Accessing Census Bureau Data via data.census.gov

New Mexico Data Users Conference
November 20, 2024

Rex Kung

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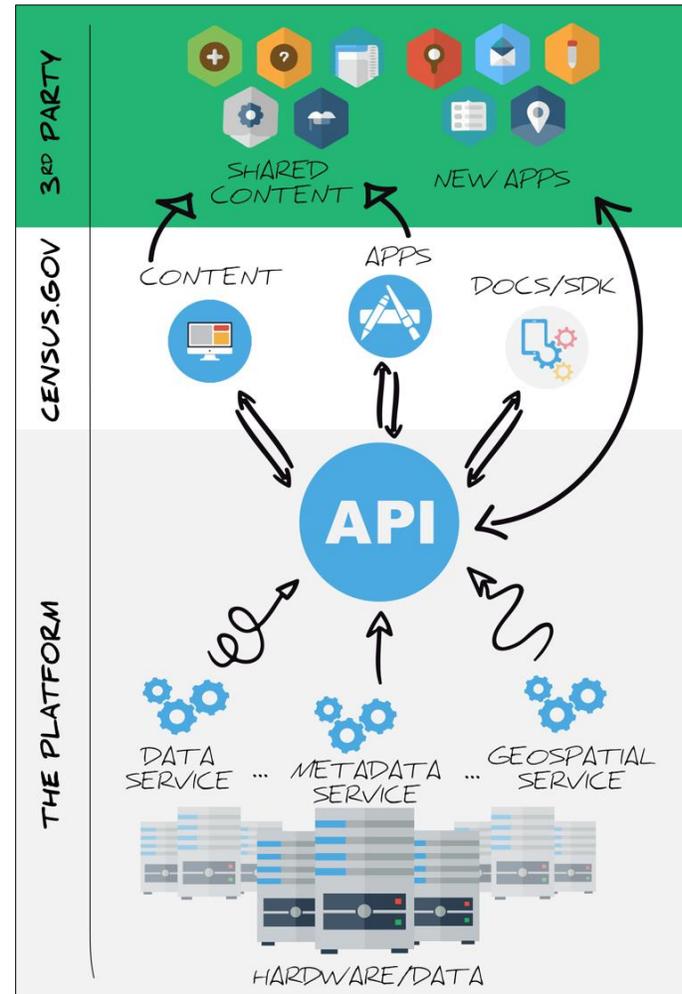
U.S. Census Bureau

Outline

- data.census.gov Live Demo and Tips

- Microdata Access Tool (MDAT) Live Demo and Tips

- Latest and Upcoming Updates

- Resources for Learning More

- Questions

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data.census.gov: Changing the way you get data.
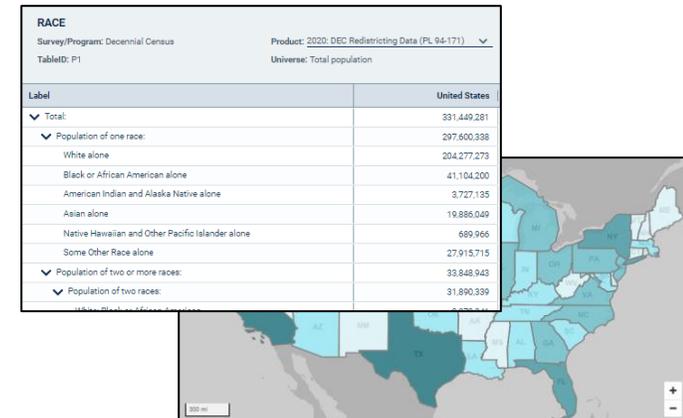
Directly query the API

- Machine-readable data perfect for use in dashboards or apps

- Provides single or multiple pieces of data

- Includes more datasets

- Quickly and easily make bulk queries

Query through data.census.gov

- Returns formatted data

- Provides tables, maps, and visualizations

- Queries are made for you

- No need to learn how to use the API

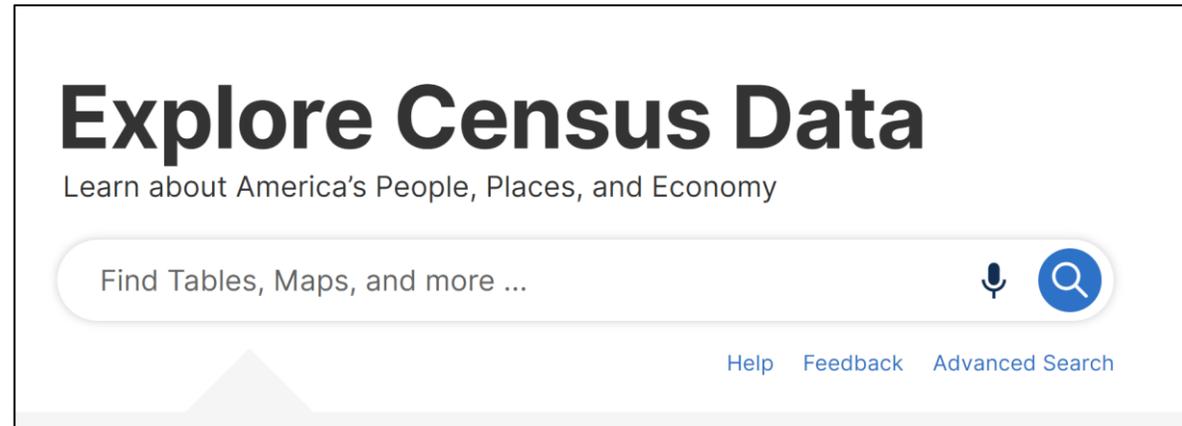# What Data Are Available on data.census.gov?

General Data Availability:

- Decennial Census: 2000-2020

- American Community Survey (ACS): 2010-2023

- Econ Census and Selected Surveys: 2012-present

	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
ACS 1-Year Detailed Tables		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
ACS 1-Year Data Profiles		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
ACS 1-Year Comparison Profiles		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
ACS 1-Year Subject Tables		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
ACS 1-Year Selected Population Profiles		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
ACS 5-Year American Indian and Alaska Native Tables		✓					✓						✓		
ACS 5-Year Selected Population Tables		✓					✓						✓		
ACS 5-Year Detailed Tables		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
ACS 5-Year Data Profiles		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
ACS 5-Year Comparison Profiles						✓	✓	✓	✓	✓	✓	✓	✓		
ACS 5-Year Subject Tables		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
ACS 5-Year Equal Employment Opportunity										✓					
ACS Supplemental Estimates						✓	✓	✓	✓	✓	✓		✓	✓	
Community Resilience Estimates											✓				
Decennial Demographic Profile												✓			
Decennial Demographic and Housing Characteristics File (DHC)												✓			
Detailed Demographic and Housing Characteristics File A (Detailed DHC-A)												✓			
Detailed Demographic and Housing Characteristics File B (Detailed DHC-B)												✓			
Supplemental Demographic and Housing Characteristics File (S-DHC)												✓			
Decennial Summary File 1 (SF1), Summary File 2 (SF2)	✓	✓													
Decennial Summary File 3 (SF3), Summary File 4 (SF4)	✓														
Decennial Summary File 2 (SF2), Summary File 3 (SF3), File 4 (SF4) Demographic Profile	✓														
Decennial National Redistricting Data		✓													
Decennial Redistricting Data (PL 94-171)	✓	✓										✓			

United States Census Bureau

Two Ways to Search

Single Search Bar: Search keywords
- Topic
- Geography
- Year
- Table IDs
- Codes

Explore Census Data
Learn about America's People, Places, and Economy

    Find Tables, Maps, and more ...

Help   Feedback   Advanced Search

Advanced Search Filters:
- A guided approach
- More precise than single search
- Includes all available search options

📖 **Topics**
- Business and Economy >
- Education >
- Employment >
- Families and Living Arrangements >
- Government >
- Health >
- Housing >
- Income and Poverty >
- Populations and People >
- Race and Ethnicity >

📋 **Surveys**

Chevron: Explore more detailed options

Health >

Check box: Final selection

☑ Health Insurance

United States® Census Bureau

Demo

1. **Single Search | Tips to Get Started**

   Examples:
   - Geography Profile for Albuquerque, NM
   - Total population in Bernalillo County, NM
   - 2020 Decennial Census in New Mexico

2. **Filters | Comparing Across Geographies**

   Examples:
   - Population 65+ for all census tracts in Santa Fe County, NM.
   - Educational Attainment for San Juan County, NM, Farmington, NM, and ZIP Code Tabulation Area 87401 (download)
   - Number of people with a disability for all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251) (mapping)

3. **Finding Detailed DHC-B Data**

   Examples: Navajo Nation alone or in any combination population for all counties in New Mexico.

4. **Making the Most of Your Search | Customizing and Saving Tables**

   Example: Poverty rate from table DP03 for all counties in New Mexico

Demo

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Visualizations of popular Census Bureau data for Albuquerque, NM

Single Search:

All Results Page:

Two Ways to access the Geography Profile for Albuquerque, NM

1. **The Single Search Bar**
   - Type **Albuquerque, NM** in the single search bar or use **Advanced Search**
   - Click the map or phrase on the right side of the typeahead search.

