

Accessing ACS Microdata Through MDAT



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U.S. Census Bureau

Check out our new table display which allows you to dynamically add geographies, topics, or any applicable filters. You can reorder, pin, and hide with simple drag and drop functionality. Tab through different tables to make sure you found the right one, customize it, and then download multiple tables quickly. If you don't see a functionality you need, find a bug, or have a comment, drop us a line at cedsci.feedback@census.gov.

[VIEW TABLES](#)

Outline

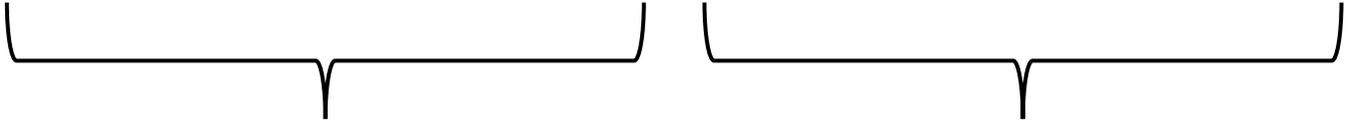
- Microdata Access Basics
- Microdata Access Demo
- Questions

Microdata Access on data.census.gov/mdat

- Use Microdata Access to create tabulations using Census public use microdata without programming or statistical software
- Only use this tool to create tabulations if a pre-tabulated Census table is **NOT** available.
- Only available for **large geographies** like states and PUMAs (about 100,000 people)
- Creates tables on the **variable level** so a program or survey data dictionary is handy to know those definitions

What is Public Use Microdata?

Public Use Microdata



Anonymized

- No personally identifiable information
- Edits to protect confidentiality

Accessible

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

Individual Responses

- Must be tabulated and weighted by user

Why Use PUMS?

DETAILED OCCUPATION FOR THE FULL-TIME, YEAR-ROUND CIVILIAN EMPLOYED FEMALE POPULATION 16 YEARS AND OVER
Survey/Program: American Community Survey Universe: Full-time, year-round civilian employed female population 16 years and over TableID: B24126 Product: 2018: ACS 1-Year Estimates Detailed Tables

Data Notes Selections Geographies Years Topic Survey Code 123 Hide Filter Sort Transpose Table Margin of Error Restore Layout Download Print Share More Data Map

| | United States | |
|-------------------------------------|---------------|-----------------|
| | Estimate | Margin of Error |
| ▼ Total: | 47,989,329 | +/-85,819 |
| Chief executives | 268,474 | +/-10,150 |
| General and operations managers | 283,257 | +/-9,175 |
| Legislators | 4,890 | +/-1,111 |
| Advertising and promotions managers | 24,483 | +/-2,628 |
| Marketing managers | 263,399 | +/-9,099 |

- Data needs not supported by standard tables
 - Example: occupation by sex by marital status (“married female actuaries”)
- Can create new measures with unique combinations of person and/or household variables
 - Example: spouse’s occupation
- Users want to conduct sophisticated statistical analysis to understand relationship between variables
 - Example: correlation analysis

Summary Data versus Microdata

| | Louisiana | |
|--|-----------|-----------------|
| | Estimate | Margin of Error |
| ∨ Total: | 2,015,672 | +/-17,879 |
| ∨ Male: | 1,029,182 | +/-10,608 |
| ∨ Management, business, science, and arts occupations: | 302,411 | +/-8,186 |
| ∧ Management, business, and financial occupations: | 138,208 | +/-6,478 |
| ∨ Computer, engineering, and science occupations: | 64,855 | +/-4,695 |
| ∨ Computer and mathematical occupations: | 22,827 | +/-2,629 |
| ∨ Computer occupations: | 22,439 | +/-2,626 |
| Computer and information research scientists and analysts... | 2,287 | +/-781 |
| Software developers and programmers | 6,874 | +/-1,772 |

Aggregated tables for a geography:
 “In 2018 in Louisiana, approximately 22,827 males work in computer and mathematical occupations.”

Individual responses:
 “This male in Louisiana is a web developer.”

| RT | SERIALNO | SPORDER | ST | SEX | OCCP |
|----|----------|---------|----|-----|--------|
| P | 267855 | | 2 | 22 | 1 6600 |
| P | 267870 | | 1 | 22 | 2 1020 |
| P | 267870 | | 2 | 22 | 1 1030 |
| P | 267913 | | 1 | 22 | 2 430 |
| P | 267913 | | 2 | 22 | 1 9620 |
| P | 268097 | | 1 | 22 | 2 4110 |
| P | 268097 | | 2 | 22 | 1 6260 |

ACS Years and Geographies in the Microdata Access Tool

| ACS Dataset | Vintage |
|-------------------------------|---------------------|
| ACS 1-Year PUMS | 2005-2021 (no 2020) |
| ACS 1-Year PUMS – Puerto Rico | 2005-2021 (no 2020) |
| ACS 5-Year PUMS | 2009-2021 |
| ACS 5-Year PUMS – Puerto Rico | 2009-2021 |

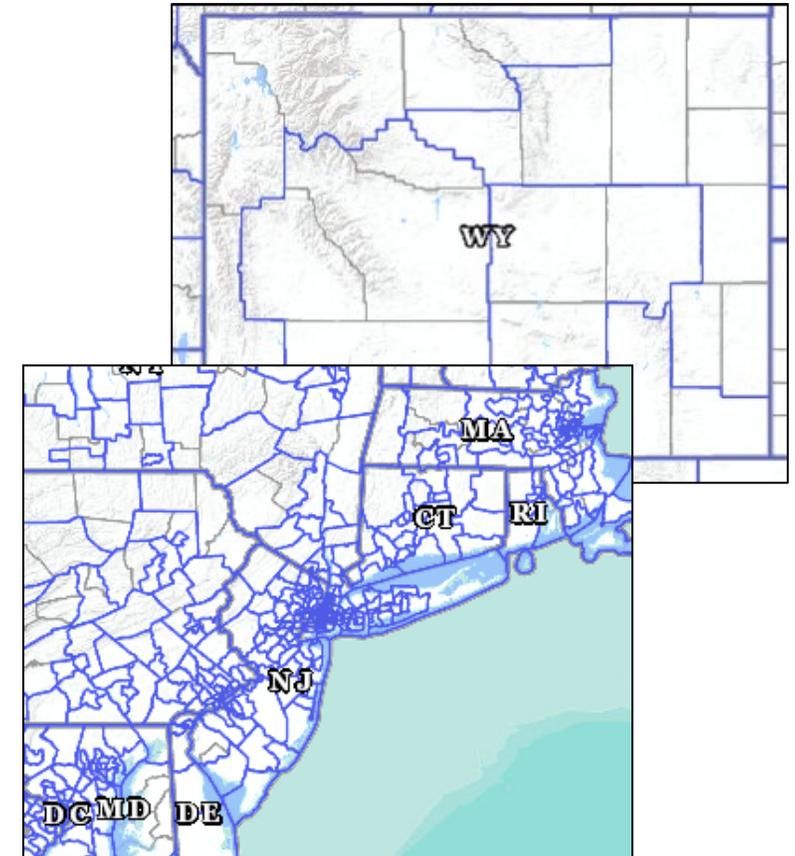
| ACS Available Geographies |
|----------------------------------|
| Nation |
| Region |
| Division |
| State |
| Public Use Microdata Area (PUMA) |

| Planned Releases | Planned Date |
|------------------------------------|------------------|
| 2022 ACS 1-Year PUMS | October 19, 2023 |
| 2022 ACS 1-Year PUMS – Puerto Rico | |
| 2022 ACS 5-Year PUMS | January 25, 2024 |
| 2022 ACS 5-Year PUMS – Puerto Rico | |

Public Use Microdata Areas (PUMAs)

Defined area with 100,000+ population:

- PUMAs (or collections of PUMAs) can be used to identify most cities of 100,000+ and many metro areas, but not all
- Identified by five-digit code (unique within each state)
- Nest within states and cover the entire nation
- Defined after each decennial census
- Census tracts and counties are the building blocks



Limitations of the Microdata Access Tool

The site does not currently have the functionality to:

- Calculate medians, percentages, or margins of error
- Combine geographies within MDAT
- Combine person and housing variables
- Show data over time in a single view
- Calculate an average over time for monthly CPS datasets
- Create new variables from existing variables, including:
 - Applying inflation-adjustment variables like ADJINC to dollar values

Accessing PUMS Data on census.gov/acs

Navigate to the FTP site to select which set of files you want.

The screenshot shows the 'Public Use Microdata Sample (PUMS)' page on the American Community Survey website. The left sidebar contains a navigation menu with 'Accessing PUMS Data' highlighted by a red box. The main content area includes a title, a brief description of PUMS files, a download link for a handbook, and a 'Related Information' section with links to publications and training materials.

This screenshot shows the 2021 ACS data access page. At the top, there is a year selector with '2021' selected. Below the year selector, the page is divided into two main sections: 'Access on FTP site' and 'Access on data.census.gov'. The 'Access on FTP site' section is highlighted with a red box and contains two links: '2021 ACS 1-Year PUMS' and '2021 ACS 5-Year PUMS'. The 'Access on data.census.gov' section contains two links: '2021 ACS 1-Year PUMS' and '2021 ACS 5-Year PUMS'. At the bottom, a note states: 'NEW FOR 2021: All SAS files will have the file naming convention starting with "sas_" instead of "unix_" (example: sas_pus.zip rather than unix_pus.zip).'

