

# How to Access Granular Data on MDAT

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# Microdata = PUMS Files

## Public Use Microdata

### Anonymized

- No personally identifiable information
- Edits to protect confidentiality

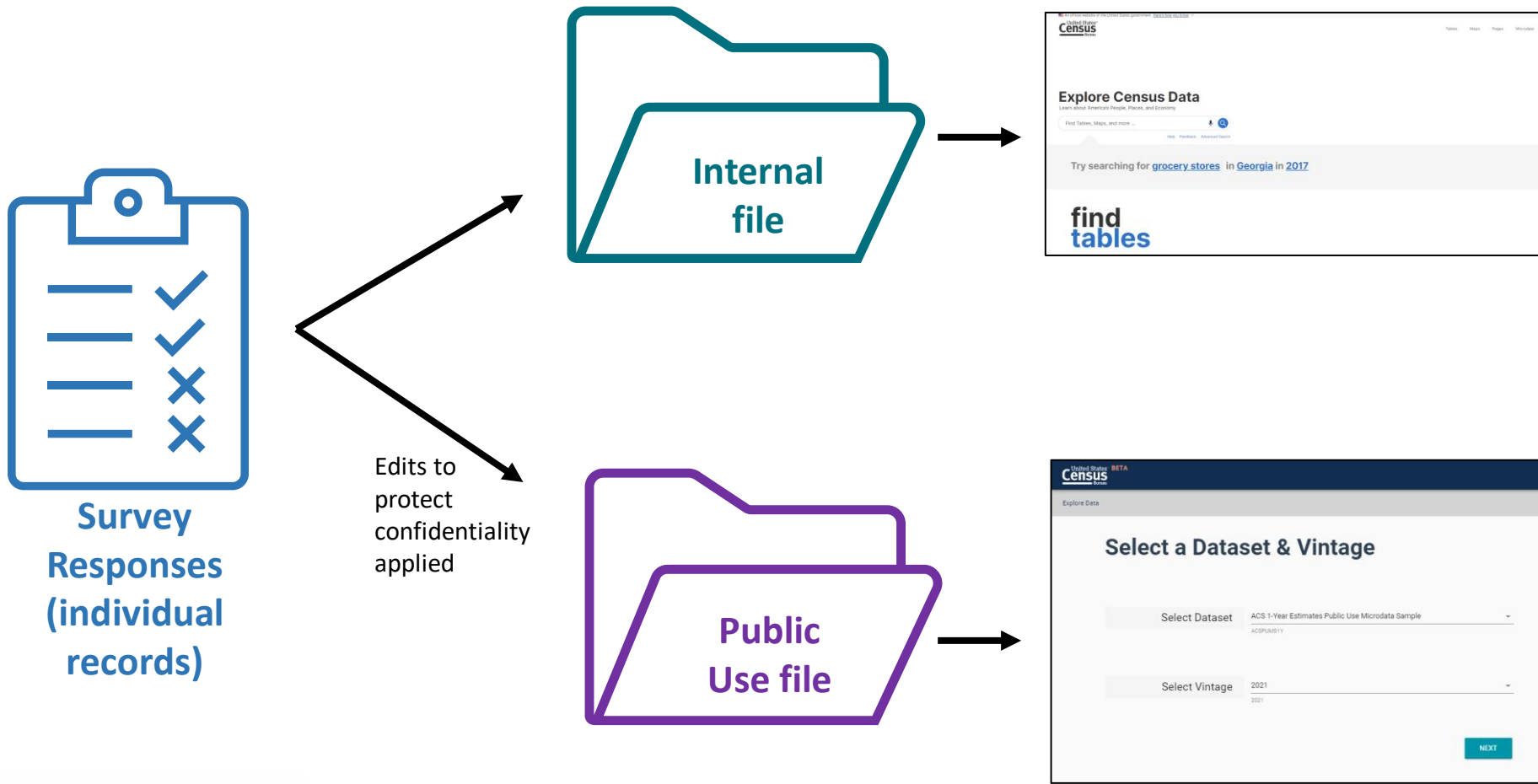
### Accessible

- [data.census.gov/mdat](https://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?



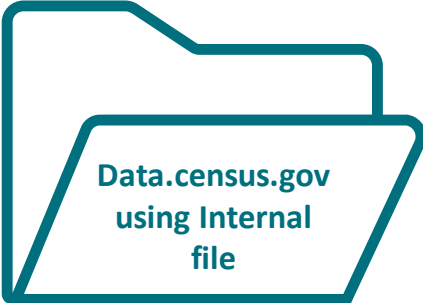
## data.census.gov

- 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

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



## Pros and Cons of Using Tables found in data.census.gov

<b>Pros:</b> <ul style="list-style-type: none"><li>• Provides more precise estimates</li><li>• Wider range of datasets</li><li>• Fewer limitations to available geographies</li><li>• No in-depth knowledge of variables required</li></ul>	<b>Cons:</b> <ul style="list-style-type: none"><li>• Limited to crosstabulations and tables that are predetermined by data providers</li><li>• Limited ability to customize tables</li></ul>
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## Pros and Cons of Creating Tables in Microdata Access

<b>Pros:</b> <ul style="list-style-type: none"><li>• Provides custom estimates when a pre-tabulated Census table is not available</li><li>• More historical data available</li><li>• Includes datasets not available in data.census.gov</li></ul>	<b>Cons:</b> <ul style="list-style-type: none"><li>• Limited geographies</li><li>• Provides less precise estimates</li><li>• Requires in-depth knowledge of variables</li><li>• No margins of error provided</li></ul>
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# What's the difference between tabulated data and microdata?