2. **The All Results Page**
   - Type **Albuquerque, NM** in the single search or use the **advanced search** filters
   - On the right hand side of the screen, click "**Albuquerque city, New Mexico View Profile**"

data.census.gov
View Geography Profile

- View popular statistics at the top of the page

data.census.gov
Navigate to Education

- Scroll down to view profile

- Click the **Education** tab

- Click **S1501**
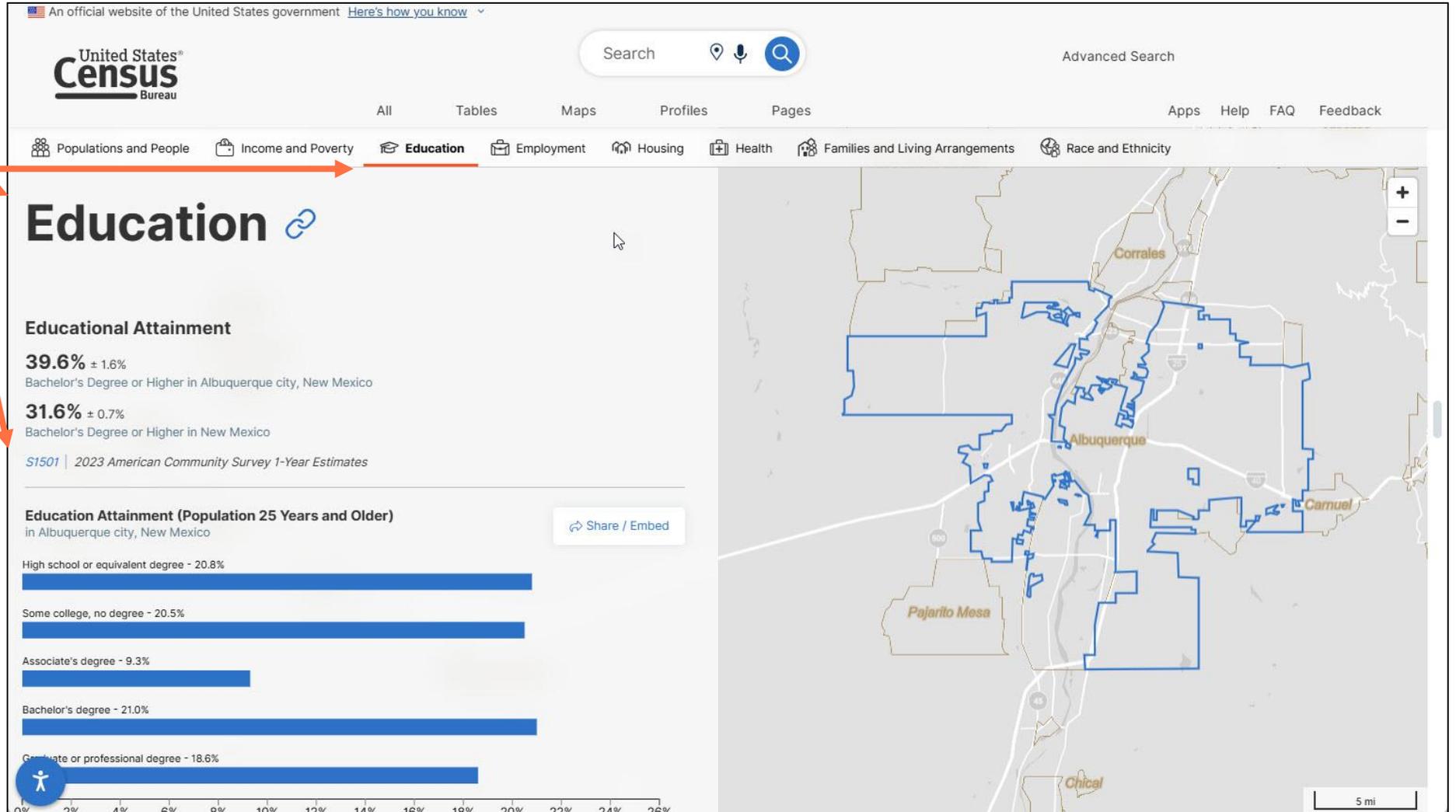
data.census.gov
View Table

- View table

Single Search: Topic + Geography
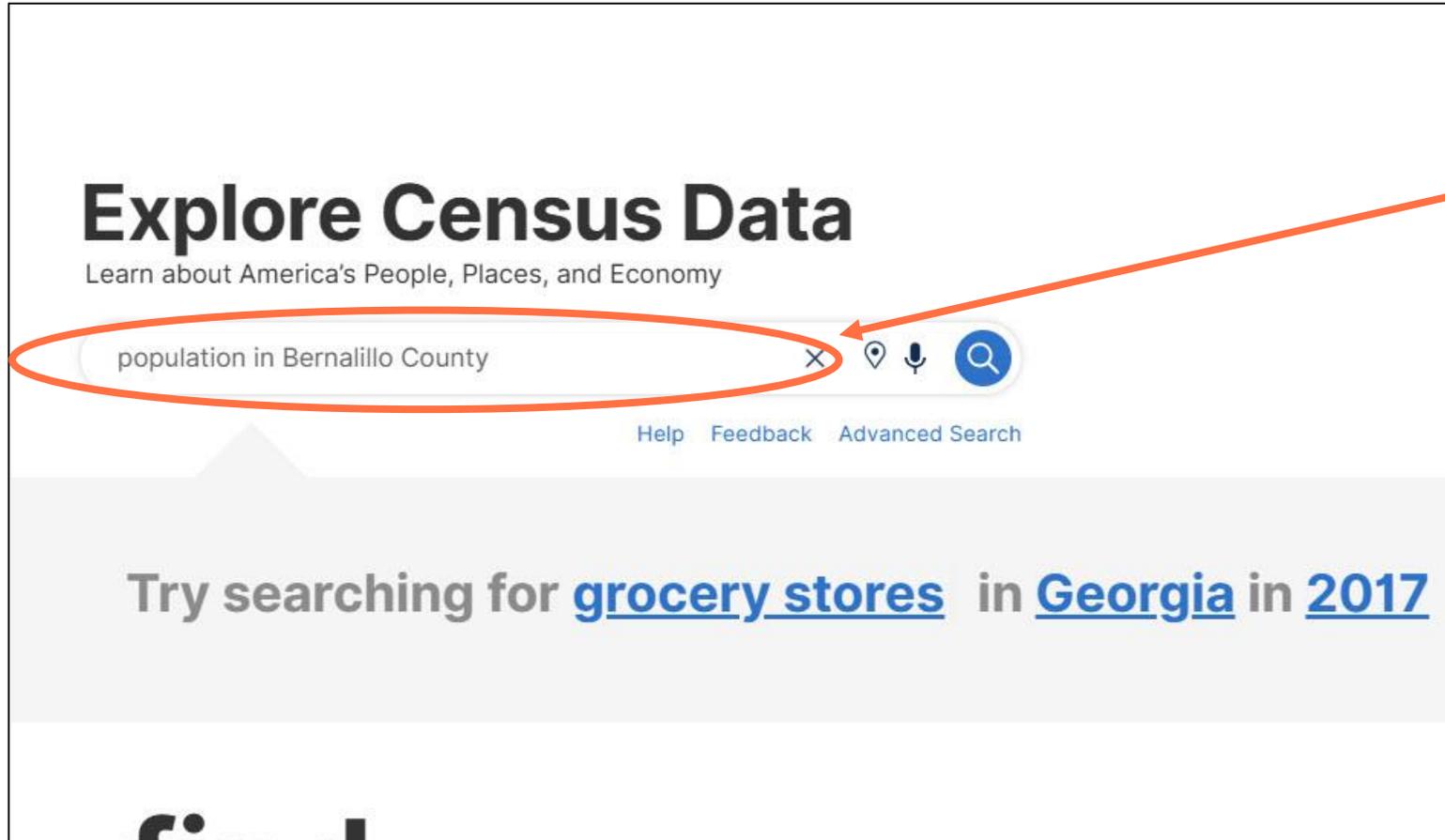
- Type keywords in the single search bar: **population in Bernalillo County**

- **Press enter**

View All Results Page

- View featured data value at the top of the page

View Table Results Page

View table results from:
- Decennial Census

- American Community Survey

Single Search: Survey/Program + Geography

- Type **2020 Decennial Census New Mexico** in the single search bar and press enter

- View the 2020 Census tables that are currently available

- Click the **U.S. Census Bureau logo** to return to the landing page

Demo

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   Example: Poverty rate from table DP03 for all counties in New Mexico

Open the Filter Panel
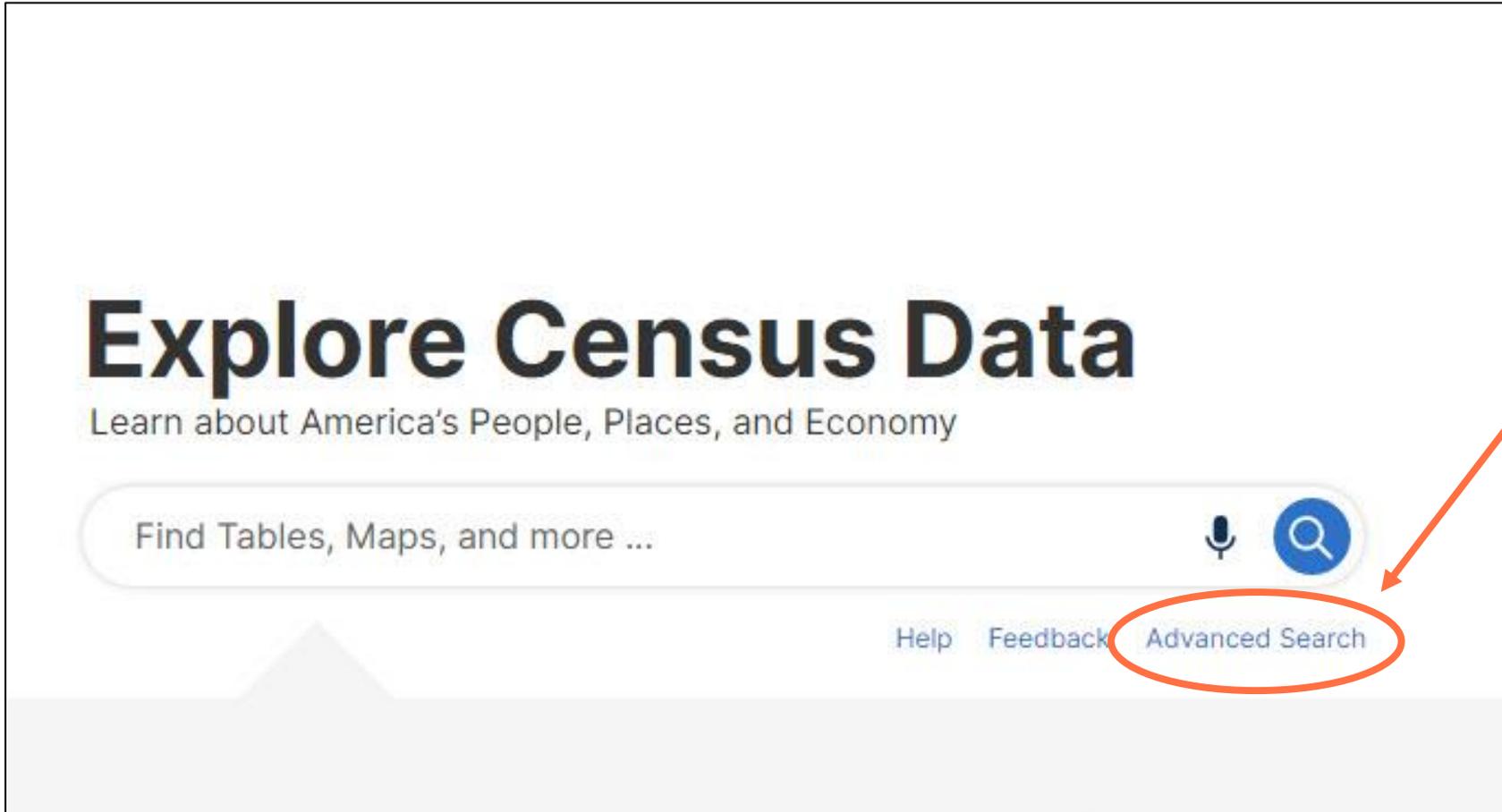
- Select **Advanced Search** to open the filter panel

Example #1: Population 65+ for all census tracts in Santa Fe County, NM.