Benefits of the Microdata Access Tool

Benefits of the Microdata Access Tool:

- Create custom tables that provide more topic detail compared to a pre-tabulated table on data.census.gov
- Save or download your results easily
- No need to purchase or learn complex statistical software

Microdata Access Demo

1. Select Variables & Geographies, Limit Universe, Define Table Layout, and Save Results

Example: Means of transportation to work by Detailed Industry (Professional, Scientific, Management, and Administrative and Waste Management Services) in Tennessee based on the ACS 5-Year

2. Recode Continuous Variables and Selecting PUMAs

Example: Uninsured population age 25 to 40 in Washington DC PUMAs based on the ACS 1-Year

Microdata Access Demo

1. Select Variables & Geographies, Limit Universe, Define Table Layout, and Save Results

Example: Means of transportation to work by Detailed Industry (Professional, Scientific, Management, and Administrative and Waste Management Services) in Tennessee based on the ACS 5-Year

2. Recode Continuous Variables and Selecting PUMAs

Example: Uninsured population age 25 to 40 in Washington DC PUMAs based on the ACS 1-Year

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

An official website of the United States government [Here's how you know](#)

United States[®] Census Bureau

S0804

Advanced Search

All **Tables** Maps Pages

American Community Survey

S0804 | MEANS OF TRANSPORTATION TO WORK BY SELECTED CHARACTERISTICS FOR WORKPLACE GEOGRAPHY

2021: ACS 1-Year Estimates Subject Tables

Notes Geos Topics Codes Dataset Year Hide Transpose **Margin of Error** Restore Excel CSV ZIP Share Print Map

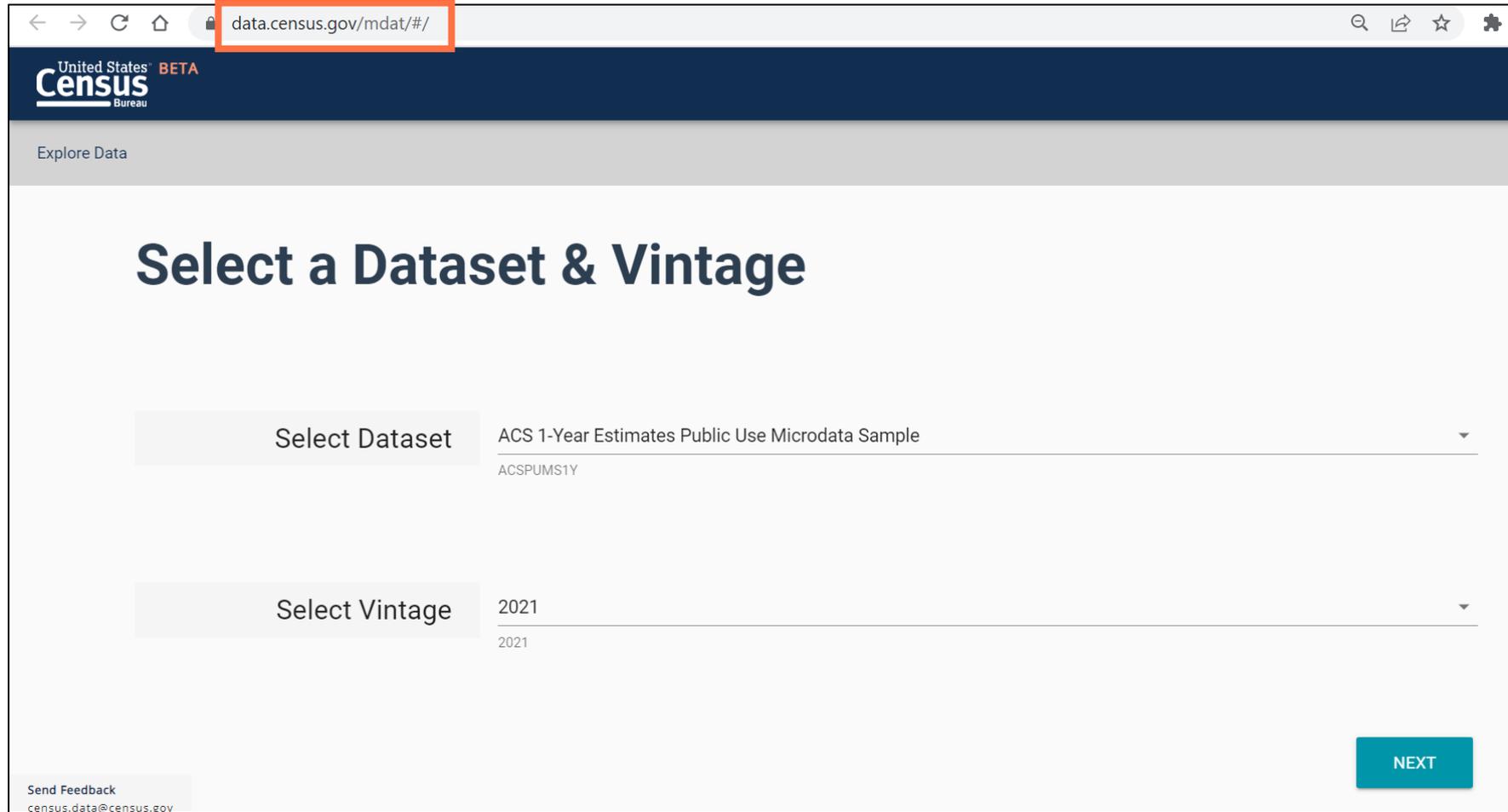
Tennessee

Total Car, truck, or van -- drove alone

| Label | Estimate | Margin of Error | Estimate | Margin of Error |
|--|----------|-----------------|----------|-----------------|
| INDUSTRY | | | | |
| Agriculture, forestry, fishing and hunting, and min... | 0.8% | ±0.1 | 0.8% | |
| Construction | 6.9% | ±0.2 | 7.0% | |
| Manufacturing | 12.9% | ±0.4 | 13.9% | |
| Wholesale trade | 2.4% | ±0.2 | 2.4% | |
| Retail trade | 11.8% | ±0.4 | 12.4% | |
| Transportation and warehousing, and utilities | 7.3% | ±0.3 | 7.7% | |
| Information and finance and insurance, and real ... | 7.7% | ±0.3 | 6.2% | |
| Professional, scientific, and management, and ad... | 10.3% | ±0.4 | 8.4% | |
| Educational services, and health care and social ... | 22.3% | ±0.5 | 23.2% | |
| Arts, entertainment, and recreation, and accomm... | 8.3% | ±0.3 | 8.4% | |
| Other services (except public administration) | 5.0% | ±0.2 | 5.2% | |
| Public administration | 4.0% | ±0.2 | 4.1% | |
| Armed forces | 0.2% | ±0.1 | 0.2% | |
| CLASS OF WORKER | | | | |
| Private wage and salary workers | 70.0% | ±0.4 | 70.7% | |

Annually released pre-tabulated ACS tables provide data about individuals who worked from home for 13 industries, but what if we want this data for more detailed industries?

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



- Choose Dataset and Vintage:
 - Dataset – ACS 5-Year Estimates – Public Use Microdata Sample
 - Vintage – 2021
 - Click **Next** in the lower right

United States ^{BETA}
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Explore Data

Select a Dataset & Vintage

Select Dataset ACS 5-Year Estimates Public Use Microdata Sample
ACSPUMS5Y

Select Vintage 2021
2021

NEXT

Send Feedback
census.data@census.gov

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

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Explore Data/ Microdata/ Custom Table

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

filter by Topic Search is not enabled in this beta version

Showing 218 of 519 Variables Select at least one variable to start

| | Variable | Label | Number of Values | Type | |
|--------------------------|----------------------|--|----------------------|----------------------------------|---------------------------|
| <input type="checkbox"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | (3) Edited Items, Estimate, Recd | |
| <input type="checkbox"/> | COW | Class of worker | 10 | Edited Items | ▼ DETAILS |
| <input type="checkbox"/> | GCL | Grandparents living with grandchildren | 3 | Edited Items | ▼ DETAILS |
| <input type="checkbox"/> | VACS | Vacancy status | 8 | Edited Items | ▼ DETAILS |
| <input type="checkbox"/> | ANC | Ancestry recode | 5 | Recodes | ▼ DETAILS |

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#)

- Select variable for Transportation to Work:
 - Type “JWTRNS” in the Variable search box or type “Work” in the label search box
 - Click **Details** to browse information about this variable
 - Check the box to the left of JWTRNS to add the variable to data cart

The screenshot shows the 'SELECT VARIABLES' interface. At the top, there are tabs for 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (1)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs is a search bar with a dropdown menu labeled 'filter by Topic' and a search button labeled 'SEARCH'. A message indicates 'Search is not enabled in this beta version'. Below the search bar, it says 'Showing 1 of 514 Variables' and 'Selected: 1 variable (13 columns, 1 row)'. A table lists the selected variable:

| Variable | Label | Number of | Type |
|--|---|-----------|--|
| <input checked="" type="checkbox"/> JWTRNS | work Means of transportation to work | 13 | (3) Edited Items, Estima Edited Items |

Below the table, there is a 'DETAILS' link. An arrow points to the 'VALUES' section, which lists the following values:

- 0 -- N/A (not a worker-not in the labor force, including persons under 16 years; unemployed; employed, with a job but not at work; Armed Forces, with a job but not at work)
- 01 -- Car, truck, or van
- 02 -- Bus
- 03 -- Subway or elevated rail

At the bottom of the interface, it says 'Dataset: ACS 5-Year Estimates – Public Use Microdata Sample (2019) CHANGE' and a 'VIEW TABLE' button.