Maryland		
Label	Estimate	Margin of Error
▼ Total:	3,098,870	±17,785
▼ Male:	1,565,561	±11,667
▼ Management, business, science, and arts occupations:	682,858	±11,323
▼ Management, business, and financial occupations:	286,831	±7,906
Management occupations	195,401	±6,483
Business and financial operations occupations	91,430	±5,335
▼ Computer, engineering, and science occupations:	212,203	±6,790
Computer and mathematical occupations	121,160	±5,830
Architecture and engineering occupations	54,967	±3,693
Life, physical, and social science occupations	25,875	±1,777

[data.census.gov](https://data.census.gov)

Aggregated tables for a geography:

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



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

Microdata Access (MDAT)

Microdata (a set of edited survey responses):

“This male in Maryland is a web developer.”

# Data Dictionaries

## American Community Survey







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

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

<https://www.census.gov/data/datasets/2022/demo/cps/cps-asec-2022.html>

### Data Dictionaries for PUMS Files

Includes variables available for each release of PUMS files on the Census Bureau FTP site, and how each variable is coded.

-  2021 ACS 1-year PUMS Data Dictionary [PDF] [<1.0 MB]
-  2021 ACS 1-year PUMS Data Dictionary [TXT] [<1.0 MB]
-  2021 ACS 1-year PUMS Data Dictionary [CSV] [<1.0 MB]
-  2017-2021 ACS 5-year PUMS Data Dictionary [PDF] [<1.0 MB]
-  2017-2021 ACS 5-year PUMS Data Dictionary [TXT] [<1.0 MB]
-  2017-2021 ACS 5-year PUMS Data Dictionary [CSV] [<1.0 MB]



2021 ACS PUMS DATA DICTIONARY  
October 20, 2022

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
			2021G00000001..2021G09999999 .GQ Unique Identifier 2021HU00000001..2021HU99999999 .HU Unique Identifier
DIVISION	Character	1	Division code based on 2010 Census definitions
			0 .Puerto Rico 1 .New England (Northeast region) 2 .Middle Atlantic (Northeast region) 3 .East North Central (Midwest region) 4 .West North Central (Midwest region) 5 .South Atlantic (South region) 6 .East South Central (South region) 7 .West South Central (South Region) 8 .Mountain (West region) 9 .Pacific (West region)
PUMA	Character	5	Public use microdata area code (PUMA) based on 2010 Census definition (areas with population of 100,000 or more, use with ST for unique code)
			00100..70301 .Public use microdata area codes
REGION	Character	1	

### Data and Documents

 Data Dictionary [1.0 MB]

### ASEC 2022 Public Use Data Dictionary

Record Type: Household

Variable	Length	Position	Range	Variable	Length	Position	Range
<b>Topic: Record Identifiers</b>				<b>Topic: Geography</b>			
<b>SubTopic: Record Type</b>				<b>SubTopic: Geography</b>			
HRECORD	1	1	(1:1)	GEDIV	1	42	(0:9)
Record Type. Used to identify records on ascii file. Values: 1 = HOUSEHOLD RECORD Universe: All Households				Record - Census division of current residence Values: 1 = New England 2 = Middle Atlantic 3 = East North Central 4 = West North Central 5 = South Atlantic 6 = East South Central 7 = West South Central 8 = Mountain 9 = Pacific Universe: All Households			
<b>SubTopic: Match Keys</b>							
FILEDATE	6	2	(0)	GEREG	1	43	(1:4)
File creation date in MMDDYY format Values: Date Universe: All records				Region Values: 1 = Northeast 2 = Midwest 3 = South 4 = West Universe: All Households			
H_HHNUM	1	8	(1:8)	H_IDNUM	20	9	(NA)
Household number. Identifier for unique set of residents located at this sample address. If this group changes between months in sample, household number is incremented by 1. Values: 1-8 = Household number Universe: All Households				State FIPS code Values: 01-56 State code			
				GESTFIPS	2	44	(1:56)
				Household id number. Same as characters 1-20 of PERIDNUM. Universe: ID Number			