- Under Geographies section: all census tracts in Santa Fe County, NM.

  Census Tract → New Mexico → Santa Fe County, NM → check the box next to All Census Tracts within Santa Fe County, New Mexico.

Example #1: Population 65+ for all census tracts in Santa Fe County, NM.

- Select Topic: Older Population

  Under Topics section → Populations and People → check the box next to Older Population, then click on SEARCH button on the bottom right.

Example #1: Population 65+ for all census tracts in Santa Fe County, NM.

- Read the table result

  Click on the table DP05 and find population 65 years and over from the full table.

Example #2: Educational Attainment for San Juan County, NM, Farmington, NM, and ZIP Code Tabulation Area 87401 (download)

- Select Geography: San Juan County, NM

  County → New Mexico → check the box next to San Juan County, NM

Example #2: Educational Attainment for San Juan County, NM, Farmington, NM, and ZIP Code Tabulation Area 87401 (download)

- Select Geography: Farmington, NM

  Under Geographies → Place → New Mexico → check the box next to Farmington city, NM

Example #2: Educational Attainment for San Juan County, NM, Farmington, NM, and ZIP Code Tabulation Area 87401 (download)

- Select Geography: Zip Code Tabulation Area 87401

  Zip Code Tabulation Area → New Mexico → type 87401 in the ZCTA search box, then check the box next to ZCTA5 87401

Example #2: Educational Attainment for San Juan County, NM, Farmington, NM, and ZIP Code Tabulation Area 87401 (download)

- Select Topic: Educational Attainment

  Under Topics → Education → check the box next to Educational Attainment, then click on SEARCH button on the bottom right.

- Select table S1501 from the top of tables result

Download Table

- Click **Excel, CSV, or ZIP** icon on the top of the full table to download your table

- If you click on **ZIP** icon to download, you can download multiple years by selecting table vintages to download.

- Click **Download**

Example #3: Number of people with a disability for all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251) (mapping)

- Select Geography: all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251)

  Under Geographies → All Geographies → American Indian Area Tribal Subdivisions/Remainder → type Navajo in the text search box → click on Navajo Nation Reservation and Off-Reservation Trust Land, AZ--NM--UT

Example #3: Number of people with a disability for all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251) (mapping)

- Select Geography: all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251)

  Check the box next to All American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ--NM

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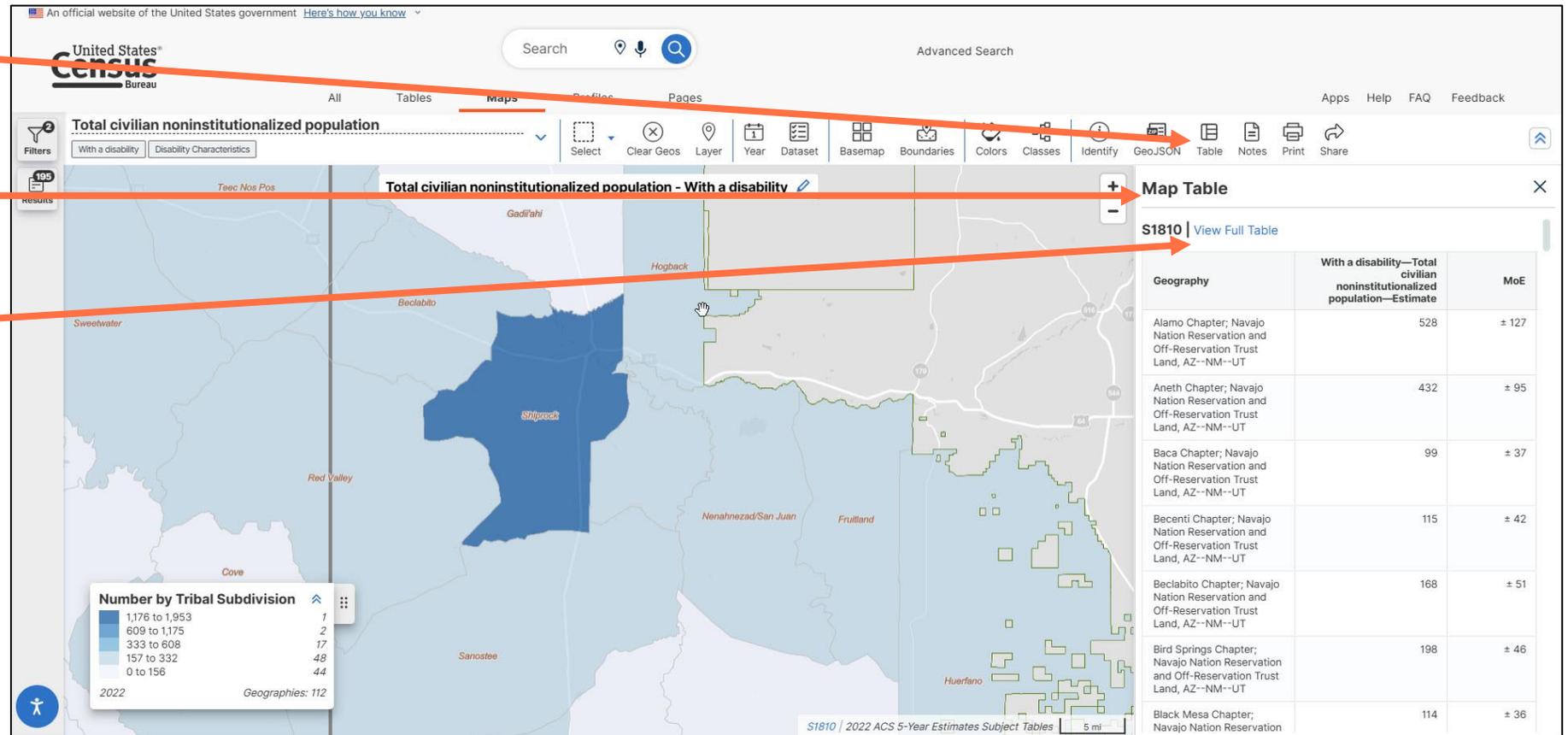- Select Topic: Disability

  Under Topics → Health → check the box next to Disability, then click on SEARCH button on the bottom right.
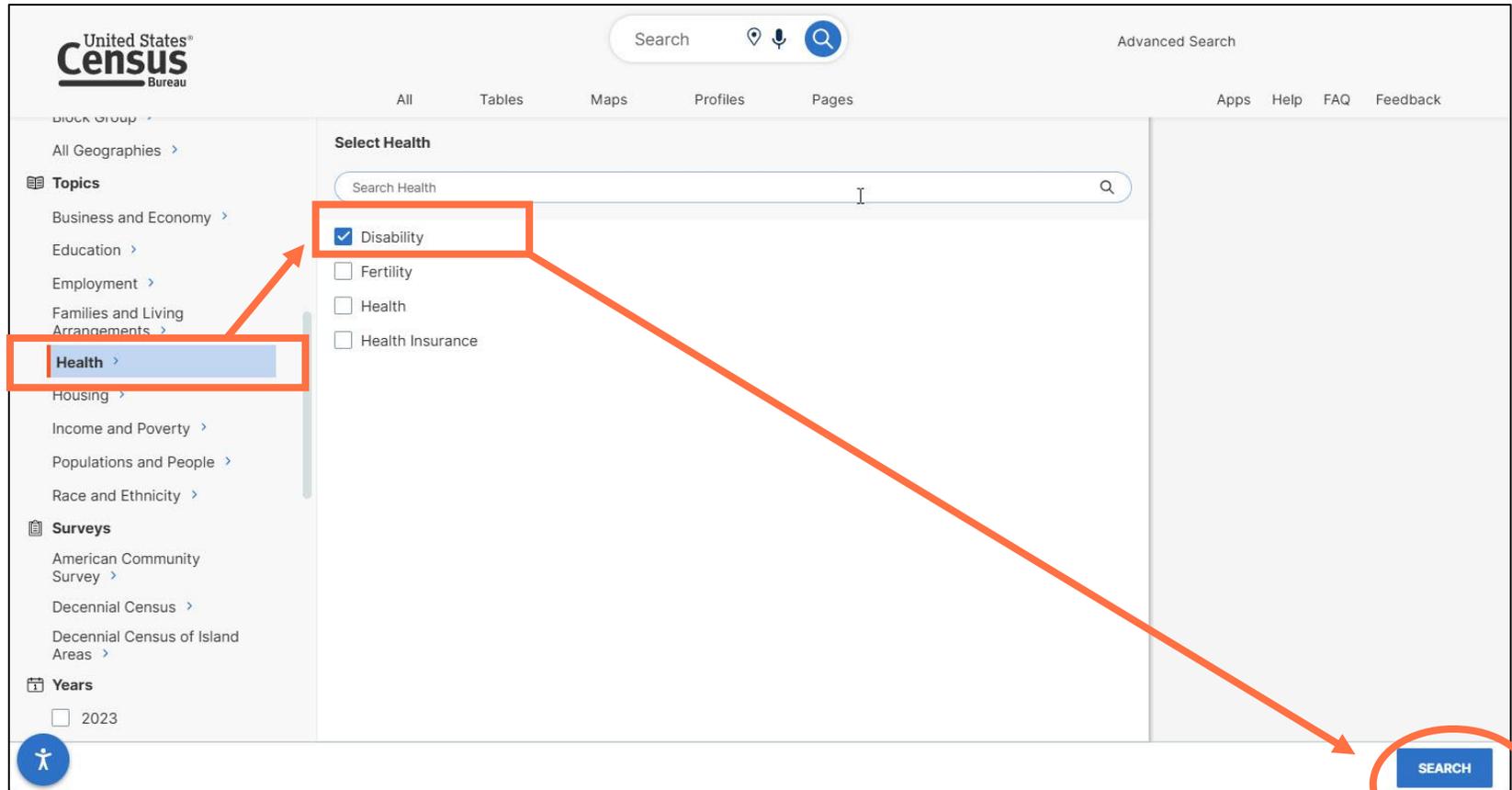
Example #3: Number of people with a disability for all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251) (mapping)

- Read the table result

  Click on the first table, and find data for number of people with a disability from the full table.

Example #3: Number of people with a disability for all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251) (mapping)

Navigate to Map

Navigate to the map tab

- Click **Maps** in the upper left or **Map** icon in the top right.

