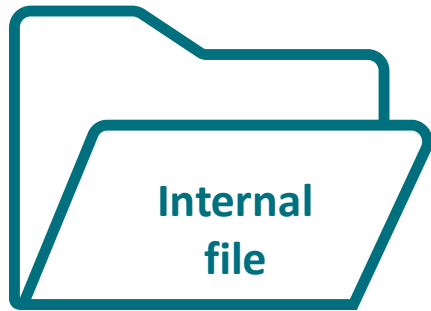


Microdata Access on data.census.gov

California State Data Users Meeting
October 18, 2022

Jessica Barnett
Center for Enterprise Dissemination (CED)
U.S. Census Bureau

What's the difference between data.census.gov and Microdata Access?



data.census.gov

- Provides more precise estimates
- Wider range of datasets
- Fewer limitations to available geographies
- No in-depth knowledge of variables required



Microdata Access (internally known as MDAT)

- Provides custom estimates when a pre-tabulated Census table is not available
- More historical data available
- Datasets not available in data.census.gov

What's the difference between tabulated data and microdata?



Maryland		
Label	Estimate	Margin of Error
▼ Total:	3,098,870	±17,785
▼ Male:	1,565,561	±11,667
▼ Management, business, science, and arts occupations:	682,858	±11,323
▼ Management, business, and financial occupations:	286,831	±7,906
Management occupations	195,401	±6,483
Business and financial operations occupations	91,430	±5,335
▼ Computer, engineering, and science occupations:	212,203	±6,790
Computer and mathematical occupations	121,160	±5,830
Architecture and engineering occupations	54,967	±3,693
Life, physical, and social science occupations	28,078	±2,370

data.census.gov

Aggregated tables for a geography:

“In 2019 in Maryland, approximately 121,160 males worked in computer and mathematical occupations.”



SERIALNO	SPORDER	ST	SEX	OCCP
2019HU0045422	4	24	1	4710
2019HU0045422	5	24	2	9
2019HU0045422	6	24	2	9
2019HU0045644	1	24	1	2100
2019HU0045764	1	24	2	5740
2019HU0045764	2	24	1	1031
2019HU0046210	1	24	1	150
2019HU0046210	2	24	2	5740

Microdata Access (MDAT)

Microdata (a set of edited survey responses):

“This male in Maryland is a web developer.”

Microdata = PUMS Files

Public Use Microdata



Anonymized

- No personally identifiable information
- Edits to protect confidentiality

Individual Responses

- Must be tabulated and weighted by user

Accessible

- data.census.gov/mdat
- Application Programming Interface (API)
- Download through FTP sites

Data Dictionaries

American Community Survey

<https://www.census.gov/programs-surveys/acs/microdata/documentation.html>

PUMS Data Dictionary

Includes variables available for each PUMS release and how each variable is coded

- 2015-2019 ACS 5-year PUMS Data Dictionary [<1.0 MB]
- 2015-2019 ACS 5-year PUMS Data Dictionary [<1.0 MB]
- 2015-2019 ACS 5-year PUMS Data Dictionary [<1.0 MB]
- 2019 ACS 1-year PUMS Data Dictionary [<1.0 MB]
- 2019 ACS 1-year PUMS Data Dictionary [<1.0 MB]
- 2019 ACS 1-year PUMS Data Dictionary [<1.0 MB]

Factors [CSV] [<1.0 MB]

2019 ACS 1-year PUMS Data Dictionary [1.0 MB]

2019 ACS 1-year PUMS Data Dictionary [1.0 MB]

2019 ACS PUMS DATA DICTIONARY
October 15, 2020

HOUSING RECORD

HOUSING RECORD-BASIC VARIABLES

RT	Character	1
Record Type		
H	Housing Record or Group Quarters Unit	
P	Person Record	

SERIALNO Character 13
Housing unit/GQ person serial number
2019GQ0000001..2019GQ9999999 .GQ Unique identifier
2019HU0000001..2019HU9999999 .HU Unique identifier

DIVISION Character 1
Division code based on 2010 Census definitions
0 .Puerto Rico
1 .New England (Northeast region)
2 .Middle Atlantic (Northeast region)
3 .East North Central (Midwest region)
4 .West North Central (Midwest region)
5 .South Atlantic (South region)
6 .East South Central (South region)
7 .West South Central (South region)
8 .Mountain (West region)
9 .Pacific (West region)

PUMA Character 5
Public use microdata area code (PUMA) based on 2010 Census definition
(areas with population of 100,000 or more, use with ST for unique code)

Current Population Survey Annual Social and Economic Supplement (CPS ASEC)

<https://www.census.gov/data/datasets/2021/demo/cps/cps-asec-2021.html>

Technical Documentation

March 2021 Annual Social and Economic Supplement

Data and Documents

Data Dictionary [1.0 MB]

ASCII Data File

PDF Windows [1.4 MB]

ASEC 2021 Public Use Data Dictionary

Record Type: Household

Variable	Length	Position	Range	Variable	Length	Position	Range
Topic: Record Identifiers				Topic: Geography			
SubTopic: Record Type				SubTopic: Geography			
HRECORD	1	1	(1:1)	GEDIV	1	42	(0:9)
Record Type. Used to identify records on ASCII file. Values: 1 = HOUSEHOLD RECORD Universe: All Households				Recode - Census division of current residence Values: 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 Universe: All Households			
SubTopic: Match Keys							
FILEDATE	6	2	()				
File creation date in MMDDYY format Values: Date Universe: All records							
H_HHNUM	1	8	(1:8)	GEREG	1	43	(1:4)
Household number. Identifier for unique set of residents located at this sample address. If this group changes between months in sample, household number is incremented by 1. Values: 1-8 = Household number Universe: All Households				Region Values: 1 = Northeast 2 = Midwest 3 = South 4 = West Universe: All Households			
H_IDNUM	20	9	(NA)	GESTFIPS	2	44	(1:56)
Household id number. Same as character 1-20 of HRECORD				State FIPS code			

Data Dictionaries

American Community Survey

<https://www.census.gov/programs-surveys/acs/microdata/documentation.html>

The ACS PUMS data dictionary is broken out into different sections of variables, including basic variables, housing unit variables, and person variables.

HOUSING RECORD

HOUSING RECORD-BASIC VARIABLES

RT **Character** **1**
Record Type
H .Housing Record or Group Quarters Unit
P .Person Record

SERIALNO **Character** **13**
Housing unit/GQ person serial number
2016000000
2018000000

HOUSING RECORD-HOUSING UNIT VARIABLES

ACCESSINET **Character** **1**
Access to the Internet
b .N/A (GQ/vacant)
1 .Yes, by paying a cell phone company or Internet service
 .provider
2 .Yes, without paying a cell phone company or Internet service

Internet at this house, apartment, or mobile

PERSON RECORD-PERSON VARIABLES

AGEP **Numeric** **2**
Age
0 .Under 1 year
1..99 .1 to 99 years (Top-coded)

CIT **Character** **1**
Citizenship status
1 .Born in the U.S.
2 .Born in Puerto Rico, Guam, the U.S. Virgin Islands, or the
 .Northern Marianas
3 .Born abroad of American parent(s)
4 .U.S. citizen by naturalization
5 .Not a citizen of the U.S.

Data Dictionaries

American Community Survey

<https://www.census.gov/programs-surveys/acs/microdata/documentation.html>

Find all the variables that are available in the PUMS dataset for any given year.

The dictionary will give you the **name of the variable**, **whether it's a character or numeric variable**, **the length of the variable**, **a brief description of the variable**, and **the possible response options or recoded values**.

POVPIP	Numeric	3
Income-to-poverty ratio recode		
bbb	.N/A (individuals who are under 15 and are either living in a housing unit but are unrelated to the householder or are living in select group quarters)	
0..500	.Below 501 percent	
501	.501 percent or more	

Demo

Example 1:

Educational attainment by income for the population 18 years and over in the United States

Table A-3 – Mean earnings by educational attainment

Table A-3. Mean Earnings of Workers 18 Years and Over, by Educational Attainment, Race, Hispanic Origin, and Sex: 1975 to 2020
(Mean annual earnings [dollars]. Total number with earnings in thousands. Civilian noninstitutionalized population. Beginning in 2019, standard errors for the means are calculated using replicate weights)

Year	Total			Not a high school graduate			High school graduate			Some college/associate's degree			Bachelor's degree			Advanced degree		
	Number with earnings	Mean	Standard error	Number with earnings	Mean	Standard error	Number with earnings	Mean	Standard error	Number with earnings	Mean	Standard error	Number with earnings	Mean	Standard error	Number with earnings	Mean	Standard error
Total, Both Sexes																		
2020	164,611	58,329	386	10,985	28,545	852	42,240	39,498	456	45,240	44,176	456	41,910	73,499	695	24,236	104,833	1,422
2019	167,216	58,544	362	11,414	29,279	537	42,599	39,371	315	46,886	45,091	390	42,153	73,163	767	24,164	106,766	1,397
2018	165,179	55,619	296	12,058	27,037	481	42,882	38,936	376	46,887	43,053	416	40,231	71,155	676	23,118	99,919	1,186
2017	163,871	53,536	218	12,240	26,832	383	42,816	38,145	320	47,382	41,507	291	39,153	67,763	462	22,277	98,369	933
2016	162,218	51,893	217	12,281	27,800	559	42,897	36,702	296	48,128	40,201	277	37,272	67,267	508	21,639	95,203	909
2015	161,074	49,994	209	13,159	25,315	422	42,404	35,615	271	47,961	38,943	261	36,348	65,482	516	21,199	92,525	898
2014	158,000	47,653	196	13,197	25,236	494	42,529	34,099	240	47,023	37,945	283	35,305	62,466	452	19,944	88,056	855
2013	156,031	46,187	219	12,961	23,755	482	42,433	32,881	248	46,952	36,428	282	34,422	59,661	495	19,261	90,304	1,074
2012	155,148	45,598	182	13,030	21,622	303	41,915	32,630	239	47,469	35,943	234	33,948	60,159	428	18,783	89,253	882
2011	152,711	44,729	176	13,594	21,107	247	42,129	32,493	254	45,999	35,585	218	33,188	59,415	395	17,800	87,981	899
2010	151,747	42,956	157	13,540	20,935	340	42,650	30,999	201	45,604	34,469	189	32,371	57,619	398	17,582	83,930	747
2009	152,707	42,469	165	14,083	20,241	281	44,396	30,627	188	45,239	34,773	216	32,127	56,665	405	16,860	85,818	873
2008	155,080	42,588	164	15,317	21,022	202	45,182	31,282	200	46,682	34,808	202	31,800	58,612	444	17,025	82,144	785

Prefabricated CPS tables provide mean earnings by educational attainment, but what if we need income instead of earnings, broken out by age group?

- Visit Microdata Access at data.census.gov/mdat

The screenshot shows a web browser window with the URL data.census.gov/mdat/#/ in the address bar. The page header features the United States Census Bureau logo and the text "Explore Data". The main heading is "Select a Dataset & Vintage". Below this, there are two selection fields: "Select Dataset" and "Select Vintage". The "Select Dataset" field is currently set to "ACS 1-Year Estimates Public Use Microdata Sample" with the code "ACSPUMS1Y" below it. The "Select Vintage" field is currently set to "2019" with "2019" listed 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 "census.data@census.gov".

United States Census Bureau

Explore Data

Select a Dataset & Vintage

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

Select Vintage 2019
2019

NEXT

Send Feedback
census.data@census.gov

- Choose Dataset and Vintage:
 - Dataset – CPS Annual Social and Economic (March) Supplement
 - Vintage – MAR 2022
 - Click **Next** in the lower right

Select a Dataset & Vintage

Select Dataset

CPS Annual Social and Economic (March) Supplement

CPSASEC

Select Vintage

MAR 2022

202203

NEXT

- **Search for Variables** – Use the search box below “Variable” or “Label” to find your variables of interest

United States **BETA**
Census
Bureau

Explore Data/ Microdata/ Custom Table

SELECT VARIABLES

SELECT GEOGRAPHIES

DATA CART (0)

TABLE LAYOUT

DOWNLOAD

filter by Topic

Search is not enabled in this beta version

SEARCH

Showing 707 of 1056 Variables

Select at least one variable to start

	Variable	Label	Number of Values	Type	
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	(3) Edited Items, Recodes, Topcodes	
<input type="checkbox"/>	A_AGE	Demographics, Age	1	Edited Items	DETAILS
<input type="checkbox"/>	A_SEX	Demographics, Sex	2	Edited Items	DETAILS
<input type="checkbox"/>	PEAFWHN3	Demographics - past military service period of active duty	10	Edited Items	DETAILS
<input type="checkbox"/>	PEAFWHN2	Demographics - past military service period of active duty	10	Edited Items	DETAILS
<input type="checkbox"/>	PEAFWHN1	Demographics - past military service period of active duty	10	Edited Items	DETAILS
<input type="checkbox"/>	PEAFEVER	Veteran status - ever served	3	Edited Items	DETAILS
<input type="checkbox"/>	PEAFWHN4	Demographics - past military service period of active duty	10	Edited Items	DETAILS
<input type="checkbox"/>	A_USLHRS	Current job, Hours, usually worked at main job	4	Edited Items	DETAILS
<input type="checkbox"/>	HUNITS	Number of Units in Structure-Household	5	Edited Items	DETAILS
<input type="checkbox"/>	STATSTAY_A	State income tax, Federal income tax	1	Edited Items	DETAILS