# Data Dictionaries

## American Community Survey

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

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

### HOUSING RECORD

#### HOUSING RECORD-BASIC VARIABLES

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

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

#### HOUSING RECORD-HOUSING UNIT VARIABLES

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

# 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 by 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**
- [Poverty Thresholds: 2022 \[<1.0 MB\]](#)
  - [Table A-1. People in Poverty by Selected Characteristics: 2021 and 2022 \[<1.0 MB\]](#)
  - [Table A-2. Families and People in Poverty by Type of Family: 2021 and 2022 \[<1.0 MB\]](#)
  - [Table A-3. Poverty Status of People by Age, Race, and Hispanic Origin: 1959 to 2022 \[<1.0 MB\]](#)
  - [HSTPOV2. Poverty Status of People by Family Relationship, Race, and Hispanic Origin: 1959 to 2022 \[<1.0 MB\]](#)
  - [HSTPOV4. Poverty Status of Families by Type of Family, Presence of Related Children, Race, and Hispanic Origin: 1959 to 2022 \[<1.0 MB\]](#)
  - [People With Income Below Specified Ratios of Their Poverty Thresholds by Selected Characteristics: 2022 \[<1.0 MB\]](#)
  - [Impact on Poverty of Alternative Resource Measures by Age: 1981 to 2022 \[<1.0 MB\]](#)
  - [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. [▶](#)

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**Poverty Status: POV-02**  
People in Primary Families by Family Structure, Age, and Sex. [▶](#)

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**Poverty Status: POV-03**  
People in Primary Families with Related Children Under 18 by Family Structure, Age, and Sex. [▶](#)

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**Poverty Status: POV-04**  
Primary Families by Age of Householder, Number of Children, and Family Structure. [▶](#)

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**Poverty Status: POV-05**  
Primary Families by Number of Working Family Members and Family Structure. [▶](#)

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**Poverty Status: POV-06**  
Primary Families with Related Children by Age of Children, Number of Working Family Members, and Family Structure. [▶](#)

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**Poverty Status: POV-07**

- Visit Microdata Access at [data.census.gov/mdat](https://data.census.gov/mdat)

The screenshot shows a web browser window with the address bar containing [data.census.gov/mdat/#/](https://data.census.gov/mdat/#/). The page header features the United States Census Bureau logo and the text "Explore Data". The main heading is "Select a Dataset & Vintage". Below this, there are two selection fields: "Select Dataset" with the value "ACS 1-Year Estimates Public Use Microdata Sample" and "Select Vintage" with the value "2021". 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](mailto:census.data@census.gov).

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

## Select a Dataset & Vintage

Select Dataset   
CPSASEC

Select Vintage   
202303

**NEXT**

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

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

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

Showing 702 of 1049 Variables Select at least one variable to start

	Variable	Label	Number of Values	Type	
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	(3) Edited Items, Recodes, Topcod	
<input type="checkbox"/>	A_AGE	Demographics, Age	1	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	A_SEX	Demographics, Sex	2	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	PEAFWHN3	Demographics - past military service period of active d...	10	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	PEAFWHN2	Demographics - past military service period of active d...	10	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	PEAFWHN1	Demographics - past military service period of active d...	10	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	PEAFEVER	Veteran status - ever served	3	Edited Items	<a href="#">▼ DETAILS</a>

Dataset: CPS Annual Social and Economic (March) Supplement (202303) [CHANGE](#) **VIEW TABLE**

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

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

Showing 1 of 1049 Variables Selected: 1 variable (5 columns, 1 row)

	Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/>	famlis FAMLIS	ratio ratio of fmly income level	5	(3) Edited Items, Recodes, Topcod Edited Items

**Description:**  
RATIO FAMILY INCOME TO POVERTY LEVEL. IF FTYPE = 3, THEN VALUE COMES FROM PRIMARY FAMILY.

**Values:**

- -1 -- NOT IN POVERTY UNIVERSE
- 1 -- BELOW POVERTY LEVEL
- 2 -- 100 - 124 PERCENT OF THE POVERTY LEVEL
- 3 -- 125 - 149 PERCENT OF THE POVERTY LEVEL
- 4 -- 150 AND ABOVE THE POVERTY LEVEL

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

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

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

Showing 1 of 1049 Variables Selected: 2 variables (15 columns, 1 row)

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/> PRDISFLG	disability Disability - recode, disabled	3	(3) Edited Items, Recodes, Topcod Recodes

**Description:**  
Does this person have any of these disability conditions?  
Universe = PEDISEAR OR PEDISEYE OR PEDISREM, PEDISPHY OR PEDISDRS OR PEDISOUT = 1

**Values:**

- -1 -- Not in Universe
- 1 -- Yes
- 2 -- No

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

- **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

The screenshot displays a web-based data analysis tool interface. At the top, a navigation bar contains several tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (highlighted with a red box), 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the navigation bar, the main content area is titled 'GEOGRAPHIES' and contains a list with the item 'State'. At the bottom of the interface, there is a footer section that includes the text 'Dataset: CPS Annual Social and Economic (March) Supplement (202303)' followed by a 'CHANGE' link, and a 'VIEW TABLE' button on the right side.