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

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

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

Showing 1 of 514 Variables Selected: 2 variables (13 columns, 271 rows)

| <input type="checkbox"/> | Variable | Label | Number of | Type |
|-------------------------------------|----------|--|-----------|--------------------------|
| <input checked="" type="checkbox"/> | indp | industry | 271 | (3) Edited Items, Estima |
| | INDP | Industry recode for 2018 and later based ... | 271 | Recodes |

^ DETAILS

Description:

Values:

- 169 -- N/A (less than 16 years old/NILF who last worked more than 5 years ago or never worked)
- 0170 -- AGR-Crop Production
- 0180 -- AGR-Animal Production And Aquaculture
- 0190 -- AGR-Forestry Except Logging
- 0270 -- AGR-Logging

Dataset: ACS 5-Year Estimates – Public Use Microdata Sample (2019) **CHANGE** **VIEW TABLE**

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

The screenshot displays the 'SELECT GEOGRAPHIES' interface. At the top, there are navigation tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (highlighted with an orange box), 'DATA CART (0)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below these tabs, the 'GEOGRAPHIES' section on the left lists 'Region', 'Division', 'State' (highlighted with an orange box), and 'Public Use Microdata Area (PUMA)'. The 'STATE' section on the right lists various states with checkboxes: Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee (checked and highlighted with an orange box), Texas, and Utah. At the bottom of the interface, it shows the dataset name 'ACS 5-Year Estimates Public Use Microdata Sample (2021)' with a 'CHANGE' link, and a 'VIEW TABLE' button.

- Limit your universe:
 - Click the **DATA CART** tab
 - Click the **INDP** variable on the left
 - Uncheck the box for **Include in Universe**

The screenshot shows the 'DATA CART (2)' tab in the Census data interface. On the left, the 'INDP' variable is selected and highlighted with an orange box. The table below shows the following data:

| <input checked="" type="checkbox"/> | Response Label | Value |
|-------------------------------------|---------------------------------|-------|
| <input checked="" type="checkbox"/> | N/A (less than 16 years old/... | 169 |
| <input checked="" type="checkbox"/> | AGR-Crop Production | 0170 |
| <input checked="" type="checkbox"/> | AGR-Animal Production An... | 0180 |
| <input checked="" type="checkbox"/> | AGR-Forestry Except Logging | 0190 |
| <input checked="" type="checkbox"/> | AGR-Logging | 0270 |

- Limit your universe:
 - Check all 19 boxes for Professional, Scientific, and Management, and Administrative and Waste Management Services (7270 - 7790)

The screenshot shows the 'DATA CART (2)' tab in the Census Bureau's data tool. The interface includes navigation options: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. A notification on the left indicates '19 of 271 responses'. The main area displays a list of industry categories with checkboxes. A red box highlights the following categories, all of which are checked:

| Category | Code |
|---------------------------------|------|
| PRF-Legal Services | 7270 |
| PRF-Accounting, Tax Prepar... | 7280 |
| PRF-Architectural, Engineeri... | 7290 |
| PRF-Specialized Design Ser... | 7370 |
| PRF-Computer Systems Des... | 7380 |
| PRF-Management, Scientific... | 7390 |
| PRF-Scientific Research And... | 7460 |
| PRF-Advertising, Public Rela... | 7470 |
| PRF-Veterinary Services | 7480 |

- Confirm variable selections
 - Confirm variable selections and click the **TABLE LAYOUT** tab

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

Selected Variables (2)

JWTRNS
13 of 13 responses

INDP
19 of 271 responses

Industry recode for 2018 and later based on 2017 IND codes (INDP) DETAILS ^

[+ CREATE CUSTOM GROUP](#)

| <input type="checkbox"/> | Include in Universe | Response Label | Value |
|-------------------------------------|---------------------|--|-------|
| <input checked="" type="checkbox"/> | | PRF-Employment Services | 7580 |
| <input checked="" type="checkbox"/> | | PRF-Business Support Services | 7590 |
| <input checked="" type="checkbox"/> | | PRF-Travel Arrangements And Reserva... | 7670 |
| <input checked="" type="checkbox"/> | | PRF-Investigation And Security Services | 7680 |
| <input checked="" type="checkbox"/> | | PRF-Services To Buildings And Dwellin... | 7690 |

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#)

VIEW TABLE

- View variable placement in the default table layout:
 - Columns/Rows – Variables will be shown in the table. By default, the table is providing data for the means of transportation to work in the columns, with the geography (Tennessee) and detailed industries in the rows

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

"Values in table cells" Options (0)
Determines order in list; cannot move to row/column

Columns (1)
13 columns (maximum 400)

JWTRNS 13 of 13 responses

Rows (2)
19 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

INDP 19 of 271 responses

Not on table (0)
(may restrict the sample universe)

Values in table cells:

Count

Show Total

Universe: **selected geographies:** Tennessee; **Industry recode for 2018 and later based on 2017 IND codes (INDP):** PRF-Legal Services, PRF-Accounting, Tax Preparation, Bookkeeping, And Payroll Services, PRF-Architectural, Engineering, And Related Services, PRF-Specialized Design Services, PRF-Computer Systems Design And Related Services, PRF-Management, Scientific, And Technical Consulting Services, PRF-

| Industry recode for 2018 and later based on 2017 IND codes (INDP) | Means of transportation to work (JWTRNS) | | | | | | | | |
|---|--|---|--------------------|-----|-------------------------|--------------------------------------|-----------------------------------|-----------|---------|
| | Total | N/A (not a worker-not in the labor force, | Car, truck, or van | Bus | Subway or elevated rail | Long-distance train or commuter rail | Light rail, streetcar, or trolley | Ferryboat | Taxicab |
| ??? | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee (19) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRF-Legal Services | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? |
| PRF-Accounting, Tax ... | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? |
| PRF-Architectural, En... | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? |
| PRF-Specialized Desi... | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? |

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#) [VIEW TABLE](#)

- Edit Table Layout:
 - Move Selected Geography to Columns:
 - **Click, hold and drag Selected Geographies on the left side of the page up to the columns heading.** This will give you a table layout similar to prefabricated ACS tables on data.census.gov, where each geography has its own column.

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

"Values in table cells" Options (0)
Determines order in list; cannot move to row/column

Columns (1)
13 columns (maximum 400)

JWTRNS 13 of 13 responses

Rows (2)
19 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

INDP 19 of 271 responses

Not on table (0)
(may restrict the sample universe)

Values in table cells:

Count

Universe: **selected geographies:** Tennessee; **Industry recode for 2018 and later based on 2017 IND codes (INDP):** PRF-Legal Services, PRF-Accounting, Tax Preparation, Bookkeeping, And Payroll Services, PRF-Architectural, Engineering, And Related Services, PRF-Specialized Design Services, PRF-Computer Systems Design And Related Services, PRF-Management, Scientific, And Technical Consulting Services, PRF-

Show Total

| Industry recode for 2018 and later based on 2017 IND codes (INDP) | Means of transportation to work (JWTRNS) | | | | | | | | |
|---|--|---|--------------------|-----|-------------------------|--------------------------------------|-----------------------------------|-----------|---------|
| | Total | N/A (not a worker-not in the labor force, | Car, truck, or van | Bus | Subway or elevated rail | Long-distance train or commuter rail | Light rail, streetcar, or trolley | Ferryboat | Taxicab |
| ▼ ??? (19) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ▼ Tennessee (19) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PRF-Legal Services | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? |
| PRF-Accounting, Tax ... | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? |
| PRF-Architectural, En... | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? |
| PRF-Specialized Desi... | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? | ??? |

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#) [VIEW TABLE](#)

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

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

SELECTED GEOGRAPHIES 1 of 1 responses

JWTRNS 13 of 13 responses

Rows (1)
19 rows (maximum 2000) ^

INDP 19 of 271 responses

Not on table (0)
(may restrict the sample universe) ^

| Selected Geographies | | | | | |
|--|--|---|--------------------|-----|-------------|
| Tennessee | | | | | |
| Means of transportation to work (JWTRNS) | | | | | |
| Industry recode for 2018 and later based on 2017 IND codes | Total Means of transportation to work (JWTRNS) | N/A (not a worker-not in the labor force, including persons under 16 years; unemployed; | Car, truck, or van | Bus | Subway or e |
| ▼ ??? (19) | 0 | 0 | 0 | 0 | |
| PRF-Legal Services | ??? | ??? | ??? | ??? | ??? |
| PRF-Accounting, Tax Pre... | ??? | ??? | ??? | ??? | ??? |
| PRF-Architectural, Engin... | ??? | ??? | ??? | ??? | ??? |
| PRF-Specialized Design ... | ??? | ??? | ??? | ??? | ??? |
| PRF-Computer Systems ... | ??? | ??? | ??? | ??? | ??? |
| PRF-Management, Scien... | ??? | ??? | ??? | ??? | ??? |
| PRF-Scientific Research ... | ??? | ??? | ??? | ??? | ??? |

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#)

VIEW TABLE

■ View Table:

- The estimated number of individuals in the Legal Services who worked at home in Tennessee is 3,070.