Example #3: Number of people with a disability for all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251) (mapping)

Select Your Variable
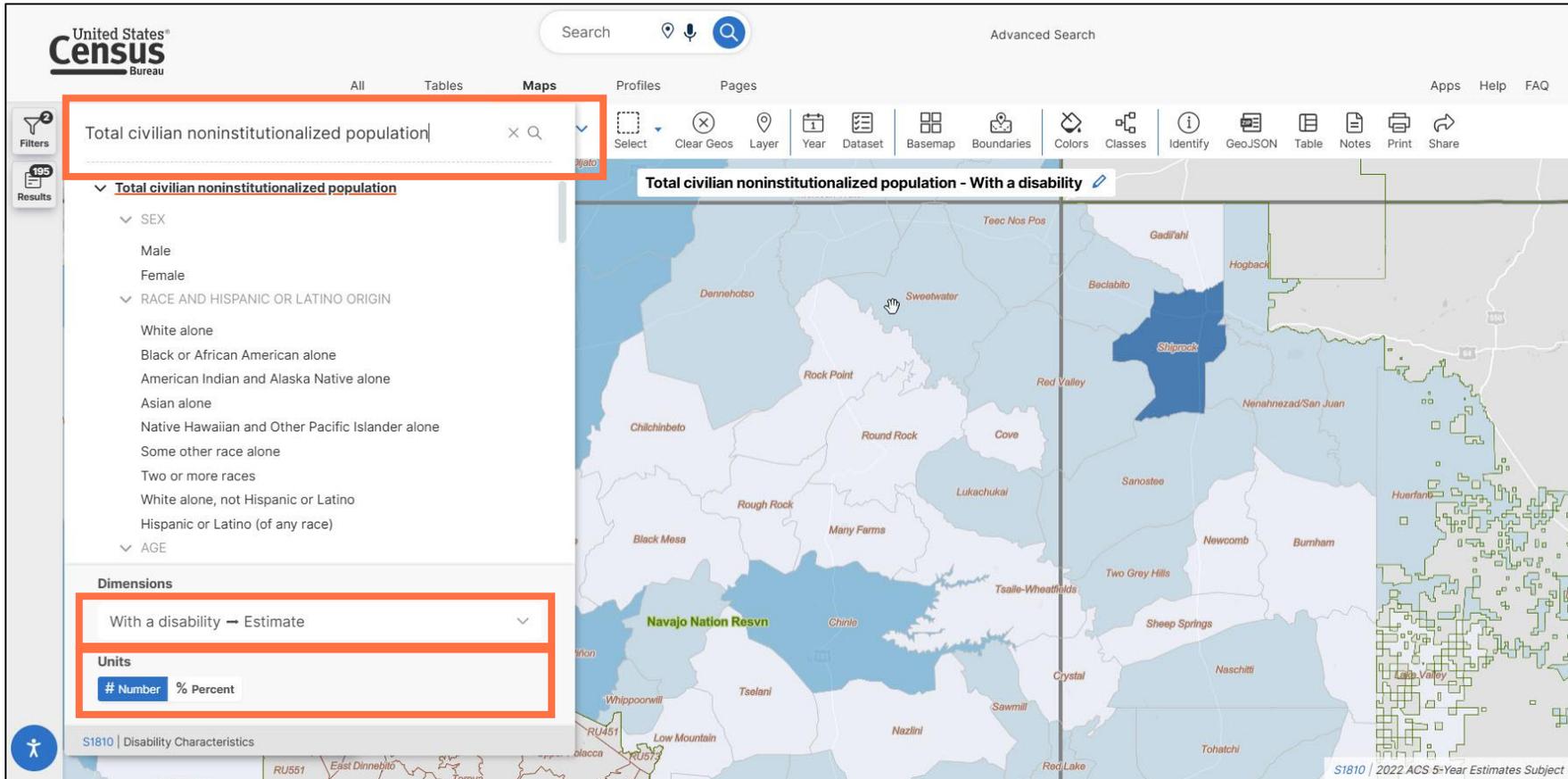
From the Map View

- Click the **dropdown menu box** to select your variable

- Make sure the Dimensions is **With a disability – Estimate** and Units is **# Number**

Example #3: Number of people with a disability for all American Indian Area Tribal Subdivisions within Navajo Nation Reservation and Off-Reservation Trust Land, AZ—NM (SL 251) (mapping)

View Map
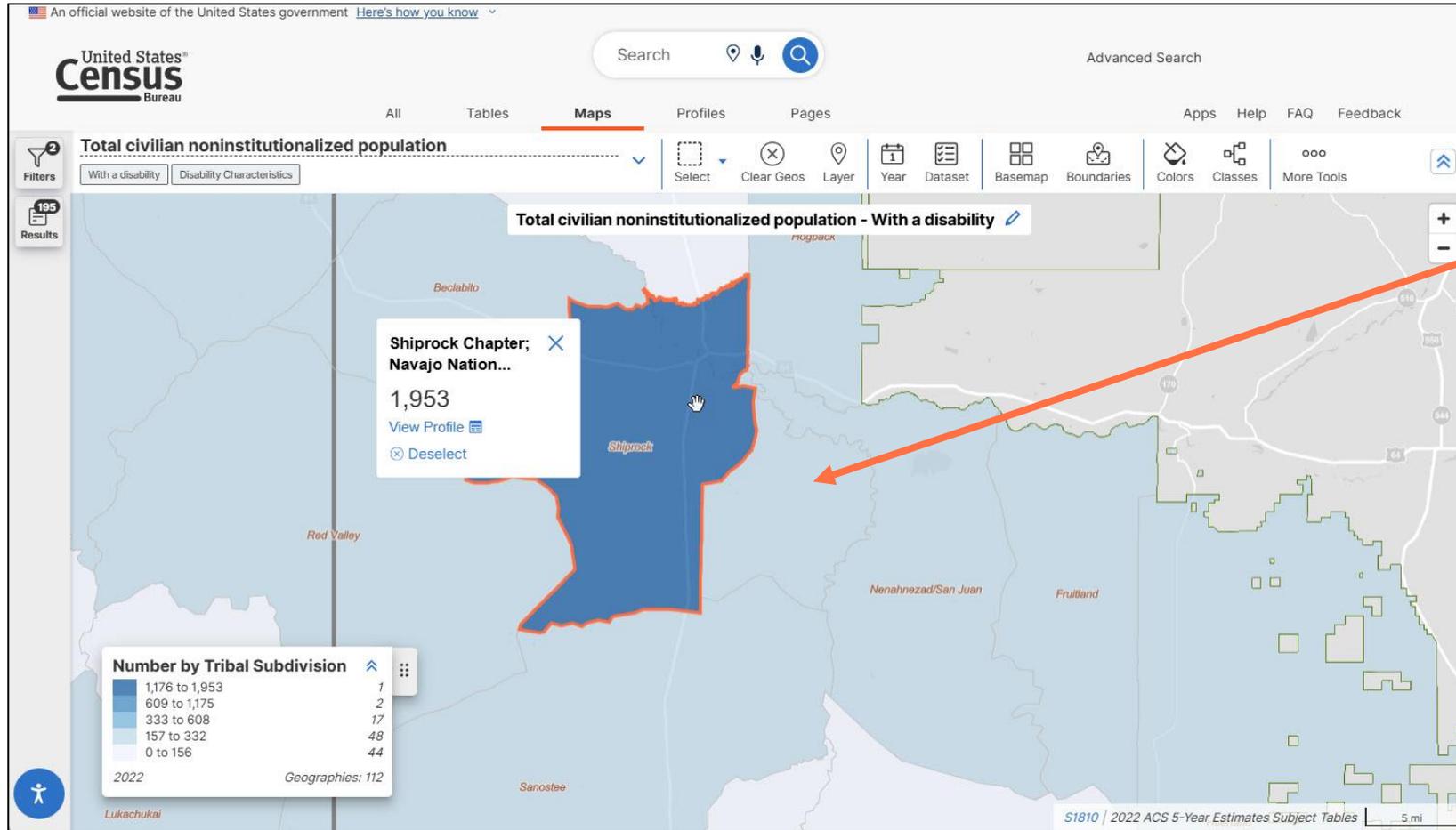
- Click on the geography with the darkest shade of blue to see which one has the highest number of people with a disability

Compare Your Variable Across Geographies

- Click **Table** icon on the top of the map

- View **Map Table** with all of your geographies.

- Click **View Full Table** to return to the full set of data

Demo

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3. **Finding Detailed DHC-B Data**
   Examples: Navajo Nation alone or in any combination population for all counties in New Mexico.

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   Example: Poverty rate from table DP03 for all counties in New Mexico

Ensure Race/Ethnicity Filters Are Compatible with Detailed DHC-B

Tip: Select the <u>year</u> and <u>survey</u> filters *before* selecting race/ethnicity filters
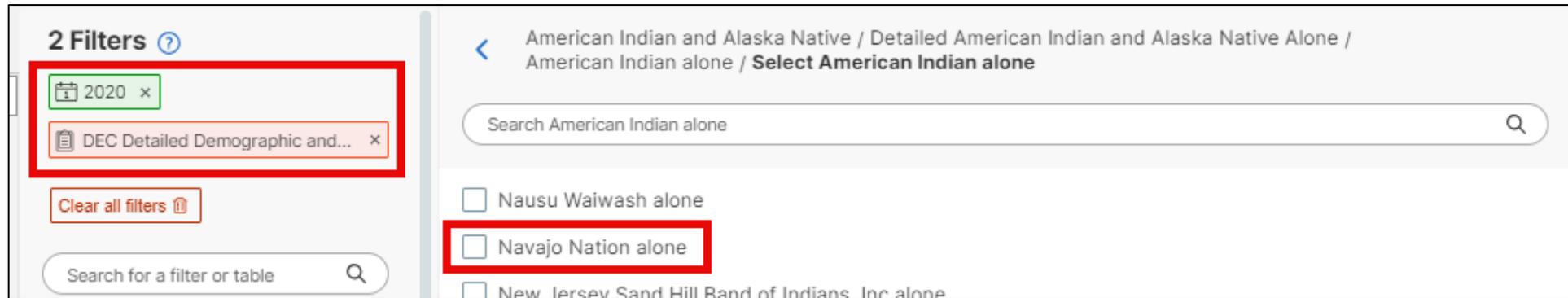
If you try to select race and ethnicity filters first, you will see all possible options. Filters can change over time: Example: "Navajo alone" is for 2000 Census data; "Navajo Nation alone" is for 2020 Census data
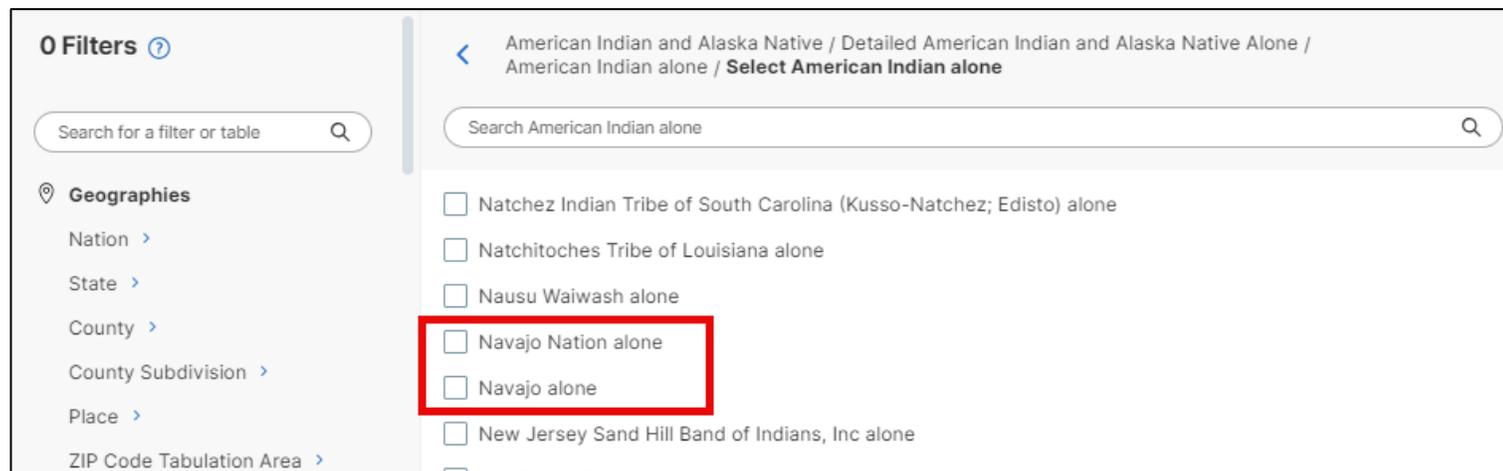
Where Can I Learn More About 2020 Census Detailed DHC-B?