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

The screenshot shows a data analysis interface with the following elements:

- Navigation Tabs:** SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (2)** (highlighted with a red box), TABLE LAYOUT, DOWNLOAD.
- Selected Variables (2):**
  - PRDISFLG** (2 of 3 responses) - highlighted with a red box.
  - FAMLIS** (5 of 5 responses).
- Variable Details:** Disability - recode, disabled (PRDISFLG) DETAILS ^
- Table:** + CREATE CUSTOM GROUP

<input type="checkbox"/> Include in Universe	Response Label	Value
<input type="checkbox"/>	Not in Universe	-1
<input checked="" type="checkbox"/>	Yes	1
<input checked="" type="checkbox"/>	No	2

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

- **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)

The screenshot shows a data analysis interface with the following elements:

- Navigation:** SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (2)**, TABLE LAYOUT, DOWNLOAD
- Selected Variables (2):**
  - PRDISFLG (2 of 3 responses)
  - FAMLIS (5 of 5 responses)** (highlighted with a red box)
- ratio of fmly income level (FAMLIS) DETAILS ^**
  - + CREATE CUSTOM GROUP** (highlighted with a red box)
  - Table with columns: Include in Universe, Response Label, Value

<input checked="" type="checkbox"/>	Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>		NOT IN POVERTY UNIVERSE	-1
<input checked="" type="checkbox"/>		BELOW POVERTY LEVEL	1
<input checked="" type="checkbox"/>		100 - 124 PERCENT OF THE POVERTY LEVEL	2
<input checked="" type="checkbox"/>		125 - 149 PERCENT OF THE POVERTY LEVEL	3
<input checked="" type="checkbox"/>		150 AND ABOVE THE POVERTY LEVE	4

**Dataset:** CPS Annual Social and Economic (March) Supplement (202303) [CHANGE](#) [VIEW TABLE](#)

## ■ 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**

The screenshot shows the 'DATA CART (3)' interface with three variables: PRDISFLG (2 of 3 responses), FAMLIS (5 of 5 responses), and FAMLIS\_RC1 (1 of 1 responses). The 'In Poverty' group configuration is shown for FAMLIS\_RC1. The group label is 'In Poverty'. The response categories are:

<input type="checkbox"/>	Response Label	Value
<input type="checkbox"/>	NOT IN POVERTY UNIVERSE	-1
<input checked="" type="checkbox"/>	BELOW POVERTY LEVEL	1
<input type="checkbox"/>	100 - 124 PERCENT OF THE POVERTY LE...	2
<input type="checkbox"/>	125 - 149 PERCENT OF THE POVERTY LE...	3
<input type="checkbox"/>	150 AND ABOVE THE POVERTY LEVE	4

Buttons: CANCEL, SAVE GROUP

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

- **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

The screenshot displays the 'DATA CART (3)' interface. On the left, under 'Selected Variables (3)', three variables are listed: PRDISFLG (2 of 3 responses), FAMLIS (5 of 5 responses), and FAMLIS\_RC1 (2 of 2 responses). The main area shows the variable 'ratio of fmly income level recode' with two categories: 'Not Elsewhere Classified' (VALUES: -1, 2, 3, 4) and 'In Poverty' (VALUES: 1). The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red box. At the bottom, the dataset is identified as 'CPS Annual Social and Economic (March) Supplement (202303)' with a 'CHANGE' link and a 'VIEW TABLE' button.

## ■ 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**

The screenshot shows the 'DATA CART (3)' interface with three variables: PRDISFLG (2 of 3 responses), FAMLIS (5 of 5 responses), and FAMLIS\_RC1 (2 of 2 responses). The 'Not in Poverty' group configuration is shown for FAMLIS\_RC1. The group label is 'Not in Poverty'. The response categories are:

Response Label	Value
NOT IN POVERTY UNIVERSE	-1
100 - 124 PERCENT OF THE POVERTY LEVEL	2
125 - 149 PERCENT OF THE POVERTY LEVEL	3
150 AND ABOVE THE POVERTY LEVE	4

The 'Not in Poverty' group is highlighted in red. The 'SAVE GROUP' button is also highlighted in red. The 'Show on table' toggle is turned on. The dataset is 'CPS Annual Social and Economic (March) Supplement (202303)'.

- **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

The screenshot displays the 'DATA CART (3)' interface. On the left, under 'Selected Variables (3)', three variables are listed: PRDISFLG (2 of 3 responses), FAMLIS (5 of 5 responses), and FAMLIS\_RC1 (3 of 3 responses). The main area shows the 'ratio of fmly income level recode' with three categories: 'Not Elsewhere Classified' (VALUES: -1), 'In Poverty' (VALUES: 1), and 'Not in Poverty' (VALUES: 2, 3, 4). Each category has an 'EDIT GROUP' button. The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red box. At the bottom, the dataset is identified as 'CPS Annual Social and Economic (March) Supplement (202303)' with a 'CHANGE' link and a 'VIEW TABLE' button.