Dataset: ACS 5-Year Estimates Public Use Microdata Sample [CHANGE DATASET](#) Geography: 1 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2021 Weighting: Person weight

On Columns: Selected Geographies JWTRNS On Rows: INDP

Not on Table: "Values in table cells" Options

Values in table cells: Count

Universe: selected geographies: Tennessee; Industry recode for 2018 and later based on 2017 IND codes (INDP): PRF-Legal Services, PRF-Accounting, Tax Preparation, Bookkeeping, And Payroll Services, PRF-Architectural, Engineering, And Related Services, PRF-Specialized Design Services, PRF-Computer Systems Design And Related Services, PRF-Management, Scientific, And Technical Consulting Services, PRF-Scientific Research And Development Services, PRF-Advertising, Public Relations, And Related Services, PRF-Veterinary Services, PRF-Other Professional, Scientific, And Technical Services, PRF-Management Of Companies And Enterprises, PRF-Equipment Services, PRF-Business Support Services, PRF-Taxi, Arrangements, And Reservation Services, PRF-Information And Security Services, PRF-Construction Services, PRF-Transportation Services, PRF-Health Care Services, PRF-Performing Arts, Entertainment, And Recreation Services, PRF-Other Services, PRF-Indistinct

Show Total

| Industry recode for 2018 and later based on 2017 IND codes | Work (JWTRNS) | | | | | | | | | | | | |
|--|---------------|--------------------|-------|-------------------------|--------------------------------------|-----------------------------------|-----------|---------|------------|---------|--------|------------------|--------------|
| | in force, | Car, truck, or van | Bus | Subway or elevated rail | Long-distance train or commuter rail | Light rail, streetcar, or trolley | Ferryboat | Taxicab | Motorcycle | Bicycle | Walked | Worked from home | Other method |
| ▼ Total (19) | 196 | 250,299 | 1,866 | 28 | 114 | 56 | 0 | 262 | 122 | 227 | 3,097 | 56,724 | 3,290 |
| PRF-Legal Services | 839 | 18,642 | 170 | 3 | 0 | 0 | 0 | 0 | 7 | 65 | 226 | 3,070 | 112 |
| PRF-Accounting, Tax Preparation, Bookkeeping, And P... | 471 | 15,687 | 51 | 0 | 0 | 0 | 0 | 102 | 0 | 0 | 113 | 5,135 | 36 |
| al, Engineering, And Related Services | 813 | 20,916 | 44 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 165 | 3,686 | 242 |
| Design Services | 318 | 2,722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 41 | 2,016 | 67 |

Send Feedback census.data@census.gov

- Sort Table:

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

Show Total

| Industry recode for 2018 and later based on 2017 IND codes | or | Bus | Subway or elevated rail | Long-distance train or commuter rail | Light rail, streetcar, or trolley | Ferryboat | Taxicab | Motorcycle | Bicycle | Walked | Worked from home ↑ | Other method |
|--|-------|-------|-------------------------|--------------------------------------|-----------------------------------|-----------|---------|------------|---------|--------|--------------------|--------------|
| ▼ Total (19) | 2,299 | 1,866 | 28 | 114 | 56 | 0 | 262 | 122 | 227 | 3,097 | 56,724 | 3,290 |
| PRF-Waste Management And Remediation Services | 2,797 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 233 | 94 |
| PRF-Veterinary Services | 3,101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 95 | 234 | 0 |
| PRF-Investigation And Security Services | 3,082 | 253 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 138 | 587 | 133 |
| PRF-Other Administrative And Other Support Services | 3,455 | 95 | 0 | 0 | 0 | 0 | 0 | 25 | 5 | 21 | 936 | 7 |
| PRF-Travel Arrangements And Reservation Services | 2,768 | 45 | 0 | 0 | 0 | 0 | 26 | 22 | 0 | 154 | 1,022 | 98 |
| PRF-Management Of Companies And Enterprises | 3,046 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 1,032 | 0 |
| PRF-Landscaping Services | 3,391 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 295 | 1,734 | 672 |
| PRF-Services To Buildings And Dwellings (Except Clea... | 3,898 | 313 | 0 | 0 | 0 | 0 | 83 | 12 | 57 | 284 | 1,786 | 430 |
| PRF-Specialized Design Services | 2,722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 41 | 2,016 | 67 |
| PRF-Employment Services | 3,732 | 446 | 0 | 28 | 0 | 0 | 39 | 0 | 11 | 238 | 2,157 | 376 |
| PRF-Scientific Research And Development Services | 3,916 | 0 | 0 | 12 | 56 | 0 | 0 | 12 | 0 | 71 | 2,329 | 362 |
| PRF-Professional, Scientific, And Technical Servi... | 3,552 | 65 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 102 | 2,220 | 0 |

[Send Feedback](mailto:census.data@census.gov)
census.data@census.gov

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

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

Download table view (.CSV)

Extract raw data (.CSV)

Extract raw data (.JSON)

Include:

* Person weight

Housing Unit Weight

* weight associated with at least one variable in download

DOWNLOAD

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|----|--|-----------|----------------------------|--------|------|----|-----|----|---|-----|-----|-----|------|-------|------|---|---|---|
| 1 | Source: ACS 5-Year Estimates Public Use Microdata Sample 2021 | | | | | | | | | | | | | | | | | |
| 2 | Weight used: PWGTP | | | | | | | | | | | | | | | | | |
| 3 | Universe: selected geographies: Tennessee; Industry recode for 2018 and later based on 2017 IND codes (INDP): PRF-Legal Services, PRF-Accounting, Tax Preparation, Bookkeeping, And Payroll Services, PI | | | | | | | | | | | | | | | | | |
| 4 | Selected Geographies | | | | | | | | | | | | | | | | | |
| 5 | Tennessee | | | | | | | | | | | | | | | | | |
| 6 | Means of transportation to work (JWTRNS) | | | | | | | | | | | | | | | | | |
| 7 | Industry recode fo | Total Mea | N/A (not a Car, truck, Bus | | | | | | | | | | | | | | | |
| 8 | -> Total | 406281 | 90196 | 250299 | 1866 | 28 | 114 | 56 | 0 | 262 | 122 | 227 | 3097 | 56724 | 3290 | | | |
| 9 | PRF-Waste Manag | 12526 | 2327 | 9797 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 233 | 94 | | | |
| 10 | PRF-Veterinary Sei | 10791 | 2337 | 8101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 95 | 234 | 0 | | | |
| 11 | PRF-Investigatio | 21604 | 4399 | 16082 | 253 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 138 | 587 | 133 | | | |
| 12 | PRF-Other Admini | 8909 | 2365 | 5455 | 95 | 0 | 0 | 0 | 0 | 0 | 25 | 5 | 21 | 936 | 7 | | | |
| 13 | PRF-Travel Arrang | 5031 | 896 | 2768 | 45 | 0 | 0 | 0 | 0 | 26 | 22 | 0 | 154 | 1022 | 98 | | | |
| 14 | PRF-Management | 7625 | 492 | 6046 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 1032 | 0 | | | |
| 15 | PRF-Landscaping S | 37434 | 11238 | 23391 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 295 | 1734 | 672 | | | |
| 16 | PRF-Services To Bu | 43587 | 11724 | 28898 | 313 | 0 | 0 | 0 | 0 | 83 | 12 | 57 | 284 | 1786 | 430 | | | |
| 17 | PRF-Specialized De | 6189 | 1318 | 2722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 41 | 2016 | 67 | | | |
| 18 | PRF-Employment S | 37322 | 15295 | 18732 | 446 | 0 | 28 | 0 | 0 | 39 | 0 | 11 | 238 | 2157 | 376 | | | |

export (1)

Bookmark for your current selections; save to return later or send to someone to share.
<https://data.census.gov/mdat/#/search?ds=ACSPUMS5Y2021&cv=ucgid,JWTRNS&rv=INDP%287270,7280,7290,7370,7380,7390,7460,7470,7480,7490,7570,7580,7590,7670,76>
COPY BOOKMARK

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

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021) **CHANGE** **VIEW TABLE**

Microdata Access Demo

1. Select Variables & Geographies, Limit Universe, Define Table Layout, and Save Results
Example: Means of transportation to work by Detailed Industry (Professional, Scientific, Management, and Administrative and Waste Management Services) in Virginia based on the ACS 5-Year
2. **Recode Continuous Variables and Selecting PUMAs**
Example: **Uninsured population age 25 to 40 in Washington DC PUMAs based on the ACS 1-Year**

Table S2701 – Characteristics of Health Insurance Coverage

An official website of the United States government [Here's how you know](#)

United States Census Bureau

S2701

Advanced Search

All **Tables** Maps Pages

American Community Survey

S2701 | SELECTED CHARACTERISTICS OF HEALTH INSURANCE COVERAGE IN THE UNITED STATES

2021: ACS 1-Year Estimates Subject Tables

Notes Geos Topics Codes Dataset Year Hide Transpose **Margin of Error** Restore Excel CSV ZIP Share Print Map

| | United States | | |
|--|---------------|-----------------|-------------|
| | Total | | Insured |
| Label | Estimate | Margin of Error | Estimate |
| ▼ Civilian noninstitutionalized population | 326,912,547 | ±18,221 | 298,685,665 |
| ▼ AGE | | | |
| Under 6 years | 22,579,171 | ±36,035 | 21,565,200 |
| 6 to 18 years | 55,251,332 | ±56,302 | 52,100,615 |
| 19 to 25 years | 29,194,212 | ±65,720 | 25,059,158 |
| 26 to 34 years | 39,736,024 | ±58,393 | 33,724,063 |
| 35 to 44 years | 42,801,119 | ±38,194 | 37,236,650 |
| 45 to 54 years | 40,177,707 | ±35,909 | 35,779,068 |
| 55 to 64 years | 42,431,040 | ±19,520 | 38,923,950 |
| 65 to 74 years | 33,423,349 | ±22,261 | 33,087,867 |

- Prefabricated ACS tables provide health insurance status by age, but what if we need different age categories?