Dataset: CPS Annual Social and Economic (March) Supplement (202203)

CHANGE

VIEW TABLE

■ Select variable for Person Income:

- Type “PTOTVAL” in the Variable search box or type “persons income” in the label search box
- Click **Details** to browse information about this variable
- Check the box to the left of PTOTVAL to add the variable to your data cart
- Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (You will do this action in the Data Cart)

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

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (1)TABLE LAYOUTDOWNLOAD

filter by Topic

Search is not enabled in this beta version

SEARCH

Showing 1 of 1056 Variables

Selected: 1 variable (1 column, 1 row)

	Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/>	ptotval	persons income	1	(3) Edited Items, Recodes, Topcod
	PTOTVAL	Total persons income	1	Edited Items

Description:
Total persons income

Values:

- -99999 to 99999999 -- -99999:99999999

^ DETAILS

- **Select variable for Age:**
 - Type “A_AGE” in the Variable search box or type “Age” in the label search box
 - Check the box to the left of A_AGE to add the variable to your data cart
 - Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (You will do this action in the Data Cart)

! This variable is continuous but another is already determining cell values; use the "Values in table cells" drop-down to switch. "Demographics, Age (A_AGE)"

SELECT VARIABLES

SELECT GEOGRAPHIES

DATA CART (2)

TABLE LAYOUT

DOWNLOAD

filter by Topic

Search is not enabled in this beta version

SEARCH

Showing 1 of 1056 Variables

Selected: 2 variables (1 column, 1 row)

	Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/>	a_age	age	1	(3) Edited Items, Recodes, Topcodes
	A_AGE	Demographics, Age		Edited Items

Description:
Item 18d - Age
Universe = All

Values:

- 0 to 85 -- Range

^ DETAILS

- Select variable for Educational attainment:
 - Type “A_HGA” in the Variable search box or type “education” in the label search box
 - Check the box to the left of A_HGA to add the variable to your data cart

The screenshot shows the 'SELECT VARIABLES' tab in the United States Census Bureau data selection tool. The interface includes a search bar with the text 'filter by Topic' and a 'SEARCH' button. Below the search bar, it says 'Showing 1 of 1056 Variables' and 'Selected: 3 variables (17 columns, 1 row)'. A table lists the selected variables, with the first row highlighted. The first column has a checked checkbox. The second column contains the variable name 'a_hga'. The third column contains the label 'education'. The fourth column contains the number of values '17'. The fifth column contains the type '(3) Edited Items, Recodes, Topcodes'. Below the table, the 'Description' section shows 'Item 18h - Educational attainment' and 'Universe = All'. The 'Values' section lists the following categories: 0 -- Children, 31 -- Less Than 1st Grade, 32 -- 1st, 2nd, 3rd, or 4th grade, 33 -- 5th Or 6th Grade, 34 -- 7th and 8th grade, and 35 -- 9th Grade. A red box highlights the 'DETAILS' link in the top right corner of the table row.

	Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/>	a_hga	education	17	(3) Edited Items, Recodes, Topcodes

Description:
Item 18h - Educational attainment
Universe = All

Values:

- 0 -- Children
- 31 -- Less Than 1st Grade
- 32 -- 1st, 2nd, 3rd, or 4th grade
- 33 -- 5th Or 6th Grade
- 34 -- 7th and 8th grade
- 35 -- 9th Grade

[DETAILS](#)

- **Select geography:**
 - Move to the **Select Geographies** tab
 - Since we are getting the estimate for the United States, there is no need to make a selection. If no selection is made, the geography will automatically default to the United States

The screenshot shows a web interface for selecting geographies. At the top, there is a navigation bar with five tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (which is highlighted with an orange underline), 'DATA CART (3)', 'TABLE LAYOUT', and 'DOWNLOAD'. To the right of these tabs is a teal double-down arrow icon. Below the navigation bar, the main area is divided into two panels. The left panel is titled 'GEOGRAPHIES' and contains a single entry labeled 'State'. The right panel is empty. At the bottom of the interface, there is a footer bar. On the left, it displays 'Dataset: CPS Annual Social and Economic (March) Supplement (202203)' followed by a teal 'CHANGE' link. On the right, there is a grey button labeled 'VIEW TABLE'. The interface includes vertical scrollbars on the right side of the main content area and the footer bar.

- **Categorize (recode) your variable:**
 - Move to the **Data Cart** tab
 - Click the **A_AGE** variable on the left
 - Click **Create Custom Group** to begin specifying your age groups (e.g. Under 18 years and 18 years and over)

The screenshot displays the 'DATA CART (3)' tab in the United States Census Bureau's data tool. On the left, under 'Selected Variables (3)', the variable 'A_AGE' is highlighted with a red box, showing '1 of 1 responses'. Below it are 'PTOTVAL' (1 of 1 responses) and 'A_HGA' (17 of 17 responses). On the right, the 'Demographics, Age (A_AGE)' section is active, with a red box around the '+ CREATE CUSTOM GROUP' button. Below this button is a table with two rows:

<input checked="" type="checkbox"/>	Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>		Range	0 ————— 85

The 'Range' row shows a slider with dots at 0 and 85, indicating the age range being defined.

- **Categorize (recode) your variable:**
 - Click into **Group label** and type a label for the first category you want to create (e.g. Under 18 years)
 - Check the box next to the response category for this code (0:85)
 - Edit the end range of age from 85 to **17**
 - Click **Save Group**

SELECT VARIABLES SELECT GEOGRAPHIES **DATA CART (4)** TABLE LAYOUT DOWNLOAD

Selected Variables (4)

- A_AGE**
1 of 1 responses
- PTOTVAL**
1 of 1 responses
- A_HGA**
17 of 17 responses

Demographics, Age recode AUTO GROUP

Under 18 years Show on table

Group Label
Under 18 years

14 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Range	0 17

CANCEL SAVE GROUP

- **Categorize (recode) your variable:**
 - Your first category, Under 18 years, appears just below “Not Elsewhere Classified”
 - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category

The screenshot displays the 'DATA CART (4)' interface with the following components:

- Navigation Bar:** SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (4)**, TABLE LAYOUT, DOWNLOAD.
- Selected Variables (4):**
 - A_AGE**: 1 of 1 responses
 - PTOTVAL**: 1 of 1 responses
 - A_HGA**: 17 of 17 responses
- Demographics, Age recode** section:
 - Not Elsewhere Classified**: VALUES: 18:85. The **EDIT GROUP** button is highlighted with a red box.
 - Under 18 years**: VALUES: 0:17. The **EDIT GROUP** button is visible.
- AUTO GROUP** button is located at the top right of the recode section.

- **Categorize (recode) your variable:**
 - Click into **Group label** and type a label for the last category you want to create (e.g. 18 years and over)
 - Check the box next to the response category for this code (18:85)
 - Click **Save Group**

SELECT VARIABLES SELECT GEOGRAPHIES **DATA CART (4)** TABLE LAYOUT DOWNLOAD

Selected Variables (4)

- A_AGE**
1 of 1 responses
- PTOTVAL**
1 of 1 responses
- A_HGA**
17 of 17 responses

Demographics, Age recode AUTO GROUP

18 years and over Show on table

Group Label
18 years and over


17 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 18 and 85	18 ————— 85

CANCEL SAVE GROUP

- **Categorize (recode) your variable:**
 - Click the **PTOTVAL** variable on the left
 - Click **Create Custom Group** to begin specifying your income categories (e.g. Under \$50,000; \$50,000-\$149,999; \$150,000 or more)

The screenshot shows the 'DATA CART (4)' tab in the United States Census Bureau Data Cart interface. On the left, under 'Selected Variables (4)', the variable **PTOTVAL** (Total persons income) is highlighted with a red box. On the right, under 'Total persons income (PTOTVAL)', the '+ CREATE CUSTOM GROUP' button is also highlighted with a red box. Below this button is a table for defining custom groups.

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	-99999:99999999	-99999  99999999

- **Categorize (recode) your variable:**
 - Click into **Group label** and type a label for the first category you want to create (e.g. Under \$50,000)
 - Check the box next to the response category for this code (-99999:99999999)
 - Edit the end range of age from 99999999 to **49999**
 - Click **Save Group**

The screenshot shows the 'DATA CART (5)' tab in the United States Census Bureau interface. On the left, under 'Selected Variables (5)', are A_AGE (1 of 1 responses), PTOTVAL (1 of 1 responses), and A_HGA (17 of 17 responses). The main area displays the 'Total persons income recode' dialog box. At the top right of this dialog is an 'AUTO GROUP' button. Below it, the category 'Under \$50,000' is selected, with a 'Show on table' toggle. A text box for the 'Group Label' contains 'Under \$50,000'. Below this is a table with columns 'Add to Group', 'Response Label', and 'Value'. The first row has a checked 'Add to Group' box, the response label '-99999:99999999', and a value range from '-99999' to '49999'. The '49999' value is entered in a text box. At the bottom right of the dialog are 'CANCEL' and 'SAVE GROUP' buttons.

Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	-99999:99999999	-99999 to 49999

■ Categorize (recode) your variable:

- Your first category, Under \$50,000, appears just below “Not Elsewhere Classified”
- Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the next category
- Click into **Group label** and type a label for the next category you want to create (e.g. \$50,000-\$149,999)
- Check the box next to the response category for this code (50000:99999999)
- Edit the end range of age from 99999999 to **149999** and click **Save Group**

The screenshot displays the 'Total persons income recode' interface. On the left, a sidebar titled 'Selected Variables (5)' lists 'A_AGE' (1 of 1 responses), 'PTOTVAL' (1 of 1 responses), and 'A_HGA' (17 of 17 responses). The main area shows a list of categories: 'Not Elsewhere Classified' (VALUES: 50000:99999999) with an 'EDIT GROUP' button, and 'Under \$50,000' (VALUE: 50000). A modal window is open for editing the 'Under \$50,000' group. The modal title is 'Total persons income recode' and it includes an 'AUTO GROUP' button. The group label is '\$50,000-\$149,999'. Below this, a table lists response categories. The first row is 'Between 50000 and 99999999' with a value of '50000' and an end value of '149999'. The 'Add to Group' checkbox is checked. At the bottom of the modal are 'CANCEL' and 'SAVE GROUP' buttons. The United States Census Bureau logo is in the bottom left corner.

Selected Variables (5)

- A_AGE
1 of 1 responses
- PTOTVAL
1 of 1 responses
- A_HGA
17 of 17 responses

Total persons income recode AUTO GROUP

Not Elsewhere Classified
VALUES: 50000:99999999 EDIT GROUP

Under \$50,000
VALUE: 50000

Total persons income recode AUTO GROUP

\$50,000-\$149,999 Show on table

Group Label
\$50,000-\$149,999 16 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 50000 and 99999999	50000 149999

CANCEL SAVE GROUP

United States[®]
Census
Bureau

■ Categorize (recode) your variable:

- The two categories you created appear just below “Not Elsewhere Classified”
- Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the next category
- Click into **Group label** and type a label for the last category you want to create (e.g. \$150,000 or more)
- Check the box next to the response category for this code (150000:99999999)
- Click **Save Group**

The screenshot displays the 'Total persons income recode' interface. On the left, a sidebar titled 'Selected Variables (5)' lists 'A_AGE' (1 of 1 responses), 'PTOTVAL' (1 of 1 responses), and 'A_HGA' (17 of 17 responses). The main panel shows three categories: 'Not Elsewhere Classified' (VALUES: 150000:99999999), 'Under \$50,000' (VALUES: -99999:49999), and '\$150,000 or more' (VALUES: 150000:99999999). The '\$150,000 or more' category is selected, and its 'Group Label' is set to '\$150,000 or more'. Below this, a table lists response categories with checkboxes for 'Add to Group'. The first row, 'Between 150000 and 99999999', is checked. The 'SAVE GROUP' button is highlighted with a red box.

Selected Variables (5)

- A_AGE**
1 of 1 responses
- PTOTVAL**
1 of 1 responses
- A_HGA**
17 of 17 responses

Total persons income recode **AUTO GROUP**

Not Elsewhere Classified
VALUES: 150000:99999999 **EDIT GROUP**

Under \$50,000
VALUES: -99999:49999 **EDIT GROUP**

Total persons income recode **AUTO GROUP** **Show on table**

\$150,000 or more

Group Label
\$150,000 or more

16 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 150000 and 99999999	150000 ————— 99999999

CANCEL **SAVE GROUP**

United States Census Bureau

- **Categorize (recode) your variable:**
 - Click the **A_HGA** variable on the left
 - Click **Create Custom Group** to begin specifying your income categories (e.g. Less than high school grad; high school grad; some college or associates degree; bachelor's degree or higher)

The screenshot shows the 'DATA CART (5)' tab in the United States Census Bureau interface. On the left, under 'Selected Variables (5)', the variable **A_HGA** is highlighted with a red box. It shows '17 of 17 responses'. On the right, the 'Demographics, Educational attainment (A_HGA)' section is active, showing a table of educational attainment levels. A red box highlights the '+ CREATE CUSTOM GROUP' button above the table.