- **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**

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 in Universe**  Show on table

Group Label  
Not in Universe

15 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	NOT IN POVERTY UNIVERSE	-1

**CANCEL**   **SAVE GROUP**

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

- 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.

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

### Custom Table

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

Columns (2)  
10 columns (maximum 400)

PRDISFLG	2 of 3 responses
FAMLIS	5 of 5 responses

Rows (0)  
rows (maximum 2000)

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

FAMLIS\_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: Universe: Disability - recode, disabled (PRDISFLG): all except: Not in Universe

Count

Show Total

Disability - recode, disabled (PRDISFLG)											
	Yes					No					
	ratio of fmly income level (FAMLIS)					ratio of fmly income level (FAMLIS)					
Total	Total ratio of fmly income level (FAMLIS)	NOT IN POVERTY UNIVERSE	BELOW POVERTY LEVEL	100 - 124 PERCENT OF THE POVERTY	125 - 149 PERCENT OF THE POVERTY	150 AND ABOVE THE POVERTY LEVEL	Total ratio of fmly income level (FAMLIS)	NOT IN POVERTY UNIVERSE	BELOW POVERTY LEVEL	100 - 124 PERCENT OF THE POVERTY	125 - 149 PERCENT OF THE POVERTY
???	???	???	???	???	???	???	???	???	???	???	???

Dataset: CPS Annual Social and Economic (March) Supplement (202303)    [CHANGE](#)

**VIEW TABLE**

- 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.

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

### Custom Table

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

Columns (2)  
10 columns (maximum 400)

**PRDISFLG**    2 of 3 responses

FAMLIS    5 of 5 responses

Rows (0)  
rows (maximum 2000)

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

FAMLIS\_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:    Universe: **Disability - recode, disabled (PRDISFLG): all except: Not in Universe**

Count

Show Total

Disability - recode, disabled (PRDISFLG)											
	Yes					No					
	ratio of fmly income level (FAMLIS)					ratio of fmly income level (FAMLIS)					
Total	Total ratio of fmly income level (FAMLIS)	NOT IN POVERTY UNIVERSE	BELOW POVERTY LEVEL	100 - 124 PERCENT OF THE POVERTY	125 - 149 PERCENT OF THE POVERTY	150 AND ABOVE THE POVERTY LEVEL	Total ratio of fmly income level (FAMLIS)	NOT IN POVERTY UNIVERSE	BELOW POVERTY LEVEL	100 - 124 PERCENT OF THE POVERTY	125 - 149 PERCENT OF THE POVERTY
	???	???	???	???	???	???	???	???	???	???	???

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

- 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.

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

### Custom Table

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

Columns (1)  
5 columns (maximum 400)

**FAMLIS**   5 of 5 responses

Rows (1)  
2 rows (maximum 2000)

PRDISFLG   2 of 3 responses

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

**FAMLIS\_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:   **Count**

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

Show Total

	ratio of fmly income level (FAMLIS)				
Disability - recode, disabled	Total	NOT IN POVERTY UNIVERSE	BELOW POVERTY LEVEL	100 - 124 PERCENT OF THE POVERTY LEVEL	125 - 149 PERCENT OF THE POVERTY LEVEL
▼ ??? (2)	0	0	0	0	0
Yes	???	???	???	???	???
No	???	???	???	???	???

Dataset: CPS Annual Social and Economic (March) Supplement (202303)   [CHANGE](#)   [VIEW 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.

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

### Custom Table

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

Columns (0)  
columns (maximum 400)

Rows (1)  
2 rows (maximum 2000)

PRDISFLG 2 of 3 responses

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

FAMLIS 5 of 5 responses

FAMLIS\_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: Count

Universe: Disability - recode, disabled (PRDISFLG): all except: Not in Universe

Show Total

Disability - recode, disabled		
▼ ??? (2)		0
Yes		???
No		???

Dataset: CPS Annual Social and Economic (March) Supplement (202303) [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

### Custom Table

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

Columns (1)  
3 columns (maximum 400)

FAMLIS\_RC1   3 of 3 responses

Rows (1)  
2 rows (maximum 2000)

PRDISFLG   2 of 3 responses

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

FAMLIS   5 of 5 responses

### Table Preview

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

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

Count

Show Total

	ratio of fmly income level recode (FAMLIS_RC1)			
Disability - recode, disabled	Total	In Poverty	Not in Poverty	Not in Universe
▼ ??? (2)	0	0	0	0
Yes	???	???	???	???
No	???	???	???	???