2020 Census Detailed Demographic and Housing Characteristics File B Press Kit

July 09, 2024

Share   Facebook   X (Twitter)   LinkedIn

The 2020 Census Detailed Demographic and Housing Characteristics File B (Detailed DHC-B) includes detailed data tables on the following:

- Subjects: Household type and tenure information for approximately 1,500 detailed race and ethnicity groups and detailed American Indian and Alaska Native (AIAN) tribes and villages.
- 2020 geographies: Nation, state, county, places (cities and towns), census tracts, and American Indian/Alaska Native/Native Hawaiian (AIANNH) areas.

census.gov/newsroom/press-kits/2024/2020-detailed-dhc-file-b.html

Includes:
- Understand the Detailed DHC-B Blog post
- Pre-Release Webinar Recording
- Technical Documentation
- Iteration/Code Lists and Crosswalks
- How-To Materials
- Related Helpful Links

United States® Census Bureau

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Demo

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    Example: Poverty rate from table DP03 for all counties in New Mexico

Example: Poverty rate from table DP03 for all counties in New Mexico

Single Search: Table ID

- Type a table ID in the single search bar: **DP0**

- **Press enter**

View Table Result and Add Filters

- Click the **Filter** button if needed to open the filter panel

Geography Filter Panel

- Click **Geographies** section

- Click **County**

- Click **New Mexico**

- Check the box next to **All Counties within New Mexico**

- Click the **X** at the top of the panel

Open Table

- Click **DP03**

View Table

- Click the **Filters** and **Results** buttons to collapse the panels and view the table across your full screen

- View percentage of families and people whose income in the past 12 months is below the poverty level across all places in Tennessee

Customize Table: Hide Columns

- Click **Columns** at the top of the table

- Click the **check box at the top of the list** on the right to hide all columns for the table

Customize Table: Hide Columns (continued)

- Type **percent** in the text box to only show column headers that contain the word 'percent'

- Click the **check box at the top of the list** to show all columns in the list

- Click **Hide** at the top of the table to close the panel

Customize Table: Margin of Error

- Click the **Margin of Error** button at the top of the table to turn off the margin of error

Example: Poverty rate from table DP03 for all counties in New Mexico

View Table

- View poverty rate for all counties in New Mexico

Microdata = PUMS Files

Public **U**se **M**icrodata

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

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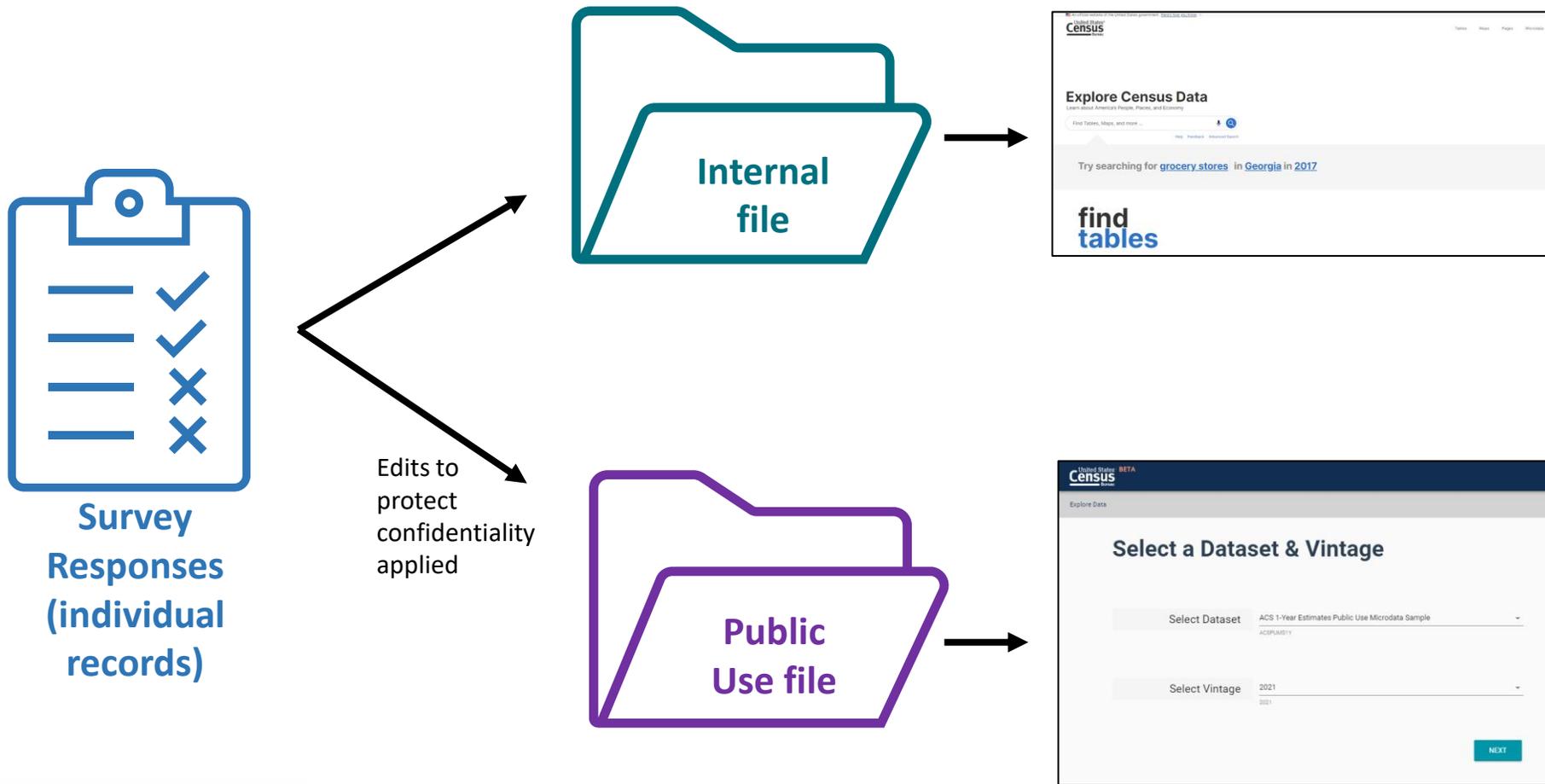
data.census.gov

- Estimates are created using individual records that are only available to Census program area staff

Microdata Access (internally known as MDAT)

- Estimates are created using a sample of individual records that have been processed for use by the public

Survey Responses (individual records)

Edits to protect confidentiality applied

Internal file

Public Use file

What are the pros and cons of using data.census.gov and Microdata Access?

Data.census.gov using Internal file

Microdata Access using Public Use file
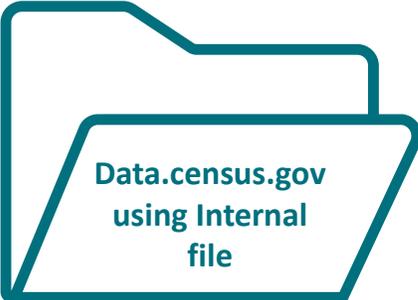
Pros and Cons of Using Tables found in data.census.gov	
Pros:	Cons:
• Provides more precise estimates	• Limited to crosstabulations and tables that are predetermined by data providers
• Wider range of datasets	
• Fewer limitations to available geographies	• Limited ability to customize tables
• No in-depth knowledge of variables required	

Pros and Cons of Creating Tables in Microdata Access	
Pros:	Cons:
• Provides custom estimates when a pre-tabulated Census table is not available	• Limited geographies
• More historical data available	• Provides less precise estimates
	• Requires in-depth knowledge of variables
• Includes datasets not available in data.census.gov	• No margins of error provided

United States® Census Bureau

What's the difference between tabulated data and microdata?

Tabulated data

Label	Maryland	
	Estimate	Margin of Error
∨ Total:	3,098,870	±17,785
∨ Male:	1,565,561	±11,667
∨ Management, business, science, and arts occupations:	682,858	±11,323
∨ Management, business, and financial occupations:	286,831	±7,906
Management occupations	195,401	±6,483
Business and financial operations occupations	91,430	±5,335
∨ Computer, engineering, and science occupations:	212,203	±6,790
Computer and mathematical occupations	121,160	±5,830
Architecture and engineering occupations	54,967	±3,693
Life, physical, and social science occupations	26,076	±2,770

data.census.gov

Aggregated tables for a geography:

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

Microdata

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

Microdata Access (MDAT)

Microdata (a set of edited survey responses):

"This male in Maryland is a web developer."

