



Finding American Community Survey Data

Dissemination Outreach Branch
Center for Enterprise Dissemination
U.S. Census Bureau

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Contents

ACS Data in data.census.gov	3
1 Group Exercises	3
1.1 Commuting characteristics for all counties in New Jersey – Advanced Search	3
1.2 Veteran status for all Census Tracts in Atlanta, Georgia – Advanced Search	6
1.3 Income to poverty ratio for Iowa – Single Search	9
1.4 Monthly housing costs in Virginia – Single Search	10
2 Individual Exercises	11
2.1 Tenure by vehicles available in Chicago, Illinois – Single Search	11
2.2 Median earnings for Chippewa County, Minnesota – Advanced Search	12
ACS Data in the Census API	14
3 Group Exercises	14
3.1 Unemployed population for all states in the U.S.	14
3.2 Commuting data for all counties in the U.S.	18
4 Individual Exercise	21
4.1 Marital status data for South Carolina	21
ACS Data in the Microdata Access Tool	24
5 Group Exercises	24
5.1 Earnings by race for all states in the U.S.	24
5.2 Hispanic origin and sex by single year of age for the U.S.	31
6 Individual Exercise	35
6.1 Detailed language spoken at home by sex for California	35

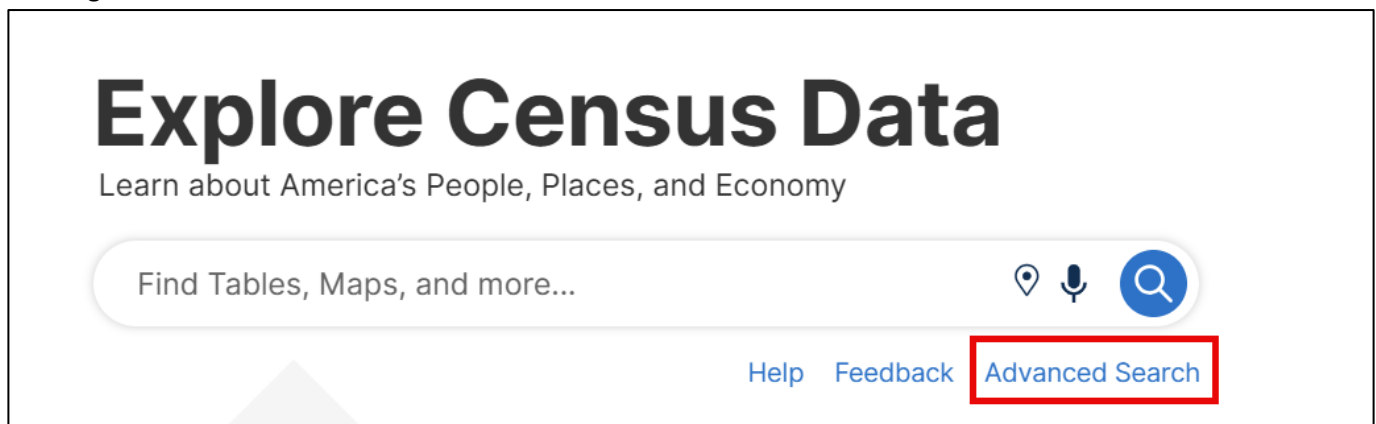
ACS Data in data.census.gov

1 Group Exercises

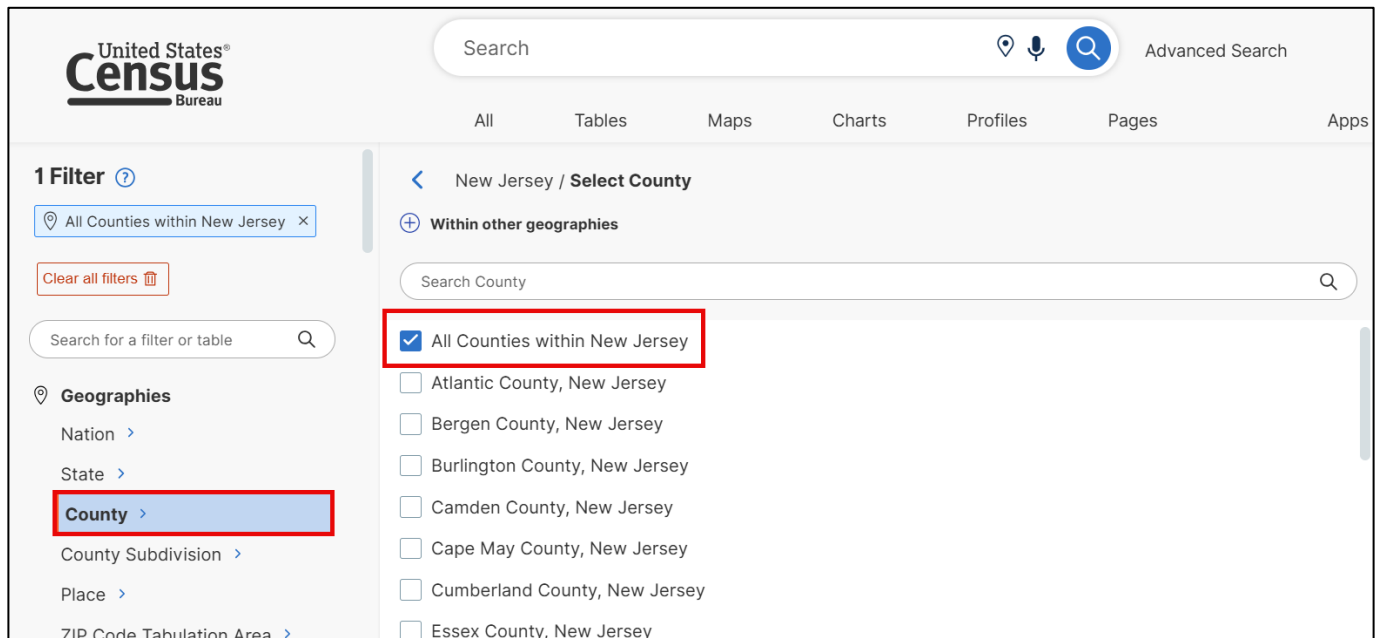
Let's start off by showing you how to find data from the American Community Survey (ACS) in our main data dissemination tool, data.census.gov. There are two main ways to search in data.census.gov – there's the Single Search and the Advanced Search. We typically recommend users try their hand at the Advanced Search first, since it provides a lot of search options that will pull up relevant ACS tables. Additionally, the Advanced Search allows you to select geographies that may be a bit complicated to enter into the Single Search bar, and provides you with available search terms, which removes the need to guess at keywords to use.

1.1 Commuting characteristics for all counties in New Jersey – Advanced Search

Step 1. Start by going to <https://data.census.gov/>. Then, click on the Advanced Search button located underneath the Single Search bar.



Step 2: Once you reach the Advanced Search, the filter panel is located on the left side of the screen. This will give you all your available search options. The Geographies section is at the top, and we usually recommend that you add your geographies to your search first. In this section, select County, click on New Jersey, and then finally select 'All Counties within New Jersey'.



Step 3. Next, select your search topic. Commuting is a topic that is often overlooked by data users, because it's actually found in the Employment section. That is why we recommend looking through the available filters, since you may find the topic you're searching for in an unexpected place.

To add Commuting to your search, scroll to the Topics section, click on Employment, and then select 'Commuting'.

The screenshot shows the United States Census Bureau search interface. On the left, under the 'Topics' section, 'Employment' is highlighted with a red box. In the center, under 'Select Employment', the 'Commuting' checkbox is checked and highlighted with a red box. The top navigation bar includes a search bar, location and microphone icons, a magnifying glass icon, and a link to 'Advanced Search'. Below the search bar are tabs for 'All', 'Tables', 'Maps', 'Charts', 'Profiles', 'Pages', and 'Apps'.

Step 4. Confirm your filters, then click on the Search button in the bottom right corner of the screen.

The screenshot shows the United States Census Bureau search interface with filters applied. On the left, under '2 Filters', 'All Counties within New Jersey' and 'Commuting' are listed, both highlighted with a red box. Below the filters is a 'Clear all filters' button and a search bar for filters or tables. In the center, under 'Select Employment', the 'Commuting' checkbox remains checked. On the right, there is a large empty space for results. At the bottom right, a blue 'SEARCH' button is highlighted with a red box. The top navigation bar includes a search bar, location and microphone icons, a magnifying glass icon, and a link to 'Advanced Search'. Below the search bar are tabs for 'All', 'Tables', 'Maps', 'Charts', 'Profiles', 'Pages', 'Apps', 'Help', 'FAQ', and 'Feedback'.

Step 5. Once you click on the Search button, you can see the available data related to commuting. You can see that the data can be viewed in a table, map, or chart. You can also expand your view at the top to see 25 or 50 results at a time. If you select any of the results found under the Data section, such as the first one, S0801, it will default to the table view.

United States[®]
Census
Bureau

Search

Advanced Search

AllTablesMapsChartsProfilesPagesAppsHelpFAQFeedback

2 Filters ?

All Counties within New Jersey

Commuting

Clear all filters

Search for a filter or table

Geographies

Nation

State

County

County Subdivision

Place

ZIP Code Tabulation Area

Metropolitan/Micropolitan

184 Datasets, 32 Profiles

Data

View: 10 | 25 | 50

American Community Survey

S0801 | Commuting Characteristics by Sex

TableMapChart

View All 27 Products

American Community Survey

S0802 | Means of Transportation to Work by Selected Characteristics

TableMapChart

View All 27 Products

American Community Survey

S0804 | Means of Transportation to Work by Selected Characteristics for Workplace Geography

TableMapChart

View All 27 Products

American Community Survey

U.S. Census Bureau

Nation

United States

Total Population: 331,449,281

Median Household Income: \$77,719

Bachelor's Degree or Higher: 36.2%

Employment Rate: 60.6%

Total Housing Units: 140,498,736

Without Health C

Total Employer Es

Help improve our search

You can collapse the Filter and Results panels to get a better look at the full table.

United States[®]
Census
Bureau

Search

Advanced Search

AllTablesMapsChartsProfilesPagesAppsHelpFAQFeedback

2 Filters ?

All Counties within New Jersey

Commuting

Clear all filters

Search for a filter or table

Geographies

Nation

State

County

County Subdivision

184 Results

View: 10 | 25 | 50

Download Table Data

S0801 | Commuting Characteristics by Sex

American Community Survey

2023: ACS 5-Y...

NotesGeosTopicsMore Tools

Atlantic County, New Jersey

Total

Estimate

Workers 16 years and over

127,405

MEANS OF TRANSPORTATION TO WORK

Car, truck, or van

82.1%

Drove alone

73.3%

Carpooled

8.8%

In 2-person carpool

6.9%

United States[®]
Census
Bureau

Search

Advanced Search

AllTablesMapsChartsProfilesPagesAppsHelpFAQFeedback

S0801 | Commuting Characteristics by Sex

American Community Survey

2023: ACS 5-Year Estimates Subject Tables

NotesGeosTopicsCodesDatasetYearColumnsTransposeMargin of ErrorMore Tools

Atlantic County, New Jersey

Total

Male

Female

Estimate

Margin of Error

Estimate

Margin of Error

Workers 16 years and over

127,405

±1,930

65,330

±1,264

MEANS OF TRANSPORTATION TO WORK

Car, truck, or van

82.1%

±1.1

83.5%

±1.2

Drove alone

73.3%

±1.3

74.7%

±1.3

Carpooled

8.8%

±0.9

8.8%

±1.1

In 2-person carpool

6.9%

±0.8

6.7%

±0.9

In 3-person carpool

1.3%

±0.4

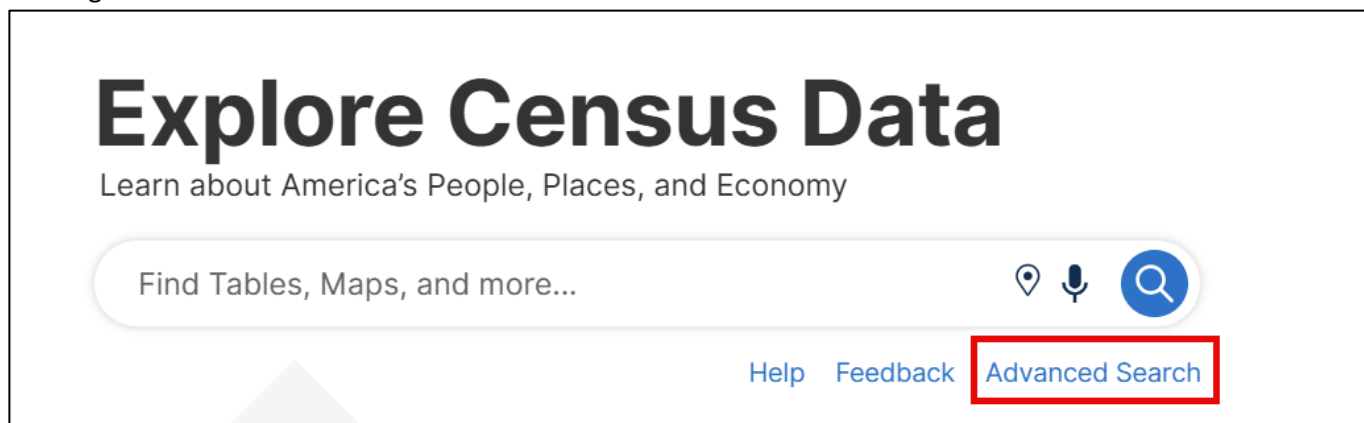
1.2%

±0.5

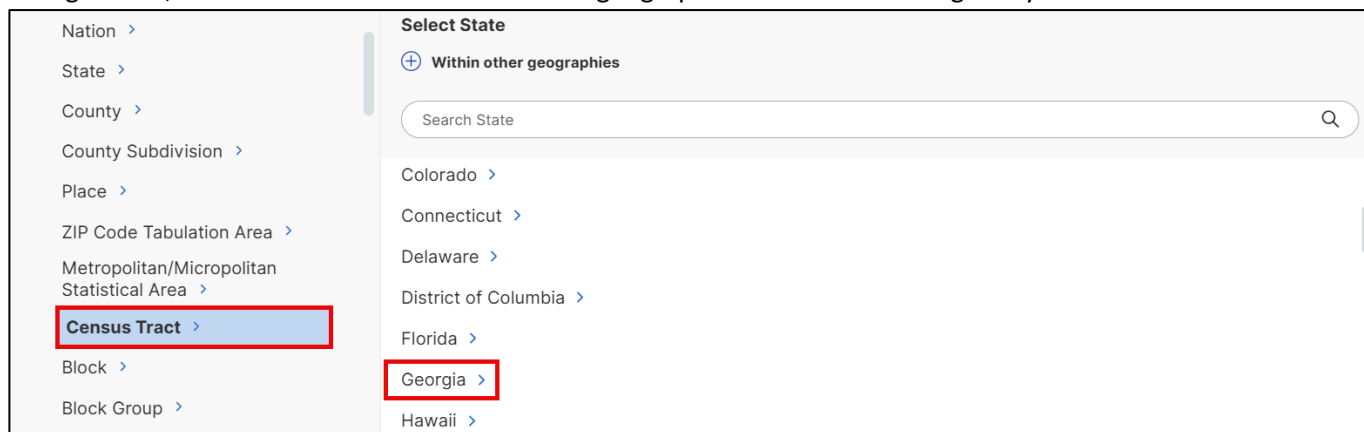
5

1.2 Veteran status for all Census Tracts in Atlanta, Georgia – Advanced Search

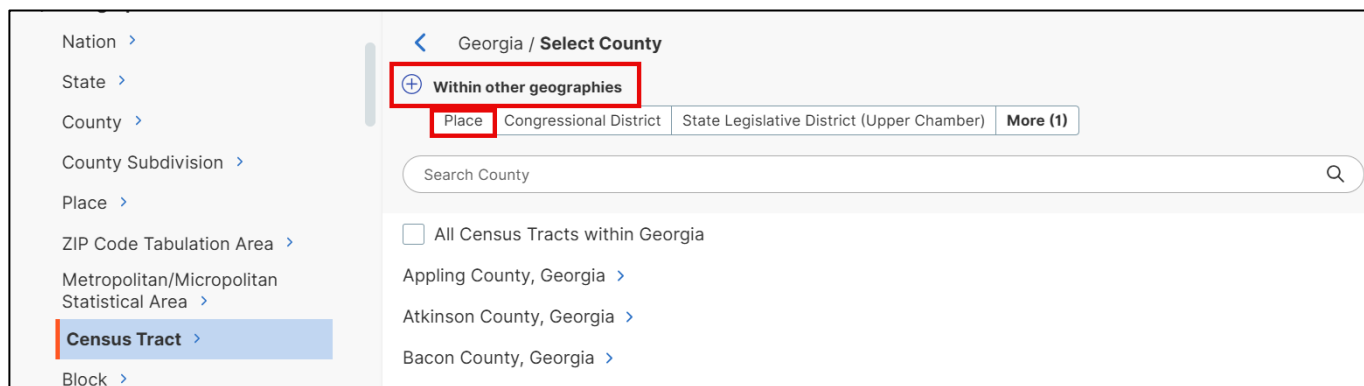
Step 1. Start by going to <https://data.census.gov/>. Then, click on the Advanced Search button located underneath the Single Search bar.