Dataset: CPS Annual Social and Economic (March) Supplement (202303)   [CHANGE](#)

**VIEW TABLE**

# View Table

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

**Custom Table** 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:** FAMLI\_RC1

**On Rows:** PRDISFLG

**Not on Table:** FAMLI

**"Values in table cells" Options:**

**Values in table cells:** Count

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

Show Total

	ratio of fmlly income level recode (FAMLI_RC1)			
Disability - recode, disabled	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

[Send Feedback](#)  
census.data@census.gov

# 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

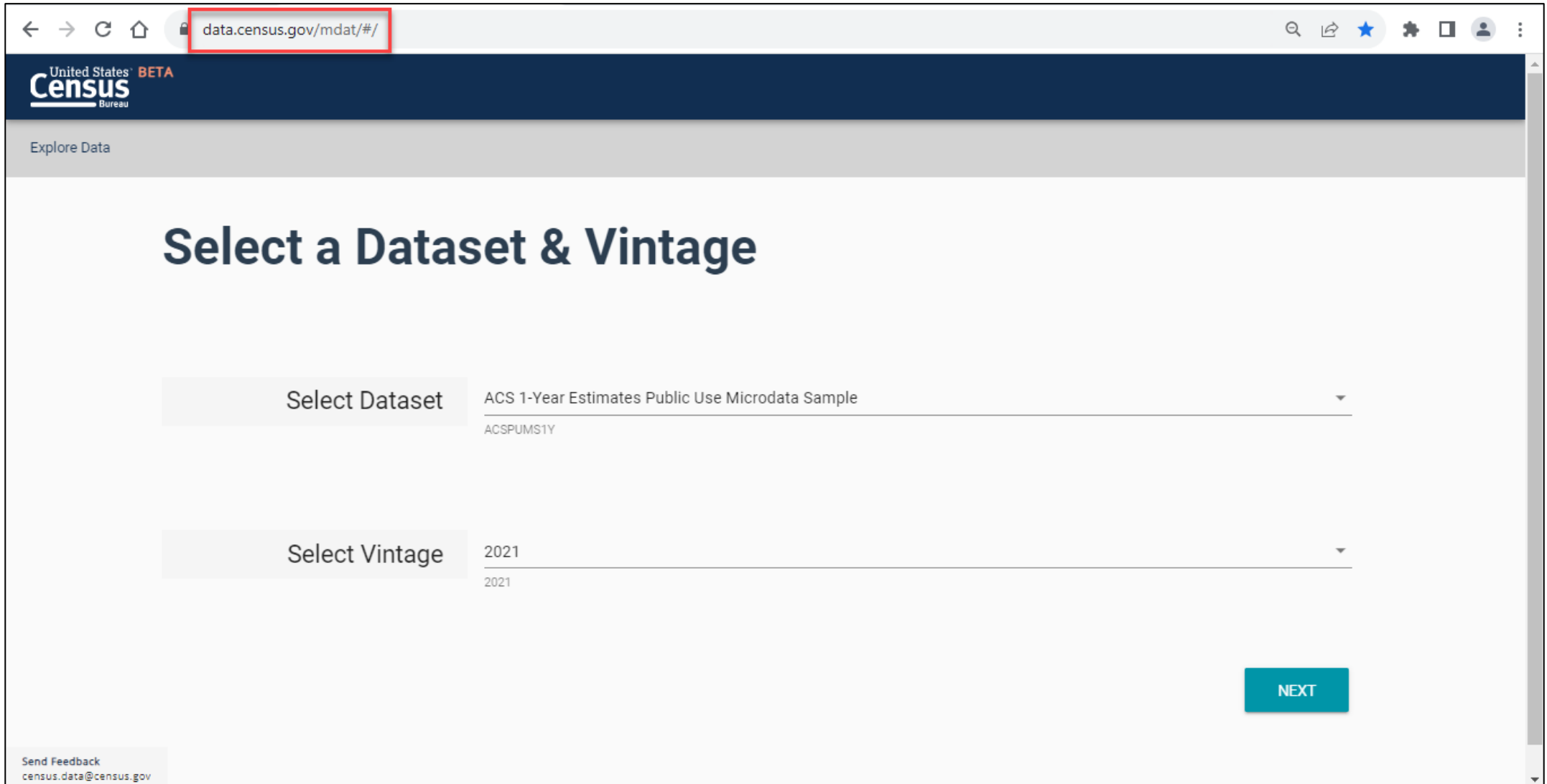
**Solution:** Use Microdata Access (MDAT)

The screenshot shows a web interface for the American Community Survey (ACS) data tool. On the left, there is a sidebar with '2 Filters' applied: 'Health Insurance' and 'Industry'. Below the filters is a search bar and a 'Geography' section with options for Nation, State, County, County Subdivision, and Place. The main area is titled 'Tables' and displays a list of ACS tables. The first three tables are:

- American Community Survey **CP03** | Comparative Economic Characteristics  
+ View All 19 Products
- American Community Survey **DP03** | Selected Economic Characteristics  
+ View All 29 Products
- American Community Survey **S0201** | Selected Population Profile in the United States  
+ View All 12 Products

At the top right of the main area, it says '18 Tables, 18 Maps, 32 Profiles' and 'View: 10 | 25 | 50'.