Data Dictionaries

American Community Survey

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

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

https://www.census.gov/datasets/2024/demo/cps/cps-asec-2024.html

Data Dictionaries

American Community Survey

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

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

```
                    HOUSING RECORD

            HOUSING RECORD-BASIC VARIABLES

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

SERIALNO    Character    13
    Housing unit/GQ person serial number
        2016000000
    2018GO0000
```

```
                    HOUSING RECORD-HOUSING UNIT VARIABLES

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

                Internet at this house, apartment, or mobile

            e-family house or mobile home)
```

```
                PERSON RECORD-PERSON VARIABLES

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

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

CITWP       Numeric      4
```

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Data Dictionaries

American Community Survey

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

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

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

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

Demo

Example 1:

Poverty, and disability status for the United States

Problem: We need poverty status crossed with disability status for the US, but none of the published CPS ASEC poverty tables have this cross of characteristics available

Solution: Use Microdata Access (MDAT)

Official Poverty Measure

- [X] Poverty Thresholds: 2022 [<1.0 MB]
- [X] Table A-1. People in Poverty by Selected Characteristics: 2021 and 2022 [<1.0 MB]
- [X] Table A-2. Families and People in Poverty by Type of Family: 2021 and 2022 [<1.0 MB]
- [X] Table A-3. Poverty Status of People by Age, Race, and Hispanic Origin: 1959 to 2022 [<1.0 MB]
- [X] HSTPOV2. Poverty Status of People by Family Relationship, Race, and Hispanic Origin: 1959 to 2022 [<1.0 MB]
- [X] HSTPOV4. Poverty Status of Families by Type of Family, Presence of Related Children, Race, and Hispanic Origin: 1959 to 2022 [<1.0 MB]
- [X] People With Income Below Specified Ratios of Their Poverty Thresholds by Selected Characteristics: 2022 [<1.0 MB]
- [X] Impact on Poverty of Alternative Resource Measures by Age: 1981 to 2022 [<1.0 MB]
- [X] Interrelationships of Three-Year Average State Poverty Rates: 2020 – 2022 [<1.0 MB]

Poverty Status: POV-01

Age and Sex of All People, Family Members, and Unrelated Individuals.

Poverty Status: POV-02

People in Primary Families by Family Structure, Age, and Sex.

Poverty Status: POV-03

People in Primary Families with Related Children Under 18 by Family Structure, Age, and Sex.

Poverty Status: POV-04

Primary Families by Age of Householder, Number of Children, and Family Structure.

Poverty Status: POV-05

Primary Families by Number of Working Family Members and Family Structure.

Poverty Status: POV-06

Primary Families with Related Children by Age of Children, Number of Working Family Members, and Family Structure.

Poverty Status: POV-07

United States Census Bureau

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

data.census.gov/mdat

- **Choose Dataset and Vintage**:
  - Dataset – **CPS Annual Social and Economic (March) Supplement**
  - Vintage – **MAR 2023**
  - Click **Next** in the lower right

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

- Select variable for Poverty Ratio for Family Income:
  - Type "FAMLIS" in the Variable search box or type "ratio" in the label search box
  - Click **Details** to browse information about this variable
  - Check the box to the left of FAMLIS to add the variable to your data cart

- Select variable for Disability Status:
  - Type "PRDISFLG" in the Variable search box or type "disability" in the label search box
  - Check the box to the left of PRDISFLG to add the variable to your data cart

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

- **Categorize your variable**:
  - Move to the **Data Cart** tab
  - Click the **PRDISFLG** variable on the left
  - Uncheck the box for Not in Universe

- Categorize (recode) your variable:
  - Click the FAMLIS variable on the left
  - Click **Create Custom Group** to begin specifying your poverty breakdown (e.g. In Poverty and Not in Poverty)

- Categorize (recode) your variable:
    - Click into **Group label** and type a label for the first category you want to create (e.g. In Poverty)
    - Check the box next to the response category for this code (Below Poverty Level)
    - Click **Save Group**

Categorize (recode) your variable:

- Your first category, In Poverty, appears just below "Not Elsewhere Classified"
- Click **Edit Group** for "Not Elsewhere Classified" to verify and rename the category

- **Categorize (recode) your variable**:
  - Click into **Group label** and type a label for the next category you want to create (e.g. Not in Poverty)
  - Check the boxes next to the response categories for this (100-124 Percent of the Poverty Level, 125-149 Percent of the Poverty Level, and 150 and Above the Poverty Level)
  - Click **Save Group**

- **Categorize (recode) your variable**:
    - This next category, Not in Poverty, appears just below "In Poverty"
    - Click **Edit Group** for "Not Elsewhere Classified" to verify and rename the category

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

Selected Variables (3)

PRDISFLG
2 of 3 responses

FAMLIS
5 of 5 responses

FAMLIS_RC1
3 of 3 responses

✏️ **ratio of fmly income level recode**

Not Elsewhere Classified
VALUES: -1   EDIT GROUP

In Poverty
VALUES: 1   EDIT GROUP

Not in Poverty
VALUES: 2, 3, 4   EDIT GROUP

Dataset: CPS Annual Social and Economic (March) Supplement (202303)   CHANGE   VIEW TABLE

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- Categorize (recode) your variable:
    - Click into **Group label** and type a label for the last category you want to create (e.g. Not in Universe)
    - Check the box next to the response category for this (Not in Poverty Universe)
    - Click **Save Group**

- View variable placement in the default table layout:
  - Move to the **Table Layout** tab
  - **Columns/Rows – Variables will be shown in the table.** By default, the table is providing disability and poverty in the columns.

- Edit Table Layout:
  - Move Disability to Rows:
    - Click, hold and drag PRDISFLG on the left side of the page down to the rows heading. This will give you a table layout with disability status as the rows.

- Edit Table Layout:
  - **Move Poverty to Columns:**
    - **Click, hold and drag FAMLIS down to the Not on table section.** This will remove these categories from the table.

- Edit Table Layout:
    - **Move Poverty Recode to Columns:**
        - **Click, hold and drag FAMLIS_RC1 up to the columns heading.** This will display the recoded categories that were created earlier as the columns.

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

View Table

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

✏ **Custom Table**   CUSTOMIZE VARIABLES   DOWNLOAD / SHARE   DETAILS ⌄

Dataset: CPS Annual Social and Economic (March) Supplement   **CHANGE DATASET**   Geography: 0 geographies selected   **CHANGE GEOGRAPHY**

Vintage: MAR 2023 ▾   Weighting: Weight, March supplement - Person ▾

On Columns ⊕   **On Rows** ⊕

FAMLIS_RC1   PRDISFLG

Not on Table ⊕   **"Values in table cells" Options** ⊕

FAMLIS

Values in table cells: Universe: **Disability - recode, disabled (PRDISFLG)**: all except: Not in Universe

Count ▾

🔵 Show Total

| Disability - recode, disabled | ratio of fmly income level recode (FAMLIS_RC1) | | | |
	Total	In Poverty	Not in Poverty	Not in Universe
⌄ Total (2)	270,647,145	28,890,777	241,756,368	0
Yes	33,144,045	6,490,519	26,653,526	0
No	237,503,100	22,400,258	215,102,842	0

United States Census Bureau

Demo

Example 2:

Health insurance coverage by industry for New Mexico

Problem: We need health insurance coverage crossed with specific industries for New Mexico, but none of the published ACS tables have this cross of characteristics available

Solution: Use Microdata Access (MDAT)

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

data.census.gov/mdat

- Choose Dataset and Vintage:
  - Dataset – **ACS 1-Year Estimates – Public Use Microdata Sample**
  - Vintage – **2022**
  - Click **Next** in the lower right

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

- **Select variable for Health Insurance Coverage Status**:
    - Type "HICOV" in the Variable search box or type "insurance" in the label search box
    - Check the box to the left of HICOV to add the variable to your data cart

- **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 data cart

- **Select geography**:
  - Move to the **Select Geographies** tab
  - Click **State** and click on **New Mexico**

- Categorize your variable:
  - Move to the **Data Cart** tab
  - Click the **INDP** variable on the left
  - We want data specifically for grocery stores and pharmacies/drug stores.
  - Uncheck the box next to Include in Universe

- **Categorize your variable**:
  - Click into the box for **Response Label** and enter 'grocery'
  - Check the box next to the response category of '**RET-Supermarkets and Other Grocery (Except Convenience) Stores**'

- **Categorize your variable**:
  - Delete 'grocery' from the **Response Label** box and enter 'pharmacies'
  - Check the box next to the response category of '**Pharmacies And Drug Stores**'

- View variable placement in the default table layout:
  - Move to the **Table Layout** tab
  - **Columns/Rows – Variables will be shown in the table.** By default, the table is providing the count of people with health insurance coverage status in the columns and the industries in the rows.

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

✎ **Custom Table**

Table Preview

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

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

Columns (1)
2 columns (maximum 400)

| HICOV | 2 of 2 responses |

Rows (2)
2 rows (maximum 2000)

| SELECTED GEOGRAPHIES | 1 of 1 responses |
| INDP | 2 of 271 responses |

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

Values in table cells:

Count ▾

Universe: **selected geographies: New Jersey; Industry recode for 2018 and later based on 2017 IND codes (INDP):** RET-Supermarkets and Other Grocery (Except Convenience) Stores, RET-Pharmacies And Drug Stores

🔘 Show Total

Industry recode for 2018 and later based on 2017 IND codes (INDP)	Health insurance coverage recode (HICOV)		
	Total	With health insurance coverage	No health insurance coverage
⌄ ??? (2)	0	0	0
⌄ New Jersey (2)	0	0	0
RET-Supermarkets and Other Gr...	???	???	???
RET-Pharmacies And Drug Stores	???	???	???