Step 2: We'll start off by selecting our geography first, this time looking at all Census Tracts within Atlanta, Georgia. First, select Census Tract from the listed geographies and choose Georgia as your state.



Step 3. Then, click on the plus sign next to the 'Within other geographies' label. This will allow you to select Census Tracts that are grouped within other types of geographies besides counties. Click on 'Place' to view Census Tracts within geographies like cities and towns.



Step 4. The list will show all Places in Georgia. Select Atlanta city, Georgia, and then click on the checkbox next to 'All Census Tracts fully/partially within Atlanta city, Georgia'.

County Subdivision >

Place >

ZIP Code Tabulation Area >

Metropolitan/Micropolitan Statistical Area >

Census Tract >

Block >

Block Group >

All Geographies >

Search Census Tract

Ashburn city, Georgia >

Athens-Clarke County unified government (balance), Georgia >

Atlanta city, Georgia >

Attapulgus city, Georgia >

Auburn city, Georgia >

Augusta-Richmond County consolidated government (balance), Georgia >

1 Filter ?

All Census Tracts fully/partially ... x

Clear all filters

Search for a filter or table

Geographies

Nation >

State >

County >

County Subdivision >

Georgia / Place / Atlanta city, Georgia / **Select Census Tract**

Within other geographies

County

Search Census Tract

☒ All Census Tracts fully/partially within Atlanta city, Georgia

☐ Census Tract 201; DeKalb County; Georgia

☐ Census Tract 202; DeKalb County; Georgia

☐ Census Tract 203; DeKalb County; Georgia

☐ Census Tract 204; DeKalb County; Georgia

Step 5. Next, select the Veterans filter. It can be found under Topics > Populations and People > Select 'Veterans'. Then, click on the 'Search' button on the bottom right corner of the screen.

United States Census Bureau

Search

Advanced Search

All Tables Maps Charts Profiles Pages

Apps Help FAQ Feedback

County >

County Subdivision >

Place >

ZIP Code Tabulation Area >

Metropolitan/Micropolitan Statistical Area >

Census Tract >

Block >

Block Group >

All Geographies >

Topics

Education >

Employment >

Families and Living Arrangements >

Health >

Housing >

Income and Poverty >

Populations and People >

Race and Ethnicity >

Surveys

American Community Survey >

Decennial Census >

Years

Select Populations and People

Search Populations and People

Ancestry >

Counts, Estimates, and Projections >

Native and Foreign-Born >

☐ Age and Sex

☐ Language Spoken at Home

☐ Populations and People

☐ Residential Mobility

☒ **Veterans**

SEARCH

Step 6. Once you click on the Search button, you can see the available data related to veterans. Select table S2101 to view the data.

The screenshot shows the United States Census Bureau search results page. The search term is 'Veteran Status'. The results are filtered by 'All' and show 51 Datasets and 32 Profiles. The 'Data' section is highlighted, showing the 'American Community Survey' and the 'S2101 | Veteran Status' table. The table is highlighted with a red box, and the 'View All 14 Products' link is also highlighted. The 'Table' button is visible next to the table name.

Note: Depending on the number of geographies and/or the overall size of the table, you may get a message like the one below. This is not an error, rather just a mechanism the site uses to let you know that the display may be affected by the size of the table. You can either reduce the number of geographies you've searched for, download the table, or try to open it anyway on the site.

The screenshot shows the United States Census Bureau search results page for 'Veteran Status'. The message 'Table is too large to display' is displayed, along with a 'DOWNLOAD TABLE' button. The message states: 'The size of this table may exceed your browser's capabilities and result in an error or browser instability. You can adjust your filters to create a smaller table or choose to download the data instead.' The 'Technical Details' link is also visible.

Please keep in mind that the success of opening the table on the screen is dependent on the browser you're using and the size of your table.

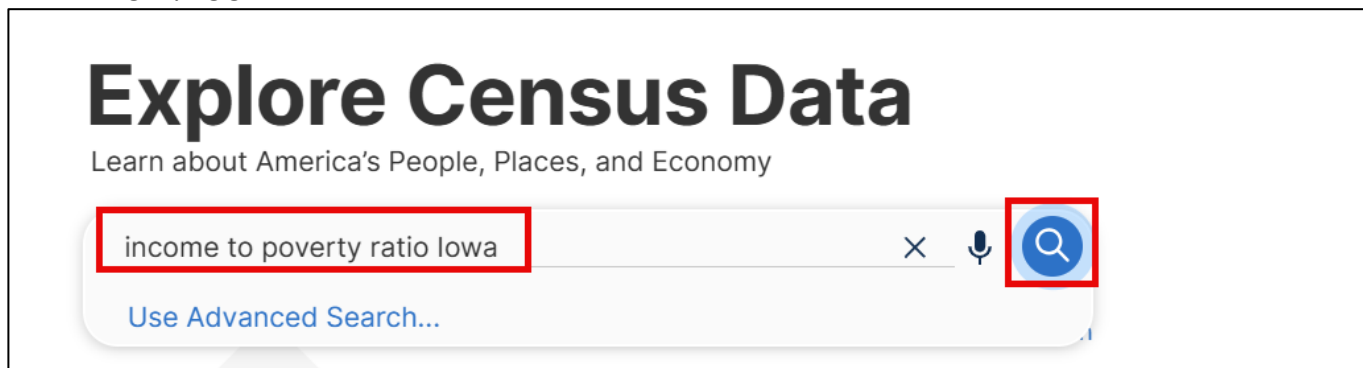
The screenshot shows the United States Census Bureau search results page for 'Veteran Status'. The table is displayed, showing the 'American Community Survey' and the 'S2101 | Veteran Status' table. The table is filtered by 'All' and shows 51 Datasets and 32 Profiles. The table is titled 'Census Tract 201; DeKalb County, Georgia'. The table has columns for 'Total', 'Percent', 'Estimate', and 'Margin of Error'. The table is filtered by 'All' and shows 51 Datasets and 32 Profiles. The table is titled 'Census Tract 201; DeKalb County, Georgia'. The table has columns for 'Total', 'Percent', 'Estimate', and 'Margin of Error'. The table is filtered by 'All' and shows 51 Datasets and 32 Profiles.

Label	Total	Percent	Estimate	Margin of Error	Veterans	Estimate	Margin of Error	Percent
Civilian population 18 years and over	1,369	±154	(X)	(X)	20	±15		
PERIOD OF SERVICE								
Gulf War (9/2001 or later) veterans	(X)	(X)	(X)	(X)	9	±10		
Gulf War (8/1990 to 8/2001) veterans	(X)	(X)	(X)	(X)	4	±6		
Vietnam era veterans	(X)	(X)	(X)	(X)	11	±11		
Korean War veterans	(X)	(X)	(X)	(X)	0	±14		
World War II veterans	(X)	(X)	(X)	(X)	0	±14		
SEX								
Male	587	±77	42.9%	±4.0	16	±13		
Female	782	±111	57.1%	±4.0	4	±6		
AGE								
18 to 34 years	262	±93	19.1%	±6.6	5	±8		

1.3 Income to poverty ratio for Iowa – Single Search

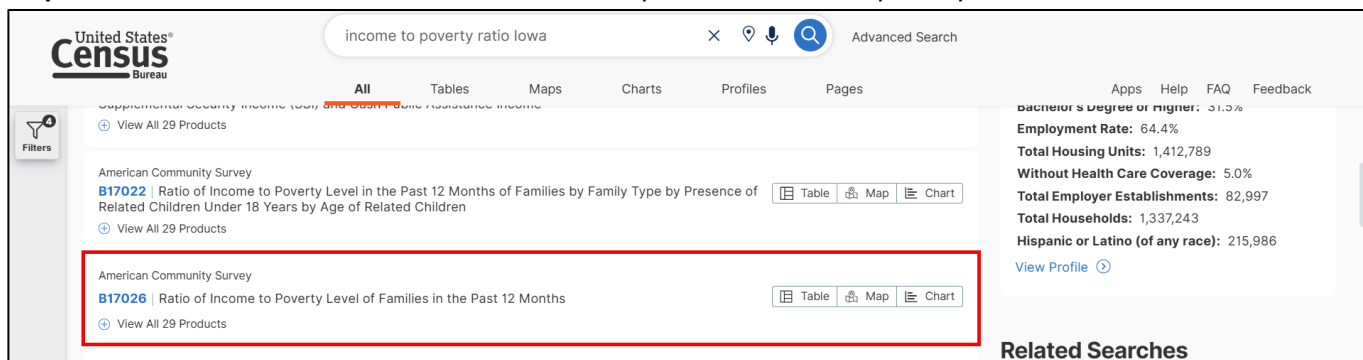
If you're not quickly finding what you need with the filters available in the Advanced Search, you can always use the Single Search to enter a more direct search term. For example, there is not a filter specifically for income to poverty ratios, so we can use that term in the Single Search to see what comes up. While these tables would come up if the Income filter was used in the Advanced Search, you may need to sort through many other tables to reach them. In these cases, using the Single Search can sometimes be a quicker way to access the tables you need.

Step 1. Start by going to <https://data.census.gov/>. Enter **income to poverty ratio Iowa** into the search bar. Click on the magnifying glass icon or hit Enter.

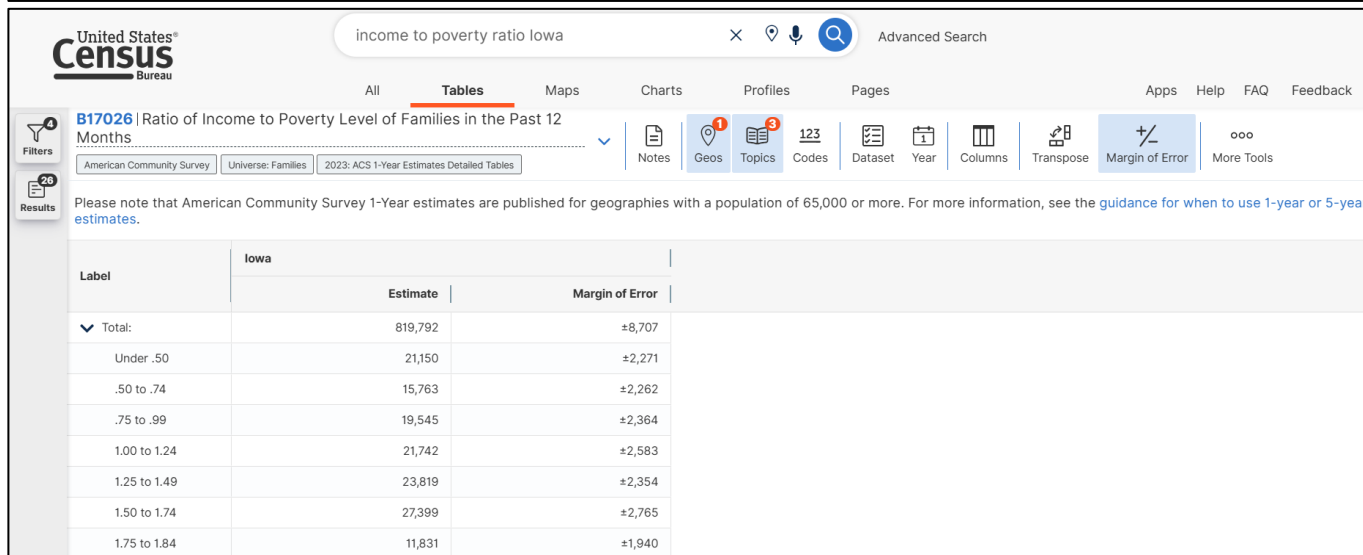


The screenshot shows the 'Explore Census Data' search interface. The search bar contains the text 'income to poverty ratio Iowa'. To the right of the search bar is a magnifying glass icon, which is highlighted with a red square. Below the search bar is a link that says 'Use Advanced Search...'. The background is white with a light gray border.

Step 2. View the available data tables. Table B17026 provides income to poverty ratio data for families.



The screenshot shows the search results page for 'income to poverty ratio Iowa'. The search bar at the top contains the text 'income to poverty ratio Iowa'. Below the search bar, there are tabs for 'All', 'Tables', 'Maps', 'Charts', 'Profiles', and 'Pages'. The 'Tables' tab is selected. A list of data tables is displayed, with Table B17026 highlighted by a red box. The table is titled 'B17026 | Ratio of Income to Poverty Level of Families in the Past 12 Months'. To the right of the table list, there is a 'Related Searches' section with various search suggestions.



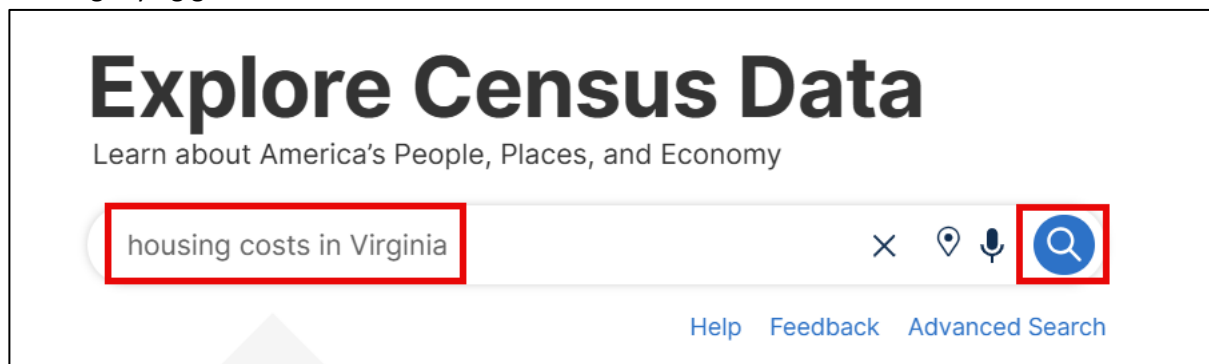
The screenshot shows the data table for B17026. The table is titled 'B17026 | Ratio of Income to Poverty Level of Families in the Past 12 Months'. The table has three columns: 'Label', 'Estimate', and 'Margin of Error'. The data is for Iowa. The table is shown in a collapsed state, with only the first row visible.

Label	Estimate	Margin of Error
Total:	819,792	±8,707

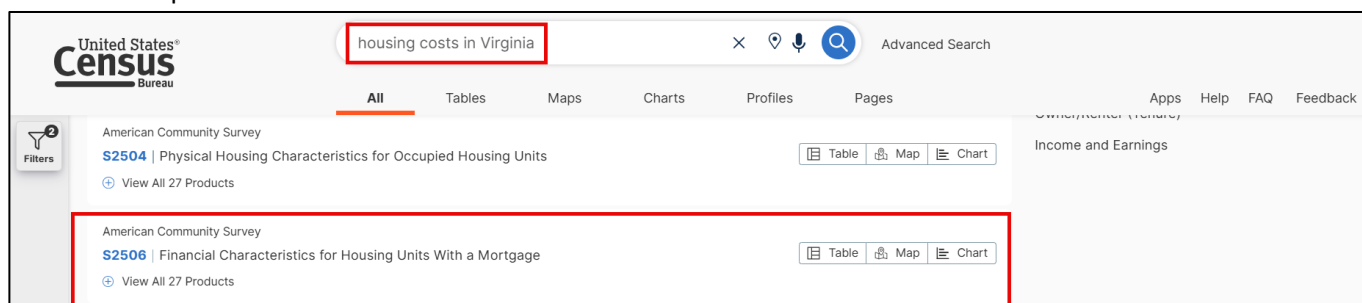
1.4 Monthly housing costs in Virginia – Single Search

A similar search can be done by using the Single Search to find monthly housing costs for owner occupied housing units with a mortgage in Virginia. With complicated search terms like this, you may find that it's easier to type the essential topic and geographic information into the Single Search bar.

Step 1. Start by going to <https://data.census.gov/>. Enter **housing costs in Virginia** into the search bar. Click on the magnifying glass icon or hit Enter.



Step 2. View the available data tables. If we look at the table list more closely, we can see that there is a table that shows financial characteristics specifically for housing units with a mortgage. Click on table S2506 to view more detailed data points.

A screenshot of the detailed data table for table S2506, 'Financial Characteristics for Housing Units With a Mortgage'. The table is titled 'Virginia' and shows data for 'Owner-occupied housing units with a mortgage' and 'Percent owner-occupied housing units with a mortgage'. The table has columns for 'Label', 'Estimate', 'Margin of Error', and 'Estimate'. The data is presented in a table with a red box highlighting the table title and the first few rows of data.