<input checked="" type="checkbox"/>	Response Label	Value
<input checked="" type="checkbox"/>	Children	0
<input checked="" type="checkbox"/>	Less Than 1st Grade	31
<input checked="" type="checkbox"/>	1st,2nd,3rd,or 4th grade	32
<input checked="" type="checkbox"/>	5th Or 6th Grade	33
<input checked="" type="checkbox"/>	7th and 8th grade	34
<input checked="" type="checkbox"/>	9th Grade	35
<input checked="" type="checkbox"/>	10th Grade	36

- **Categorize (recode) your variable:**
 - Click into **Group label** and type a label for the first category you want to create (e.g. Less than high school grad)
 - Check the boxes next to the response categories for **Children** all the way down to **12th Grade No Diploma**
 - Click **Save Group**

A_AGE
1 of 1 responses

PTOTVAL
1 of 1 responses

A_HGA
17 of 17 responses

A_HGA_RC1
1 of 1 responses

PTOTVAL_RC1
3 of 3 responses

A_AGE_RC1
2 of 2 responses

Group Label

Less than high school grad

26 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Children	0
<input checked="" type="checkbox"/>	Less Than 1st Grade	31
<input checked="" type="checkbox"/>	1st,2nd,3rd,or 4th grade	32
<input checked="" type="checkbox"/>	5th Or 6th Grade	33
<input checked="" type="checkbox"/>	7th and 8th grade	34
<input checked="" type="checkbox"/>	9th Grade	35
<input checked="" type="checkbox"/>	10th Grade	36
<input checked="" type="checkbox"/>	11th Grade	37
<input checked="" type="checkbox"/>	12th Grade No Diploma	38
<input type="checkbox"/>	High school graduate-high school diplo...	39
<input type="checkbox"/>	Some College But No Degree	40
<input type="checkbox"/>	Assc degree-occupation/vocation	41
<input type="checkbox"/>	Assc degree-academic program	42
<input type="checkbox"/>	Bachelor's degree (BA,AB,BS)	43
<input type="checkbox"/>	Master's degree (MA,MS,MENG,MED,MS...	44
<input type="checkbox"/>	Professional school degree (MD,DDS,DV...	45
<input type="checkbox"/>	Doctorate degree (PHD,EDD)	46

CANCEL

SAVE GROUP

■ Categorize (recode) your variable:

- Your first category, Less than high school grad, appears just below “Not Elsewhere Classified”
- Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the next category
- Click into **Group label** and type a label for the next category you want to create (e.g. High school grad)
- Check the box next to the response category for **High school graduate-high school diploma**
- Click **Save Group**

Selected Variables (6)

- A_AGE
1 of 1 responses
- PTOTVAL
1 of 1 responses
- A_HGA
17 of 17 responses
- A_HGA_RC1
2 of 2 responses

Demographics, Educational attainment recode

Not Elsewhere Classified
VALUES: 39, 40, 41, 42, 43, 44, 45, 46

Less than high school grad
VALUES: 0, 31, 32, 33, 34, 35, 36, 37, 38

High school grad Show on table

Group Label
High school grad

16 / 60

<input type="checkbox"/>	Add to Group	Response Label	Value
<input checked="" type="checkbox"/>		High school graduate-high school diploma	39
<input type="checkbox"/>		Some College But No Degree	40
<input type="checkbox"/>		Assc degree-occupation/vocation	41
<input type="checkbox"/>		Assc degree-academic program	42
<input type="checkbox"/>		Bachelor's degree (BA,AB,BS)	43
<input type="checkbox"/>		Master's degree (MA,MS,MENG,MED,MSW,MBA)	44
<input type="checkbox"/>		Professional school degree (MD,DDS,DVM,L)	45
<input type="checkbox"/>		Doctorate degree (PHD,EDD)	46

CANCEL **SAVE GROUP**

■ Categorize (recode) your variable:

- The two categories you created appear just below “Not Elsewhere Classified”
- Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the next category
- Click into **Group label** and type a label for the last category you want to create (e.g. Some college or associate’s degree)
- Check the boxes next to the response categories for **Some College But No Degree**, **Assc degree-occupation/vocation**, and **Assc degree-academic program** and click **Save Group**

Selected Variables (6)

- A_AGE
1 of 1 responses
- PTOTVAL
1 of 1 responses
- A_HGA
17 of 17 responses
- A_HGA_RC1
3 of 3 responses

Demographics, Educational attainment recode

Not Elsewhere Classified
VALUES: 40, 41, 42, 43, 44, 45, 46

Less than high school grad
VALUES: 0, 31, 32, 33

High school grad
VALUES: 39

Demographics, Educational attainment recode

Some college or associate's degree Show on table

Group Label
Some college or associate's degree

34 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Some College But No Degree	40
<input checked="" type="checkbox"/>	Assc degree-occupation/vocation	41
<input checked="" type="checkbox"/>	Assc degree-academic program	42
<input type="checkbox"/>	Bachelor's degree (BA,AB,BS)	43
<input type="checkbox"/>	Master's degree (MA,MS,MENG,MED,MSW,MBA)	44
<input type="checkbox"/>	Professional school degree (MD,DDS,DVM,L)	45
<input type="checkbox"/>	Doctorate degree (PHD,EDD)	46

CANCEL **SAVE GROUP**

■ Categorize (recode) your variable:

- The three categories you created appear just below “Not Elsewhere Classified”
- Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the next category
- Click into **Group label** and type a label for the last category you want to create (e.g. Bachelor’s degree or higher)
- Check the boxes next to the response categories for **Bachelor’s degree (BA,AB,BS)**, **Master’s degree (MA,MS,MENG,MED,MSW,MBA)**, **Professional school degree (MD,DDS,DVM)**, and **Doctorate degree (PHD,EDD)**
- Click **Save Group**

Selected Variables (6)

- A_AGE
1 of 1 responses
- PTOTVAL
1 of 1 responses
- A_HGA
17 of 17 responses
- A_HGA_RC1
4 of 4 responses

Demographics, Educational attainment recode

Not Elsewhere Classified
VALUES: 43, 44, 45, 46

EDIT GROUP

Demographics, Educational attainment recode

Bachelor's degree or higher ☒ Show on table

Group Label
Bachelor's degree or higher

27 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Bachelor's degree (BA,AB,BS)	43
<input checked="" type="checkbox"/>	Master's degree (MA,MS,MENG,MED,MSW,MBA)	44
<input checked="" type="checkbox"/>	Professional school degree (MD,DDS,DVM,L	45
<input checked="" type="checkbox"/>	Doctorate degree (PHD,EDD)	46

CANCEL **SAVE GROUP**

Less than high school grad

- Confirm variable selections
 - Confirm variable selections and click the **Table Layout** tab

SELECT VARIABLES SELECT GEOGRAPHIES **DATA CART (6)** **TABLE LAYOUT** DOWNLOAD

Selected Variables (6)

- A_AGE**
1 of 1 responses
- PTOTVAL**
1 of 1 responses
- A_HGA**
17 of 17 responses
- A_HGA_RC1**
4 of 4 responses
- PTOTVAL_RC1**
3 of 3 responses
- A_AGE_RC1**
2 of 2 responses

Demographics, Educational attainment recode

- Less than high school grad**
VALUES: 0, 31, 32, 33, 34, 35, 36, 37, 38 [EDIT GROUP](#)
- High school grad**
VALUES: 39 [EDIT GROUP](#)
- Some college or associate's degree**
VALUES: 40, 41, 42 [EDIT GROUP](#)
- Bachelor's degree or higher**
VALUES: 43, 44, 45, 46 [EDIT GROUP](#)

Dataset: CPS Annual Social and Economic (March) Supplement (202203) [CHANGE](#) [VIEW TABLE](#)

- Edit Table Layout:

- **Move A_AGE_RC1 and A_HGA_RC1 to Rows:** Click on the variable and drag it to its new spot. This will add our age and educational attainment categories we created as our table rows
- **Move PTOTVAL_RC1 to Columns:** This will add the income categories we created to our table columns
- **Move A_HGA to Not on table:** This will remove the original educational attainment categories from the table

[illegible]

- Choose type of values in table cells
 - Change the “Value in table cells” option from Average of Total persons income (PTOTVAL) to **Count**. This will give you data for the total number of people within the requested categories in the United States

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (6)TABLE LAYOUTDOWNLOAD

Custom Table

"Values in table cells" Options (2)
Determines order in list; cannot move to row/column

A_AGE1 of 1 responses

PTOTVAL1 of 1 responses

Columns (1)
3 columns (maximum 400)

PTOTVAL_RC13 of 3 responses

Rows (2)
8 rows (maximum 2000)

A_AGE_RC12 of 2 responses

A_HGA_RC14 of 4 responses

Not on table (1)
(may restrict the sample universe)

A_HGA17 of 17 responses

Table Preview

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

Values in table cells:

Count

Average of Demographics, Age (A_AGE)

Average of Total persons income (PTOTVAL)

Universe: default universe (usually US)

attainment recode (A_HGA_RC1)

19,999

\$150,000 or more

Under 18 years (4)			
Less than high school gr...	???	???	???
High school grad	???	???	???
Some college or associa...	???	???	???
Bachelor's degree or hi...	???	???	???
18 years and over (4)			
Less than high school gr...	???	???	???
High school grad	???	???	???
Some college or associa...	???	???	???
Bachelor's degree or hi...	???	???	???

Dataset: CPS Annual Social and Economic (March) Supplement (202203)CHANGE

VIEW TABLE

- Confirm Table Layout:
 - Confirm table layout and click **View Table** in the lower right

SELECT VARIABLES
SELECT GEOGRAPHIES
DATA CART (6)
TABLE LAYOUT
DOWNLOAD

Custom Table

"Values in table cells" Options (2)
Determines order in list; cannot move to row/column

A_AGE 1 of 1 responses

PTOTVAL 1 of 1 responses

Columns (1)
3 columns (maximum 400)

PTOTVAL_RC1 3 of 3 responses

Rows (2)
8 rows (maximum 2000)

A_AGE_RC1 2 of 2 responses

A_HGA_RC1 4 of 4 responses

Not on table (1)
(may restrict the sample universe)

A_HGA 17 of 17 responses

Table Preview

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

Values in table cells:

Count

Show Total

Universe: default universe (usually US)

	Total persons income recode (PTOTVAL RC1)			
Demographics, Educational attainment recode (A_HGA RC1)	Total	Under \$50,000	\$50,000-\$149,999	\$150,000 or more
▼ ??? (8)	0	0	0	0
▼ Under 18 years (4)	0	0	0	0
Less than high school ...	???	???	???	???
High school grad	???	???	???	???
Some college or assoc...	???	???	???	???
Bachelor's degree or ...	???	???	???	???
▼ 18 years and over (4)	0	0	0	0
Less than high school ...	???	???	???	???
High school grad	???	???	???	???
Some college or assoc...	???	???	???	???
Bachelor's degree or ...	???	???	???	???

Dataset: CPS Annual Social and Economic (March) Supplement (202203) [CHANGE](#)

VIEW TABLE

■ View Table:

Note that the site automatically chooses a weight for you. You do have the option to change the weight if you want.

Custom Table

Dataset: CPS Annual Social and Economic (March) Supplement [CHANGE DATASET](#)

Vintage: MAR 2022

Geography: 0 geographies selected [CHANGE GEOGRAPHY](#)

Weighting: Weight, March supplement - Person

[CUSTOMIZE VARIABLES](#)

[DOWNLOAD / SHARE](#)

[DETAILS](#)

On Columns

PTOTVAL_RC1

Not on Table

A_HGA

On Rows

A_AGE_RC1 **A_HGA_RC1**

"Values in table cells" Options

A_AGE **PTOTVAL**

Values in table cells:

Count

Universe: default universe (usually US)

☒ Show Total

	Total persons income recode (PTOTVAL RC1)			
Demographics, Educational attainment recode (A_HGA_RC1)	Total	Under \$50,000	\$50,000-\$149,999	\$150,000 or more
▼ Total (8)	328,721,882	236,014,065	77,286,948	15,420,869
▼ Total Under 18 years (4)	73,466,921	73,376,314	64,469	26,138
Less than high school grad	72,940,718	72,883,143	38,347	19,228
High school grad	294,234	279,604	14,231	399
Some college or associate's degree	164,367	161,058	3,309	0
Bachelor's degree or higher	67,602	52,509	8,582	6,511
▼ Total 18 years and over (4)	255,254,961	162,637,751	77,222,479	15,394,731
Less than high school grad	24,392,214	22,372,375	1,892,129	127,710
High school grad	74,530,005	58,455,277	14,906,729	1,167,999
Some college or associate's degree	67,486,408	46,960,592	18,819,662	1,706,154
Bachelor's degree or higher	88,846,334	34,849,507	41,603,959	12,392,868

Send Feedback

census.data@census.gov

Demo

Example 2:

Language spoken at home by age in California

Table B16002 – Detailed Household Language

American Community Survey

B16002 | DETAILED HOUSEHOLD LANGUAGE BY HOUSEHOLD LIMITED ENGLISH SPEAKING STATUS

2021: ACS 1-Year Estimates Detailed Tables | Universe: Households

Notes | Geos | Years | **Topics** | Surveys | Codes | Hide | Transpose | **Margin of Error** | Restore | Excel | CSV | ZIP | Print | Map

	United States	
Label	Estimate	Margin of Error
▼ Total:	127,544,730	±97,632
English only	98,882,049	±112,843
▼ Spanish:	16,323,914	±47,225
Limited English speaking household	3,125,459	±32,825
Not a limited English speaking household	13,198,455	±52,545
▼ French, Haitian, or Cajun:	1,097,937	±18,239
Limited English speaking household	132,823	±8,149
Not a limited English speaking household	965,114	±19,202
▼ German or other West Germanic languages:	789,314	±13,862
Limited English speaking household	53,596	±4,060
Not a limited English speaking household	735,718	±13,453
▼ Russian, Polish, or other Slavic languages:	1,130,147	±18,251
Limited English speaking household	269,419	±8,265
Not a limited English speaking household	860,728	±18,848
▼ Other Indo-European languages:	2,769,733	±30,307
Limited English speaking household	372,776	±11,574
Not a limited English speaking household	2,396,957	±29,024

Annually released prefabricated ACS tables provide data about detailed language spoken at home, but what if we want this data by age?