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

The screenshot shows a web browser window with the URL data.census.gov/mdat/#/ in the address bar. The page header features the United States Census Bureau logo and the text "United States BETA Census Bureau". Below the header is a navigation bar with the text "Explore Data". The main content area is titled "Select a Dataset & Vintage" and contains two selection fields:

- Select Dataset:** A dropdown menu with the selected option "ACS 1-Year Estimates Public Use Microdata Sample" and the identifier "ACSPUMS1Y" below it.
- Select Vintage:** A dropdown menu with the selected option "2021" and the identifier "2021" below it.

At the bottom right of the selection area is a teal button labeled "NEXT". In the bottom left corner, there is a "Send Feedback" link with the email address "census.data@census.gov".

- Choose Dataset and Vintage:
 - Dataset – ACS 1-Year Estimates – Public Use Microdata Sample
 - Vintage – 2021
 - Click **Next** in the lower right

The screenshot shows the 'Explore Data' page on the Census Bureau website. The main heading is 'Select a Dataset & Vintage'. There are two dropdown menus: 'Select Dataset' with the selected option 'ACS 1-Year Estimates Public Use Microdata Sample' (ID: ACSPUMS1Y) and 'Select Vintage' with the selected option '2021'. A teal 'NEXT' button is located in the bottom right corner. The page includes the 'United States Census Bureau' logo and a 'Send Feedback' link with the email 'census.data@census.gov'.

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

United States ^{BETA}
Census
Bureau

Explore Data/ Microdata/ Custom Table

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

filter by Topic Search is not enabled in this beta version

Showing 219 of 522 Variables Select at least one variable to start

| | Variable | Label | Number of Values | Type | |
|--------------------------|----------------------|---|----------------------|----------------------------------|---------------------------|
| <input type="checkbox"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | (3) Edited Items, Estimate, Recd | |
| <input type="checkbox"/> | AGEP | Age | 2 | Estimate | ▼ DETAILS |
| <input type="checkbox"/> | DRIVESP | Number of vehicles calculated from JWRI | 7 | Estimate | ▼ DETAILS |
| <input type="checkbox"/> | FPARC | Family presence and age of related children | 5 | Recodes | ▼ DETAILS |
| <input type="checkbox"/> | GRPIP | Gross rent as a percentage of household income p... | 3 | Estimate | ▼ DETAILS |

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#)

- Select variable for Health Insurance:
 - Type “HICOV” in the Variable search box or type “Health insurance” in the label search box
 - Check the box to the left of HICOV to add the variable to data cart

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

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

Showing 1 of 510 Variables Selected: 1 variable (2 columns, 1 row)

| Variable | Label | Number of | Type |
|---|----------------------------------|-----------|----------------------------|
| <input checked="" type="checkbox"/> hicov | health insurance | | (3) Edited Items, Estimate |
| <input checked="" type="checkbox"/> HICOV | Health insurance coverage recode | 2 | Recodes |

Description:
Health insurance coverage recode

Values:

- 1 -- With health insurance coverage
- 2 -- No health insurance coverage

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

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

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

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

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

Showing 1 of 510 Variables Selected: 2 variables (2 columns, 1 row)

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

Description:
Age

Values:

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

■ Select geography:

- Click the **SELECT GEOGRAPHIES** tab
- Click **Public Use Microdata Area (PUMA) → District of Columbia → Select the 5 DC PUMAs**

The screenshot shows the 'SELECT GEOGRAPHIES' tab in the Census Bureau's data selection tool. The interface is divided into three main sections: 'GEOGRAPHIES', 'PUBLIC USE MICRODATA AREA (PUMA) (STATE)', and 'DISTRICT OF COLUMBIA'. The 'Public Use Microdata Area (PUMA)' category is highlighted in the 'GEOGRAPHIES' section. In the 'PUBLIC USE MICRODATA AREA (PUMA) (STATE)' section, 'District of Columbia' is selected. The 'DISTRICT OF COLUMBIA' section shows five selected PUMAs, each with a checkmark:

- District of Columbia (West) PUMA, District of Columbia
- District of Columbia (North) PUMA, District of Columbia
- District of Columbia (Northeast) PUMA, District of Columbia
- District of Columbia (East) PUMA, District of Columbia
- District of Columbia (Central) PUMA, District of Columbia

At the bottom of the interface, the selected geographies are listed in a row of buttons, each with a close icon (X):

- District of Columbia (West) PUMA, District ...
- District of Columbia (North) PUMA, District ...
- District of Columbia (Northeast) PUMA, Dist...
- District of Columbia (East) PUMA, District o...
- District of Columbia (Central) PUMA, Distric...

The dataset is identified as 'ACS 1-Year Estimates-Public Use Microdata Sample (2019)' with a 'CHANGE' link. A 'VIEW TABLE' button is located at the bottom right.

- **Categorize (recode) your variable:**
 - Click the **Data Cart** tab
 - Click the **AGEP** variable on the left
 - Click **Create Custom Group** to begin specifying your age categories (e.g. 0-39; 40 and over)

The screenshot shows the 'DATA CART (2)' tab selected in the top navigation bar. On the left, under 'Selected Variables (2)', the 'AGEP' variable is highlighted with an orange box. On the right, the 'Age (AGEP)' section is expanded, and the '+ CREATE CUSTOM GROUP' button is also highlighted with an orange box. Below this button is a table with columns for 'Include in', 'Response Label', and 'Value'. The table contains three rows: a checked checkbox for 'Include in', a response label '1 to 99 years (Top-coded***)' with a value of '1' and a slider from 1 to 99, and a checked checkbox for 'Include in' with a response label 'Under 1 year' and a value of '00'.

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

■ Categorize (recode) your variable:

- Click into **Group label** and type a label for the first category you want to create (Under 25 Years Old)
- Check the boxes next to each response category: “1 to 99 years” and “Under 1 year”
- Edit the end range of age from 99 to **24**
- Click **Save Group**

The screenshot shows the 'Age recode' interface in the Census Bureau's data tool. The 'DATA CART (3)' tab is active, showing three selected variables: AGEP, HICOV, and AGE_RC1. The 'Age recode' window is open, displaying a group label 'Under 25 Years Old' and a table of response categories. The '1 to 99 years (Top-coded***)' category has its end value changed from 99 to 24. The 'Under 1 year' category is also selected. The 'SAVE GROUP' button is highlighted.

| <input checked="" type="checkbox"/> | Response Label | Value |
|-------------------------------------|------------------------------|------------|
| <input checked="" type="checkbox"/> | 1 to 99 years (Top-coded***) | 1 ————— 24 |
| <input checked="" type="checkbox"/> | Under 1 year | 00 |

- Categorize (recode) your variable:
 - Your first category Under 25 Years Old appears just below “Not Elsewhere Classified”
 - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the category

The screenshot displays the 'DATA CART (3)' interface. On the left, under 'Selected Variables (3)', three variables are listed: AGEP (2 of 2 responses), HICOV (2 of 2 responses), and AGEP_RC1 (2 of 2 responses). The AGEP_RC1 variable is highlighted with a red vertical bar. On the right, the 'Age recode' section shows two categories: 'Not Elsewhere Classified' (VALUES: 25:99) and 'Under 25 Years Old' (VALUES: 1:24, 00). The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red rectangle. Other buttons include 'AUTO GROUP' and 'EDIT GROUP' for the second category. Navigation tabs at the top include 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (3)', 'TABLE LAYOUT', and 'DOWNLOAD'. A dropdown arrow is visible in the top right corner.

- **Categorize (recode) your variable:**

- Click into **Group Label** and rename the category (e.g. 24 to 40 Years Old)
- Change the end range from **99 to 40**
- Click **Save Group** in the lower right

The screenshot shows a software interface for data analysis. At the top, there are navigation tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (3)', 'TABLE LAYOUT', and 'DOWNLOAD'. The 'DATA CART (3)' tab is active. On the left, a list of variables is shown: 'AGEP' (2 of 2 responses), 'HICOV' (2 of 2 responses), and 'AGEP_RC1' (2 of 2 responses). The 'AGEP_RC1' variable is selected. On the right, a configuration panel for the '25 to 40 Years Old' group is displayed. It includes a 'Show on table' toggle (turned on), a 'Group Label' field containing '25 to 40 Years Old', and a table with columns 'Add to Group', 'Response Label', and 'Value'. The table has one row with 'Add to Group' checked, 'Response Label' 'Between 25 and 99', and 'Value' '25' to '40' with a slider. At the bottom right of the panel are 'CANCEL' and 'SAVE GROUP' buttons. The footer shows 'Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2021)' with a 'CHANGE' link and a 'VIEW TABLE' button.