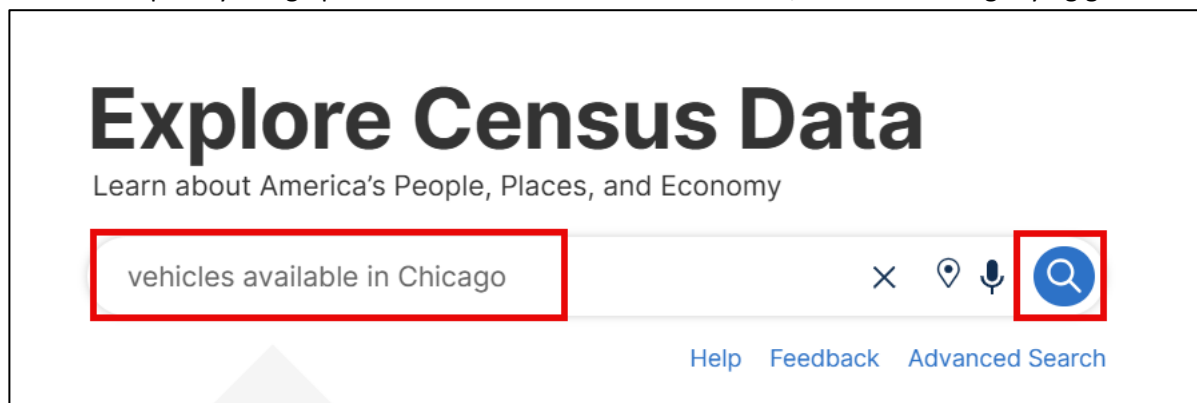
Label	Owner-occupied housing units with a mortgage		Percent owner-occupied housing units with a mortgage	
	Estimate	Margin of Error	Estimate	
Owner-occupied housing units with a mortgage	1,529,990	±16,374	1,529,990	
VALUE				
Less than \$50,000	33,438	±2,986	2.2%	
\$50,000 to \$99,999	31,370	±3,700	2.1%	
\$100,000 to \$299,999	397,895	±8,631	26.0%	
\$300,000 to \$499,999	492,609	±10,363	32.2%	
\$500,000 to \$749,999	304,009	±8,404	19.9%	
\$750,000 to \$999,999	154,458	±6,541	10.1%	

2 Individual Exercises

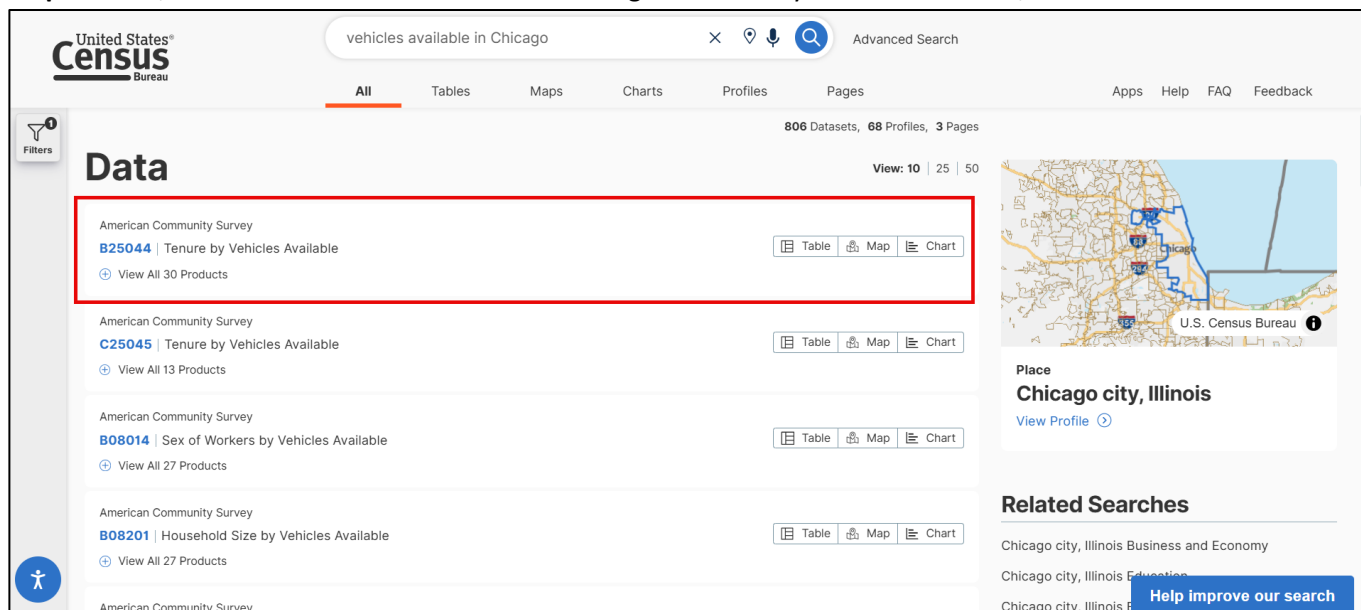
The Single Search and Advanced Search both have advantages and disadvantages when trying to find data from the American Community Survey. For this first individual exercise, we'll use the Single Search to find data on a topic that may be a little trickier to find using the Advanced Search.

2.1 Tenure by vehicles available in Chicago, Illinois – Single Search

Step 1. For this exercise, we want to find data on tenure by vehicles in Chicago using the Single Search. Once you arrive at <https://data.census.gov/>, enter **vehicles available in Chicago** into the search bar – this simple search term will hopefully bring up tables that we are interested in. Then, click on the magnifying glass icon or hit Enter.



Step 2. Next, view the table list. Since we are looking for tenure by vehicles available, select table B25044.



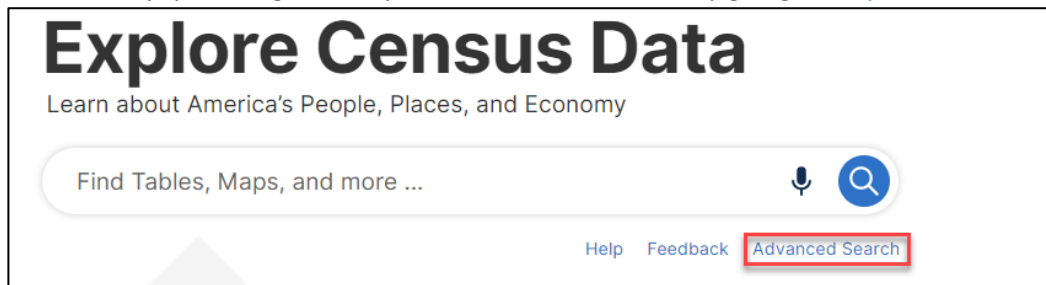
Step 3. Using the most recent ACS Estimates, we were looking for the number of renter occupied housing units that had two vehicles available. Here we can see that the answer is 77,633 using the 2023 1-year ACS estimates.

The screenshot shows the United States Census Bureau data table for Chicago, Illinois. The table is titled "B25044 | Tenure by Vehicles Available". The table has four columns: Label, Estimate, Margin of Error, and an additional column for the estimate. The table is filtered for "Chicago city, Illinois". The table shows the following data:

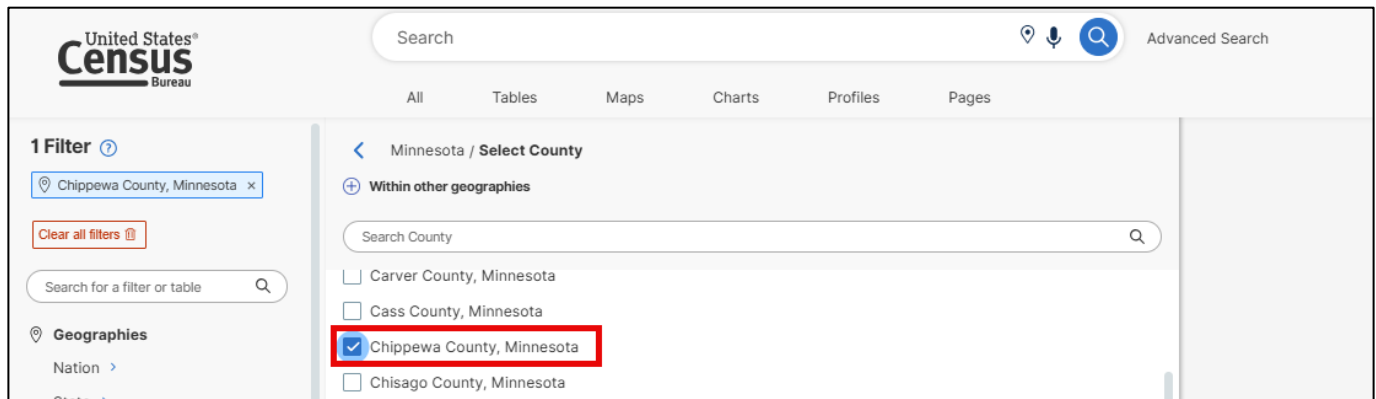
Label	Estimate	Margin of Error	
Total:	1,179,081	±9,181	
Owner occupied:	545,540	±10,732	
4 vehicles available	16,892	±2,885	
5 or more vehicles available	5,404	±1,621	
Renter occupied:	633,541	±11,127	
No vehicle available	254,791	±10,229	
1 vehicle available	285,861	±11,212	
2 vehicles available	77,633	±6,943	
3 vehicles available	13,023	±2,245	
4 vehicles available	1,343	±815	
5 or more vehicles available	890	±812	

2.2 Median earnings for Chippewa County, Minnesota – Advanced Search

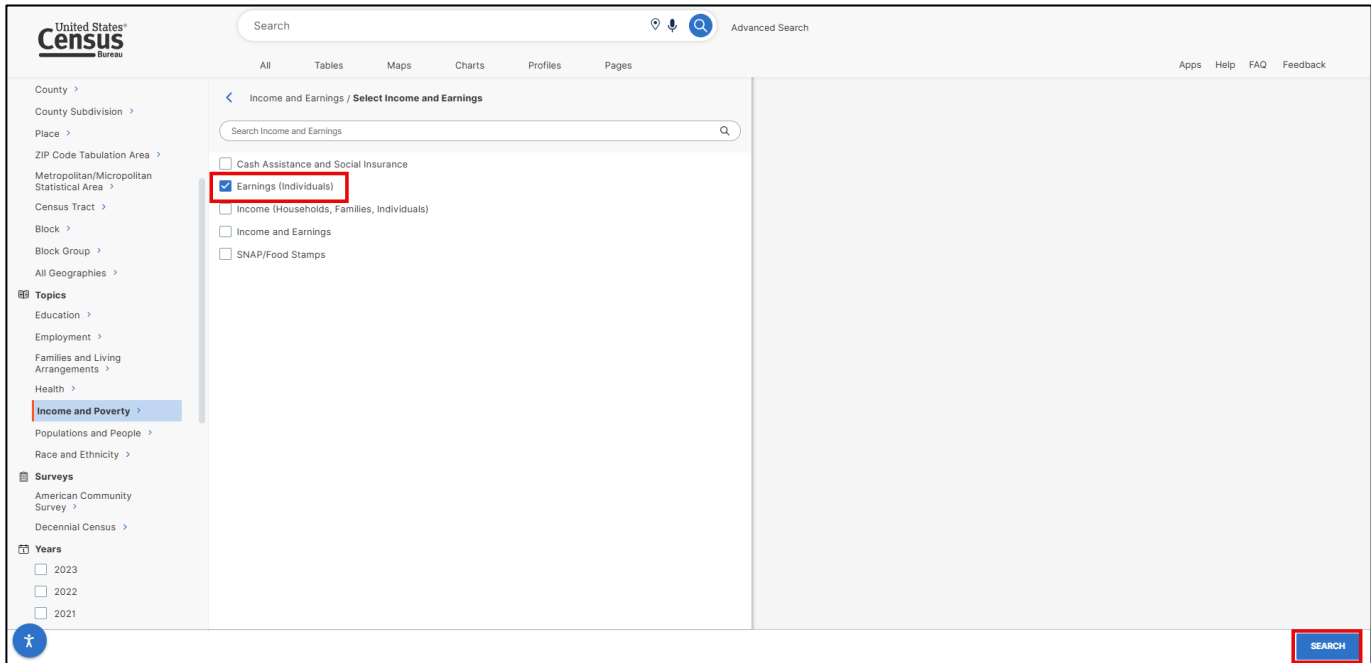
Step 1. For this exercise, we want to find median earnings data for Chippewa County, Minnesota. Start by going to <https://data.census.gov/>. Click on the Advanced Search button located directly beneath the search bar. Alternatively, you can go directly to the Advanced Search by going to <https://data.census.gov/advanced>.



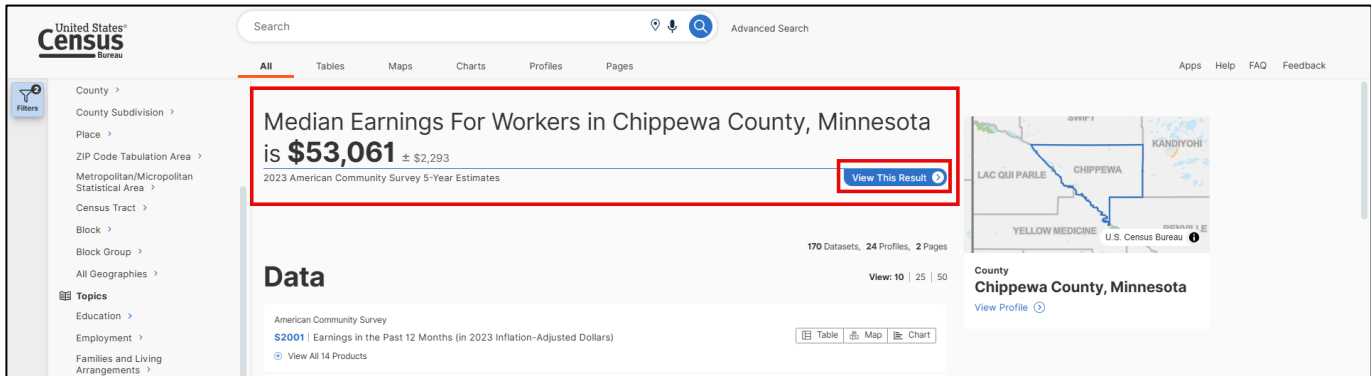
Step 2. Let's select the geographies first. Click on Geography > County > Minnesota > check the box for Chippewa County, Minnesota



Step 3. Next, under Topics, click on Income and Poverty > Income and Earnings > check the box for Earnings (Individuals). Then hit the Search button in the lower right corner of the screen.



Step 4. This returns the full list of tables that are related to earnings data for Chippewa County. We can also see a featured statistic that provides a median earnings figure for Chippewa County. Let's keep that number in mind and click on the 'View This Result' button to get more information.



Step 5. You can see that this data is coming from table S2001. After scanning the table, we can confirm that the median earnings for full-time, year-round workers is \$53,061 using the 2023 1-year ACS estimates.