- Visit Microdata Access at data.census.gov/mdat

The screenshot shows a web browser window with the URL data.census.gov/mdat/#/ in the address bar. The page header features the United States Census Bureau logo and the text "Explore Data". The main heading is "Select a Dataset & Vintage". Below this, there are two selection fields: "Select Dataset" and "Select Vintage". The "Select Dataset" field is currently set to "ACS 1-Year Estimates Public Use Microdata Sample" with the code "ACSPUMS1Y" below it. The "Select Vintage" field is currently set to "2019" with "2019" listed 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 "census.data@census.gov".

United States Census Bureau

Explore Data

Select a Dataset & Vintage

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

Select Vintage 2019
2019

NEXT

Send Feedback
census.data@census.gov

- Choose Dataset and Vintage:
 - Dataset – ACS 1-Year Estimates – Public Use Microdata Sample
 - Vintage – 2019
 - Click **Next** in the lower right

Select a Dataset & Vintage

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

Select Vintage 2019 ▼
2019

NEXT

- **Search for Variables:** Use the search box below “Variable” or “Label” to find your variables of interest

BETA

Explore Data/ Microdata/ Custom Table

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (0) TABLE LAYOUT DOWNLOAD

filter by Topic

Search is not enabled in this beta version

SEARCH

Showing 216 of 510 Variables Select at least one variable to start

	Variable	Label	Number of Values	Type	
				(3) Edited Items, Estimate, Recodes	
<input type="checkbox"/>	AGEP	Age	2	Estimate	DETAILS
<input type="checkbox"/>	ANC	Ancestry categorization	5	Edited Items	DETAILS
<input type="checkbox"/>	DRIVESP	Number of vehicles calculated from JWRI	7	Estimate	DETAILS
<input type="checkbox"/>	FES	Family type and employment status	9	Estimate	DETAILS
<input type="checkbox"/>	FPARC	Presence, age of related children	5	Recodes	DETAILS
<input type="checkbox"/>	GRPIP	Gross rent as a percentage of household income past 12 mon...	3	Estimate	DETAILS
<input type="checkbox"/>	HISP	Hispanic recode	24	Recodes	DETAILS
<input type="checkbox"/>	JWAP	Time of arrival at work categorization	286	Edited Items	DETAILS
<input type="checkbox"/>	JWDP	Time of departure for work - hour and minute	151	Estimate	DETAILS
<input type="checkbox"/>	JWMNP	Travel time to work	2	Estimate	DETAILS
<input type="checkbox"/>	IWRID	Vehicle occupancy	11	Estimate	DETAILS

Dataset: ACS 1-Year Estimates-Public Use Microdata Sample (2019) CHANGE VIEW TABLE

- Select variable for Language Spoken at Home:
 - Type “LANP” in the Variable search box or type “language” in the label search box
 - Check the box to the left of LANP to add the variable to data cart

filter by Topic

Search is not enabled in this beta version

SEARCH

Showing 2 of 515 Variables

Selected: 1 variable (1 column, 131 rows)

	Variable	Label	Number of Values	Type
<input type="checkbox"/>	lanp	language		(3) Edited Items, Estimate, Recodes
<input type="checkbox"/>	HHLANP	Detailed household language	132	Estimate
<input checked="" type="checkbox"/>	LANP	Language spoken at home	131	Estimate

Details

Details

Description:

Values:

- 999 -- N/A (GQ/vacant)
- 1000 -- Jamaican Creole English
- 1025 -- Other English-based Creole languages
- 1055 -- Haitian
- 1069 -- Kabuverdianu
- 1110 -- German

- **Select variable for Age:**
 - Type “AGEP” in the Variable search box or type “Age” in the label search box
 - Check the box to the left of AGEP to add the variable to your data cart
 - Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (You will do this action in the Data Cart)

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 (2) | TABLE LAYOUT | DOWNLOAD

filter by Topic Search is not enabled in this beta version **SEARCH**

Showing 1 of 515 Variables Selected: 2 variables (1 column, 131 rows)

	Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/>	agep	age	2	[3] Edited Items, Estimate, Recodes
	AGEP	Age	2	Estimate

Description:
Age

Values:

- 1 to 99 -- 1 to 99 years (Top-coded****)
- 00 -- Under 1 year

[^ DETAILS](#)

- **Select geography:**
 - Click the **SELECT GEOGRAPHIES** tab
 - Click **State** and check the box for **California**

The screenshot shows a web interface for selecting geographic areas. At the top, there are five tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (highlighted with a red box), 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs, on the left, is a 'GEOGRAPHIES' sidebar with options: 'Region', 'Division', 'State' (highlighted with a red box), and 'Public Use Microdata Area (PUMA)'. To the right of the sidebar is a list of states under the heading 'STATE'. The list includes: Alabama, Alaska, Arizona, Arkansas, California (checked with a blue checkmark and highlighted with a red box), Colorado, Connecticut, Delaware, District of Columbia, Florida, and Georgia. At the bottom of the interface, it says 'Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019)' with a 'CHANGE' link next to it. On the far right, there is a 'VIEW TABLE' button.

- **Categorize (recode) your variable:**
 - Move to the **Data Cart** tab
 - Click the **AGEP** variable on the left
 - Click **Create Custom Group** to begin specifying your age groups (e.g. Under 18 years and 18 years and over)

The screenshot shows the 'DATA CART (2)' tab in the United States Census Bureau Data Cart interface. On the left, under 'Selected Variables (2)', the 'AGEP' variable is listed with '2 of 2 responses' and is highlighted with a red box. Below it is the 'LANP' variable with '131 of 131 responses'. On the right, the 'Age (AGEP)' section is expanded, showing a '+ CREATE CUSTOM GROUP' button highlighted with a red box. Below this button is a table with columns 'Include in Universe', 'Response Label', and 'Value'. The first row shows '1 to 99 years (Top-coded***)' with a value range from 1 to 99, indicated by a slider.

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

- **Categorize (recode) your variable:**
 - Your first category, Under 18 years, appears just below “Not Elsewhere Classified”
 - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category

The screenshot displays the 'DATA CART (3)' tab in the Census Bureau's data tool. On the left, a 'Selected Variables (3)' panel lists 'AGEP' (2 of 2 responses), 'LANP' (131 of 131 responses), and 'AGEP_RC1' (2 of 2 responses). The 'AGEP_RC1' variable is highlighted with an orange bar. On the right, the 'Age recode' section shows two categories: 'Not Elsewhere Classified' (VALUES: 18:99) and 'Under 18 years' (VALUES: 1:17, 00). The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red rectangle. An 'AUTO GROUP' button is also visible at the top right of the recode section.

- **Categorize (recode) your variable:**
 - Click into **Group label** and type a label for the last category you want to create (e.g. 18 years and over)
 - Check the box next to the response category for this code (18:99)
 - Click **Save Group**

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

Selected Variables (3)

AGEP
2 of 2 responses

LANP
131 of 131 responses

AGEP_RC1
2 of 2 responses

Age recode

18 years and over Show on table

Group Label
18 years and over

17 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 18 and 99	18 ————— 99

CANCEL **SAVE GROUP**

Under 18 years
VALUES: 1:17, 00 EDIT GROUP

- View variable placement in the default table layout:
 - Move to the **Table Layout** tab
 - **Columns/Rows – Variables will be shown in the table.** By default, the table is providing the average age for the language spoken at home in the rows.

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

Custom Table

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

AGEP 2 of 2 responses

Columns (0)
columns (maximum 400)

Rows (2)
131 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

LANP 131 of 131 responses

Not on table (1)
(may restrict the sample universe)

AGEP_RC1 2 of 2 responses

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

Language spoken at home (LANP)	
California (131)	0
N/A (GQ/vacant)	???
Jamaican Creole English	???
Other English-based Creole languages	???
Haitian	???
Kabuverdianu	???
German	???
Swiss German	???
Pennsylvania German	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#)

VIEW TABLE

- Edit Table Layout:
 - Move Age Recode to Columns:
 - Click, hold and drag **AGEP_RC1** on the left side of the page up to the columns heading. This will give you a table layout with the different languages as the rows and the age categories as the columns

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (3)TABLE LAYOUTDOWNLOAD

Custom Table

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

AGEP2 of 2 responses

Columns (0)
columns (maximum 400)

Rows (2)
131 rows (maximum 2000)

SELECTED GEOGRAPHIES1 of 1 responses

LANP131 of 131 responses

Not on table (1)
(may restrict the sample universe)

AGEP_RC12 of 2 responses

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

Language spoken at home (LANP)	
California (131)	0
N/A (GQ/vacant)	???
Jamaican Creole English	???
Other English-based Creole languages	???
Haitian	???
Kabuverdianu	???
German	???
Swiss German	???
Pennsylvania German	???
...	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019)CHANGE

VIEW TABLE

census
Bureau

49

- Choose type of values in table cells
 - Change the “Value in table cells” option from Average of Age (AGEP) to **Count**. This will give you data for the total number of people within the requested categories in California

United States **Census** Bureau BETA

Explore Data/ Microdata/ Custom Table

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (3)TABLE LAYOUTDOWNLOAD

Custom Table

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

AGEP2 of 2 responses

Columns (1)
2 columns (maximum 400)

AGEP_RC12 of 2 responses

Rows (2)
131 rows (maximum 2000)

SELECTED GEOGRAPHIES1 of 1 responses

LANP131 of 131 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

Average of Age (AGEP)

Universe: selected geographies: California

Language spoken at home (LANP)	Under 18 years	18 years and over
California (131)		
N/A (GQ/vacant)	???	???
Jamaican Creole English	???	???
Other English-based Cre...	???	???
Haitian	???	???
Kabuverdianu	???	???
German	???	???
Swiss German	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019)CHANGE

VIEW TABLE

- Confirm Table Layout:
 - Confirm table layout and click **View Table** in the lower right

United States **BETA**
Census Bureau

Explore Data/ Microdata/ Custom Table

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (3)TABLE LAYOUTDOWNLOAD

Custom Table

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

AGEP2 of 2 responses

Columns (1)
2 columns (maximum 400)

AGEP_RC12 of 2 responses

Rows (2)
131 rows (maximum 2000)

SELECTED GEOGRAPHIES1 of 1 responses

LANP131 of 131 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

Show Total

	Age recode (AGEP_RC1)		
Language spoken at home (LANP)	Total	Under 18 years	18 years and over
▼ ??? (131)	0	0	0
▼ California (131)	0	0	0
N/A (GQ/vacant)	???	???	???
Jamaican Creole English	???	???	???
Other English-based C...	???	???	???
Haitian	???	???	???
Kabuverdianu	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019)CHANGE

VIEW TABLE

■ View Table

Note that the site automatically chooses a weight for you. You do have the option to change the weight if you want.