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

AGEP
2 of 2 responses

HICOV
2 of 2 responses

AGEP_RC1
2 of 2 responses

25 to 40 Years Old Show on table

Group Label
25 to 40 Years Old

18 / 60

| <input checked="" type="checkbox"/> Add to Group | Response Label | Value |
|--|-------------------|-------------|
| <input checked="" type="checkbox"/> | Between 25 and 99 | 25 ————— 40 |

CANCEL **SAVE GROUP**

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#) VIEW TABLE

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

The screenshot displays the 'DATA CART (3)' interface. On the left, under 'Selected Variables (3)', three variables are listed: AGEP (2 of 2 responses), HICOV (2 of 2 responses), and AGEP_RC1 (3 of 3 responses). The main area is titled 'Age recode' and shows three categories: 'Not Elsewhere Classified' (VALUES: 41:99), 'Under 25 Years Old' (VALUES: 1:24, 00), and '25 to 40 Years Old' (VALUES: 25:40). Each category has an 'EDIT GROUP' button. The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red border. An 'AUTO GROUP' button is located at the top right of the recoding section.

- Categorize (recode) your variable:
 - Click into **Group Label** and rename the category (e.g. 41 Years Old and Over)
 - Click **Save Group** in the lower right

The screenshot displays the 'DATA CART (3)' interface. On the left, a list of variables is shown: AGEP (2 of 2 responses), HICOV (2 of 2 responses), and AGEP_RC1 (3 of 3 responses). The AGEP variable is selected. The main panel shows the configuration for the '41 Years Old and Over' group. A red box highlights the 'Group Label' field, which contains the text '41 Years Old and Over'. Below this, a table shows the group's configuration:

| <input checked="" type="checkbox"/> Add to Group | Response Label | Value |
|--|-------------------|--------|
| <input checked="" type="checkbox"/> | Between 41 and 99 | 41 99 |

At the bottom right of the configuration panel are 'CANCEL' and 'SAVE GROUP' buttons. The bottom of the interface shows the dataset name 'ACS 1-Year Estimates Public Use Microdata Sample (2021)' with a 'CHANGE' link, and a 'VIEW TABLE' button.

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

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

Selected Variables (3)

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

Age recode **AUTO GROUP**

- Under 25 Years Old**
VALUES: 1:24, 00 **EDIT GROUP**
- 25 to 40 Years Old**
VALUES: 25:40 **EDIT GROUP**
- 41 Years Old and Over**
VALUES: 41:99 **EDIT GROUP**

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2021) **CHANGE** **VIEW TABLE**

- **View variable placement in the default table layout:**
 - **Values in table cells Options** – When variables are shown here, you have more options to choose from in the drop-down menu for “Values in table cells”
 - **Columns/Rows – Variables will be shown in the table.** By default, the table is providing data for health insurance in the columns and each geography in the rows
 - **Not on Table – Can restrict the universe.** By default, AGEP_RC1 is not on the table, and it does not restrict the universe because the recode includes ages for all people (0-24, 25-40, 41+)

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

Custom Table

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

AGEP 2 of 2 responses

Columns (1)
2 columns (maximum 400)

HICOV 2 of 2 responses

Rows (1)
5 rows (maximum 2000)

SELECTED GEOGRAPHIES 5 of 5 responses

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

AGEP_RC1 3 of 3 responses

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

Values in table cells:
Average of Age (AGEP)

Universe: **selected geographies:** District of Columbia (West)..., District of Columbia (North..., District of Columbia (North..., District of Columbia (East)..., District of Columbia (Centr...

| Selected Geographies | Health insurance coverage recode (HICOV) | |
|--|--|------------------------------|
| | With health insurance coverage | No health insurance coverage |
| District of Columbia (West) PUMA, District of Co... | ??? | ??? |
| District of Columbia (North) PUMA, District of C... | ??? | ??? |
| District of Columbia (Northeast) PUMA, District ... | ??? | ??? |
| District of Columbia (East) PUMA, District of Col... | ??? | ??? |
| District of Columbia (Central) PUMA, District of ... | ??? | ??? |

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#) [VIEW TABLE](#)

- Edit Table Layout:
 - Move Selected Geography to Columns:
 - **Click, hold and drag Selected Geographies on the left side of the page up to the columns heading.** This will give you a table layout similar to prefabricated ACS tables on data.census.gov, where each geography has its own column

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

Custom Table

- "Values in table cells" Options (1)
Determines order in list; cannot move to row/column
- AGEP 2 of 2 responses
- Columns (1)** 2 columns (maximum 400)
- HICOV 2 of 2 responses
- Rows (1)
5 rows (maximum 2000)
- SELECTED GEOGRAPHIES** 5 of 5 responses
- Not on table (1)
(may restrict the sample universe)
- AGEP_RC1 3 of 3 responses

Table Preview

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

Values in table cells:
Average of Age (AGEP)

Universe: **selected geographies:** District of Columbia (West)..., District of Columbia (North...), District of Columbia (North...), District of Columbia (East)..., District of Columbia (Centr...)

| Selected Geographies | Health insurance coverage recode (HICOV) | |
|--|--|------------------------------|
| | With health insurance coverage | No health insurance coverage |
| District of Columbia (West) PUMA, District of Co... | ??? | ??? |
| District of Columbia (North) PUMA, District of C... | ??? | ??? |
| District of Columbia (Northeast) PUMA, District ... | ??? | ??? |
| District of Columbia (East) PUMA, District of Col... | ??? | ??? |
| District of Columbia (Central) PUMA, District of ... | ??? | ??? |

■ Edit Table Layout:

- **Move HICOV and AGEP_RC1 to Rows:** This will add categories in our table rows for the population 0-39 and 40+ by health insurance status.

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

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

Values in table cells:

Average of Age (AGEP)

Universe: **selected geographies:** District of Columbia (West)..., District of Columbia (North...), District of Columbia (North...), District of Columbia (East)..., District of Columbia (Centr...

Selected Geographies

| Selected Geographies | | | | | |
|--|--|---|--|---|--|
| District of Columbia (West) PUMA, District of Columbia | | District of Columbia (North) PUMA, District of Columbia | | District of Columbia (Northeast) PUMA, District of Columbia | |
| Health insurance coverage recode (HICOV) | | | | | |
| With health insurance coverage | | No health insurance coverage | | With health insurance coverage | |
| ??? | | ??? | | ??? | |

Values in table cells:

Average of Age (AGEP)

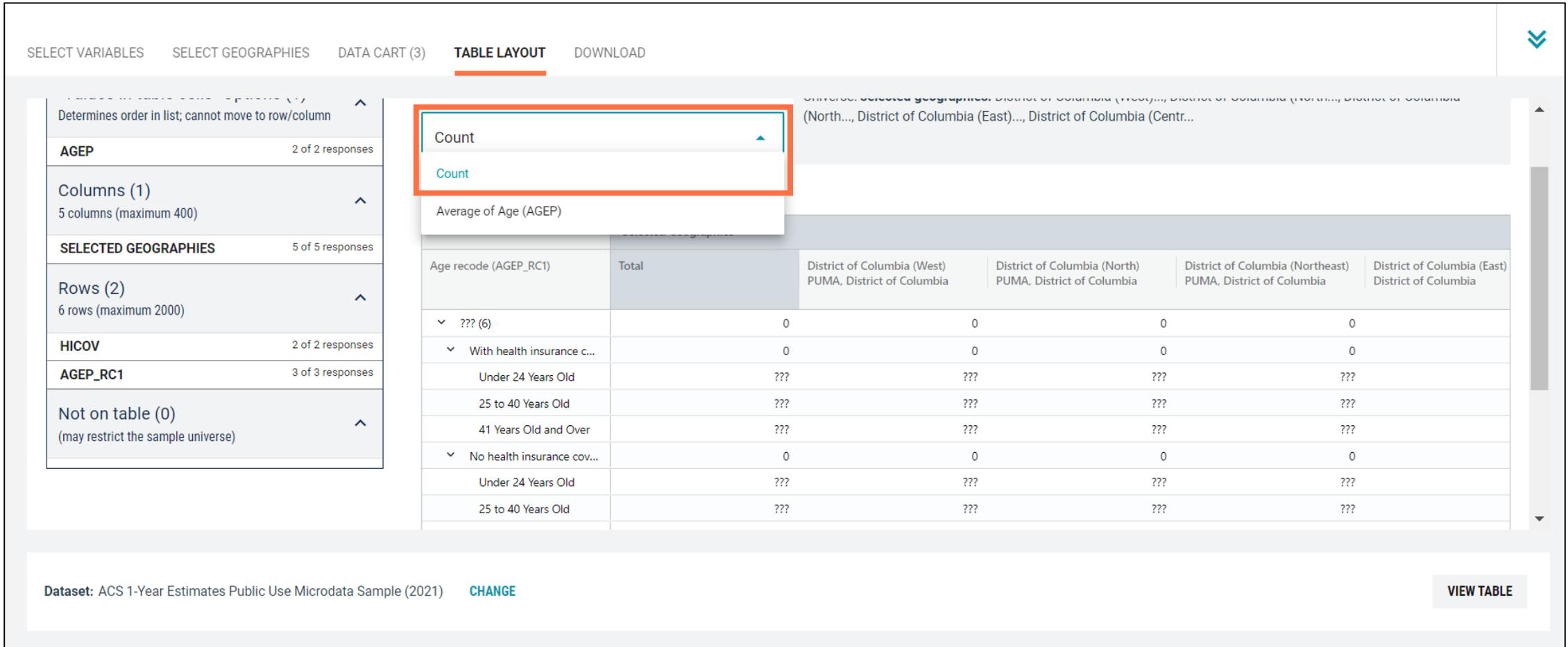
Universe: **selected geographies:** District of Columbia (West)..., District of Columbia (North...), District of Columbia (North...), District of Columbia (East)..., District of Columbia (Centr...