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

View Table

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

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

Download:

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

Demo

Example 3:

Race and Detailed Occupation in New Mexico PUMAs

Problem: We need detixdd occupations by race for PUMAs in New Mexico, but none of the published ACS tables have this cross of characteristics available for detailed occupations

Solution: Use Microdata Access (MDAT)

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

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

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

- **Select variable for Race**:
  - Type "RAC1P" in the Variable search box or type "race" in the label search box
  - Click **Details** to browse information about this variable
  - Check the box to the left of RAC1P to add the variable to your data cart

- **Select variable for Occupation**:
  - Type "OCCP" in the Variable search box or type "occupation" in the label search box
  - Check the box to the left of OCCP to add the variable to your data cart

- **Select geography**:
  - Click the **SELECT GEOGRAPHIES** tab
  - Click **Public Use Microdata Area (PUMA)** and click on **New Mexico**
  - Check the boxes for **Northwest New Mexico-Navajo Nation PUMA**

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

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

- Categorize your variable:
  - Click the **Data Cart** tab
  - Click the **OCCP** variable on the left
  - We want data specifically for teachers. To get started with selecting only the relevant options, uncheck the box next to Include in Universe

- Categorize your variable:
  - Click into the box for **Response Label** and enter 'teacher'
  - Check the box next to all six response categories for 'teacher'

Confirm Table Layout:

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

View Table

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

Latest Updates

- Address Search
- Cite and API Buttons
- Profiles and Apps Tab

- Improved Maps
- ACS Dataset Message at Top of Table and Map
- Pop Pyramids App
- GEOINFO table

United States® Census Bureau

Address Search

- **New address search provides a clickable list of Census Bureau geographies an address falls within**

Cite and API Buttons

The Cite Button provides MLA, APA, Chicago, Harvard, BibTeX, and RefMan citation styles that can be copied directly from data.census.gov

Cite and API Buttons

The API Button provides links to the table data and the dataset metadata in the API

New Profiles and Apps Tabs

- **Profiles**: Provides a list of Geography Profiles most relevant to your search
- **Apps**: Provides quick links to data.census.gov applications

Improved Maps: Redesign of Variable Section

- Variables now organized in a readable list

- <u>Dimensions</u> Allow you to map all columns of the corresponding table

- <u>Units</u> Default to percent when available

Improved Maps: New Selection Tools

Circle Selection Tool
Draw a circle to select geos
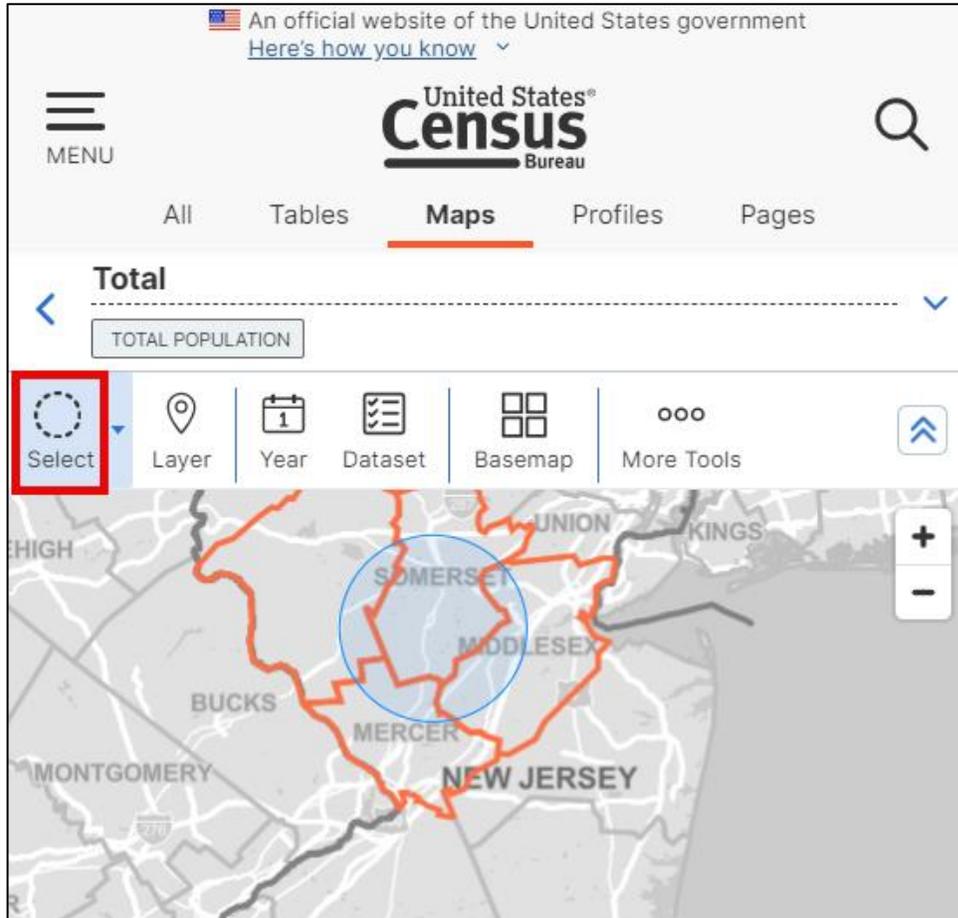
Lasso Selection Tool
Draw a custom shape to select geos
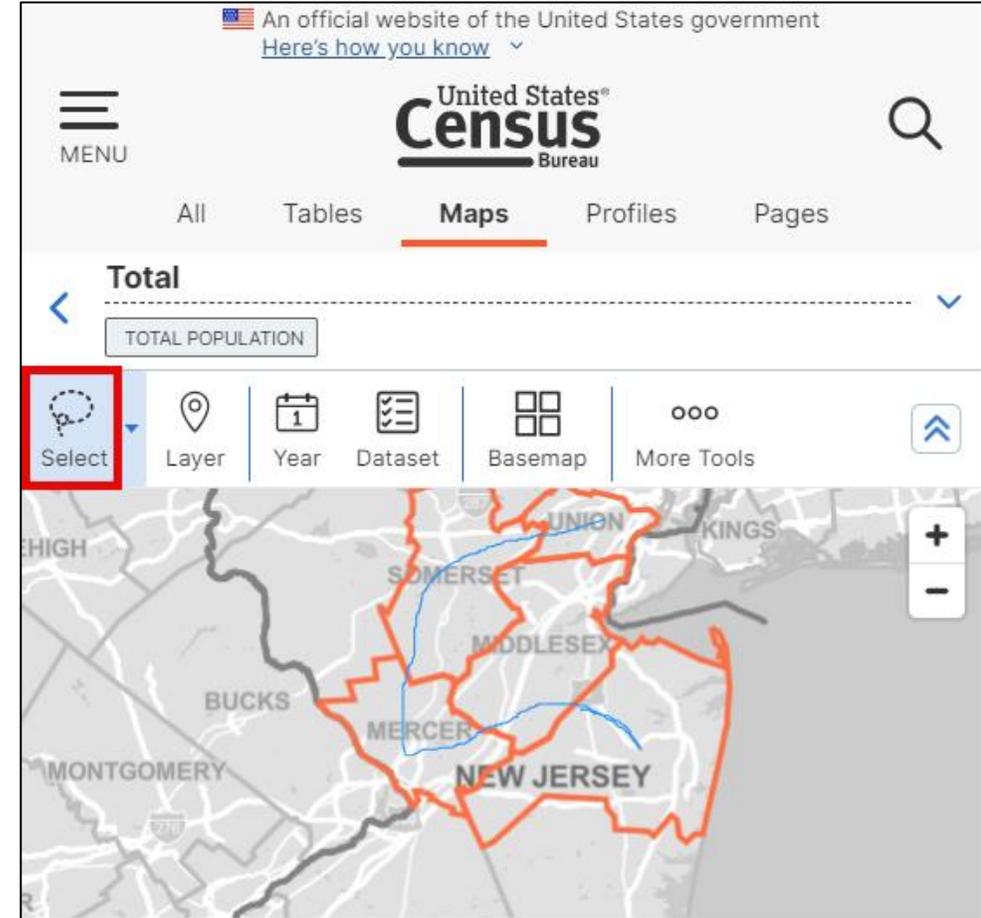
Improved Maps: New Print and GeoJSON Buttons

- **Print:** Provides PDF download of the map
- **GeoJSON:** Provides map boundaries in GeoJSON format
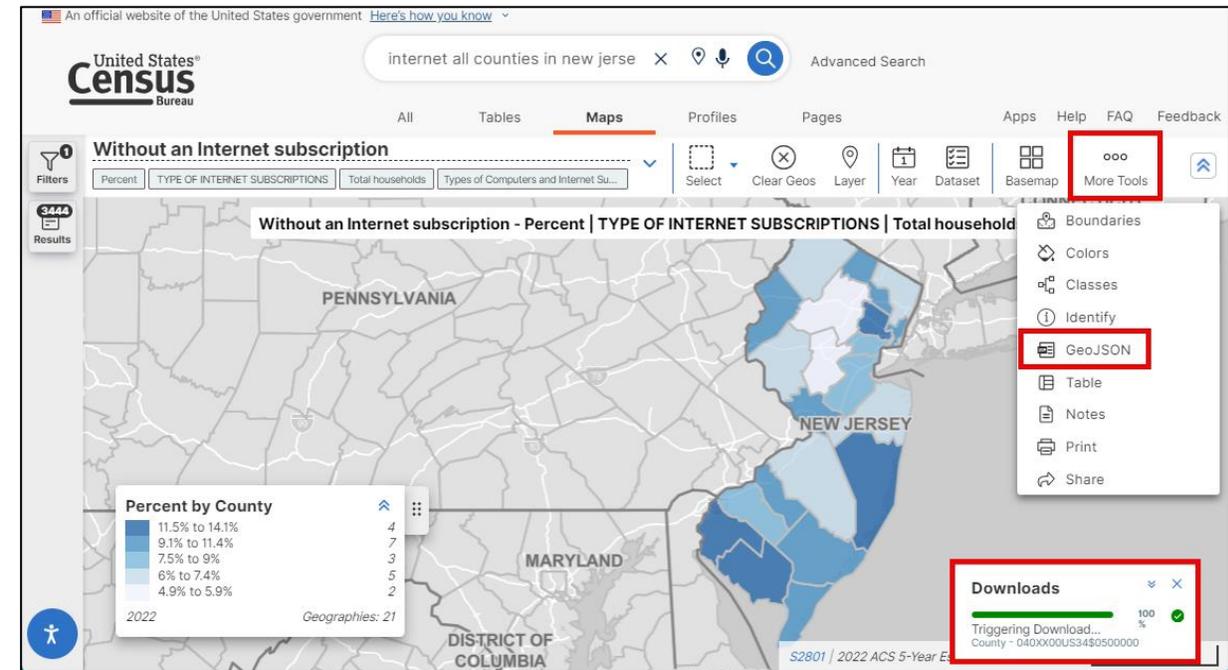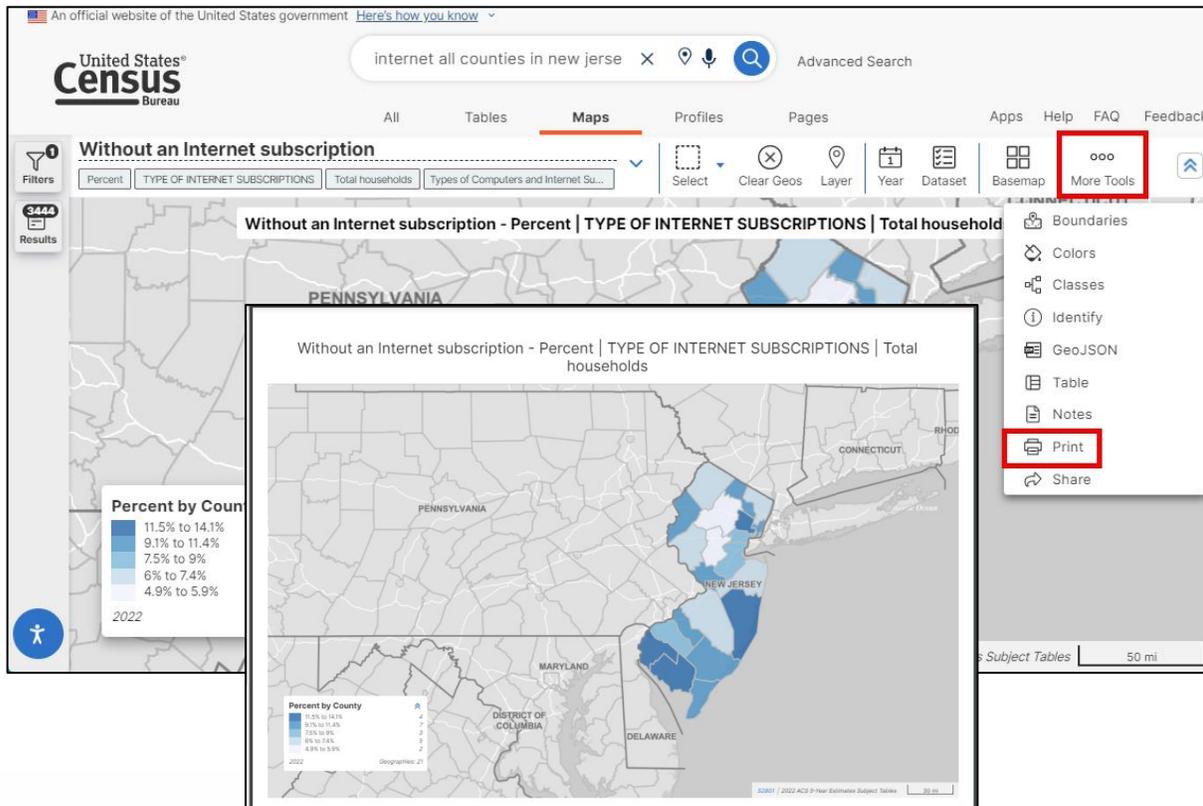
Improved Maps: Edit Map Title and Move/Collapse Map Legend