United States BETA
Census Bureau

Explore Data / Microdata / Custom Table

Custom Table

CUSTOMIZE VARIABLES DOWNLOAD / SHARE DETAILS ▾

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

Geography: 1 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2019 ▾

Weighting: PUMS person weight ▾

On Columns

On Rows

AGEP_RC1

Selected Geographies LANP

Not on Table

"Values in table cells" Options

AGEP

Values in table cells:

Count ▾

Universe: selected geographies: California

Show Total

	Age recode (AGEP_RC1)		
Language spoken at home (LANP)	Total	Under 18 years	18 years and over
▼ Total (131)	39,512,223	8,879,864	30,632,359
▼ Total California (131)	39,512,223	8,879,864	30,632,359
N/A (GQ/vacant)	23,010,385	6,067,459	16,942,926
Send Feedback census.data@census.gov Help English	2,693	177	2,516

■ Sort Table:

- Click the column header to sort the column in ascending or descending order

Language spoken at home (LANP)	Age recode (AGEP_RC1)		
	Total	Under 18 years	18 years and over ↓
▼ Total (131)	39,512,223	8,879,864	30,632,359
▼ Total California (131)	39,512,223	8,879,864	30,632,359
N/A (GQ/vacant)	23,010,385	6,067,459	16,942,926
Spanish	10,687,165	2,172,365	8,514,800
Tagalog	688,992	33,685	655,307
Chinese	657,532	74,173	583,359
Vietnamese	586,971	74,574	512,397
Korean	357,637	36,675	320,962
Mandarin	333,586	40,426	293,160
Cantonese	266,669	20,857	245,812
Farsi	211,210	21,159	190,051
Hindi	202,772	20,452	182,320
Armenian	194,676	23,616	171,060
Arabic	189,483	30,441	159,042
Russian	164,524	23,385	141,139
Punjabi	143,465	19,648	123,817

- Download:
 - Click Download/Share at the top of the table

United States **BETA**
Census Bureau

Explore Data/ Microdata/ Custom Table

Custom Table

CUSTOMIZE VARIABLES

DOWNLOAD / SHARE

DETAILS ▾

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

Geography: 1 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2019 ▾

Weighting: PUMS person weight ▾

On Columns

On Rows

AGEP_RC1

Selected Geographies LANP

Not on Table

"Values in table cells" Options

AGEP

Values in table cells:

Count ▾

Universe: selected geographies: California

Show Total

	Age recode (AGEP_RC1)		
Language spoken at home (LANP)	Total	Under 18 years	18 years and over ▾
▼ Total (131)	39,512,223	8,879,864	30,632,359
▼ Total California (131)	39,512,223	8,879,864	30,632,359
N/A (GQ/vacant)	23,010,385	6,067,459	16,942,926
Send Feedback census.data@census.gov	10,687,165	2,172,365	8,514,800

- Download:
 - Select Download table view (.CSV), then click **DOWNLOAD**
 - Click on **export.csv** to view your downloaded table

	A	B	C	D	E	F	G	H
1	Source: ACS 1-Year Estimates Public Use Microdata Sample 2019							
2	Weight used: PWGTP							
3	Universe: selected geographies: California							
4	Age recode (AGEP_RC1)							
5	Language	Total	Under 18	18 years and over				
6	-> Total	39512223	8879864	30632359				
7	-> Total ->	39512223	8879864	30632359				
8	N/A (GQ/)	23010385	6067459	16942926				
9	Spanish	10687165	2172365	8514800				
10	Tagalog	688992	33685	655307				
11	Chinese	657532	74173	583359				
12	Vietnamese	586971	74574	512397				
13	Korean	357637	36675	320962				
14	Mandarin	333586	40426	293160				
15	Cantonese	266669	20857	245812				
16	Farsi	211210	21159	190051				
17	Hindi	202772	20452	182320				
18	Armenian	194676	23616	171060				
19	Arabic	189483	30441	159042				
20	Russian	164524	23385	141139				

United States **BETA**
Census Bureau

Explore Data/ Microdata/ Custom Table

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

☒ Download table view (.CSV)

☐ Extract raw data (.CSV)
☐ Extract raw data (.JSON)

Include:
☒ * PUMS person weight
☐ Housing Unit 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=ACSPUMS1Y2019&vv=AGEP&cv=AGEP_RC1&rv=ucgid,LANP&wt=PWGTP&g=0400000US06&AGEP_RC1=%7B%22S%22%3A%22Age%20recode%22%2C%22R%22%3A%22AGEF

COPY BOOKMARK

Query to extract PUMS records for your current selections from the Census Data API.
https://api.census.gov/data/2019/acs/acs1/pums?get=PWGTP,AGEP,AGEP_RC1,LANP&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22%22AGEP%22,%22d%22%5B%5B%7B%22mn%22%221%22,%22mx%22%22

COPY API GET QUERY

Query to extract tabular (aggregated) for your current selections from the Census Data API.
[https://api.census.gov/data/2019/acs/acs1/pums?tabulate=weight\(PWGTP\)&col+AGEP_RC1&row+ucgid&row+LANP&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22%22AGEP%22,%22d%22%5B%5B%7B%22mn%22%221%22,%22mx%22%22](https://api.census.gov/data/2019/acs/acs1/pums?tabulate=weight(PWGTP)&col+AGEP_RC1&row+ucgid&row+LANP&ucgid=0400000US06&recode+AGEP_RC1=%7B%22b%22%22AGEP%22,%22d%22%5B%5B%7B%22mn%22%221%22,%22mx%22%22)

COPY API TABULATE QUERY

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#)

VIEW TABLE

Demo

Example 3:

Poverty by age for Tulare County PUMAs

Table B17024 – Age by Ratio of Income to Poverty Level in the Past 12 Months

American Community Survey

B17024 | AGE BY RATIO OF INCOME TO POVERTY LEVEL IN THE PAST 12 MONTHS

2021: ACS 1-Year Estimates Detailed Tables | Universe: Population for whom poverty status is determined

Notes

Geos

Years

Topics

Surveys

Codes

Hide

Transpose

Margin of Error

Restore

Excel

CSV

ZIP

	United States	
Label	Estimate	Margin of Error
▼ Total:	324,173,084	±30,338
▼ Under 6 years:	22,166,651	±37,594
Under .50	2,031,903	±42,912
.50 to .74	915,072	±24,561
.75 to .99	1,085,082	±28,749
1.00 to 1.24	1,139,731	±29,335
1.25 to 1.49	1,182,569	±28,028
1.50 to 1.74	1,112,518	±26,338
1.75 to 1.84	390,199	±15,099
1.85 to 1.99	692,051	±21,200
2.00 to 2.99	3,735,110	±42,988
3.00 to 3.99	2,851,643	±39,374
4.00 to 4.99	2,015,879	±34,079
5.00 and over	5,014,894	±48,044
▼ 6 to 11 years:	24,000,745	±39,105

Tabulated ACS tables in data.census.gov provide ratios of income to poverty level by age, but what if we need it for a different ratio of income to poverty not provided, such as 2.50 and above?

- Visit Microdata Access at data.census.gov/mdat

The screenshot shows a web browser window with the URL data.census.gov/mdat/#/ in the address bar. The page header features the United States Census Bureau logo and the text "Explore Data". The main heading is "Select a Dataset & Vintage". Below this, there are two selection fields: "Select Dataset" and "Select Vintage". The "Select Dataset" field is currently set to "ACS 1-Year Estimates Public Use Microdata Sample" with the code "ACSPUMS1Y" below it. The "Select Vintage" field is currently set to "2019" with "2019" listed 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 census.data@census.gov.

- Choose Dataset and Vintage:
 - Dataset – ACS 1-Year Estimates – Public Use Microdata Sample
 - Vintage – 2019
 - Click **Next** in the lower right

Select a Dataset & Vintage

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

Select Vintage 2019 ▼
2019

NEXT

- **Search for Variables** – Use the search box below “Variable” or “Label” to find your variables of interest

BETA

Explore Data/ Microdata/ Custom Table

SELECT VARIABLES | SELECT GEOGRAPHIES | DATA CART (0) | TABLE LAYOUT | DOWNLOAD

filter by Topic Search is not enabled in this beta version **SEARCH**

Showing 216 of 510 Variables Select at least one variable to start

	Variable	Label	Number of Values	Type	
<input type="checkbox"/>	AGEP	Age	2	Estimate	▼ DETAILS
<input type="checkbox"/>	ANC	Ancestry categorization	5	Edited Items	▼ DETAILS
<input type="checkbox"/>	DRIVESP	Number of vehicles calculated from JWRI	7	Estimate	▼ DETAILS
<input type="checkbox"/>	FES	Family type and employment status	9	Estimate	▼ DETAILS
<input type="checkbox"/>	FPARC	Presence, age of related children	5	Recodes	▼ DETAILS
<input type="checkbox"/>	GRPIP	Gross rent as a percentage of household income pa...	3	Estimate	▼ DETAILS
<input type="checkbox"/>	HISP	Hispanic recode	24	Recodes	▼ DETAILS
<input type="checkbox"/>	JWAP	Time of arrival at work categorization	286	Edited Items	▼ DETAILS
<input type="checkbox"/>	JWDP	Time of departure for work - hour and minute	151	Estimate	▼ DETAILS
<input type="checkbox"/>	JWMNP	Travel time to work	2	Estimate	▼ DETAILS

Dataset: ACS 1-Year Estimates-Public Use Microdata Sample (2019) [CHANGE](#) **VIEW TABLE**

■ Select variable for Income-to-poverty Ratio:

- Type “POVPIP” in the Variable search box or type “poverty” in the label search box
- Check the box to the left of POVPIP to add the variable to your data cart
- Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (You will do this action in the Data Cart)

The screenshot displays the 'SELECT VARIABLES' tab in the Census Bureau Data Cart. At the top, an orange banner with a red border contains a warning: "This variable is continuous and can only go to 'Values in table cells'. Create a group (recode) to use elsewhere. 'Income-to-poverty ratio recode (POVPIP)'". Below this, the interface shows a search bar with 'filter by Topic' and a 'SEARCH' button. A message states "Search is not enabled in this beta version". The variable list shows "Showing 1 of 515 Variables". The selected variable is "POVPIP" with the label "Income-to-poverty ratio recode". The variable type is "Recodes" and it has 3 values. A red box highlights the checkbox next to the variable name. Another red box highlights the "DETAILS" link. A red arrow points from the "DETAILS" link to the "Values" section, which lists: "0 to 500 -- Below 501 percent", "-1 -- N/A", and "501 -- 501 percent or more".

This variable is continuous and can only go to "Values in table cells". Create a group (recode) to use elsewhere. "Income-to-poverty ratio recode (POVPIP)"

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (1) TABLE LAYOUT DOWNLOAD

filter by Topic Search is not enabled in this beta version SEARCH

Showing 1 of 515 Variables Selected: 1 variable (1 column, 1 row)

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/> POVPIP	Income-to-poverty ratio recode	3	Recodes

Description: Income-to-poverty ratio recode

Values:

- 0 to 500 -- Below 501 percent
- 1 -- N/A
- 501 -- 501 percent or more

DETAILS

- **Select variable for Age:**
 - Type “AGEP” in the Variable search box or type “Age” in the label search box
 - Check the box to the left of AGEP to add the variable to your data cart
 - Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (You will do this action in the Data Cart)

This variable is continuous but another is already determining cell values; use the "Values in table cells" drop-down to switch. "Age (AGEP)"

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (2)TABLE LAYOUTDOWNLOAD

filter by Topic

Search is not enabled in this beta version

SEARCH

Showing 1 of 515 Variables

Selected: 2 variables (1 column, 1 row)

	Variable	Label	Number of Values	Type	
<input checked="" type="checkbox"/>	agep	age	2	(3) Edited Items, Estimate, Recodes	
	AGEP	Age		Estimate	^ DETAILS

Description:
Age

Values:

- 1 to 99 -- 1 to 99 years (Top-coded***)
- 00 -- Under 1 year

- **Select geography:**
 - Click the **SELECT GEOGRAPHIES** tab
 - Click **Public Use Microdata Area (PUMA)** and click on **California**
 - Check the boxes for the three **Tulare County PUMAs**

The screenshot shows the 'SELECT GEOGRAPHIES' tab in a web application. On the left, under 'GEOGRAPHIES', the 'Public Use Microdata Area (PUMA)' option is selected. In the center, under 'PUBLIC USE MICRODATA AREA (PUMA) (STATE)', 'California' is selected. On the right, under 'CALIFORNIA', three PUMAs are checked: 'Tulare County (Northwest)--Visalia City PUMA, California', 'Tulare County (West Central)--Tulare & Porterville Cities PUMA, California', and 'Tulare County (Outside Visalia, Tulare & Porterville Cities) PUMA; California'. Below these selections, three tags are visible: 'Tulare County (Northwest)--Visalia City PU...', 'Tulare County (West Central)--Tulare & Port...', and 'Tulare County (Outside Visalia, Tulare & Por...'. At the bottom, the dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2019)' and a 'VIEW TABLE' button is present.

Note that there is currently no way to combine PUMAs into a single geography.

There are also no options for selecting collections of PUMAs (for example, a one-click selection for all of the PUMAs in any given county). If you frequently use these same collections of PUMAs (or other geographies), add them to a search and save the URL. You can then use this same URL for future searches; your geographies will already be there and you can add or remove variables as needed.

- Categorize (recode) your age variable:
 - Click the **Data Cart** tab
 - Click the **AGEP** variable on the left
 - Click **Create Custom Group** to begin specifying your age categories (e.g. Under 18 years, 18-24 years, etc.)

The screenshot shows the 'DATA CART (2)' tab selected in the top navigation bar. On the left, under 'Selected Variables (2)', the 'AGEP' variable is listed with '2 of 2 responses' and a trash icon. On the right, the 'Age (AGEP)' section is expanded, showing a '+ CREATE CUSTOM GROUP' button. Below this is a table with columns 'Include in Universe', 'Response Label', and 'Value'. The table contains three rows: '1 to 99 years (Top-coded***)' with a value of 1, 'Under 1 year' with a value of 00, and a third row with a value of 99. A slider is visible between the values 1 and 99.

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

- Categorize (recode) your age variable:
 - Click into **Group label** and type a label for the first category you want to create (e.g. Under 18 years)
 - Check the box next to **Under 1 Year**
 - Check the box next to **1 to 99 years** and change the end age range from 99 to **17**
 - Click **Save Group**

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (3)TABLE LAYOUTDOWNLOAD

Selected Variables (3)

AGEP
2 of 2 responses

POVPIP
3 of 3 responses

AGEP_RC1
1 of 1 responses

Age recode

AUTO GROUP

Under 18 years

Show on table

Group Label

Under 18 years

14 / 60

☒ Add to Group

Response Label

Value

☒

1 to 99 years (Top-coded****)

117

☒

Under 1 year

00

CANCEL

SAVE GROUP

- **Categorize (recode) your variable:**
 - Your first category, Under 18 years, appears just below “Not Elsewhere Classified”
 - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category

The screenshot displays the 'DATA CART (3)' tab in a software interface. On the left, a panel titled 'Selected Variables (3)' lists three variables: AGEP (2 of 2 responses), POVPI (3 of 3 responses), and AGEP_RC1 (2 of 2 responses). The main area is titled 'Age recode' and shows two categories: 'Not Elsewhere Classified' with values 18:99, and 'Under 18 years' with values 1:17,00. Each category has an 'EDIT GROUP' button. The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red rectangle. An 'AUTO GROUP' button is also visible in the top right corner of the main area.