Label	Total		Percent		Male	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Population 16 years and over with earnings	6,682	±177	6,682	±177	3,620	±113
Median earnings (dollars)	39,736	±2,744	(X)	(X)	46,971	±4,697
FULL-TIME, YEAR-ROUND WORKERS WITH EARNINGS	4,064	±236	4,064	±236	2,320	±152
\$1 to \$9,999 or less	66	±30	1.6%	±0.7	35	±19
\$10,000 to \$14,999	34	±22	0.8%	±0.6	17	±14
\$15,000 to \$24,999	147	±48	3.6%	±1.2	56	±22
\$25,000 to \$34,999	667	±139	16.4%	±3.6	246	±95
\$35,000 to \$49,999	962	±186	23.7%	±4.0	456	±121
\$50,000 to \$64,999	842	±151	20.7%	±3.4	536	±93
\$65,000 to \$74,999	367	±84	9.0%	±2.0	245	±73
\$75,000 to \$99,999	554	±115	13.6%	±2.6	396	±107
\$100,000 or more	425	±78	10.5%	±2.0	333	±70
Median earnings (dollars) for full-time, year-round workers with earnings	53,061	±2,293	(X)	(X)	58,385	±3,320
Mean earnings (dollars) for full-time, year-round workers with earnings	64,241	±3,505	(X)	(X)	73,289	±4,682
MEDIAN EARNINGS BY EDUCATIONAL ATTAINMENT						
Population 25 years and over with earnings	44,403	±3,524	(X)	(X)	54,032	±2,707
Less than high school graduate	30,536	±3,173	(X)	(X)	45,625	±18,515
High school graduate (includes equivalency)	34,045	±2,161	(X)	(X)	41,313	±3,138

ACS Data in the Census API

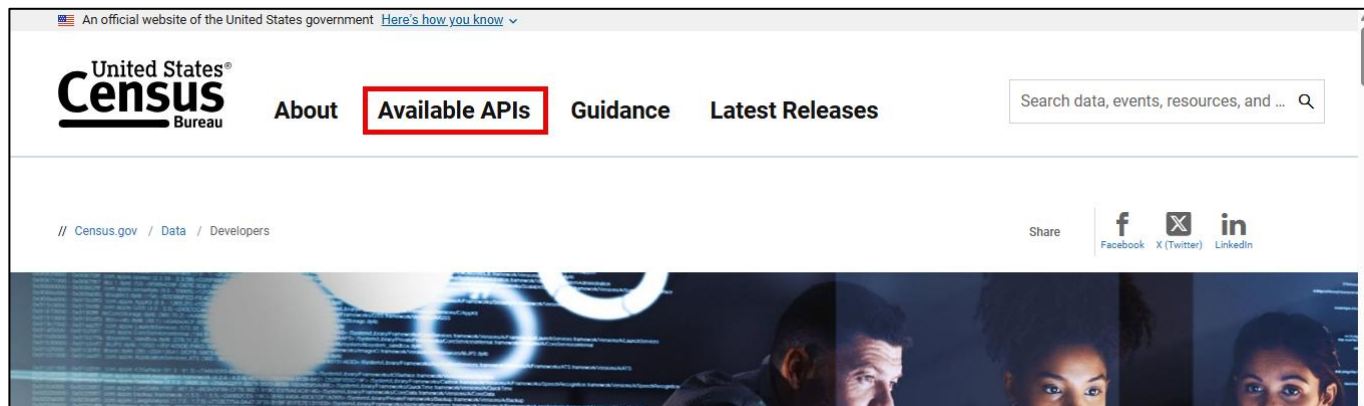
So, you've taken a look at the data in data.census.gov, but maybe you want just one variable from the ACS for a bunch of geographies instead of pulling a large table within the site. Maybe you want to view data points from different tables at once, or maybe you want to use Census data in a third-party app or dashboard? In these cases, you'd likely want to use the Census Application Programming Interface, or API. Data.census.gov actually pulls its data directly from the API, but it puts it together into a readable table, map, or chart format.

3 Group Exercises

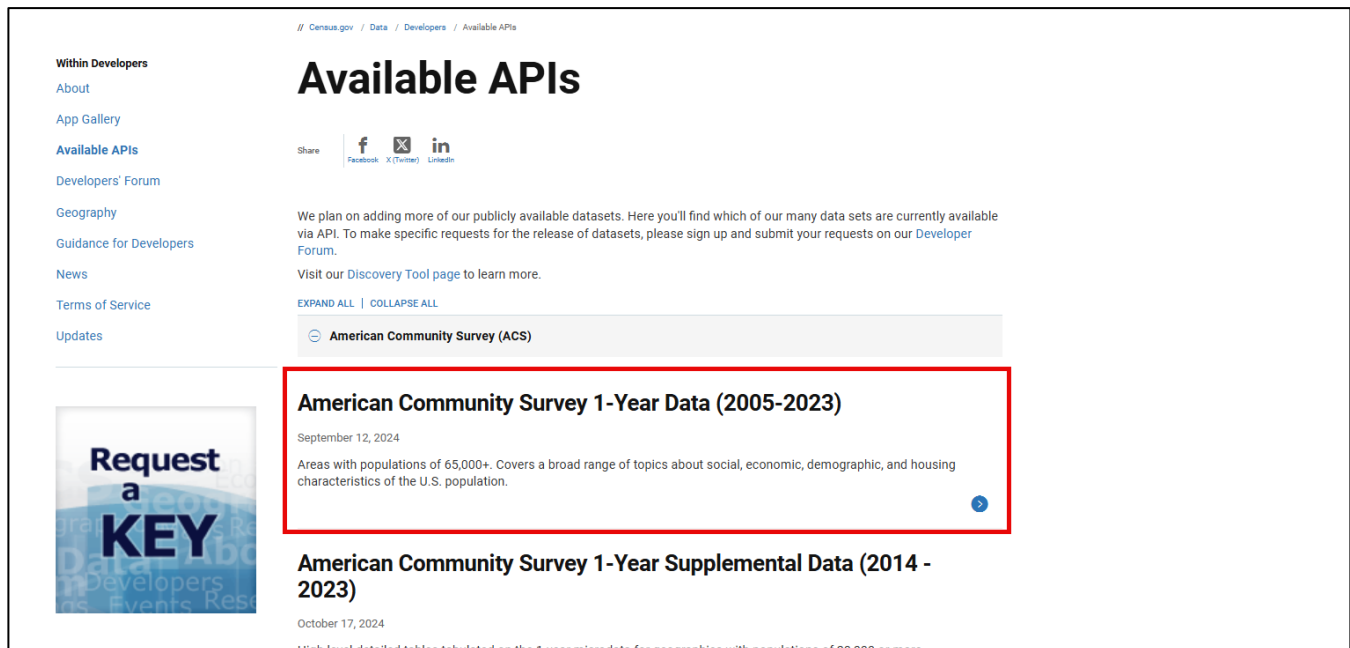
In this section, you'll learn how to get to the Census API, select a dataset, and then build a query. You'll also learn how to create a group call, which will provide all the data found in a table for selected geographies.

3.1 Unemployed population for all states in the U.S.

Step 1. Start by going to the Available APIs page (<https://www.census.gov/data/developers/data-sets.html>). It can be found through our Developers page (<https://www.census.gov/data/developers.html>). From here, click on Available APIs.



The Available APIs page displays the American Community Survey (ACS) API datasets at the top of the list. If you expand the view, you can see all the datasets from the ACS that are available in the Census API. Since our example is looking at all states, we can pull our table from the 1-Year Data. Click on 'American Community Survey 1-Year Data.'



Within Developers

- About
- App Gallery
- Available APIs
- Developers' Forum
- Geography
- Guidance for Developers
- News
- Terms of Service
- Updates

Available APIs

Share [Facebook](#) [X \(Twitter\)](#) [LinkedIn](#)

We plan on adding more of our publicly available datasets. Here you'll find which of our many data sets are currently available via API. To make specific requests for the release of datasets, please sign up and submit your requests on our [Developer Forum](#).

Visit our [Discovery Tool](#) page to learn more.

[EXPAND ALL](#) | [COLLAPSE ALL](#)

American Community Survey (ACS)

American Community Survey 1-Year Data (2005-2023)

September 12, 2024

Areas with populations of 65,000+. Covers a broad range of topics about social, economic, demographic, and housing characteristics of the U.S. population.

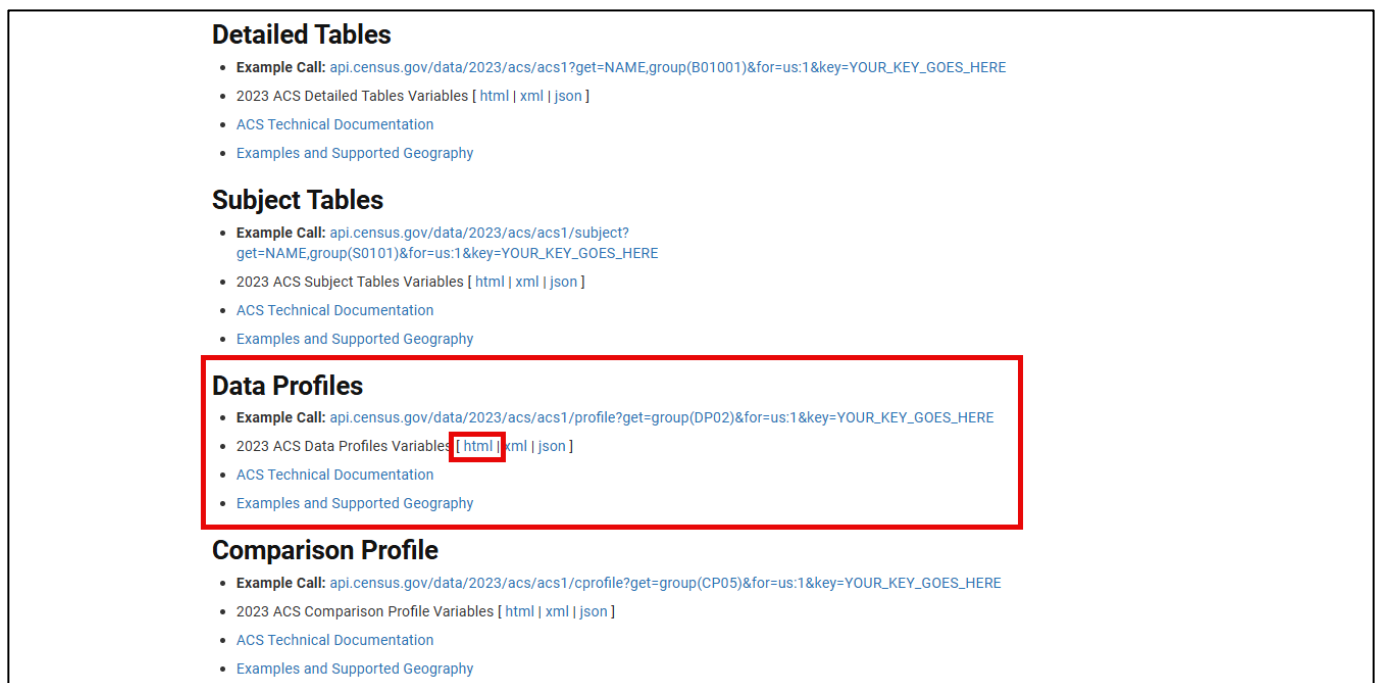
American Community Survey 1-Year Supplemental Data (2014 - 2023)

October 17, 2024

High-level detailed tables tabulated on the 1-year microdata for geographies with populations of 20,000 or more.

Step 2. The ACS 1-Year API page provides information on the different table types (which informs the structure of your query), variable changes, and sections for each dataset that has example calls, variables, technical documentation, and supported geographies. Since Data Profiles have a lot of varied data points, let's see if there is a variable for the estimated total unemployed population.

To check this, go to the Data Profiles heading on the 2023 page, and select the HTML version of the 2023 ACS Data Profiles Variables.



Detailed Tables

- **Example Call:** [api.census.gov/data/2023/acs/acs1?get=NAME,group\(B01001\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1?get=NAME,group(B01001)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Detailed Tables Variables [[html](#) | [xml](#) | [json](#)]
- [ACS Technical Documentation](#)
- [Examples and Supported Geography](#)

Subject Tables

- **Example Call:** [api.census.gov/data/2023/acs/acs1/subject?get=NAME,group\(S0101\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/subject?get=NAME,group(S0101)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Subject Tables Variables [[html](#) | [xml](#) | [json](#)]
- [ACS Technical Documentation](#)
- [Examples and Supported Geography](#)

Data Profiles

- **Example Call:** [api.census.gov/data/2023/acs/acs1/profile?get=group\(DP02\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/profile?get=group(DP02)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Data Profiles Variables [[html](#) | [xml](#) | [json](#)]
- [ACS Technical Documentation](#)
- [Examples and Supported Geography](#)

Comparison Profile

- **Example Call:** [api.census.gov/data/2023/acs/acs1/cprofile?get=group\(CP05\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/cprofile?get=group(CP05)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Comparison Profile Variables [[html](#) | [xml](#) | [json](#)]
- [ACS Technical Documentation](#)
- [Examples and Supported Geography](#)

Step 3. This page will provide you with a comprehensive list of variables for all Data Profile tables (DP02, DP03, DP04, and DP05). Using the CTRL + F function, search for ‘unemployed’. The first variable, DP03_0005E, is what we’re looking for. Keep that variable code in mind as we go to build the rest of our query.

DP03_0001PE	Percent!!EMPLOYMENT STATUS!!Population 16 years and over	Selected Economic Characteristics	not required	unemployed 1/12			DP03
DP03_0002E	Estimate!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force	Selected Economic Characteristics	not required	DP03_0002EA, DP03_0002M, DP03_0002MA	0	int	DP03
DP03_0002PE	Percent!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force	Selected Economic Characteristics	not required	DP03_0002PEA, DP03_0002PM, DP03_0002PMA	0	float	DP03
DP03_0003E	Estimate!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force!!Civilian labor force	Selected Economic Characteristics	not required	DP03_0003EA, DP03_0003M, DP03_0003MA	0	int	DP03
DP03_0003PE	Percent!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force!!Civilian labor force	Selected Economic Characteristics	not required	DP03_0003PEA, DP03_0003PM, DP03_0003PMA	0	float	DP03
DP03_0004E	Estimate!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force!!Civilian labor force!!Employed	Selected Economic Characteristics	not required	DP03_0004EA, DP03_0004M, DP03_0004MA	0	int	DP03
DP03_0004PE	Percent!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force!!Civilian labor force!!Employed	Selected Economic Characteristics	not required	DP03_0004PEA, DP03_0004PM, DP03_0004PMA	0	float	DP03
DP03_0005E	Estimate!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force!!Civilian labor force!!Unemployed	Selected Economic Characteristics	not required	DP03_0005EA, DP03_0005M, DP03_0005MA	0	int	DP03
DP03_0005PE	Percent!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force!!Civilian labor force!!Unemployed	Selected Economic Characteristics	not required	DP03_0005PEA, DP03_0005PM, DP03_0005PMA	0	float	DP03
DP03_0006E	Estimate!!EMPLOYMENT STATUS!!Population 16 years and over!!In labor force!!Armed Forces	Selected Economic Characteristics	not required	DP03_0006EA, DP03_0006M, DP03_0006MA	0	int	DP03

Step 4. Navigate back to the ACS API page. Then, open the ‘Examples and Supported Geography’ link. This will provide example queries for the available geographies in the Data Profiles.

Subject Tables

- Example Call: [api.census.gov/data/2023/acs/acs1/subject?get=NAME,group\(S0101\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/subject?get=NAME,group(S0101)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Subject Tables Variables [[html](#) | [xml](#) | [json](#)]
- ACS Technical Documentation
- Examples and Supported Geography

Data Profiles

- Example Call: [api.census.gov/data/2023/acs/acs1/profile?get=group\(DP02\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/profile?get=group(DP02)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Data Profiles Variables [[html](#) | [xml](#) | [json](#)]
- ACS Technical Documentation
- Examples and Supported Geography

Comparison Profile

- Example Call: [api.census.gov/data/2023/acs/acs1/cprofile?get=group\(CP05\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/cprofile?get=group(CP05)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Comparison Profile Variables [[html](#) | [xml](#) | [json](#)]
- ACS Technical Documentation
- Examples and Supported Geography

Then, select the link to the Examples.


Census API: Datasets in /data/2023/acs/acs1/profile and its descendants

Title	Description	Vintage	Dataset Name	Dataset Type	Geography List	Variable List	Group List	SortList	Examples	Developer Documentation	API Base URL
ACS 1-Year Data Profiles	The American Community Survey (ACS) is a US-wide survey designed to provide communities a fresh look at how they are changing. The ACS replaced the decennial census long form in 2010 and thereafter by collecting long form type information throughout the decade rather than only once every 10 years. Questionnaires are mailed to a sample of addresses to obtain information about households – that is, about each person and the housing unit itself. The American Community Survey produces demographic, social, housing and economic estimates in the form of 1 and 5-year estimates based on population thresholds. The strength of the ACS is in estimating population and housing characteristics. The data profiles provide key estimates for each of the topic areas covered by the ACS for the us, all 50 states, the District of Columbia, Puerto Rico, every congressional district, every metropolitan area, and all counties and places with populations of 65,000 or more. Although the ACS produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the US, states, counties, cities and towns, and estimates of housing units for states and counties. For 2010 and other decennial census years, the Decennial Census provides the official counts of population and housing units.	2023	acs+acs1+profile	Aggregate	geographies	variables	groups	sorts	examples	documentation	http://api.census.gov/data/2023/acs/acs1/profile
1 dataset											

Step 5. Following this link will open a list of example calls by geography. The state level examples are toward the top of the page. The asterisk in the query indicates that data will be pulled for all states, so let's select the first example query in the state section.