Selected Geographies

| Selected Geographies | | | | | |
|--|--|---|--|---|--|
| District of Columbia (West) PUMA, District of Columbia | | District of Columbia (North) PUMA, District of Columbia | | District of Columbia (Northeast) PUMA, District of Columbia | |
| Health insurance coverage recode (HICOV) | | | | | |
| With health insurance coverage | | No health insurance coverage | | With health insurance coverage | |
| ??? | | ??? | | ??? | |

■ Choose type of values in table cells

- Change the “Value in table cells” option from Average of Age (AGEP) to **Count**. This will give you data for the total number people instead of average ages.



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

Determines order in list; cannot move to row/column ^

AGEP 2 of 2 responses

Columns (1) 5 columns (maximum 400) ^

SELECTED GEOGRAPHIES 5 of 5 responses

Rows (2) 6 rows (maximum 2000) ^

HICOV 2 of 2 responses

AGEP_RC1 3 of 3 responses

Not on table (0) ^
(may restrict the sample universe)

Value in table cells: **Count** (selected) / Average of Age (AGEP) (previous)

| Age recode (AGEP_RC1) | Total | District of Columbia (West) PUMA, District of Columbia | District of Columbia (North) PUMA, District of Columbia | District of Columbia (Northeast) PUMA, District of Columbia | District of Columbia (East) District of Columbia |
|----------------------------|-------|--|---|---|--|
| ??? | 0 | 0 | 0 | 0 | 0 |
| With health insurance c... | 0 | 0 | 0 | 0 | 0 |
| Under 24 Years Old | ??? | ??? | ??? | ??? | ??? |
| 25 to 40 Years Old | ??? | ??? | ??? | ??? | ??? |
| 41 Years Old and Over | ??? | ??? | ??? | ??? | ??? |
| No health insurance cov... | 0 | 0 | 0 | 0 | 0 |
| Under 24 Years Old | ??? | ??? | ??? | ??? | ??? |
| 25 to 40 Years Old | ??? | ??? | ??? | ??? | ??? |

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#) [VIEW TABLE](#)

Confirm Table Layout:

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

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

5 columns (maximum 400)

SELECTED GEOGRAPHIES 5 of 5 responses

Rows (2)
6 rows (maximum 2000) ^

HICOV 2 of 2 responses

AGEP_RC1 3 of 3 responses

Not on table (0)
(may restrict the sample universe) ^

| | Selected Geographies | | | | |
|------------------------------|----------------------|---|--|--|---|
| Age recode (AGEP_RC1) | Total | District of Columbia (West) PUMA, District of Columbia | District of Columbia (North) PUMA, District of Columbia | District of Columbia (Northeast) PUMA, District of Columbia | District of Columbia (East) District of Columbia |
| ▼ ??? (6) | 0 | 0 | 0 | 0 | 0 |
| ▼ With health insurance c... | 0 | 0 | 0 | 0 | 0 |
| Under 24 Years Old | ??? | ??? | ??? | ??? | ??? |
| 25 to 40 Years Old | ??? | ??? | ??? | ??? | ??? |
| 41 Years Old and Over | ??? | ??? | ??? | ??? | ??? |
| ▼ No health insurance cov... | 0 | 0 | 0 | 0 | 0 |
| Under 24 Years Old | ??? | ??? | ??? | ??? | ??? |
| 25 to 40 Years Old | ??? | ??? | ??? | ??? | ??? |
| 41 Years Old and Over | ??? | ??? | ??? | ??? | ??? |

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2021) [CHANGE](#)

VIEW TABLE

- View Table:

- There were an estimated 8,821 people age 25 to 40 years old without health insurance in DC. The table provides this value across all 5 PUMAs in DC

| On Columns | | On Rows | | | | |
|----------------------|--|---------------------------------|--|--|--|--|
| Selected Geographies | | HICOV AGEP_RC1 | | | | |
| Not on Table | | "Values in table cells" Options | | | | |
| | | AGEP | | | | |

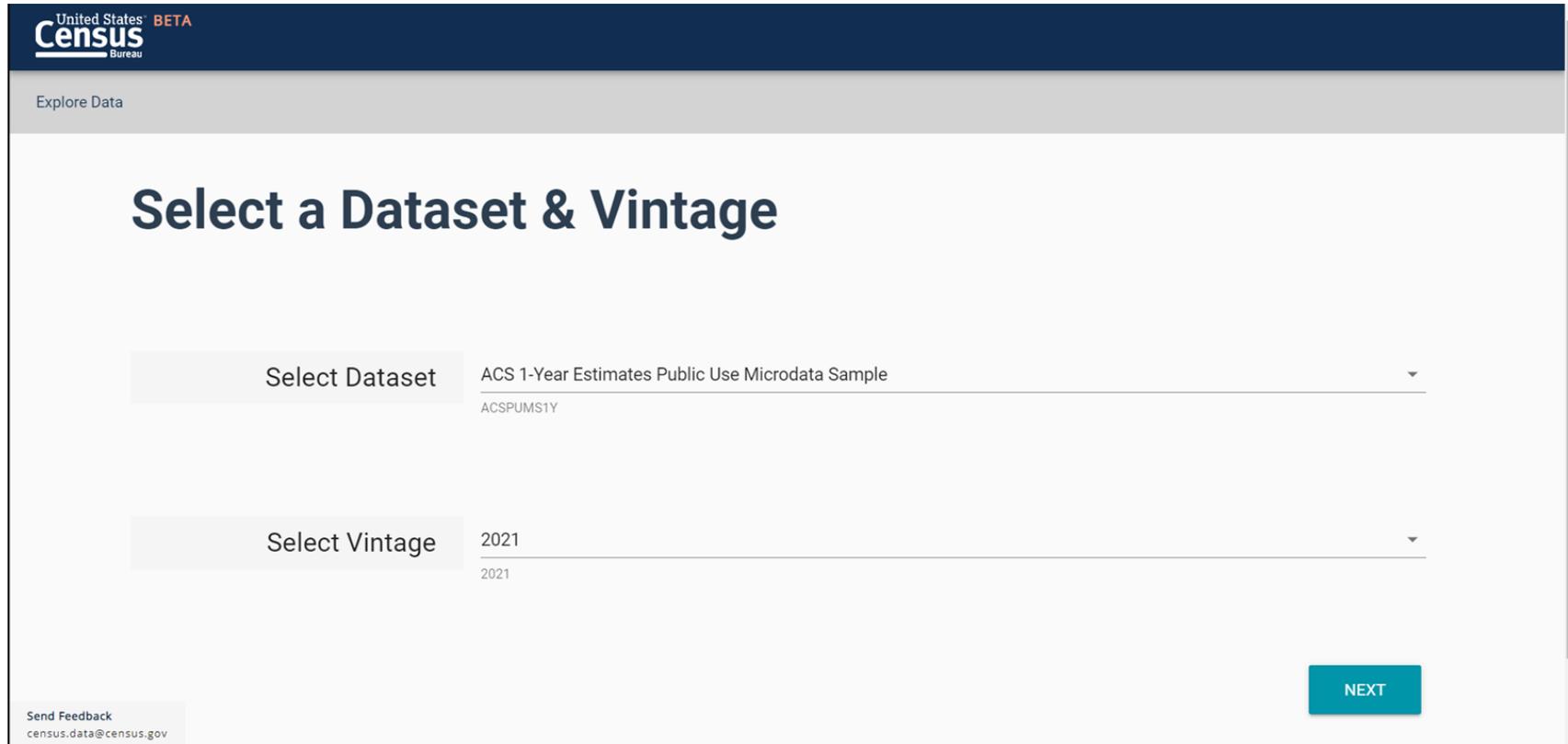
Values in table cells: Count Universe: selected geographies: District of Columbia (West)..., District of Columbia (North)..., District of Columbia (North)..., District of Columbia (East)..., District of Columbia (Centr...