- **Categorize (recode) your variable:**
 - Click into **Group label** and type a label for the next category you want to create (e.g. 18-24 years)
 - Check the box next to the response category for this code (18:99)
 - Edit the end range of age from 99 to **24** and click **Save Group**

The screenshot shows the 'Data Cart (3)' interface with the following components:

- Selected Variables (3):**
 - AGEP (2 of 2 responses)
 - POVPI (3 of 3 responses)
 - AGEP_RC1 (2 of 2 responses)
- Age recode panel:**
 - 18-24 years** group header with a 'Show on table' toggle.
 - Group Label:** A text field containing '18-24 years'.
 - Add to Group:** A table with a checked checkbox for the 'Between 18 and 99' response.
 - Value Range:** A slider showing the range from 18 to 24.
 - Buttons:** 'CANCEL' and 'SAVE GROUP' (highlighted with a red box).
- Under 18 years** group header with an 'EDIT GROUP' button.

- Categorize (recode) your age variable:
 - Click into **Auto Group** in the upper right and select **Between 25 and 99**

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

Selected Variables (3)

- AGEP**
2 of 2 responses
- POVPIP**
3 of 3 responses
- AGEP_RC1**
3 of 3 responses

Age recode

- Not Elsewhere Classified**
VALUES: 25:99
- Under 18 years**
VALUES: 1:17, 00
- 18-24 years**
VALUES: 18:24

AUTO GROUP

- Between 25 and 99**
- 1 to 99 years (Top-coded***)
- Between 18 and 99

EDIT GROUP

- Categorize (recode) your age variable:
 - In the pop-up box, edit the “Groups of” from 1 to **10** to get the remaining ages broken into groups of 10
 - Click **Auto Group**

The screenshot shows the 'DATA CART (3)' tab in a software interface. On the left, under 'Selected Variables (3)', are 'AGEP' (2 of 2 responses), 'POVPIP' (3 of 3 responses), and 'AGEP_RC1' (3 of 3 responses). The 'AGEP_RC1' variable is highlighted. In the center, a modal dialog titled 'Auto Group Variable' is open. It contains three input fields: 'Start' with the value '25', 'End' with the value '99', and 'Groups of:' with the value '10'. The 'Groups of:' field is highlighted with a red border. At the bottom of the dialog are 'CANCEL' and 'AUTO GROUP' buttons, with the 'AUTO GROUP' button also highlighted with a red border. In the background, on the right, there are buttons for 'AUTO GROUP' and 'EDIT GROUP' for each variable in the cart.

- Categorize (recode) your age variable:
 - You have now created categories for ages 25 to 99 in groups of 10 years (the exception being Between 95 and 99)

 Age recode

AUTO GROUP

Under 18 years VALUES: 1:17, 00	EDIT GROUP
18-24 years VALUES: 18:24	EDIT GROUP
Between 25 and 34 VALUES: 25:34	EDIT GROUP
Between 35 and 44 VALUES: 35:44	EDIT GROUP
Between 45 and 54 VALUES: 45:54	EDIT GROUP
Between 55 and 64 VALUES: 55:64	EDIT GROUP
Between 65 and 74 VALUES: 65:74	EDIT GROUP
Between 75 and 84 VALUES: 75:84	EDIT GROUP
Between 85 and 94 VALUES: 85:94	EDIT GROUP
Between 95 and 99 VALUES: 95:99	EDIT GROUP

- Categorize (recode) your income-to-poverty ratio (IPR) variable:
 - Click the **POVPIP** variable on the left
 - Click **Create Custom Group** to begin specifying your IPR categories (e.g. Below 250% of poverty and At or above 250% of poverty)

The screenshot displays the 'DATA CART (3)' tab of a data tool. On the left, under 'Selected Variables (3)', the variable 'POVPIP' (3 of 3 responses) is highlighted with a red box. On the right, the 'Income-to-poverty ratio recode (POVPIP)' section is shown. A red box highlights the '+ CREATE CUSTOM GROUP' button. Below this, a table lists the recoding rules:

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	Below 501 percent	0 ————— 500
<input checked="" type="checkbox"/>	N/A	-1

- Categorize (recode) your income-to-poverty ratio (IPR) variable:
 - Click into **Group label** and type a label for the first category you want to create (e.g. Not in universe)
 - Check the box next to **N/A**
 - Click **Save Group**

SELECT VARIABLES
SELECT GEOGRAPHIES
DATA CART (4)
TABLE LAYOUT
DOWNLOAD

Selected Variables (4)

AGEP
2 of 2 responses

POVPIP
3 of 3 responses

POVPIP_RC1
1 of 1 responses

AGEP_RC1
10 of 10 responses

Income-to-poverty ratio recode recode

AUTO GROUP

Not in universe

Group Label

Not in universe

15 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input type="checkbox"/>	Below 501 percent	0 <input type="range"/> 500
<input checked="" type="checkbox"/>	N/A	-1
<input type="checkbox"/>	501 percent or more	501

CANCEL

SAVE GROUP

Show on table

- Categorize (recode) your income-to-poverty ratio (IPR) variable :
 - Your first category, Not in universe, appears just below “Not Elsewhere Classified”
 - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category

The screenshot displays the 'DATA CART (4)' tab in a software interface. On the left, a list of 'Selected Variables (4)' includes AGEP (2 of 2 responses), POVPIP (3 of 3 responses), POVPIP_RC1 (2 of 2 responses), and AGEP_RC1 (10 of 10 responses). On the right, the 'Income-to-poverty ratio recode recode' section shows two categories: 'Not Elsewhere Classified' (VALUES: 0:500, 501) and 'Not in universe' (VALUES: -1). The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red rectangle. Other buttons visible include 'AUTO GROUP' and another 'EDIT GROUP' for the 'Not in universe' category.

- Categorize (recode) your income-to-poverty ratio (IPR) variable :
 - Click into **Group label** and type a label for the next category you want to create (e.g. Below 250% of poverty)
 - Check the box next to the response category for this code (Below 501 percent)
 - Edit the end range of age from 500 to **249** and click **Save Group**

The screenshot shows the 'Income-to-poverty ratio recode recode' dialog in the Data Cart. The 'Group Label' field is highlighted with a red box and contains the text 'Below 250% of poverty'. Below this is a table with two rows: 'Below 501 percent' and '501 percent or more'. The 'Below 501 percent' row has a checked checkbox, and the '501 percent or more' row has an unchecked checkbox. A range slider is positioned below the table, with the start value at 0 and the end value at 249, both highlighted with red boxes. The 'Add to Group' button is also highlighted with a red box. At the bottom right, the 'SAVE GROUP' button is highlighted with a red box. The 'CANCEL' button is also visible. The 'Not in universe' section at the bottom shows 'VALUES: -1' and an 'EDIT GROUP' button.

SELECT VARIABLES SELECT GEOGRAPHIES **DATA CART (4)** TABLE LAYOUT DOWNLOAD

Selected Variables (4)

- AGEP**
2 of 2 responses
- POVPIP**
3 of 3 responses
- POVPIP_RC1**
2 of 2 responses
- AGEP_RC1**
10 of 10 responses

Income-to-poverty ratio recode recode **AUTO GROUP**

Below 250% of poverty ☒ Show on table

Group Label
Below 250% of poverty

21 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Below 501 percent	0 ————— 249
<input type="checkbox"/>	501 percent or more	501

CANCEL **SAVE GROUP**

Not in universe
VALUES: -1 **EDIT GROUP**

- Categorize (recode) your income-to-poverty ratio (IPR) variable :
 - The two categories you created appear just below “Not Elsewhere Classified”
 - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category

The screenshot displays the 'DATA CART (4)' tab in a software interface. On the left, a list of 'Selected Variables (4)' includes AGEP, POVPIP, POVPIP_RC1, and AGEP_RC1. The main area shows the 'Income-to-poverty ratio recode recode' section with three categories: 'Not Elsewhere Classified' (VALUES: 250:500, 501), 'Not in universe' (VALUES: -1), and 'Below 250% of poverty' (VALUES: 0:249). Each category has an 'EDIT GROUP' button. The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red rectangle. An 'AUTO GROUP' button is also present at the top right of the recode section.

Category	Values	Action
Not Elsewhere Classified	250:500, 501	EDIT GROUP
Not in universe	-1	EDIT GROUP
Below 250% of poverty	0:249	EDIT GROUP

- **Categorize (recode) your income-to-poverty ratio (IPR) variable :**
 - Click into **Group label** and type a label for the last category you want to create (e.g. At or above 250% of poverty)
 - Check the box next to the response category of Between 250 and 500
 - Check the box next to the response category of 501 percent or more
 - Click **Save Group**

SELECT VARIABLES
SELECT GEOGRAPHIES
DATA CART (4)
TABLE LAYOUT
DOWNLOAD

Selected Variables (4)

AGEP

2 of 2 responses

POVPIP

3 of 3 responses

POVPIP_RC1

3 of 3 responses

AGEP_RC1

10 of 10 responses

Income-to-poverty ratio recode recode

AUTO GROUP

At or above 250% of poverty

Show on table

Group Label

At or above 250% of poverty

27 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 250 and 500	250
<input checked="" type="checkbox"/>	501 percent or more	501

CANCEL

SAVE GROUP

Not in universe

VALUES: -1

EDIT GROUP

- Confirm variable selections
 - Confirm variable selections and click the **Table Layout** tab

The screenshot displays the 'Table Layout' tab in a data tool interface. At the top, navigation tabs include 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (4)', 'TABLE LAYOUT' (highlighted with a red box), and 'DOWNLOAD'. On the left, a 'Selected Variables (4)' panel, also outlined in red, lists four variables: AGEP (2 of 2 responses), POVPIP (3 of 3 responses), POVPIP_RC1 (3 of 3 responses), and AGEP_RC1 (10 of 10 responses). Each variable has a trash icon to its right. The main area on the right is titled 'Income-to-poverty ratio recode recode' and features an 'AUTO GROUP' button. Below this title are three rows of data groups, each with an 'EDIT GROUP' button: 'Not in universe' (VALUES: -1), 'Below 250% of poverty' (VALUES: 0:249), and 'At or above 250% of poverty' (VALUES: 250:500, 501). At the bottom left, the dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2019)' with a 'CHANGE' link. A 'VIEW TABLE' button is located at the bottom right.

SELECT VARIABLES SELECT GEOGRAPHIES **DATA CART (4)** **TABLE LAYOUT** DOWNLOAD

Selected Variables (4)

- AGEP**
2 of 2 responses
- POVPIP**
3 of 3 responses
- POVPIP_RC1**
3 of 3 responses
- AGEP_RC1**
10 of 10 responses

Income-to-poverty ratio recode recode **AUTO GROUP**

- Not in universe**
VALUES: -1 **EDIT GROUP**
- Below 250% of poverty**
VALUES: 0:249 **EDIT GROUP**
- At or above 250% of poverty**
VALUES: 250:500, 501 **EDIT GROUP**

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) **CHANGE** **VIEW TABLE**

- View variable placement in the default table layout:
 - Values in table cells Options – When variables are shown here, you have more options to choose from in the drop down menu for “Values in table cells”
 - Columns/Rows – Variables will be shown in the table.
 - Not on Table – Can restrict the universe. By default, AGEP_RC1 and POVPIP_RC1 are not on the table, and they do not restrict the universe because the recodes include ages and IPRs for all people.

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (4) **TABLE LAYOUT** DOWNLOAD

Custom Table

"Values in table cells" Options (2)
Determines order in list; cannot move to row/column

AGEP 2 of 2 responses

POVPIP 3 of 3 responses

Columns (0)
columns (maximum 400)

Rows (1)
3 rows (maximum 2000)

SELECTED GEOGRAPHIES 3 of 3 responses

Not on table (2)
(may restrict the sample universe)

POVPIP_RC1 3 of 3 responses

AGEP_RC1 10 of 10 responses

Table Preview

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

Values in table cells:
Average of Income-to-poverty ratio recode (POVPIP)

Universe: selected geographies: Tulare County (Northwest)--..., Tulare County (West Central..., Tulare County (Outside Visa...

Selected Geographies

Tulare County (Northwest)--Visalia City PUMA, California	??
Tulare County (West Central)--Tulare & Porterville Cities PUMA, California	??
Tulare County (Outside Visalia, Tulare & Porterville Cities) PUMA; California	??

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#) [VIEW TABLE](#)

■ Edit Table Layout:

- **Move AGEP_RC1 to Rows:** Click on the variable and drag it to its new spot. This will add the age categories we created to our table rows
- **Move POVPIP_RC1 to Columns:** This will add the IPR categories we created to our table columns

United States **BETA**
Census
Bureau

Explore Data/ Microdata/ Custom Table

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (4) **TABLE LAYOUT** DOWNLOAD

Custom Table

"Values in table cells" Options (2)
Determines order in list; cannot move to row/column

AGEP 2 of 2 responses

POVPIP 3 of 3 responses

Columns (0)
columns (maximum 400)

Rows (1)
3 rows (maximum 2000)

SELECTED GEOGRAPHIES 3 of 3 responses

Not on table (2)
(may restrict the sample universe)

POVPIP_RC1 3 of 3 responses

AGEP_RC1 10 of 10 responses

Table Preview

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

Values in table cells: Average of Income-to-poverty ratio recode (POVPIP)

Universe: selected geographies: Tulare County (Northwest)---, Tulare County (West Central..., Tulare County (Outside Visa...