Census API: Examples for /data/2023/acs/acs1/profile			
Geography Hierarchy	Geography Level	Example URL	Number
us	010	https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=us.*&key=YOUR_KEY_GOES_HERE	1
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=us.1&key=YOUR_KEY_GOES_HERE	2
region	020	https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=region.*&key=YOUR_KEY_GOES_HERE	3
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=region.3&key=YOUR_KEY_GOES_HERE	4
division	030	https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=division.*&key=YOUR_KEY_GOES_HERE	5
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=division.5&key=YOUR_KEY_GOES_HERE	6
state	040	https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=state.*&key=YOUR_KEY_GOES_HERE	7
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=state.06&key=YOUR_KEY_GOES_HERE	8
state> county	050	https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=county.*&key=YOUR_KEY_GOES_HERE	9
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=county.*&in=state.*&key=YOUR_KEY_GOES_HERE	10
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=county.037&in=state.06&key=YOUR_KEY_GOES_HERE	11
state> county> county subdivision	060	https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=county%20subdivision.*&in=state.17&key=YOUR_KEY_GOES_HERE	12
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=county%20subdivision.*&in=state.17&in=county.*&key=YOUR_KEY_GOES_HERE	13
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=county%20subdivision.14000&in=state.17&in=county.021&key=YOUR_KEY_GOES_HERE	14
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=place.*&key=YOUR_KEY_GOES_HERE	15
state> place	160	https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=place.*&in=state.*&key=YOUR_KEY_GOES_HERE	16
		https://api.census.gov/data/2023/acs/acs1/profile?get=NAME&for=place.51000&in=state.36&key=YOUR_KEY_GOES_HERE	17

Step 6. Now we have the query open. As the query currently stands, it is only displaying the state name and FIPS code. We are going to add our variable into this query by adding a comma (,) behind the NAME code and typing **DP03_0005E** (do not include any spaces). Then click enter to run the updated query URL.



Step 7. The API output now updates to show the state name, the estimate of the total unemployed population by state, and the state FIPS code.

api.census.gov/data/2023/acs/acs1/profile?get=NAME,DP03_0005E&for=state*	
Pretty-print	
<pre>[{"NAME": "DP03_0005E", "state": [{"state": "Alabama", "fips": "01"}, {"state": "Alaska", "fips": "02"}, {"state": "Arizona", "fips": "04"}, {"state": "Arkansas", "fips": "05"}, {"state": "California", "fips": "06"}, {"state": "Colorado", "fips": "08"}, {"state": "Connecticut", "fips": "09"}, {"state": "Delaware", "fips": "10"}, {"state": "District of Columbia", "fips": "11"}, {"state": "Florida", "fips": "12"}, {"state": "Hawaii", "fips": "15"}, {"state": "Idaho", "fips": "16"}, {"state": "Illinois", "fips": "17"}, {"state": "Indiana", "fips": "18"}, {"state": "Iowa", "fips": "19"}, {"state": "Kansas", "fips": "20"}, {"state": "Kentucky", "fips": "21"}, {"state": "Louisiana", "fips": "22"}, {"state": "Maine", "fips": "23"}, {"state": "Maryland", "fips": "24"}, {"state": "Massachusetts", "fips": "25"}, {"state": "Michigan", "fips": "26"}, {"state": "Minnesota", "fips": "27"}, {"state": "Mississippi", "fips": "28"}, {"state": "Missouri", "fips": "29"}, {"state": "Montana", "fips": "30"}, {"state": "Nebraska", "fips": "31"}, {"state": "Nevada", "fips": "32"}, {"state": "New Hampshire", "fips": "33"}, {"state": "New Jersey", "fips": "34"}, {"state": "New Mexico", "fips": "35"}, {"state": "New York", "fips": "36"}, {"state": "North Carolina", "fips": "37"}, {"state": "North Dakota", "fips": "38"}, {"state": "Ohio", "fips": "39"}, {"state": "Oklahoma", "fips": "40"}, {"state": "Oregon", "fips": "41"}, {"state": "Pennsylvania", "fips": "42"}, {"state": "Rhode Island", "fips": "44"}, {"state": "South Carolina", "fips": "45"}, {"state": "South Dakota", "fips": "46"}, {"state": "Tennessee", "fips": "47"}, {"state": "Texas", "fips": "48"}, {"state": "Utah", "fips": "49"}, {"state": "Vermont", "fips": "50"}, {"state": "Virginia", "fips": "51"}, {"state": "Washington", "fips": "53"}, {"state": "West Virginia", "fips": "54"}, {"state": "Wisconsin", "fips": "55"}, {"state": "Wyoming", "fips": "56"}, {"state": "Puerto Rico", "fips": "72"}]}</pre>	

3.2 Commuting data for all counties in the U.S.

Step 1. Now we are going to try out a group call, which will pull data from an entire table. You'll also learn how you can add a few extra commands to your query so you can download the data in a machine-readable table format that includes variable labels for easier reading.

To get started, let's use a different path to access the API – specifically, from the ACS program page. First, go to census.gov/acs. This will take you directly to the ACS program page, which has a lot of helpful information related to the ACS. Click on the 'American Community Survey Data' link.

The screenshot shows the 'American Community Survey (ACS)' page. The top navigation bar includes links for Partners, Researchers, Educators, Survey Respondents, News, NAICS Codes, Jobs, About Us, Contact Us, and Help. Below this is a search bar and a menu with 'Topics', 'Data & Maps', 'Surveys & Programs' (which is highlighted), and 'Resource Library'. The main content area features a sidebar on the left with links like 'About the ACS', 'Respond to the ACS', 'News & Updates', 'Data', 'Microdata', 'Guidance for Data Users', 'Geography & ACS', 'Technical Documentation', 'Research & Methodology', 'Information For...', 'Library', and 'Contact Us'. The main heading is 'American Community Survey (ACS)', followed by a brief description of the survey. Below this is a 'Featured' section with a video thumbnail. A red box highlights the 'American Community Survey Data' link in the sidebar and the corresponding section on the main page, which states: 'The American Community Survey releases new data every year, in the form of estimates, in a variety of tables, tools, and analytical reports.'

Step 2: Then, click on the 'Data via API' link in the sidebar on the left side of the screen. This will provide a similar layout to the Available APIs page, but specifically tailored to ACS data. Select the 'American Community Survey 5-Year Data' link.

The screenshot shows the 'American Community Survey Data' page. The top navigation bar is the same as the previous page. The sidebar on the left is titled 'Within American Community Survey (ACS)' and includes links for 'Custom Tabulations', 'Data Tables', 'Data Tools', 'Data via API' (highlighted with a red box), 'Data via FTP', 'Equal Employment Opportunity (EEO)', 'Experimental Data', and 'Race, Ethnicity, Ancestry and American Indian & Alaska Native Population'. The main heading is 'American Community Survey Data', followed by a description of the survey. Below this is a 'Get Started Accessing ACS Data' section with a brief description of the data. A red box highlights the 'American Community Survey 5-Year Data (2009-2023)' link in the sidebar and the corresponding section on the main page, which states: 'Data available down to the block-group level. Covers a range of topics about social, economic, demographic, and housing characteristics of the U.S. population.'

Step 3. Now we’ve reached the same page layout that we saw in the first example. For this next exercise, we’re going to use an example group call and modify it to show data for table S0801 – which we’ve taken a look at in this workshop already – for all counties in the U.S.

Since S0801 is a Subject Table, go to that section of the 2023 page. Click on the Examples link, which will open in a new tab.

Detailed Tables

- **Example Call:** `api.census.gov/data/2023/acs/acs5?get=NAME,group(B01001)&for=us:1&key=YOUR_KEY_GOES_HERE`
- 2023 ACS Detailed Tables Variables [[html](#) | [xml](#) | [json](#)]
- ACS Technical Documentation
- Examples
- Supported Geography

Subject Tables

- **Example Call:** `api.census.gov/data/2023/acs/acs5/subject?get=NAME,group(S0101)&for=us:1&key=YOUR_KEY_GOES_HERE`
- 2023 ACS Subject Tables Variables [[html](#) | [xml](#) | [json](#)]
- ACS Technical Documentation
- **Examples**
- Supported Geography

Data Profiles

- **Example Call:** `api.census.gov/data/2023/acs/acs5/profile?get=group(DP02)&for=us:1&key=YOUR_KEY_GOES_HERE`

Step 4. Now, let’s check out the example queries for counties. Since we’re looking for data for all counties, select the first query in the set of county level examples.

Census API: Examples for /data/2023/acs/acs5/subject			
Geography Hierarchy	Geography Level	Example URL	Number
us	010	https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=us:*&key=YOUR_KEY_GOES_HERE	1
		https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=us:1&key=YOUR_KEY_GOES_HERE	2
region	020	https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=region:*&key=YOUR_KEY_GOES_HERE	3
		https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=region:3&key=YOUR_KEY_GOES_HERE	4
division	030	https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=division:*&key=YOUR_KEY_GOES_HERE	5
		https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=division:5&key=YOUR_KEY_GOES_HERE	6
state	040	https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=state:*&key=YOUR_KEY_GOES_HERE	7
		https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=state:06&key=YOUR_KEY_GOES_HERE	8
state> county	050	https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=county:*&key=YOUR_KEY_GOES_HERE	9
		https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=county:*&in=state:*&key=YOUR_KEY_GOES_HERE	10
		https://api.census.gov/data/2023/acs/acs5/subject?get=NAME,S0101_C01_001E&for=county:017&in=state:06&key=YOUR_KEY_GOES_HERE	11

Step 5. Next we need to change from looking at a single variable to looking at data for all of table S0801. Delete `NAME,S0101_C01_001E` from the URL and replace it with `group(S0801)`. Then click Enter to run the query.

api.census.gov/data/2023/acs/acs5/subject?get=~~NAME,S0101_C01_001E~~&for=county:*

Pretty-print

```
[["NAME","S0101_C01_001E","state","county"],
["Autauga County, Alabama","59285","01","001"],
["Baldwin County, Alabama","239945","01","003"],
["Barbour County, Alabama","24757","01","005"],
```

api.census.gov/data/2023/acs/acs5/subject?get=group(S0801)&for=county:*

Pretty-print

```
[["GEO_ID","NAME","S0801_C01_001E","S0801_C01_001EA","S0801_C01_001M","S0801_C01_001MA","S0801_C01_002E","S0801_C01_002EA","S0801_C01_002M","S0801_C01_002MA","S0801_C01_003MA","S0801_C01_004E","S0801_C01_004EA","S0801_C01_004M","S0801_C01_004MA","S0801_C01_005E","S0801_C01_005EA","S0801_C01_005M","S0801_C01_005MA","S0801_C01_006MA","S0801_C01_007E","S0801_C01_007EA","S0801_C01_007M","S0801_C01_007MA","S0801_C01_008E","S0801_C01_008EA","S0801_C01_008M","S0801_C01_008MA","S0801_C01_009MA","S0801_C01_010E","S0801_C01_010EA","S0801_C01_010M","S0801_C01_010MA","S0801_C01_011E","S0801_C01_011EA","S0801_C01_011M","S0801_C01_011MA","S0801_C01_012MA","S0801_C01_013E","S0801_C01_013EA","S0801_C01_013M","S0801_C01_013MA","S0801_C01_014E","S0801_C01_014EA","S0801_C01_014M","S0801_C01_014MA","S0801_C01_015MA","S0801_C01_016E","S0801_C01_016EA","S0801_C01_016M","S0801_C01_016MA","S0801_C01_017E","S0801_C01_017EA","S0801_C01_017M","S0801_C01_017MA"]]
```

&outputFormat=csv – this will provide a download of the data in API format

Step 7. Clicking Enter on this new query will trigger a download of the Excel file that provides descriptions of the geographies and the variable names. Open the downloaded file to view the data in a more accessible format.

[illegible]

4 Individual Exercise

4.1 Marital status data for South Carolina

Step 1. For this exercise, we want to find the number of females who have never married in South Carolina using the ACS API. Go to the Available APIs page: <https://www.census.gov/data/developers/data-sets.html> and select the American Community Survey 1-Year Data.

Available APIs

Within Developers
About
App Gallery
Available APIs
Developers' Forum
Geography
Guidance for Developers
News
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Updates

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We plan on adding more of our publicly available datasets. Here you'll find which of our many data sets are currently available via API. To make specific requests for the release of datasets, please sign up and submit your requests on our [Developer Forum](#).
Visit our [Discovery Tool](#) page to learn more.

EXPAND ALL | COLLAPSE ALL

⊖ American Community Survey (ACS)

American Community Survey 1-Year Data (2005-2023)
September 12, 2024
Areas with populations of 65,000+. Covers a broad range of topics about social, economic, demographic, and housing characteristics of the U.S. population.

American Community Survey 1-Year Supplemental Data (2014 - 2023)
October 17, 2024
High-level detailed tables tabulated on the 1-year microdata for geographies with populations of 20,000 or more.

Step 2. For this example, let's go back to the Data Profiles to see if there's a marital status variable. Under the Data Profiles heading, click on the HTML version of the 2023 ACS Data Profiles Variables.

Subject Tables

- **Example Call:** `api.census.gov/data/2023/acs/acs1/subject?get=NAME,group(S0101)&for=us:1&key=YOUR_KEY_GOES_HERE`
- 2023 ACS Subject Tables Variables [[html](#) | [xml](#) | [json](#)]
- [ACS Technical Documentation](#)
- [Examples and Supported Geography](#)

Data Profiles

- **Example Call:** `api.census.gov/data/2023/acs/acs1/profile?get=group(DP02)&for=us:1&key=YOUR_KEY_GOES_HERE`
- 2023 ACS Data Profiles Variables [[html](#) | [xml](#) | [json](#)]
- [ACS Technical Documentation](#)
- [Examples and Supported Geography](#)

Comparison Profile

- **Example Call:** `api.census.gov/data/2023/acs/acs1/cprofile?get=group(CP05)&for=us:1&key=YOUR_KEY_GOES_HERE`
- 2023 ACS Comparison Profile Variables [[html](#) | [xml](#) | [json](#)]
- [ACS Technical Documentation](#)
- [Examples and Supported Geography](#)

Step 3. Once you reach the Variable list, use the Control + F functionality and search for ‘marital’. You’ll have to scroll through the variables for the male population first, but you’ll find that the variable code for females 15 and over who have never been married is DP02_0032E. Keep that code in mind as we build the rest of our query.

DP02_0028E	Percent!!MARITAL STATUS!!Males 15 years and over!!Separated	Selected Social Characteristics in the United States	required	marital	1/48	^	v	x	DP02
DP02_0029E	Estimate!!MARITAL STATUS!!Males 15 years and over!!Widowed	Selected Social Characteristics in the United States	not required	DP02_0029EA, DP02_0029M, DP02_0029MA	0	int			DP02
DP02_0029PE	Percent!!MARITAL STATUS!!Males 15 years and over!!Widowed	Selected Social Characteristics in the United States	not required	DP02_0029PEA, DP02_0029PM, DP02_0029PMA	0	float			DP02
DP02_0030E	Estimate!!MARITAL STATUS!!Males 15 years and over!!Divorced	Selected Social Characteristics in the United States	not required	DP02_0030EA, DP02_0030M, DP02_0030MA	0	int			DP02
DP02_0030PE	Percent!!MARITAL STATUS!!Males 15 years and over!!Divorced	Selected Social Characteristics in the United States	not required	DP02_0030PEA, DP02_0030PM, DP02_0030PMA	0	float			DP02
DP02_0031E	Estimate!!MARITAL STATUS!!Females 15 years and over	Selected Social Characteristics in the United States	not required	DP02_0031EA, DP02_0031M, DP02_0031MA	0	int			DP02
DP02_0031PE	Percent!!MARITAL STATUS!!Females 15 years and over	Selected Social Characteristics in the United States	not required	DP02_0031PEA, DP02_0031PM, DP02_0031PMA	0	int			DP02
DP02_0032E	Estimate!!MARITAL STATUS!!Females 15 years and over!!Never married	Selected Social Characteristics in the United States	not required	DP02_0032EA, DP02_0032M, DP02_0032MA	0	int			DP02
DP02_0032PE	Percent!!MARITAL STATUS!!Females 15 years and over!!Never married	Selected Social Characteristics in the United States	not required	DP02_0032PEA, DP02_0032PM, DP02_0032PMA	0	float			DP02
DP02_0033E	Estimate!!MARITAL STATUS!!Females 15 years and over!!Now married, except separated	Selected Social Characteristics in the United States	not required	DP02_0033EA, DP02_0033M, DP02_0033MA	0	int			DP02

Step 4. Next, we’ll go back to the ACS API page and click on the Examples and Supported Geography link. Then, select the link to the Examples.