Show Total

| Age recode (AGEP_RC1) | Selected Geographies | | | | | |
|--|----------------------|--|---|---|--|---|
| | Total | District of Columbia (West) PUMA, District of Columbia | District of Columbia (North) PUMA, District of Columbia | District of Columbia (Northeast) PUMA, District of Columbia | District of Columbia (East) PUMA, District of Columbia | District of Columbia (Central) PUMA, District of Columbia |
| ∨ Total (6) | 670,050 | 100,758 | 127,569 | 125,174 | 149,191 | 167,358 |
| ∨ Total With health insurance coverage (3) | 645,228 | 99,538 | 120,969 | 121,036 | 140,004 | 163,681 |
| Under 24 Years Old | 182,445 | 29,729 | 36,147 | 32,101 | 47,334 | 37,134 |
| 25 to 40 Years Old | 211,666 | 23,108 | 35,001 | 43,672 | 34,347 | 75,538 |
| 41 Years Old and Over | 251,117 | 46,701 | 49,821 | 45,263 | 58,323 | 51,009 |
| ∨ Total No health insurance coverage (3) | 24,822 | 1,220 | 6,600 | 4,138 | 9,187 | 3,677 |
| Under 24 Years Old | 8,507 | 556 | 1,582 | 1,328 | 3,939 | 1,102 |
| 25 to 40 Years Old | 8,821 | 370 | 2,042 | 1,634 | 3,362 | 1,413 |
| 41 Years Old and Over | 7,494 | 294 | 2,976 | 1,176 | 1,886 | 1,162 |

Send Feedback census.data@census.gov

Our Development Depends on YOUR Feedback



The screenshot shows the 'Explore Data' section of the United States Census Bureau website. The main heading is 'Select a Dataset & Vintage'. Below this, there are two dropdown menus. The first is labeled 'Select Dataset' and is currently set to 'ACS 1-Year Estimates Public Use Microdata Sample' with the code 'ACSPUMS1Y' below it. The second is labeled 'Select Vintage' and is currently set to '2021' with '2021' below it. A teal 'NEXT' button is located at the bottom right. In the bottom left corner, there is a 'Send Feedback' link with the email address 'census.data@census.gov'.

Check out data.census.gov/mdat and provide comments at census.data@census.gov

How-To Materials for Microdata Access

Resources Link:

<https://www.census.gov/data/what-is-data-census-gov/guidance-for-data-users/how-to-materials-for-using-the-microdata-access.html>

Includes:

- PDFs
- Recorded Webinars
- Video Tutorials
- Data Availability
- Data Dictionaries
- PUMS
- Documentation

The screenshot shows a webpage titled "How-to Materials for Using the Microdata Access". On the left is a navigation menu with links: "Within Guidance for Data Users", "Frequently Asked Questions", "How-to Materials for Using data.census.gov", "How-to Materials for Using the Census API", "How-to Materials for Using the Microdata Access", "Transition from AFF", "Transition from DataFerrett", "Video Tutorials", and "Webinars". The main content area features the title, social sharing icons for Facebook, Twitter, and LinkedIn, and a paragraph: "Do you have questions on how to use Microdata Access? Check out our step-by-step guidance to learn how to use Microdata Access to create your own tabulations." Below this are two download links: "Using Microdata Access: With ACS 1-Year Estimates – Public Use Microdata Sample [1.5 MB]" and "Using Microdata Access: How To Create Poverty Estimates From The CPS ASEC [2.4 MB]". A "Related Information" sidebar on the right lists "Guidance for Developers", "Contact Us", "DATA TOOL", and "Census Survey Explorer". At the bottom, there is a "Webinars" section with two featured items: "Creating Customized Tables: Microdata Access Tool in data.census.gov" and "Custom Tabulation Capabilities on data.census.gov". A search bar and a "Click Here for Our Canary Site" button are also visible.

Microdata Access Tool Workshop

// [Census.gov](#) / [Data](#) / [data.census.gov Resources](#) / [Workshops](#) / Basics of Using the Microdata Access Tool in data.census.gov

Within Workshops

- [Advanced Usage of data.census.gov](#)
- [Basics of Finding Data Using data.census.gov](#)
- [Basics of Using the Census API](#)
- [Basics of Using the Microdata Access Tool in data.census.gov](#)**
- [Making the Most of Mapping in data.census.gov](#)

Basics of Using the Microdata Access Tool in data.census.gov

Share   

Facebook Twitter LinkedIn

These participatory classes walk you through examples of creating tables in the Microdata Access Tool (MDAT) within data.census.gov. Microdata Access on data.census.gov/mdat allows you to create custom tables that are not available in the pre-made tables on data.census.gov, without having to use your own statistical software or special programming.

Time is allotted throughout the training for questions, and participation is strongly encouraged. Using two monitors is recommended for this class, if available.

To ensure that we can maximize the number of attendees, we ask that you only register for a single session. If you need to register for more than one session of the same workshop for any reason, please email us at census.data@census.gov to request this.

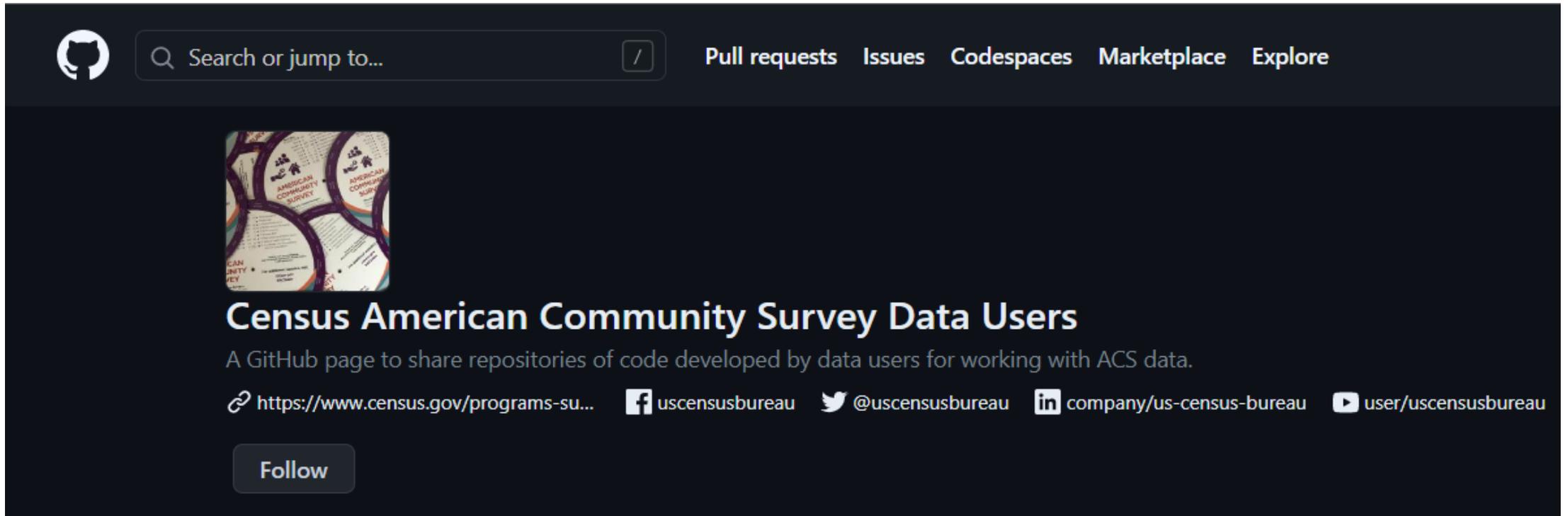
- Please click sessions below to register.
- Registration is required to attend these workshops. Attendance is limited to 50 participants per session.

***When registering, if you receive a message that you are waitlisted, please sign up for later class. We are trying to move classes to Waitlist as they fill, but sometimes there is a lag in that update.


Top

<https://www.census.gov/data/what-is-data-census-gov/workshops/basics-of-using-the-microdata-access-tool-in-data-census-gov.html>

ACS Data User Github



The screenshot shows the GitHub profile page for 'Census American Community Survey Data Users'. At the top, there is a search bar with the text 'Search or jump to...' and a slash icon. To the right of the search bar are navigation links: 'Pull requests', 'Issues', 'Codespaces', 'Marketplace', and 'Explore'. Below the navigation bar is a profile picture showing several overlapping documents with the text 'AMERICAN COMMUNITY SURVEY'. The profile name is 'Census American Community Survey Data Users' in a large, bold font. Below the name is a bio: 'A GitHub page to share repositories of code developed by data users for working with ACS data.' Underneath the bio are social media links: a website link 'https://www.census.gov/programs-su...', a Facebook link 'uscensusbureau', a Twitter link '@uscensusbureau', a LinkedIn link 'company/us-census-bureau', and a YouTube link 'user/uscensusbureau'. At the bottom left of the profile section is a 'Follow' button.

<https://github.com/Census-ACS>

Stay Connected

data.census.gov Resources page:
[census.gov/data/what-is-data-census-gov.html](https://www.census.gov/data/what-is-data-census-gov.html)

Census Academy:
[census.gov/data/academy/webinars/upcoming.html](https://www.census.gov/data/academy/webinars/upcoming.html)

Feedback: Email comments to
census.data@census.gov

Dissemination Outreach Branch
Center for Enterprise Dissemination
U.S. Census Bureau
census.data@census.gov
301-763-8327



The screenshot displays the 'data.census.gov Resources' page. At the top, a banner features the text 'data.census.gov Resources' and a button that says 'EXPLORE DATA ON DATA.CENSUS.GOV'. Below the banner, there are social media sharing options for Facebook, Twitter, and LinkedIn. The page is divided into several sections: 'Featured Resources' with links to 'Latest Data Releases', 'data.census.gov Updates', and 'How-to Materials'; 'Recent Video Tutorials' featuring a video by Maria Valdisera titled 'Building a Custom Table Using Microdata Access (MDAT)'; and a 'Developers' section with a link to 'Finding 2010 SF1 Data in the Census Data API'. A 'Help improve this site' button is visible in the bottom right corner.

Questions?