Selected Geographies	
Tulare County (Northwest)--Visalia City PUMA, California	??
Tulare County (West Central)--Tulare & Porterville Cities PUMA, California	??
Tulare County (Outside Visalia, Tulare & Porterville Cities) PUMA; California	??

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#) [VIEW TABLE](#)

- Choose type of values in table cells
 - Change the “Value in table cells” option from Average of Income-to-poverty ratio recode (POVPIP) to **Count** for data for the total number of people by age and IPR.

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (4)TABLE LAYOUTDOWNLOAD

Custom Table

"Values in table cells" Options (2)
Determines order in list; cannot move to row/column

AGEP2 of 2 responses

POVPIP3 of 3 responses

Columns (1)
3 columns (maximum 400)

POVPIP_RC13 of 3 responses

Rows (2)
30 rows (maximum 2000)

SELECTED GEOGRAPHIES3 of 3 responses

AGEP_RC110 of 10 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

Average of Age (AGEP)

Average of Income-to-poverty ratio recode (POVPIP)

Universe: selected geographies: Tulare County (Northwest)–..., Tulare County (West Central..., Tulare County (Outside Visa...

POVPIP_RC1)

Below 250% of povertyAt or above 250% of poverty

▼ Tulare County (Northwest...			
Under 18 years	???	???	???
18-24 years	???	???	???
Between 25 and 34	???	???	???
Between 35 and 44	???	???	???
Between 45 and 54	???	???	???
Between 55 and 64	???	???	???
Between 65 and 74	???	???	???
Between 75 and 84	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) CHANGE

VIEW TABLE

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Census
Bureau

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- **Confirm Table Layout:**
 - Confirm table layout and click **View Table** in the lower right

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (4)TABLE LAYOUTDOWNLOAD

Custom Table

"Values in table cells" Options (2)
Determines order in list; cannot move to row/column

AGEP

2 of 2 responses

POVPIP

3 of 3 responses

Columns (1)
3 columns (maximum 400)

POVPIP_RC1

3 of 3 responses

Rows (2)
30 rows (maximum 2000)

SELECTED GEOGRAPHIES

3 of 3 responses

AGEP_RC1

10 of 10 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

Show Total

	Income-to-poverty ratio recode recode (POVPIP_RC1)			
Age recode (AGEP_RC1)	Total	Not in universe	Below 250% of poverty	At or above 250% of poverty
▼ ??? (30)	0	0	0	0
▼ Tulare County (Northwe...	0	0	0	0
Under 18 years	???	???	???	???
18-24 years	???	???	???	???
Between 25 and 34	???	???	???	???
Between 35 and 44	???	???	???	???
Between 45 and 54	???	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019)CHANGE

VIEW TABLE

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Bureau

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■ View Table:

Note that the site automatically chooses a weight for you. You do have the option to change the weight if you want.

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Census
Bureau

Custom Table

CUSTOMIZE VARIABLES DOWNLOAD / SHARE DETAILS ▾

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

Geography: 3 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2019 ▾

Weighting: PUMS person weight ▾

On Columns

POVPIP_RC1

Not on Table

On Rows

Selected Geographies AGE_PRC1

"Values in table cells" Options

AGEP POVPIP

Values in table cells:

Count ▾

Universe: selected geographies: Tulare County (Northwest)--..., Tulare County (West Central..., Tulare County (Outside Visa...

Show Total

	Income-to-poverty ratio recode recode (POVPIP_RC1)			
Age recode (AGEP_RC1)	Total	Not in universe	Below 250% of poverty	At or above 250% of poverty
▼ Total (30)	466,107	6,221	252,025	207,861
▼ Total Tulare County (Northwest)--Visalia City PUMA, Ca...	149,093	3,616	68,605	76,872
Under 18 years	40,266	1,325	22,869	16,072
18-24 years	13,893	333	7,202	6,358
Between 25 and 34	24,402	673	9,992	13,737
Between 35 and 44	19,087	654	7,935	10,498
Send Feedback census.data@census.gov	17,691	269	6,253	11,169

Demo

Example 4:

Type of disability for the population 50 years and over in California

Table B18101 – Sex by Age by Disability Status

American Community Survey

B18101 | SEX BY AGE BY DISABILITY STATUS

2021: ACS 1-Year Estimates Detailed Tables | Universe: Civilian noninstitutionalized population

Notes | Geos | Years | **Topics** | Surveys | Codes | Hide | Transpose | **Margin of Error** | Restore

	United States	
Label	Estimate	Margin of Error
▼ Total:	326,912,547	±18,221
▼ Male:	160,634,821	±32,226
▼ Under 5 years:	9,551,038	±19,253
With a disability	70,974	±5,282
No disability	9,480,064	±19,017
▼ 5 to 17 years:	28,022,231	±26,209
With a disability	2,000,599	±28,371
No disability	26,021,632	±33,724
▼ 18 to 34 years:	36,605,355	±29,846
With a disability	2,864,851	±27,967
No disability	33,740,504	±38,953
▼ 35 to 64 years:	61,710,735	±33,459
With a disability	7,579,527	±46,536

Prefabricated ACS tables in data.census.gov provide age by disability status, but what if we need different age breakouts by the type of disability?

- Visit Microdata Access at data.census.gov/mdat

The screenshot shows a web browser window with the URL data.census.gov/mdat/#/ in the address bar. The page header features the United States Census Bureau logo and the text "Explore Data". The main heading is "Select a Dataset & Vintage". Below this, there are two selection fields: "Select Dataset" and "Select Vintage". The "Select Dataset" field is currently set to "ACS 1-Year Estimates Public Use Microdata Sample" with the code "ACSPUMS1Y" below it. The "Select Vintage" field is currently set to "2019" with "2019" listed 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 "census.data@census.gov".

United States Census Bureau

Explore Data

Select a Dataset & Vintage

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

Select Vintage 2019
2019

NEXT

Send Feedback
census.data@census.gov

- Choose Dataset and Vintage:
 - Dataset – ACS 1-Year Estimates – Public Use Microdata Sample
 - Vintage – 2019
 - Click **Next** in the lower right

Select a Dataset & Vintage

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

Select Vintage 2019 ▼
2019

NEXT

- **Search for Variables** – Use the search box below “Variable” or “Label” to find your variables of interest

filter by Topic

Search is not enabled in this beta version

SEARCH

Showing 216 of 510 Variables

Select at least one variable to start

	Variable	Label	Number of Values	Type	
				(3) Edited Items, Estimate, Recodes	
<input type="checkbox"/>	AGEP	Age	2	Estimate	▼ DETAILS
<input type="checkbox"/>	ANC	Ancestry recode	5	Edited Items	▼ DETAILS
<input type="checkbox"/>	DRIVESP	Number of vehicles calculated from JWRI	7	Estimate	▼ DETAILS
<input type="checkbox"/>	FES	Family type and employment status	9	Estimate	▼ DETAILS
<input type="checkbox"/>	FPARC	Family presence and age of related children	5	Recodes	▼ DETAILS
<input type="checkbox"/>	GRPIP	Gross rent as a percentage of household income past 12 months	3	Estimate	▼ DETAILS
<input type="checkbox"/>	HISP	Recoded detailed Hispanic origin	24	Recodes	▼ DETAILS
<input type="checkbox"/>	JWAP	Time of arrival at work - hour and minute	286	Edited Items	▼ DETAILS
<input type="checkbox"/>	IWIND	Time of departure for work - hour and minute	151	Estimate	▼ DETAILS

Dataset: ACS 1-Year Estimates 1-Year Estimates-Public Use Microdata Sample (2019) [CHANGE](#)

VIEW TABLE

- **Select variable for Age:**
 - Type “AGEP” in the Variable search box or type “Age” in the label search box
 - Click **Details** to browse information about this variable
 - Check the box to the left of AGEP to add the variable to your data cart
 - Notice the message at the top of the screen saying you will need to create your own categories (or recodes) for this variable if you want it shown in the table. (You will do this action in the Data Cart)

Warning: 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

filter by Topic Search is not enabled in this beta version **SEARCH**

Showing 1 of 515 Variables Selected: 1 variable (1 column, 1 row)

	Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/>	agep	age	2	(3) Edited Items, Estimate, Recodes
	AGEP	Age		Estimate

Description:
Age

Values:

- 1 to 99 -- 1 to 99 years (Top-coded***)
- 00 -- Under 1 year

[^ DETAILS](#)

- **Select variables for Types of Difficulties:**

- Since we're looking for multiple variables with different names, we won't use the Variable search box. Instead, type "difficulty" in the label search box
- Check the boxes to the left of **DDRS** (self-care difficulty), **DPHY** (ambulatory difficulty), **DREM** (cognitive difficulty), **DOUT** (independent living difficulty), **DEYE** (vision difficulty), and **DEAR** (hearing difficulty) to add the variables to your data cart

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (7) TABLE LAYOUT DOWNLOAD

filter by Topic Search is not enabled in this beta version SEARCH

Showing 6 of 515 Variables Selected: 7 variables (324 columns, 1 row)

	Variable	Label	Number of Values	Type	
<input checked="" type="checkbox"/>	DDRS	Self-care difficulty	3	Edited Items	▼ DETAILS
<input checked="" type="checkbox"/>	DPHY	Ambulatory difficulty	3	Edited Items	▼ DETAILS
<input checked="" type="checkbox"/>	DREM	Cognitive difficulty	3	Edited Items	▼ DETAILS
<input checked="" type="checkbox"/>	DOUT	Independent living difficulty	3	Estimate	▼ DETAILS
<input checked="" type="checkbox"/>	DEYE	Vision difficulty	2	Estimate	▼ DETAILS
<input checked="" type="checkbox"/>	DEAR	Hearing difficulty	2	Estimate	▼ DETAILS

- **Select geography:**
 - Click the **SELECT GEOGRAPHIES** tab
 - Click State and check the box for California

SELECT VARIABLES **SELECT GEOGRAPHIES** DATA CART (7) TABLE LAYOUT DOWNLOAD

GEOGRAPHIES

Region

Division

State

Public Use Microdata Area (PUMA)

STATE

- ☐ Alabama
- ☐ Alaska
- ☐ Arizona
- ☐ Arkansas
- ☒ California
- ☐ Colorado
- ☐ Connecticut
- ☐ Delaware
- ☐ District of Columbia
- ☐ Florida
- ☐ Georgia

California x

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#) [VIEW TABLE](#)

- **Categorize (recode) your Age variable:**
 - Click the **Data Cart** tab
 - Click the **AGEP** variable on the left
 - Click **Create Custom Group** to begin specifying your age categories (e.g. Under 40 years and 40 years and over)

The screenshot shows the 'DATA CART (7)' tab in the United States Census Bureau Data Cart. On the left, under 'Selected Variables (7)', the 'AGEP' variable is highlighted with a red box. It shows '2 of 2 responses'. Below it are 'DEAR' (2 of 2 responses), 'DEYE' (2 of 2 responses), 'DOUT' (3 of 3 responses), and 'DREM' (3 of 3 responses). On the right, the 'Age (AGEP)' section is expanded, showing a '+ CREATE CUSTOM GROUP' button highlighted with a red box. Below this is a table with columns 'Include in Universe', 'Response Label', and 'Value'. The table contains three rows: '1 to 99 years (Top-coded***)' with a value of 1, 'Under 1 year' with a value of 00, and a third row with a value of 99. A slider is visible between the values 1 and 99.

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

- Categorize (recode) your Age variable:
 - Click into **Group label** and type a label for the first category you want to create (e.g. Under 40 years)
 - Check the box next to 'Under 1 year'
 - Check the box next to '1 to 99 years' and edit the end range of age from 99 to **39**
 - Click **Save Group**

SELECT VARIABLES SELECT GEOGRAPHIES **DATA CART (8)** TABLE LAYOUT DOWNLOAD

Selected Variables (8)

AGEP
2 of 2 responses

DEAR
2 of 2 responses

DEYE
2 of 2 responses

DOUT
3 of 3 responses

DREM
3 of 3 responses

Age recode

Under 40 years Show on table

Group Label
Under 40 years

14 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	1 to 99 years (Top-coded***)	1 ————— 39
<input checked="" type="checkbox"/>	Under 1 year	00

CANCEL SAVE GROUP

- Categorize (recode) your Age variable:
 - Your first category, Under 40 years, appears just below “Not Elsewhere Classified”
 - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category

The screenshot displays the 'DATA CART (8)' interface with the following components:

- Navigation Bar:** SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (8)**, TABLE LAYOUT, DOWNLOAD.
- Selected Variables (8):**
 - AGEP: 2 of 2 responses
 - DEAR: 2 of 2 responses
 - DEYE: 2 of 2 responses
 - DOUT: 3 of 3 responses
 - DREM: 3 of 3 responses
- Age recode Section:**
 - Not Elsewhere Classified:** VALUES: 40:99. Includes an **EDIT GROUP** button (highlighted with a red box).
 - Under 40 years:** VALUES: 1:39, 00. Includes an **EDIT GROUP** button.
- Buttons:** AUTO GROUP (top right), EDIT GROUP (for each category).