Subject Tables

- Example Call: [api.census.gov/data/2023/acs/acs1/subject?get=NAME,group\(S0101\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/subject?get=NAME,group(S0101)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Subject Tables Variables [[html](#) | [xml](#) | [json](#)]
- ACS Technical Documentation
- Examples and Supported Geography

Data Profiles

- Example Call: [api.census.gov/data/2023/acs/acs1/profile?get=group\(DP02\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/profile?get=group(DP02)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Data Profiles Variables [[html](#) | [xml](#) | [json](#)]
- ACS Technical Documentation
- Examples and Supported Geography

Comparison Profile

- Example Call: [api.census.gov/data/2023/acs/acs1/cprofile?get=group\(CP05\)&for=us:1&key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2023/acs/acs1/cprofile?get=group(CP05)&for=us:1&key=YOUR_KEY_GOES_HERE)
- 2023 ACS Comparison Profile Variables [[html](#) | [xml](#) | [json](#)]
- ACS Technical Documentation
- Examples and Supported Geography

Census API: Datasets in /data/2023/acs/acs1/profile and its descendants

Title	Description	Vintage	Dataset Name	Dataset Type	Geography List	Variable List	Group List	Sort List	Examples	Developer Documentation	API Base URL
ACS 1-Year Data Profiles	The American Community Survey (ACS) is a US-wide survey designed to provide communities a fresh look at how they are changing. The ACS replaced the decennial census long form in 2010 and thereafter by collecting long form type information throughout the decade rather than only once every 10 years. Questionnaires are mailed to a sample of addresses to obtain information about households – that is, about each person and the housing unit itself. The American Community Survey produces demographic, social, housing and economic estimates in the form of 1 and 5-year estimates based on population thresholds. The strength of the ACS is in estimating population and housing characteristics. The data profiles provide key estimates for each of the topic areas covered by the ACS for the us, all 50 states, the District of Columbia, Puerto Rico, every congressional district, every metropolitan area, and all counties and places with populations of 65,000 or more. Although the ACS produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the US, states, counties, cities and towns, and estimates of housing units for states and counties. For 2010 and other decennial census years, the Decennial Census provides the official counts of population and housing units.	2023	acs acs1 profile	Aggregate	geographies	variables	groups	sorts	examples	documentation	http://api.census.gov/data/2023/acs/acs1/profile
1 dataset											

Step 5. From the list of example queries, select the first one in the state section – this will pull data for all states the U.S.

Geography Hierarchy	Geography Level	Example URL	Number
us	010	https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=us*&key=YOUR_KEY_GOES_HERE	1
		https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=us.1&key=YOUR_KEY_GOES_HERE	2
region	020	https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=region.&key=YOUR_KEY_GOES_HERE	3
		https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=region.3&key=YOUR_KEY_GOES_HERE	4
division	030	https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=division.&key=YOUR_KEY_GOES_HERE	5
		https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=division.5&key=YOUR_KEY_GOES_HERE	6
state	040	https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=state.&key=YOUR_KEY_GOES_HERE	7
		https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=state.06&key=YOUR_KEY_GOES_HERE	8
state> county	050	https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=county.&key=YOUR_KEY_GOES_HERE	9
		https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=county.&in=state.&key=YOUR_KEY_GOES_HERE	10
		https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=county.037&in=state.06&key=YOUR_KEY_GOES_HERE	11
state> county> county subdivision	060	https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=county%20subdivision.&in=state.17&key=YOUR_KEY_GOES_HERE	12
		https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=county%20subdivision.&in=state.17&in=county.&key=YOUR_KEY_GOES_HERE	13
		https://api.census.gov/data/2023/acs/1/profile?get=NAME&for=county%20subdivision.14000&in=state.17&in=county.031&key=YOUR_KEY_GOES_HERE	14

Step 6. To add the marital status variable to this query, add a comma (,) behind the NAME variable, and then add **DP02_0032E**. Then, click enter to update the query.

[←](#)
[→](#)
[🔍](#)
[🏠](#)
[🌐](#)
https://api.census.gov/data/2023/acs/1/profile?get=NAME,DP02_0032E&for=state:*

Pretty-print ☐

```

[["NAME","state"],
["Alabama","01"],
["Alaska","02"],
["Arizona","04"],
["Arkansas","05"],
["California","06"],
["Colorado","08"],
["Connecticut","09"],
["Georgia","13"],
["Delaware","10"],
["District of Columbia","11"],
["Florida","12"],
["Hawaii","15"],
["Idaho","16"],
["Illinois","17"],
["Indiana","18"],
["Iowa","19"],
["Kansas","20"],
["Kentucky","21"],
["Louisiana","22"],
["Maine","23"],
["Maryland","24"],
["Massachusetts","25"],
["Michigan","26"],
["Minnesota","27"],
["Mississippi","28"],
["Missouri","29"],
["Montana","30"],
["Nebraska","31"],
["Nevada","32"],
["New Hampshire","33"],
["New Jersey","34"],
["New Mexico","35"],
["New York","36"],
["North Carolina","37"],
["North Dakota","38"],
["Ohio","39"],
["Oklahoma","40"],
["Oregon","41"],
["Pennsylvania","42"],
["Rhode Island","43"],
["South Carolina","45"],
["South Dakota","46"],
["Tennessee","47"],
["Texas","48"],
["Utah","49"],
["Vermont","50"],
["Virginia","51"],
["Washington","52"],
["West Virginia","53"],
["Wisconsin","54"],
["Wyoming","55"],
["District of Columbia","11"],
["Puerto Rico","72"]]]
  
```

Step 7. The output now includes the number of females 15 and over who have never been married in each state. If you'd like to view the estimate for just South Carolina, you can replace the asterisk (*) in the geography portion of the query with FIPS code 45 for South Carolina.

[←](#)
[→](#)
[🔍](#)
[🏠](#)
[🌐](#)
https://api.census.gov/data/2023/acs/1/profile?get=NAME,DP02_0032E&for=state:45

Pretty-print ☐

```

[["NAME","DP02_0032E","state"],
["Alabama","641292","01"],
["Alaska","83618","02"],
["Arizona","95888","04"],
["Arkansas","35363","05"],
["California","571242","06"],
["Colorado","17926","08"],
["Connecticut","51953","09"],
["Georgia","153485","13"],
["Delaware","13701","10"],
["District of Columbia","165844","11"],
["Florida","278115","12"],
["Hawaii","17832","15"],
["Idaho","19945","16"],
["Illinois","1793205","17"],
["Indiana","83784","18"],
["Iowa","378014","19"],
["Kansas","324197","20"],
["Kentucky","488081","21"],
["Louisiana","641645","22"],
["Maine","159827","23"],
["Maryland","916292","24"],
["Massachusetts","1096430","25"],
["Michigan","1331907","26"],
["Minnesota","746202","27"],
["Mississippi","389260","28"],
["Missouri","52432","29"],
["Montana","11194","30"],
["Nebraska","224812","31"],
["Nevada","417969","32"],
["New Hampshire","165747","33"],
["New Jersey","1282899","34"],
["New Mexico","288282","35"],
["New York","3886780","36"],
["North Carolina","1394520","37"],
["North Dakota","90160","38"],
["Ohio","152485","39"],
["Oklahoma","45636","40"],
["Oregon","53647","41"],
["Pennsylvania","1760267","42"],
["Rhode Island","86927","43"],
["South Carolina","688473","45"],
["South Dakota","80007","46"],
["Tennessee","865575","47"],
["Texas","3854483","48"],
["Utah","320557","49"],
["Vermont","5253","50"],
["Virginia","165747","51"],
["Washington","165747","52"],
["West Virginia","60945","53"],
["Wisconsin","193344","54"],
["Wyoming","56207","55"],
["District of Columbia","11"],
["Puerto Rico","72"]]]
  
```

Step 8. When we do this, we can see that there are 688,473 females aged 15 and over who have never been married in South Carolina.

[←](#)
[→](#)
[🔍](#)
[🏠](#)
[🌐](#)
api.census.gov/data/2023/acs/1/profile?get=NAME,DP02_0032E&for=state:45

Pretty-print ☐

```

[["NAME","DP02_0032E","state"],
["South Carolina","688473","45"]]
  
```


ACS Data in the Microdata Access Tool

Now what if you exhaust your search options in data.census.gov and the API, and still have not found the ACS data tables you're looking for? This is where the Microdata Access Tool, or MDAT, comes in handy. This tool allows you to create custom tables by selecting variables, geographies, and the table layout. It also lets you to create recodes for variables to allow for even more customization.

5 Group Exercises

5.1 Earnings by race for all states in the U.S.

For this first example, we are looking at earnings by race for all states in the U.S. Within data.census.gov, this is not a table we can find, so we can use MDAT and create our own earnings ranges by recoding the variable.

Step 1. The easiest way to get to MDAT is by going to the main data.census.gov page first:

<https://data.census.gov/>. Click on the Apps tab at the top right corner of the page, and then click on the widget for Microdata Access.

You can also access MDAT directly at <https://data.census.gov/app/mdat>.

The screenshot shows the data.census.gov website. The top navigation bar includes links for Tables, Maps, Charts, Profiles, Pages, and Apps. The 'Apps' link is highlighted with a red box. Below the navigation bar, the 'Explore Census Data' section is visible. The main content area is titled 'Apps' and features a widget titled 'Select a Dataset & Vintage'. This widget has a red border and contains the following elements:

- Select a Dataset:** A dropdown menu showing 'ACS 1-Year Estimates Public Use Microdata Sample'.
- Select a Vintage:** A dropdown menu showing '2022'.
- Microdata:** A section with the text 'Explore datasets, create crosstabulations, and download United States Census microdata.'

To the right of the 'Select a Dataset & Vintage' widget is a 'Population Pyramids' widget, which displays a horizontal bar chart showing population distribution by age and sex. The 'Select a Dataset & Vintage' widget also has a red box around it.

Step 2. Now you are at the main landing page of MDAT. Start by selecting the Dataset and Vintage. By default, MDAT displays the ACS 1-Year Estimates Public Use Microdata Sample (PUMS) for the most recent year data is available. We'll use the default dataset and vintage for our first example—the 2023 ACS 1-Year Estimates Public Use Microdata Sample. Then, click on the Next button.

DatasetVariablesCartTable

Select a Dataset & Vintage

Select a Dataset:ACS 1-Year Estimates Public Use Microdata SampleACSPUMS1Y

Select a Vintage:2023

NEXT

Find Your Saved Page
Got a link from MDAT Beta? Find your saved page in the new MDAT app.

Step 3. That action will take you to the Variables tab. If you know the variable code, you can type it into the Variable search bar to the left. However, if you don't know the variable code, you can always use the Label search bar to the right, and type in a keyword or phrase.

For this example, you're looking for two variables: earnings and race. Start by typing 'earnings' into the Label search bar. You can see that variable PERNP comes up in the search. If you click on the chevron next to the variable name, you can see what values are contained within the variable.

To add this variable to the Cart, click on the checkbox to the left of the variable code. When you do, you'll see a message that says that the variable is continuous and can only be added to "Cell Value Options," and that you must create a group (recode) to use this variable elsewhere. This just means that in order to include the PERNP variable on the table, you'll need to create a recode, which is where you'll create custom groups pulled from the values within the earnings variable.

DatasetVariablesGeographiesCart1Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Filter by Topic: -- All Topics --

Selected: 1 variable (1 column, 1 row)

	Variable	Label	Value Count	Type
<input checked="" type="checkbox"/>	> PERNP	Total person's earnings (use ADJINC to adjust to constant doll...	5	Estimate
<input type="checkbox"/>	> ADJINC	Adjustment factor for income and earnings dollar amounts (6 i...	1	Estimate

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DatasetVariablesGeographiesCart1Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Filter by

Selected: 1 variable (1 column, 1 row)

This "PERNP:Total person's earnings (use ADJINC to adjust to constant dollars)" variable is continuous and can only be added to "Cell Value Options." Create a group (recode) to use this variable elsewhere.

	Variable	Label	Value Count	Type
<input checked="" type="checkbox"/>	> PERNP	Total person's earnings (use ADJINC to adjust to constant doll...	5	Estimate
<input type="checkbox"/>	> ADJINC	Adjustment factor for income and earnings dollar amounts (6 i...	1	Estimate

Step 4. Now you need to add your race variable to the search. Using the Label search bar again, type in ‘race’ and select the RAC1P to add it to your Cart. Next, click on the Geographies tab.

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DatasetVariablesGeographiesCart2Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Filter by Topic: -- All Topics --

Selected: 2 variables (9 columns, 1 row)

	Variable	Label	Value Count	Type
<input type="checkbox"/>	> RACIAAN	American Indian and Alaska Native recode (American Indian and Alaska Native alone or in combination ...	2	Edited Items
<input type="checkbox"/>	> RACASN	Asian recode (Asian alone or in combination with one or more other races)	2	Edited Items
<input type="checkbox"/>	> RACBLK	Black or African American recode (Black alone or in combination with one or more other races)	2	Edited Items
<input type="checkbox"/>	> RACNUM	Number of major race groups represented	1	Edited Items
<input type="checkbox"/>	> RACSOR	Some other race recode (Some other race alone or in combination with one or more other races)	2	Edited Items
<input type="checkbox"/>	> RACWHT	White recode (White alone or in combination with one or more other races)	2	Edited Items
<input type="checkbox"/>	> RACNH	Native Hawaiian recode (Native Hawaiian alone or in combination with one or more other races)	2	Recodes
<input type="checkbox"/>	> RACPI	Other Pacific Islander recode (Other Pacific Islander alone or in combination with one or more other ra...	2	Recodes
<input checked="" type="checkbox"/>	> RAC1P	Recoded detailed race code	9	Recodes
<input type="checkbox"/>	> HHLDRRAC1P	Recoded detailed race code of the householder	10	Estimate
<input type="checkbox"/>	> RAC3P	Recoded detailed race code	100	Recodes
<input type="checkbox"/>	> RAC2P	Recoded detailed race code	64	Recodes

Step 5. For your geographies, you’ll need to select all states in the U.S. Once you select the Geographies tab, click on the State button, and then click Select All. This will add all states and DC to your selected geographies once you go into the table view. Next, you’ll move on to the Cart tab.

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DatasetVariablesGeographies51Cart2Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

REGIONDIVISIONSTATE (51)PUMAGROUP

STATE

☒ Alabama
☒ Alaska
☒ Arizona
☒ Arkansas
☒ California
☒ Colorado
☒ Connecticut
☒ Delaware
☒ District of Columbia
☒ Florida
☒ Georgia
☒ Hawaii
☒ Idaho

SELECT ALL

AlabamaAlaskaArizonaArkansasCaliforniaColoradoConnecticutDelawareDistrict of ColumbiaFloridaGeorgiaHawaiiIdahoIllinois

Step 6. This is where you can select which values in each variable you want to see in your table, as well as create recodes. For this example, create a recode for your earnings variable. Switch over to the PERNP variable. You can see that the available values look a little different from those for the race variable, as the PERNP values are ranges (making it a continuous variable). To start a recode, click on the Create Custom Group button.

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DatasetVariablesGeographies51Cart2Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

2 selected variables

RAC1P
9 of 9 values

PERNP
5 of 5 values

DELETED ALL VARIABLES

Total person's earnings (use ADJINC to adjust to constant dollars) (PERNP)

CREATE CUSTOM GROUP

	Label	Value
<input checked="" type="checkbox"/>	Loss of \$10000 or more (Rounded and bottom-coded components)	-10000
<input checked="" type="checkbox"/>	N/A (less than 16 years old). Unselect this value to get correct calculation of average for this variable	-10001
<input checked="" type="checkbox"/>	Loss \$1 to \$9999 (Rounded components)	-9999-1
<input checked="" type="checkbox"/>	No earnings	0
<input checked="" type="checkbox"/>	\$1 to \$1999998 (Rounded and top-coded components)	1:1999998

Step 7. This is where you can select which values go in each of your custom groups. Since this variable is continuous, it also means you can adjust these ranges to show exactly what you want to see on the table. Let's start off by creating a group for No Earnings or N/A. Change the group label to create your first group and then uncheck each of the other values so only the 'N/A' and 'No earnings' checkboxes are left. Then, click on the Save Group button to lock in this first group.

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DatasetVariablesGeographies51Cart3Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

3 selected variables

RAC1P
9 of 9 values

PERNP
5 of 5 values

PERNP_RC1
1 of 1 group

DELETE ALL VARIABLES

Recode for Total person's earnings (use ADJINC to adjust to constant dollars) (PERNP_RC1)

Group Label

No Earnings or N/A

CANCELSAVE GROUP

	Label	Value
<input type="checkbox"/>	Loss of \$10000 or more (Rounded and bottom-coded components)	-10000
<input checked="" type="checkbox"/>	N/A (less than 16 years old). Unselect this value to get correct calculation of average for this variable	-10001
<input type="checkbox"/>	Loss \$1 to \$9999 (Rounded components)	-9999-1
<input checked="" type="checkbox"/>	No earnings	0
<input type="checkbox"/>	\$1 to \$1999998 (Rounded and top-coded components)	1:1999998

Step 8. Now, you have your first group, and the rest of the values are in this 'Not Elsewhere Classified' group. Click on the pencil icon to edit the remaining values.