- Visit Microdata Access at [data.census.gov/mdat](https://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

## Select a Dataset & Vintage

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

Select Vintage 2022  
2022

NEXT

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

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

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

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

	Variable	Label	Number of Values	Type	
<input type="checkbox"/>	AGEP	Age	2	Estimate	▼ DETAILS
<input type="checkbox"/>	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
<input type="checkbox"/>	JWAP	Time of arrival at work - hour and minute	286	Edited Items	▼ DETAILS
<input type="checkbox"/>	JWDP	Time of departure for work - hour and minute	151	Estimate	▼ DETAILS
<input type="checkbox"/>	JWMNP	Travel time to work	2	Estimate	▼ DETAILS
<input type="checkbox"/>	JWRIP	Vehicle occupancy	11	Estimate	▼ DETAILS
<input type="checkbox"/>	MV	When moved into this house or apartment	8	Estimate	▼ DETAILS

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

- 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

filter by Topic

SEARCH

Showing 1 of 522 Variables

Selected: 1 variable (2 columns, 1 row)

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

[^ DETAILS](#)

**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 (2021) [CHANGE](#)

[VIEW TABLE](#)

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

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

Showing 1 of 522 Variables   Selected: 2 variables (2 columns, 271 rows)

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/> indp	industry	271	(3) Edited Items, Estimate, Record
INDP	Industry recode for 2018 and later based on 2017 IND ...	271	Records

**Description:**

**Values:**

- 0170 -- AGR-Crop Production
- 0180 -- AGR-Animal Production And Aquaculture
- 0190 -- AGR-Forestry Except Logging
- 0270 -- AGR-Logging
- 0280 -- AGR-Fishing, Hunting And Trapping

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

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

The screenshot shows a web interface for selecting geographies. At the top, there are navigation tabs: "SELECT VARIABLES", "SELECT GEOGRAPHIES" (highlighted with a red box), "DATA CART (2)", "TABLE LAYOUT", and "DOWNLOAD". Below the tabs, there are two columns: "GEOGRAPHIES" and "STATE".

In the "GEOGRAPHIES" column, the following options are listed: "Region", "Division", "State" (highlighted with a red box), and "Public Use Microdata Area (PUMA)".

In the "STATE" column, a list of states is shown with checkboxes. "New Mexico" is checked (checkbox contains a blue checkmark) and is highlighted with a red box. Other states listed include Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, and Pennsylvania.

Below the "STATE" list, there is a search bar containing "New Mexico" with a close button (X).

At the bottom of the interface, the dataset is identified as "ACS 1-Year Estimates Public Use Microdata Sample (2022)" with a "CHANGE" link. A "VIEW TABLE" button is located in the bottom right corner.

- **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

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

**Selected Variables (2)**

**HICOV**  
2 of 2 responses

**INDP**  
0 of 271 responses

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

+ CREATE CUSTOM GROUP

Include in Universe

	Response Label	Value
<input type="checkbox"/>	AGR-Crop Production	0170
<input type="checkbox"/>	AGR-Animal Production And Aquaculture	0180
<input type="checkbox"/>	AGR-Forestry Except Logging	0190
<input type="checkbox"/>	AGR-Logging	0270
<input type="checkbox"/>	AGR-Fishing, Hunting And Trapping	0280
<input type="checkbox"/>	AGR-Support Activities For Agriculture A...	0290
<input type="checkbox"/>	FXT-Oil And Gas Extraction	0370

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

VIEW TABLE

- **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**'

The screenshot shows the 'DATA CART (2)' interface with the following elements:

- Navigation:** SELECT VARIABLES, SELECT GEOGRAPHIES, DATA CART (2), TABLE LAYOUT, DOWNLOAD.
- Selected Variables (2):**
  - HICOV:** 2 of 2 responses
  - INDP:** 1 of 271 responses
- Industry recode for 2018 and later based on 2017 IND codes (INDP):**
  - + CREATE CUSTOM GROUP**
  - Include in Universe:**
  - Response Label:** grocery
  - Value:** [Empty field]
  - Table:**

Include in Universe	Response Label	Value
<input type="checkbox"/>	WHL-Grocery And Related Product Merc...	4470
<input checked="" type="checkbox"/>	RET-Supermarkets and Other Grocery (Ex...	4971
- Dataset:** ACS 1-Year Estimates Public Use Microdata Sample (2021) **CHANGE**
- VIEW TABLE**

- **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**'

The screenshot shows the 'DATA CART (2)' interface. On the left, under 'Selected Variables (2)', the 'INDP' variable is selected, with '2 of 271 responses'. On the right, the 'Industry recode for 2018 and later based on 2017 IND codes (INDP)' section is active. A table below '+ CREATE CUSTOM GROUP' shows the following data:

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input type="checkbox"/>	pharmacies	
<input checked="" type="checkbox"/>	RET-Pharmacies And Drug Stores	5070

At the bottom of the interface, the dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2021)' with a 'CHANGE' link. A 'VIEW TABLE' button is located in the bottom right corner.