New controls to:

- Edit map title

- Move or collapse the map legend
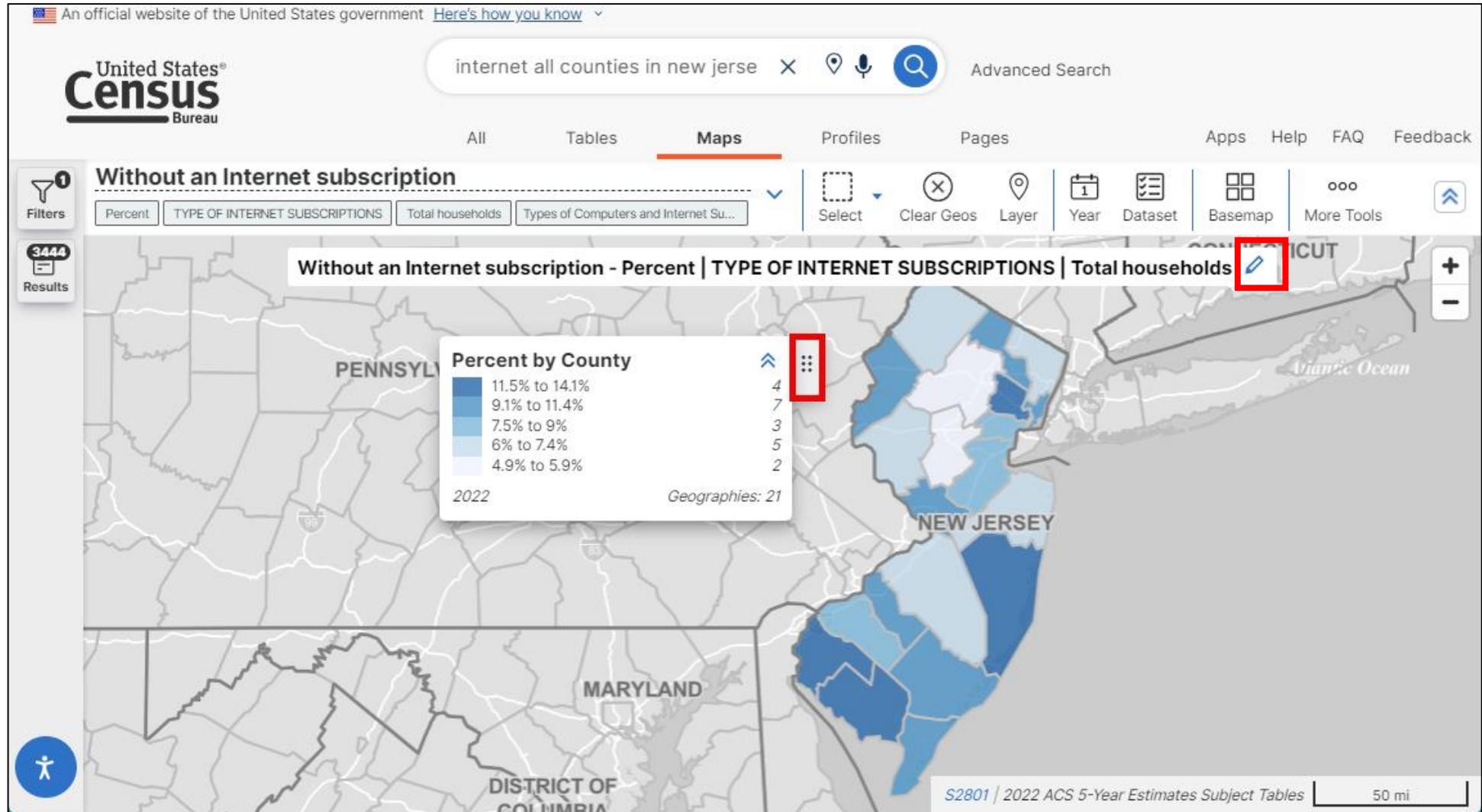
ACS Dataset Message on the Top of Table and Map

- View the top of the ACS table for new text that explains ACS 1-Year Estimates are only available for geographies with 65,000 people or more.

Population Pyramids App

- Uses population pyramids to tell data stories

- Interactive widget allows you to explore the population pyramid for your community

https://data.census.gov/app/population_pyramids

GEOINFO Table

Upcoming Enhancements

- Implement:
  - More User Feedback
  - Additional Visualizations
  - New Apps

- MDAT Design Updates

MDAT Design Updates

- MDAT design updates to provide consistent look and feel with the rest of data.census.gov

Take Our Customer Satisfaction Survey!
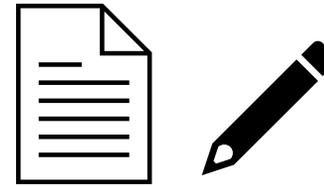
Help us build a better data.census.gov! Take our survey here: https://research.rm.census.gov/jfe/form/SV_eVZHRJ8XRWTzWQu

data.census.gov Email Updates

Sign up for email updates:
https://public.govdelivery.com/accounts/USCENSUS/signup/15450

data.census.gov Workshops

Our Development Depends on YOUR Feedback
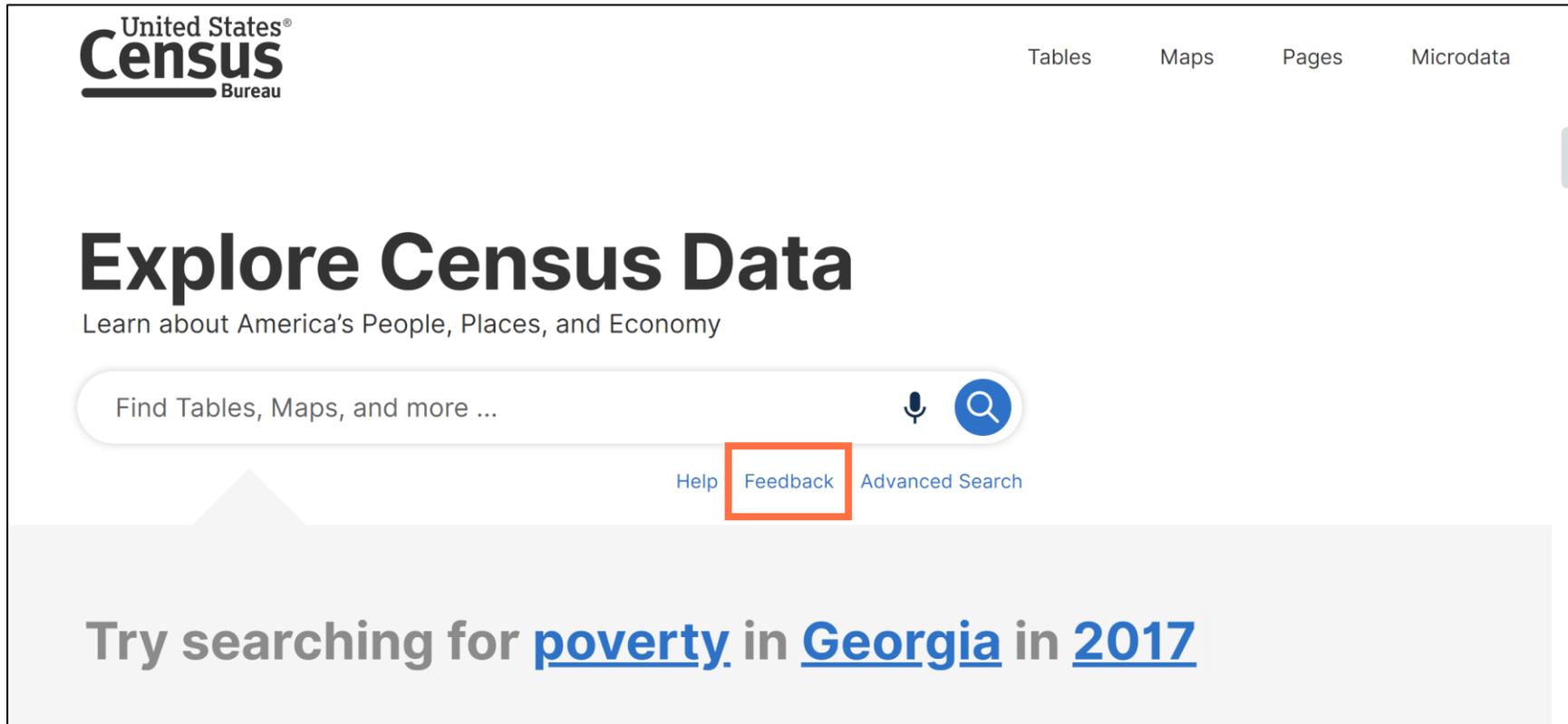
Check out data.census.gov and provide comments at census.data@census.gov

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data.census.gov Resources page:
census.gov/data/what-is-data-census-gov.html

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