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DatasetVariablesGeographies51Cart3Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

3 selected variables

RAC1P
9 of 9 values

PERNP
5 of 5 values

PERNP_RC1
2 of 2 groups

DELETE ALL VARIABLES

Recode for Total person's earnings (use ADJINC to adjust to constant dollars) (PERNP_RC1)

Group Label

Not Elsewhere Grouped

Not Earnings or N/A

CANCELSAVE GROUP

	Label	Group
<input checked="" type="checkbox"/>	Not Elsewhere Grouped	-10000,-9999-1;1:1999998
<input checked="" type="checkbox"/>	No Earnings or N/A	-10001,0

Step 9. The next group will show Loss of Income, so type that into the Group Label box. Uncheck the bottom value, which provides data on those who did have earnings. This leaves you with the two loss-of-income values selected. Then, click on the Save Group button.

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DatasetVariablesGeographies51Cart3Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

3 selected variables

RAC1P
9 of 9 values

PERNP
5 of 5 values

PERNP_RC1
2 of 2 groups

DELETE ALL VARIABLES

Recode for Total person's earnings (use ADJINC to adjust to constant dollars) (PERNP_RC1)

Group Label

Loss of Income

CANCELSAVE GROUP

	Label	Value
<input checked="" type="checkbox"/>	Loss of \$10000 or more (Rounded and bottom-coded components)	-10000
<input checked="" type="checkbox"/>	Loss \$1 to \$9999 (Rounded components)	-9999-1
<input type="checkbox"/>	\$1 to \$1999998 (Rounded and top-coded components)	1:1999998

Step 10. Now you can see that the Loss of Income group is found underneath your first group. Now start grouping the remaining earnings values, again by clicking on the pencil icon next to the Not Elsewhere Grouped label.

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DatasetVariablesGeographies51Cart3Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

3 selected variables

RAC1P
9 of 9 values

PERNP
5 of 5 values

PERNP_RC1
3 of 3 groups

DELETE ALL VARIABLES

Recode for Total person's earnings (use ADJINC to adjust to constant dollars) (PERNP_RC1)

Group Label

Not Elsewhere Grouped

No Earnings or N/A

Loss of Income

CANCELSAVE GROUP

	Label	Group
<input checked="" type="checkbox"/>	Not Elsewhere Grouped	1:1999998
<input checked="" type="checkbox"/>	No Earnings or N/A	-10001,0
<input checked="" type="checkbox"/>	Loss of Income	-10000,-9999-1

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Dataset
Variables
Geographies ⁵¹
Cart ³
Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

3 selected variables

RAC1P
9 of 9 values

PERNP
5 of 5 values

PERNP_RC1
3 of 3 groups

DELETE ALL VARIABLES

Recode for Total person's earnings (use ADJINC to adjust to constant dollars) (PERNP_RC1)

Group Label
Under 50,000 in Earnings

<input checked="" type="checkbox"/>	Label	Value
<input checked="" type="checkbox"/>	\$1 to \$1999998 (Rounded and top-coded components)	1:1999998

AUTO GROUP

CANCEL
SAVE GROUP

×

\$1 to \$1999998 (Rounded and top-coded components)

Minimum

Maximum

1

×

49999

×

RESET

CANCEL

SAVE

United States[®]
Census
Bureau

Dataset

Variables

Geographies ⁵¹

Cart ³

Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

3 selected variables

RAC1P
9 of 9 values

PERNP
5 of 5 values

PERNP_RC1
3 of 3 groups

DELETE ALL VARIABLES

Recode for Total person's earnings (use ADJINC to adjust to constant dollars) (PERNP_RC1)

Group Label

Under 50,000 in Earnings

☒

Label

☒

Between 1 and 49999

Value

1-49999

CANCEL

SAVE GROUP

- \$50,000 to \$99,999 in Earnings: 50,000 – 99,999
- \$100,000 to \$199,999 in Earnings: 100,000 – 199,999
- \$200,000 in Earnings and Above: 200,000 to the maximum top-coded value of 1,999,998*

Once you finish creating your recode (which is denoted by PERNP_RC1), click on the Table tab.

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Dataset
Variables
Geographies
Cart
Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

3 selected variables

RAC1P
9 of 9 values

PERNP
5 of 5 values

PERNP_RC1
6 of 6 groups

DELETE ALL VARIABLES

Recode for Total person's earnings (use ADJINC to adjust to constant dollars) (PERNP_RC1)

☒
Label

Group

<input checked="" type="checkbox"/>	No Earnings or N/A	-10001,0		
<input checked="" type="checkbox"/>	Loss of Income	-10000, -9999-1		
<input checked="" type="checkbox"/>	Under 50,000 in Earnings	1-49999		
<input checked="" type="checkbox"/>	\$50,000 to \$99,999 in Earnings	50000-99999		
<input checked="" type="checkbox"/>	\$100,000 to \$199,999 in Earnings	100000-199999		
<input checked="" type="checkbox"/>	\$200,000 in Earnings and Above	200000-1999998		

Step 14. This is where you'll determine which variables go into either the columns or the rows. You have flexibility when it comes to the table view, so you can arrange the table in the configuration you can most easily read.

For now, click and drag the Selected Geographies up to the Columns and move the race variable to the Rows. The earnings recode (PERNP_RC1) is currently in the Not on Table section, but since you made sure to include all possible values within your new variable, you don't have to worry about this variable limiting the universe of your table. Move the earnings recode up to the Rows as well.

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Dataset
Variables
Geographies ⁵¹
Cart ³
Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Custom Table

Columns

RAC1P

Selected Geographies

Rows

PERNP_RC1

Not on Table

PERNP

Cell Value Options

Selected Geogr...	Recoded detailed race code (RAC1P) <			
	Total Recoded d...	White alone	Black or African ...	American Indian ...
Total	334,914,896	202,699,918	40,643,491	2,673,588
Alabama	5,108,468	3,301,197	1,301,436	20,464
Alaska	733,406	438,927	20,949	1,525
Arizona	7,431,344	4,328,278	356,383	271,057
Arkansas	3,067,732	2,113,135	441,440	17,331
California	38,965,193	15,003,908	2,109,591	431,450
Colorado	5,877,610	4,135,307	230,797	51,576
Connecticut	3,617,176	2,340,321	393,243	11,878
Delaware	1,031,890	610,638	230,320	2,776
District of Colu...	678,972	263,642	278,188	1,185
Florida	22,610,726	12,534,313	3,363,712	77,658
Georgia	11,029,227	5,554,907	3,400,818	41,293

Step 15. Now you can view the data from the custom table you created, including the values in the recoded earnings variable.

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Custom Table

Group	Recode for Total person's earnings (us...	Selected Geographies <														
		Total Select...	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	District of ...	Florida	Georgia	Hawaii		
Total		334,914,896	5,108,468	733,406	7,431,344	3,067,732	38,965,193	5,877,610	3,617,176	1,031,890	678,972	22,610,726	11,029,227	1,435,138	1	
▼ Total American Indian alone (6)		2,673,588	20,464	1,525	271,057	17,331	431,450	51,576	11,878	2,776	1,185	77,658	41,293	2,627		
	No Earnings or N/A	1,285,810	10,638	291	154,151	6,041	195,662	21,979	4,940	791	87	32,310	18,176	997		
	Loss of Income	644	0	16	0	0	35	0	0	0	0	45	70	0		
	Under 50,000 in Earnings	953,854	7,169	807	81,484	8,270	150,225	17,639	4,824	1,730	165	33,740	17,619	1,182		
	\$50,000 to \$99,999 in Earnings	328,204	1,409	362	27,748	2,352	61,059	9,118	1,426	251	667	9,136	3,790	378		
	\$100,000 to \$199,999 in Earnings	91,775	1,145	0	6,549	592	21,886	2,413	592	4	266	1,661	1,209	70		
	\$200,000 in Earnings and Above	13,301	103	49	1,125	76	2,583	427	96	0	0	766	429	0		
▼ Total White alone (6)		202,699,918	3,301,197	438,927	4,328,278	2,113,135	15,003,908	4,135,307	2,340,321	610,638	263,642	12,534,313	5,554,907	315,418	1	
	No Earnings or N/A	92,106,163	1,648,755	186,153	2,080,389	1,067,372	6,879,884	1,643,587	989,465	278,649	62,203	6,289,726	2,560,849	139,921		
	Loss of Income	98,646	1,194	116	2,677	781	7,797	2,051	947	356	151	7,668	1,862	69		
	Under 50,000 in Earnings	55,417,982	919,623	120,915	1,125,286	619,854	3,470,998	1,109,317	586,144	166,364	39,451	3,277,380	1,529,361	83,152		
	\$50,000 to \$99,999 in Earnings	33,982,467	501,991	74,367	705,707	306,093	2,239,219	798,342	432,343	106,628	52,588	1,846,536	905,354	52,419		
	\$100,000 to \$199,999 in Earnings	15,707,495	183,075	44,662	308,665	87,695	1,669,318	442,146	235,375	44,168	74,966	804,841	408,671	33,126		
	\$200,000 in Earnings and Above	5,387,165	46,559	12,714	105,554	31,340	736,692	139,864	96,047	14,473	34,283	308,162	148,810	6,731		
▼ Total Asian alone (6)		20,041,560	78,925	44,480	270,015	53,792	6,147,275	195,030	174,258	44,150	28,165	682,238	498,824	516,680		
	No Earnings or N/A	8,464,513	34,522	15,196	109,483	23,058	2,716,598	72,534	66,206	16,345	5,896	307,153	210,038	226,355		
	Loss of Income	7,740	0	0	50	0	2,501	0	0	0	0	277	56	681		

Step 16. To Download or Share this table, click on the Download/Share button in the bottom right corner of the screen.

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Dataset

Variables

Geographies 11

Cart 3

Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

> Custom Table

Group	Recode for Total person's earnings (us...	Selected Geographies <													
		Total Select...	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	District of ...	Florida	Georgia	Hawaii	
Total		334,914,896	5,108,468	733,406	7,431,344	3,067,732	38,965,193	5,877,610	3,617,176	1,031,890	678,972	22,610,726	11,029,227	1,435,138	1
▼ Total American Indian alone (6)		2,673,588	20,464	1,525	271,057	17,331	431,450	51,576	11,878	2,776	1,185	77,658	41,293	2,627	
	No Earnings or N/A	1,285,810	10,638	291	154,151	6,041	195,662	21,979	4,940	791	87	32,310	18,176	997	
	Loss of Income	644	0	16	0	0	35	0	0	0	0	45	70	0	
	Under 50,000 in Earnings	953,854	7,169	807	81,484	8,270	150,225	17,639	4,824	1,730	165	33,740	17,619	1,182	
	\$50,000 to \$99,999 in Earnings	328,204	1,409	362	27,748	2,352	61,059	9,118	1,426	251	667	9,136	3,790	378	
	\$100,000 to \$199,999 in Earnings	91,775	1,145	0	6,549	592	21,886	2,413	592	4	266	1,661	1,209	70	
	\$200,000 in Earnings and Above	13,301	103	49	1,125	76	2,583	427	96	0	0	766	429	0	
▼ Total White alone (6)		202,699,918	3,301,197	438,927	4,328,278	2,113,135	15,003,908	4,135,307	2,340,321	610,638	263,642	12,534,313	5,554,907	315,418	1
	No Earnings or N/A	92,106,163	1,648,755	186,153	2,080,389	1,067,372	6,879,884	1,643,587	989,465	278,649	62,203	6,289,726	2,560,849	139,921	
	Loss of Income	98,646	1,194	116	2,677	781	7,797	2,051	947	356	151	7,668	1,862	69	
	Under 50,000 in Earnings	55,417,982	919,623	120,915	1,125,286	619,854	3,470,998	1,109,317	586,144	166,364	39,451	3,277,380	1,529,361	83,152	
	\$50,000 to \$99,999 in Earnings	33,982,467	501,991	74,367	705,707	306,093	2,239,219	798,342	432,343	106,628	52,588	1,846,536	905,354	52,419	
	\$100,000 to \$199,999 in Earnings	15,707,495	183,075	44,662	308,665	87,695	1,669,318	442,146	235,375	44,168	74,966	804,841	408,671	33,126	
	\$200,000 in Earnings and Above	5,387,165	46,559	12,714	105,554	31,340	736,692	139,864	96,047	14,473	34,283	308,162	148,810	6,731	
▼ Total Asian alone (6)		20,041,560	78,925	44,480	270,015	53,792	6,147,275	195,030	174,258	44,150	28,165	682,238	498,824	516,680	
	No Earnings or N/A	8,464,513	34,522	15,196	109,483	23,058	2,716,598	72,534	66,206	16,345	5,896	307,153	210,038	226,355	
	Loss of Income	7,740	0	0	50	0	2,501	0	0	0	0	277	56	681	

Show Totals

VIEW UNIVERSE

DOWNLOAD/SHARE

You can download the table in either a CSV or Excel format or download the raw data in either the CSV or JSON format.

Total

33

DOWNLOAD

SHARE

Select Table Data Format

CSV

Excel

EXPORT TABLE DATA

Select Raw Data Formats

CSV

JSON

Weight(s) included

PUMS person weight (PWGTP)*

Housing Unit Weight (WGTP)

Weight associated with a selected variable *

DOWNLOAD RAW DATA

1,031,890

678,972

22,610,726

2,776

1,185

77,658

791

87

32,310

0

0

45

1,730

165

33,740

251

667

9,136

4

266

1,661

0

0

766

610,638

263,642

12,534,313

278,649

62,203

6,289,726

356

151

7,668

166,364

39,451

3,277,380

106,628

52,588

1,846,536

44,168

74,966

804,841

14,473

34,283

308,162

We also have the share tab, which allows you to share the table via social media, and provides links to bookmark in your browser so you don't have to go through creating the table each time you want to view it directly on MDAT.

Total

33

DOWNLOAD

SHARE

X

f

in

Copy URL to share

Bookmark

https://data.census.gov/app/mdat/ACSPUMS1Y2023/table?cv=ucgid&rv=RAC1P,PERNP_RC...

COPY

API GET Query

https://api.census.gov/data/2023/acs/acs1/pums?get=PWGTP,RAC1P,PERNP_RC1,PERNP_u...

COPY

API TABULATE Query

https://api.census.gov/data/2023/acs/acs1/pums?tabulate=weight(PWGTP)&col=ucgid&row...

COPY

1,031,890

678,972

22,610,726

2,776

1,185

77,658

791

87

32,310

0

0

45

1,730

165

33,740

251

667

9,136

4

266

1,661

0

0

766

610,638

263,642

12,534,313

278,649

62,203

6,289,726

356

151

7,668

166,364

39,451

3,277,380

106,628

52,588

1,846,536

44,168

74,966

804,841

14,473

34,283

308,162

5.2 Hispanic origin and sex by single year of age for the U.S.

This next example will cover how to create a recode using MDAT's Autogroup feature.

Step 1. Go to the main landing page of MDAT at <https://data.census.gov/app/mdat>. You can use the default dataset and vintage, the ACS 1-Year PUMS for 2023. Then, click on the Next button.

Select a Dataset & Vintage

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

Select a Vintage: 2023
2023

NEXT

Find Your Saved Page
Got a link from MDAT Beta? [Find your saved page](#) in the new MDAT app.

Step 2. Now you need to select your variables. There are three in this example: age, sex, and Hispanic origin. The age variable, AGEP, appears at the top of the default list of variables. Select the AGEP variable by clicking on the checkbox next to the variable code and add it to your cart.

Like the last example, a message appears telling you that the AGEP variable is continuous. Since we are planning on creating a recode for this anyway, you can move on to selecting the other two variables.

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Filter by Topic: -- All Topics --

Selected: 1 variable (1 column, 1 row)

Variable	Label	Value Count	Type
<input checked="" type="checkbox"/> > AGEP	Age	2	Estimate
<input type="checkbox"/> > DRIVESP	Number of vehicles calculated from JWRI	7	Estimate
<input type="checkbox"/> > FPARC	Family presence and age of related children	5	Recodes
<input type="checkbox"/> > GRPIP	Gross rent as a percentage of household income past 12 months	3	Estimate
<input type="checkbox"/> > JWAP	Time of arrival at work - hour and minute	287	Edited Items
<input type="checkbox"/> > JWDP	Time of departure for work - hour and minute	151	Estimate
<input type="checkbox"/> > JWRIP	Vehicle occupancy	11	Estimate
<input type="checkbox"/> > MV	When moved into this house or apartment	8	Estimate

This "AGEP:Age" variable is continuous and can only be added to "Cell Value Options." Create a group (recode) to use this variable elsewhere.

Showing 221 of 522 variables. Use Type filter to show/hide variable types.

CHANGE DATASET **VIEW TABLE**

Step 3. Next, type 'sex' into the Label search bar and select the SEX variable to add it to your Cart.

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Dataset Variables Geographies Cart **2** Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Filter by Topic: -- All Topics -- Selected: 2 variables (2 columns, 1 row)

Variable	Label	Value Count	Type
<input type="checkbox"/> > SEX	Sex	2	Edited Items

Then, type 'Hispanic' into the Label search bar and select the HISP variable to add it to your Cart. Since you're building this table for the whole U.S., you don't need to select a geography (if you don't add a geography, the table defaults to providing data for the nation). Once you've added all your variables, move straight to the Cart tab.

