Recode -- Ages 0-18 Show on table

Group Label

Age Recode -- Ages 0-18

24 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	1 to 99 years (Top-coded***)	1  18
<input checked="" type="checkbox"/>	Under 1 year	00

CANCEL

SAVE GROUP

We will pick this example up from page 17. We will be creating our custom groups manually. With this method, each group needs to be created one at a time.

To do this, follow the steps through page 17 of this presentation. Once you have reached the Age recode screen, give your first group a different label. Let's call this first group "Age Recode – Ages 0-18." Enter that in the Group Label box by clicking in the box, deleting the existing text, and replacing it with "Age Recode – Ages 0-18." Next, check the boxes next to both "1 to 99 years (Top-coded***)" and "Under 1 year." This will allow us to add people under 1 year of age to our new recode.

Change the starting/ending values as needed; for this example, we only need to change the end value to 18. Then click on the SAVE GROUP button.

Age recode

AUTO GROUP

Not Elsewhere Classified

VALUES: 19:99

EDIT GROUP

Age Recode -- Ages 0-18

VALUES: 1:18, 00

EDIT GROUP

Now you'll notice that you have your new age group of Ages 0-18 and a group with the remaining ages. The values for your new age group are displayed as "1:18, 00." This signifies that people aged 1 to 18 years are included in this groups, as well as people aged 00 (under 1 year).

To add an additional age group, select the EDIT GROUP button for the "Not Elsewhere Classified" group.

Age recode

AUTO GROUP

Age Recode -- Ages 19-64

Show on table

Group Label

Age Recode -- Ages 19-64

24 / 60

☒ Add to Group

Response Label

Value

☒

Between 19 and 99

19

64

CANCEL

SAVE GROUP

Like you did before, change the Group Label to something that distinguishes it from the other groups, check the box next to “Between 19 and 99,” change the starting/ending range as needed, and click on SAVE GROUP. For this example, we’ll create a recode group for people ages 19-64.

NOTE: You can not have any ages that overlap between multiple groups. For example, the tool will not allow you to create a group for people ages 0 to 18 and another group for people ages 17-64. This is not allowed because you are trying to include 17 and 18 year olds in more than one group.

Age recode

AUTO GROUP

Not Elsewhere Classified
VALUES: 65:99, 00

EDIT GROUP

Age Recode -- Ages 1-18
VALUES: 1:18

EDIT GROUP

Age Recode -- Ages 19-64
VALUES: 19:64

EDIT GROUP

Now you'll see that you have three different groupings listed: one for Ages 0-18, another for Ages 19-64, and the last one for people ages 65-99 (still named "Not Elsewhere Classified"). Let's click on the EDIT GROUP button to change this last label.

Age Recode

AUTO GROUP


Age Recode -- Ages 65-99

☒ Show on table

Group Label

Age Recode -- Ages 65-99

24 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 65 and 99	65  99

CANCEL

SAVE GROUP

To do this, delete the original text and replace it with “Age Recode – Ages 65-99.” Check the box next to “Between 65 and 99.” There’s no need to change the starting or ending values for this recode group. Click SAVE GROUP to save.

Age recode

AUTO GROUP

Age Recode -- Ages 0-18

VALUES: 1:18, 00

EDIT GROUP

Age Recode -- Ages 19-64

VALUES: 19:64

EDIT GROUP

Age Recode -- Ages 65-99

VALUES: 65:99

EDIT GROUP

Now you have all three custom groups that you manually specified.

From here, you can continue with the steps found on page 20 of this document.

Questions?

cedsci.feedback@census.gov