- **Categorize (recode) your Age variable :**
 - Click into **Group label** and type a label for the last category you want to create (e.g. 40 years and over)
 - Check the box next to the response category of Between 40 and 99
 - Click **Save Group**

The screenshot displays the 'DATA CART (8)' interface with the 'Age recode' configuration panel. On the left, a list of selected variables includes AGEP, DEAR, DEYE, DOUT, and DREM. The main panel shows the 'Age recode' configuration for the '40 years and over' group. A red box highlights the 'Group Label' field, which contains the text '40 years and over'. Another red box highlights the 'Add to Group' checkbox, which is checked. A third red box highlights the 'SAVE GROUP' button. The 'Response Label' field shows 'Between 40 and 99' with a range slider set from 40 to 99. The 'Show on table' toggle is turned on. The 'Under 40 years' group is also visible below, with a value of 1:39, 00.

SELECT VARIABLES SELECT GEOGRAPHIES **DATA CART (8)** TABLE LAYOUT DOWNLOAD

Selected Variables (8)

- AGEP**
2 of 2 responses
- DEAR**
2 of 2 responses
- DEYE**
2 of 2 responses
- DOUT**
3 of 3 responses
- DREM**
3 of 3 responses

Age recode AUTO GROUP

40 years and over Show on table

Group Label
40 years and over

17 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 40 and 99	40 ————— 99

CANCEL SAVE GROUP

Under 40 years
VALUES: 1:39, 00 EDIT GROUP

- Confirm variable selections
 - Confirm variable selections and click the **Table Layout** tab

The screenshot displays the 'Table Layout' tab in a data tool interface. The top navigation bar includes 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (8)', 'TABLE LAYOUT' (highlighted with a red box), and 'DOWNLOAD'. On the left, a 'Selected Variables (8)' list is shown, containing AGEP, DEAR, DEYE, DOUT, DREM, DPHY, DORS, and AGE_RC1, each with a trash icon. On the right, the 'Age recode' section shows two groups: 'Under 40 years' (VALUES: 1:39, 00) and '40 years and over' (VALUES: 40:99), each with an 'EDIT GROUP' button. An 'AUTO GROUP' button is also present at the top right of the right panel.

Selected Variables (8)	
AGEP	2 of 2 responses
DEAR	2 of 2 responses
DEYE	2 of 2 responses
DOUT	3 of 3 responses
DREM	3 of 3 responses
DPHY	3 of 3 responses
DORS	3 of 3 responses
AGE_RC1	2 of 2 responses

Age recode

Under 40 years
VALUES: 1:39, 00

40 years and over
VALUES: 40:99

AUTO GROUP

EDIT GROUP

EDIT GROUP

- View variable placement in the default table layout:
 - Values in table cells Options** – When variables are shown here, you have more options to choose from in the drop down menu for “Values in table cells”
 - Columns/Rows – Variables will be shown in the table.** By default, the table is providing average age data for the geography for all the types of difficulties
 - Not on Table – Can restrict the universe.** By default, AGEP_RC1 is not on the table, and it does not provide a breakdown for the different age groupings that were created

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (8) **TABLE LAYOUT** DOWNLOAD

Custom Table

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

AGEP 2 of 2 responses

Columns (6)
324 columns (maximum 400)

DEAR 2 of 2 responses

DEYE 2 of 2 responses

DOUT 3 of 3 responses

DREM 3 of 3 responses

DPHY 3 of 3 responses

DDRS 3 of 3 responses

Rows (1)
1 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

Not on table (1)
(may restrict the sample universe)

AGEP_RC1 2 of 2 responses

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

Hearing difficulty (DEAR)															
Yes															
Vision difficulty (DEYE)															
Yes															
Independent living difficulty (DOUT)															
N/A (Less than 15 years old)															
Cognitive difficulty (DREM)															
N/A (Less than 5 years old) Yes															
Ambulatory difficulty (DPHY)															
N/A (Less than 5 years old) Yes No N/A (Less than 5 years old) Yes No N/A (Less than 5 years old) Yes No N/A (Less than 5 years old) Yes No N/A (Less than 5 years old) Yes No															
Self-care difficulty (DDRS)															
N/A (Less than 5 years old) Yes No N/A (Less than 5 years old) Yes No N/A (Less than 5 years old) Yes No N/A (Less than 5 years old) Yes No N/A (Less than 5 years old) Yes No															
Selected Geographies	N/A (Less than 5 years old)	Yes	No	N/A (Less than 5 years old)	Yes	No	N/A (Less than 5 years old)	Yes	No	N/A (Less than 5 years old)	Yes	No	N/A (Less than 5 years old)	Yes	No
Califor...	???	???	???	???	???	???	???	???	???	???	???	???	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#) [VIEW TABLE](#)

- Edit Table Layout:
 - Move AGEP_RC1 to Rows: Click on the variable and drag it to its new spot. This will add the age categories we created to our table rows

United States Census Bureau

BETA

Explore Data / Microdata / Custom Table

SELECT VARIABLES

SELECT GEOGRAPHIES

DATA CART (8)

TABLE LAYOUT

DOWNLOAD

Custom Table

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

AGEP2 of 2 responses

Columns (6)
324 columns (maximum 400)

DEAR2 of 2 responses

DEYE2 of 2 responses

DOUT3 of 3 responses

DREM3 of 3 responses

DPHY3 of 3 responses

DDRS3 of 3 responses

Rows (1)
1 rows (maximum 2000)

SELECTED GEOGRAPHIES1 of 1 responses

Not on table (1)
(may restrict the sample universe)

AGEP_RC12 of 2 responses

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

	Hearing difficulty (DEAR)																
	Yes																
	Vision difficulty (DEYE)																
	Yes																
	Independent living difficulty (DOUT)																
	N/A (Less than 15 years old)																
	Cognitive difficulty (DREM)																
	N/A (Less than 5 years old)																
	Yes																
	Ambulatory difficulty (DPHY)																
	Ambulatory difficulty (DPHY)																
	N/A (Less than 5 years old)				Yes		No		N/A (Less than 5 years old)				Yes		No		
	Self-care difficulty (DDRS)				Self-care difficulty (DDRS)		Self-care difficulty (DDRS)		Self-care difficulty (DDRS)		Self-care difficulty (DDRS)		Self-care difficulty (DDRS)		Self-care difficulty (DDRS)		
Selected Geographies	N/A (Less than 5 years old)		Yes	No	N/A (Less than 5 years old)		Yes	No	N/A (Less than 5 years old)		Yes	No	N/A (Less than 5 years old)		Yes	No	
Califor...	???	???	???	???	???	???	???	???	???	???	???	???	???	???	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019)

CHANGE

VIEW TABLE

- **Edit Table Layout:**
 - The table is still hard to read because all of the disability variables are found in the table at the same time and they are nested within each other. To make the table easier to read, **move all but one of the disability variables from Columns to Not on table**
 - The table is now much smaller and more manageable

United States ^{BETA}
Census Bureau

Explore Data / Microdata / Custom Table

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (8) **TABLE LAYOUT** DOWNLOAD

Custom Table

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

AGEP 2 of 2 responses

Columns (1)
2 columns (maximum 400)

DEAR 2 of 2 responses

Rows (2)
2 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

AGEP_RC1 2 of 2 responses

Not on table (5)
(may restrict the sample universe)

DEYE 2 of 2 responses

DOUT 3 of 3 responses

DREM 3 of 3 responses

DPHY 3 of 3 responses

DORS 3 of 3 responses

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

	Hearing difficulty (DEAR)	
Age recode (AGEP_RC1)	Yes	No
California (2)		
Under 40 years	???	???
40 years and over	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#)

[VIEW TABLE](#)

- Choose type of values in table cells
 - Change the “Value in table cells” option from Average of Age (AGEP) to **Count**. This will give you data for the total number of people, rather than an average age

SELECT VARIABLES SELECT GEOGRAPHIES DATA CART (8) **TABLE LAYOUT** DOWNLOAD

Custom Table

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

AGEP 2 of 2 responses

Columns (1)
2 columns (maximum 400)

DEAR 2 of 2 responses

Rows (2)
2 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

AGEF_RC1 2 of 2 responses

Not on table (5)
(may restrict the sample universe)

DEYE 2 of 2 responses

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

Age recode (AGEF_RC1)	Yes	No
California (2)		
Under 40 years	???	???
40 years and over	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#) [VIEW TABLE](#)

- Confirm Table Layout:
 - Confirm table layout and click **View Table** in the lower right

United States **Census** Bureau BETA

Explore Data/ Microdata/ Custom Table

SELECT VARIABLESSELECT GEOGRAPHIESDATA CART (8)TABLE LAYOUTDOWNLOAD

Custom Table

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

AGEP2 of 2 responses

Columns (1)
2 columns (maximum 400)

DEAR2 of 2 responses

Rows (2)
2 rows (maximum 2000)

SELECTED GEOGRAPHIES1 of 1 responses

AGEP_RC12 of 2 responses

Not on table (5)
(may restrict the sample universe)

DEYE2 of 2 responses

Table Preview

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

Values in table cells:
Count

☒ Show Total

	Hearing difficulty (DEAR)		
Age recode (AGEP_RC1)	Total	Yes	No
?? (2)	0	0	0
California (2)	0	0	0
Under 40 years	??	??	??
40 years and over	??	??	??

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2019) [CHANGE](#)

[VIEW TABLE](#)

Census Bureau

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■ View Table

Note that the site automatically chooses a weight for you. You do have the option to change the weight if you want.

Custom Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample

CHANGE DATASET

Geography: 1 geographies selected

CHANGE GEOGRAPHY

Vintage: 2019

Weighting: PUMS person weight

On Columns

+

DEAR

On Rows

+

Selected Geographies

AGEP_RC1

Not on Table

+

DEYE

DOUT

DREM

DPHY

DDRS

"Values in table cells" Options

+

AGEP

Values in table cells:

Count

Universe: selected geographies: California

Show Total

	Hearing difficulty (DEAR)		
Age recode (AGEP_RC1)	Total	Yes	No
Total (2)	39,512,223	1,188,467	38,323,756
Total California (2)	39,512,223	1,188,467	38,323,756
Under 40 years	21,366,995	146,056	21,220,939
40 years and over	18,145,228	1,042,411	17,102,817

Send Feedback

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- View Table
 - To make use of the other disability variables that you selected, drag the dark blue variable pills to swap them between **Not on Table** and **On Columns**

Custom Table

CUSTOMIZE VARIABLES DOWNLOAD / SHARE DETAILS ▾

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

Geography: 1 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2019 ▾

Weighting: PUMS person weight ▾

On Columns

On Rows

DEYE

Selected Geographies AGEP_RC1

Not on Table

"Values in table cells" Options

DOUT DREM DPHY DDRS DEAR

AGEP

Values in table cells:

Count ▾

Universe: selected geographies: California

Show Total

	Vision difficulty (DEYE)		
Age recode (AGEP_RC1)	Total	Yes	No
▼ Total (2)	39,512,223	780,516	38,731,707
▼ Total California (2)	39,512,223	780,516	38,731,707
Under 40 years	21,366,995	180,682	21,186,313
40 years and over	18,145,228	599,834	17,545,394

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Data.census.gov Newsletter – September 2022



Learn about the latest system updates, data releases, and educational opportunities for [data.census.gov](#).

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Get hands-on practice with data.census.gov by joining one of our upcoming workshops.

New Workshop

Making the Most of Mapping in data.census.gov

Join us in this participatory class as we look at mapping capabilities in data.census.gov. You'll learn the basics of mapping, including how to map data found in tables available in the site.

Next you'll learn how to use the mapping capabilities to discern between geographies

Upcoming Webinars:

2021 ACS 1-Year Pre-Release Webinar:

9/8 at 2:00pm

Learn how to access data and online resources from the 2021 American Community Survey (ACS) set to be publicly released on September 15. The webinar will also provide tips for comparing ACS geographies and statistics over time.

[Details](#)

Data.census.gov News and Updates:

September 2022

9/28 at 2:00pm

In this webinar we will cover updates on data.census.gov implemented since the end of June. Updates include a modern design refresh, several search improvements, fixes to defects, and

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Stay Connected

Resources page:

census.gov/data/what-is-data-census-gov.html

Feedback: Email comments to

census.data@census.gov or
cedsci.feedback@census.gov

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A screenshot of the data.census.gov website. The top navigation bar includes links for Partners, Researchers, Educators, Survey Respondents, News, NAICS Codes, Jobs, About Us, Contact Us, and Help. The main header features the United States Census Bureau logo and a search bar. The page title is "What is data.census.gov?". Below the title, there is a section for "How-to Materials for Using the Microdata Access" with a list of resources, including "Using Microdata Access: With ACS 1-Year Estimates – Public Use Microdata Sample [1.5 MB]" and "Using Microdata Access: How To Create Poverty Estimates From The CPS ASEC [2.4 MB]". A sidebar on the left lists various resources like "Within Data", "About data.census.gov", "Developmental Update", "Guidance for 2020 Redistricting Data Users", "Guidance for Data Users", "Latest Releases", "Newsletter", "Outreach", "Upcoming Releases", and "Contact Us". At the bottom, there is a "Webinars" section with two featured webinars: "Creating Customized Tables: Microdata Access Tool in data.census.gov" and "Custom Tabulation Capabilities on data.census.gov".