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Dataset Variables Geographies Cart **3** Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Filter by Topic: -- All Topics -- Selected: 3 variables (2 columns, 24 rows)

Variable	Label	Value Count	Type
<input type="checkbox"/> > HHLDHRHISP	Recoded detailed Hispanic origin of the householder	25	Estimate
<input checked="" type="checkbox"/> > HISP	Recoded detailed Hispanic origin	24	Recodes

Step 4. Now that you've reached the Cart tab, start on your recode. Select the AGE variable and click on the Create Custom Group button.

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Dataset Variables Geographies Cart **3** Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

3 selected variables

SEX
2 of 2 values

HISP
24 of 24 values

AGE
2 of 2 values

DELETE ALL VARIABLES

Age (AGEP)

CREATE CUSTOM GROUP

Label	Value
Under 1 year	0
1 to 99 years (Top-coded)	1-99

Step 5. Instead of creating groups individually, click on the Auto Group button in the top right corner of the screen.

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Dataset Variables Geographies Cart **3** Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

4 selected variables

SEX
2 of 2 values

HISP
24 of 24 values

AGE
2 of 2 values

AGEP
1 of 1 group

DELETE ALL VARIABLES

Recode for Age (AGEP_RC1)

Group Label

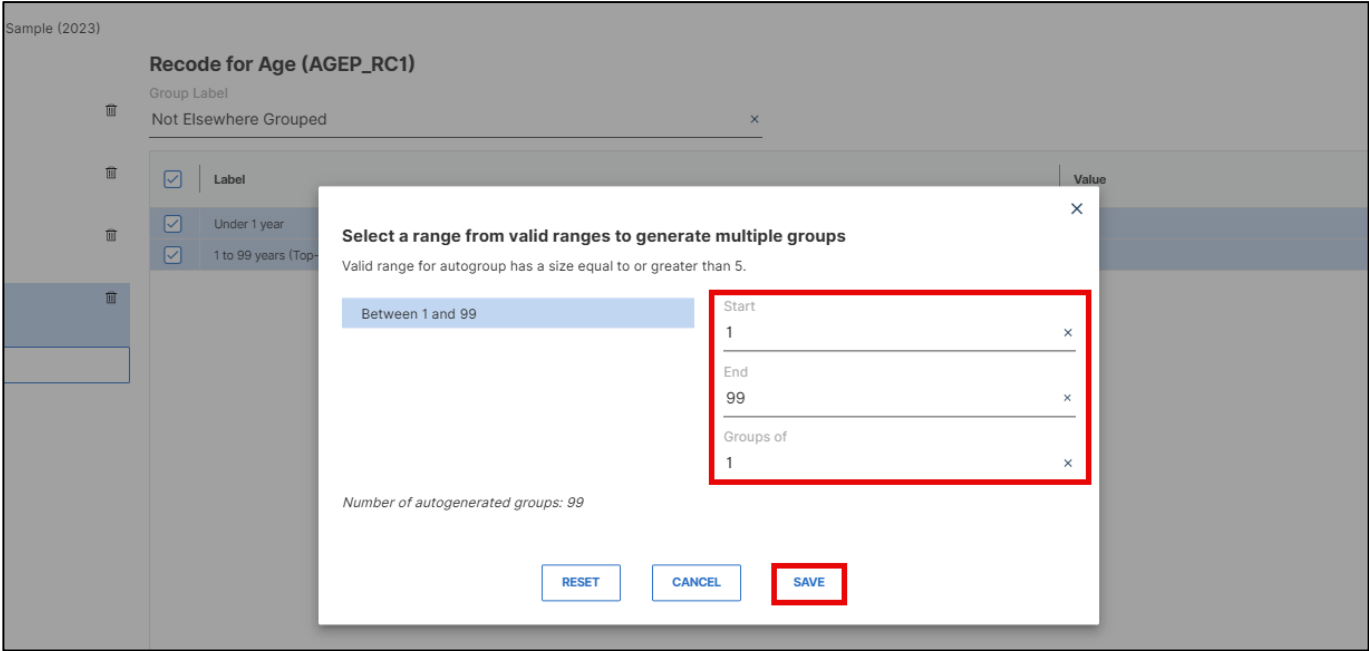
Not Elsewhere Grouped

Label	Value
Under 1 year	0
1 to 99 years (Top-coded)	1-99

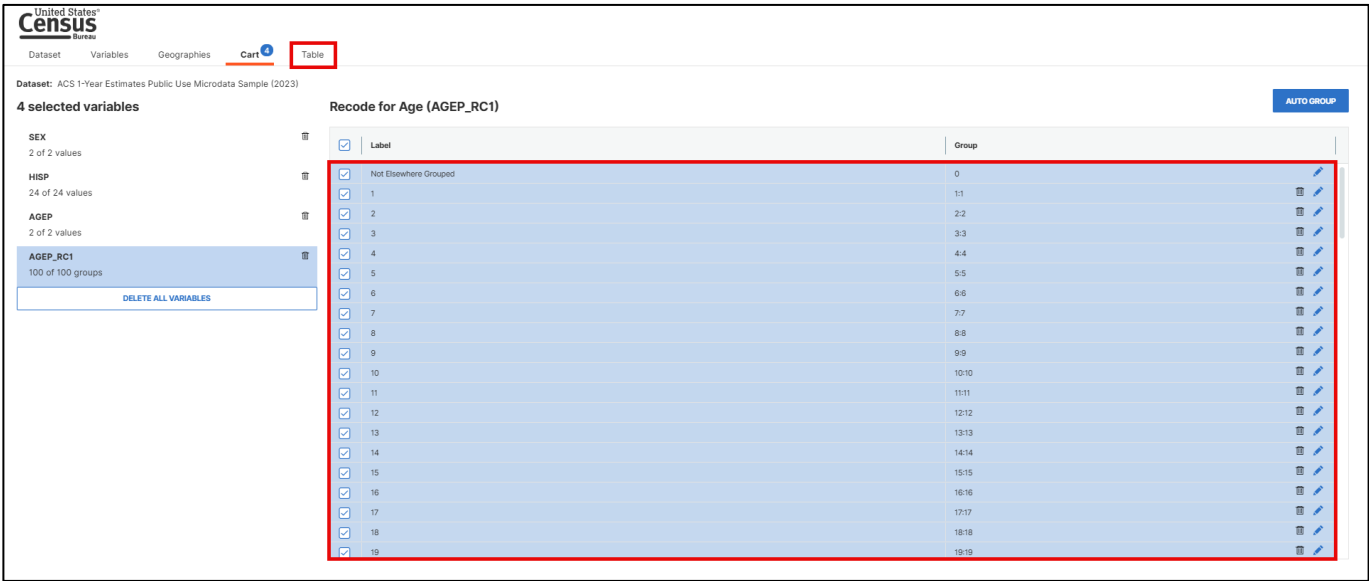
AUTO GROUP

CANCEL SAVE GROUP

Step 6. Within the Auto Group feature, you can choose what values to start and end with, and how many values are in each group. Since we want single year of age data, we can leave these preset values alone. To create these groups, click on the save button.



Step 7. We now have a recode that separates the AGEP variable into single year of age. To use this in your table and arrange the variables, move on to the Table tab.



Step 8. This is where we'll determine which variables go into either the columns or the rows. You have flexibility when it comes to the table view, so you can arrange the table in the configuration you can most easily read.

For now, click and drag the Hispanic origin variable up to the Columns and move the sex variable down to the Rows. The age recode, AGEP_RC1, is currently in the Not on Table section, but since you made sure to include all possible values within your new variable, you don't have to worry about this variable limiting the universe of your table. You can move the age recode up to the Rows, as well.

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DatasetVariablesGeographiesCart4Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

< Custom Table

Columns

SEX

Row

HISP

Not on Table

AGEP_RC1

Cell Value Options

AGEP

Recorded detailed Hispanic origin	Sex (SEX) <
	Total Sex (SEX)
Total	334,914,896
Not Spanish/Hispanic/Latino	269,777,481
Mexican	37,972,001
Puerto Rican	5,847,543
Cuban	2,559,354
Dominican	2,391,654
Costa Rican	174,692
Guatemalan	2,029,471
Honduran	1,377,479
Nicaraguan	599,545
Panamanian	251,642

Step 9. Now you can view the data from the custom table you created, including the values in the recoded AGEP variable.

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DatasetVariablesGeographiesCart4Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

> Custom Table

Group	Recode for A...	Recorded detailed Hispanic origin (HISP) <																
		Total Recode...	Not SpanishV...	Mexican	Puerto Rican	Cuban	Dominican	Costa Rican	Guatemalan	Honduran	Nicaraguan	Panamanian	Salvadoran	Other Centra...	Argentinean	Bolivian	Chilean	Colombian
	Total	334,914,896	269,777,481	37,972,001	5,847,543	2,559,354	2,391,654	174,692	2,029,471	1,377,479	599,545	251,642	2,600,469	31,730	338,199	149,816	217,361	1,632
▼ Tot... (100)		165,759,516	132,861,641	19,326,962	2,905,351	1,300,238	1,118,514	82,318	1,106,141	687,270	300,206	117,845	1,313,893	16,104	176,343	70,751	113,117	761
	Not Elsewher...	1,799,555	1,304,398	289,866	39,869	17,971	22,498	785	20,617	11,277	2,645	1,315	17,142	342	1,687	1,126	1,611	10
	1	1,857,202	1,363,487	291,172	41,160	16,339	23,635	1,166	17,622	10,356	3,238	2,249	21,759	0	1,727	1,287	1,610	10
	2	1,836,706	1,340,377	293,152	44,758	15,092	18,226	437	18,682	16,363	4,089	2,424	20,089	31	2,055	781	2,306	8
	3	1,926,765	1,420,362	295,998	53,254	11,339	20,595	1,509	19,925	13,062	4,649	951	20,666	587	2,214	1,408	2,050	9
	4	1,964,109	1,442,106	318,501	50,474	16,150	19,636	340	19,047	11,983	4,042	2,146	20,128	0	1,852	584	2,214	8
	5	1,949,268	1,454,236	291,708	48,551	13,862	17,599	400	17,845	12,793	4,965	1,372	19,286	213	1,751	844	2,528	11
	6	1,966,195	1,447,876	318,714	41,381	12,916	20,822	1,322	18,453	11,525	4,801	1,415	20,347	0	2,873	317	1,568	10
	7	2,046,904	1,512,269	318,186	47,743	15,209	21,250	1,662	15,035	19,392	6,778	1,050	22,294	71	1,434	931	2,913	8
	8	2,084,252	1,556,707	332,118	50,003	12,592	15,463	1,002	18,257	13,705	3,334	2,578	18,889	261	2,927	1,150	3,772	12
	9	2,084,991	1,563,371	318,996	47,177	12,907	19,244	1,297	17,129	12,189	5,440	1,390	19,641	104	1,532	690	1,402	10
	10	2,127,887	1,581,513	329,361	49,121	13,313	18,353	2,327	18,731	13,933	4,641	2,953	21,257	798	2,071	549	1,035	13
	11	2,095,662	1,554,822	344,682	43,130	13,163	18,092	1,487	17,052	14,611	3,267	2,118	20,441	171	2,392	1,686	1,314	9
	12	2,166,083	1,593,008	363,274	51,736	11,625	18,772	711	18,043	10,701	5,196	2,769	21,596	253	2,051	898	1,756	9
	13	2,223,280	1,636,613	373,083	53,109	8,118	18,796	1,298	17,931	14,402	4,638	2,913	16,750	0	2,667	681	1,731	12
	14	2,269,611	1,648,528	391,692	56,261	14,130	19,519	720	23,379	14,644	5,193	2,784	22,404	456	2,383	1,088	1,016	10
	15	2,289,020	1,685,341	383,147	53,808	11,925	18,381	1,026	13,402	15,253	4,988	1,697	21,312	374	3,159	789	1,627	13

Show Totals

VIEW UNIVERSE

DOWNLOAD/SHARE

6 Individual Exercise

6.1 Detailed language spoken at home by sex for California

Step 1. Go to the main landing page of MDAT at <https://data.census.gov/app/mdat>. You can use the default dataset and vintage, the ACS 1-Year PUMS for 2023. Then, click on the Next button.

Select a Dataset & Vintage

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

Select a Vintage: 2023
2023

NEXT

Find Your Saved Page
Got a link from MDAT Beta? [Find your saved page](#) in the new MDAT app.

Step 2. Now you need to select your variables. For this exercise, you'll only need to find two variables, the first being sex. In the Label search bar, type 'sex' and click on the checkbox next to the variable SEX.

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Dataset Variables Geographies Cart **1** Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Filter by Topic: -- All Topics --

Variable	Label	Value Count
<input checked="" type="checkbox"/> > SEX	Sex	2

Step 3. Clear the Label search bar and type in 'language.' Select the checkbox next to the variable LANP and then navigate to the Geographies tab.

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Dataset Variables **Geographies** Cart **2** Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

Filter by Topic: -- All Topics --

Selected: 2 variables (2 columns, 129 rows)

Variable	Label	Value Count	Type
<input type="checkbox"/> > HHLL	Household language	6	Estimate
<input type="checkbox"/> > LANX	Language other than English spoken at home	3	Edited Items
<input type="checkbox"/> > HHLLANP	Detailed household language	130	Estimate
<input checked="" type="checkbox"/> > LANP	Language spoken at home	129	Estimate

Step 4. In the Geographies tab, select the button for State. Then, click on the checkbox next to California. There’s no need to edit your variables or create any recodes in this example, so you can go straight to the Table tab.

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DatasetVariablesGeographies¹Cart²Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

REGIONDIVISIONSTATE (1)PUMAGROUP

STATE

☐Alabama

☐Alaska

☐Arizona

☐Arkansas

☒California

☐Colorado

☐Connecticut

☐Delaware

Step 5. This is where we’ll determine which variables go into either the columns or the rows. You have flexibility when it comes to the table view, so you can arrange the table in the configuration you can most easily read.

For now, click and drag the Selected Geographies up to the Columns, moving it in front of the Sex variable. The order of the table display is based on how you order the variables in the side panel; If you place the geographies in front of the sex variable, that will be reflected as the geographies appearing above the sex variable within the table.

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DatasetVariablesGeographies¹Cart²Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

< Custom Table

Columns

SEX

Rows

LANPSelected Geographies

Not on Table

To restructure the table, drag and drop the variables into the desired location.

Select Weight

Unweighted

PUMS person weight

Housing Unit Weight

Group	Selected Geographies	Sex (SEX)		
		Total Sex (SEX)	Male	Female
Total		38,965,193	19,454,122	19,511,071
▼ Total Jamaican Creole English (1)		3,663	1,162	2,501
	California	3,663	1,162	2,501
▼ Total Other English-based Cre... (1)		1,578	745	833
	California	1,578	745	833
▼ Total Haitian (1)		9,091	3,735	5,356
	California	9,091	3,735	5,356
▼ Total Kabuverdianu (1)		0	0	0
	California	0	0	0
▼ Total German (1)		90,417	44,112	46,305
	California	90,417	44,112	46,305
▼ Total Swiss German (1)		2,907	911	1,996
	California	2,907	911	1,996
▼ Total Pennsylvania German (1)		0	0	0
	California	0	0	0
▼ Total Yiddish (1)		3,706	1,814	1,892
	California	3,706	1,814	1,892
▼ Total Dutch (1)		15,309	8,972	6,337

Show Totals

Step 6. Now you can view the table. You need to know how many males spoke Italian in California, and from this table, we can see that the answer is 22,179.

United States[®]
Census
Bureau

DatasetVariablesGeographies1Cart2Table

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)

< Custom Table

Columns

Selected GeographiesSEX

Rows

LANP

Not on Table

To restructure the table, drag and drop the variables into the desired location.

Select Weight

Unweighted

PUMS person weight

Housing Unit Weight

Language spoken at home	Total	Selected Geographies		
		California		
		Sex (SEX)		
		Total Sex (SEX)	Male	Female
Total	38,965,193	38,965,193	19,454,122	19,511,071
Jamaican Creole English	3,663	3,663	1,162	2,501
Other English-based Creole languages	1,578	1,578	745	833
Haitian	9,091	9,091	3,735	5,356
Kabuverdianu	0	0	0	0
German	90,417	90,417	44,112	46,305
Swiss German	2,907	2,907	911	1,996
Pennsylvania German	0	0	0	0
Yiddish	3,706	3,706	1,814	1,892
Dutch	15,309	15,309	8,972	6,337
Afrikaans	4,184	4,184	2,219	1,965
Swedish	8,139	8,139	3,537	4,602
Danish	5,137	5,137	2,420	2,717
Norwegian	3,666	3,666	1,704	1,962
Italian	48,700	48,700	22,719	25,981
French	127,674	127,674	60,169	67,505

Show Totals

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