- 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**

"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)

**Table Preview**

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

Values in table cells:  
Count

Universe: selected geographies: 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
???	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

The screenshot displays the 'Table Layout' configuration interface. On the left, the 'Custom Table' section includes options for 'Values in table cells' (Options), 'Columns' (1 column, 2 columns maximum), 'Rows' (2 rows, 2000 maximum), 'SELECTED GEOGRAPHIES' (1 of 1 responses), and 'INDP' (2 of 271 responses). The 'Table Preview' section shows the variable 'Count' selected, with a 'Show Total' toggle. The table below displays data for 'Health insurance coverage recode (HICOV)' across different industry codes and geographies. A red box highlights the table content, and another red box highlights the 'VIEW TABLE' button at the bottom right.

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
???	0	0	0
New Jersey (2)	0	0	0
RET-Supermarkets and Other Gr...	???	???	???
RET-Pharmacies And Drug Stores	???	???	???

# View Table

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

The screenshot shows the 'Custom Table' configuration interface. At the top, there are options for 'CUSTOMIZE VARIABLES', 'DOWNLOAD / SHARE', and 'DETAILS'. The 'Dataset' is 'ACS 1-Year Estimates Public Use Microdata Sample' with a 'CHANGE DATASET' link. The 'Vintage' is set to '2022'. The 'Geography' is '1 geographies selected' with a 'CHANGE GEOGRAPHY' link. The 'Weighting' is set to 'PUMS person weight'. Below these are sections for 'On Columns' (with 'HICOV' selected), 'On Rows' (with 'Selected Geographies' and 'INDP' selected), and 'Not on Table'. The 'Values in table cells' section has 'Count' selected. A 'Show Total' toggle is visible. The table below shows data for 'Health insurance coverage recode (HICOV)' across different industry recodes.

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
▼ Total (2)	8,183	7,608	575
▼ Total New Mexico (2)	8,183	7,608	575
WHL-Grocery And Rel...	3,438	3,311	127
RET-Pharmacies And ...	4,745	4,297	448

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

**Custom Table** CUSTOMIZE VARIABLES **DOWNLOAD / SHARE** DETAILS ▾

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

**Vintage:** 2022 **Weighting:** PUMS person weight

**On Columns** + **On Rows** +

**HICOV** **Selected Geographies** **INDP**

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

**Values in table cells:** Count Universe: selected geographies: New Mexico; Industry recode for 2018 and later based on 2017 IND codes (INDP): WHL-Grocery And Related Product Merchant Wholesalers, 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
▼ Total (2)	8,183	7,608	575
▼ Total New Mexico (2)	8,183	7,608	575
WHL-Grocery And Rel...	3,438	3,311	127
RET-Pharmacies And ...	4,745	4,297	448

- 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:

\* PUMS person weight

Housing Unit Weight

\* weight associated with at least one variable in download

**DOWNLOAD**

Bookmark for your current selections; save to return later or send to someone else  
<https://data.census.gov/mdat/#/search?ds=ACSPUMS1Y>

Query to extract PUMS records for your current selections from the Census Data API  
<https://api.census.gov/data/2022/acs/acs1/pums?get=P>

	A	B	C	D	E	F
1	Source: ACS 1-Year Estimates Public Use Microdata Sample 2022					
2	Weight used: PWGTP					
3	Universe: selected geographies: New Mexico; Industry recode for 2018 and later based on 2017 IND codes (INDP): WHL-Grocery And Related Product Merchant Wholesalers, RET-Pharmacies And Drug Stores					
4		Health insurance coverage recode (HICOV)				
5	Industry recode for 2018 and later based on 2017 IND codes (INDP)	Total	With health insurance coverage	No health insurance coverage		
6	-> Total	8183	7608	575		
7	-> Total -> Total New Mexico	8183	7608	575		
8	WHL-Grocery And Related Product Merchant Wholesalers	3438	3311	127		
9	RET-Pharmacies And Drug Stores	4745	4297	448		
10						
11						

Query to extract tabular (aggregated) for your current selections from the Census Data API  
[https://api.census.gov/data/2022/acs/acs1/pums?tabulate=weight\(PWGTP\)&col+HICOV&row+ucgid&row+INDP&ucgid=0400000US35&INDP=4470&INDP=5070](https://api.census.gov/data/2022/acs/acs1/pums?tabulate=weight(PWGTP)&col+HICOV&row+ucgid&row+INDP&ucgid=0400000US35&INDP=4470&INDP=5070)

**COPY API TABULATE QUERY**

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2022)   **CHANGE**

**VIEW TABLE**

# Demo

Example 3:

Place of birth by single year of age in New Mexico

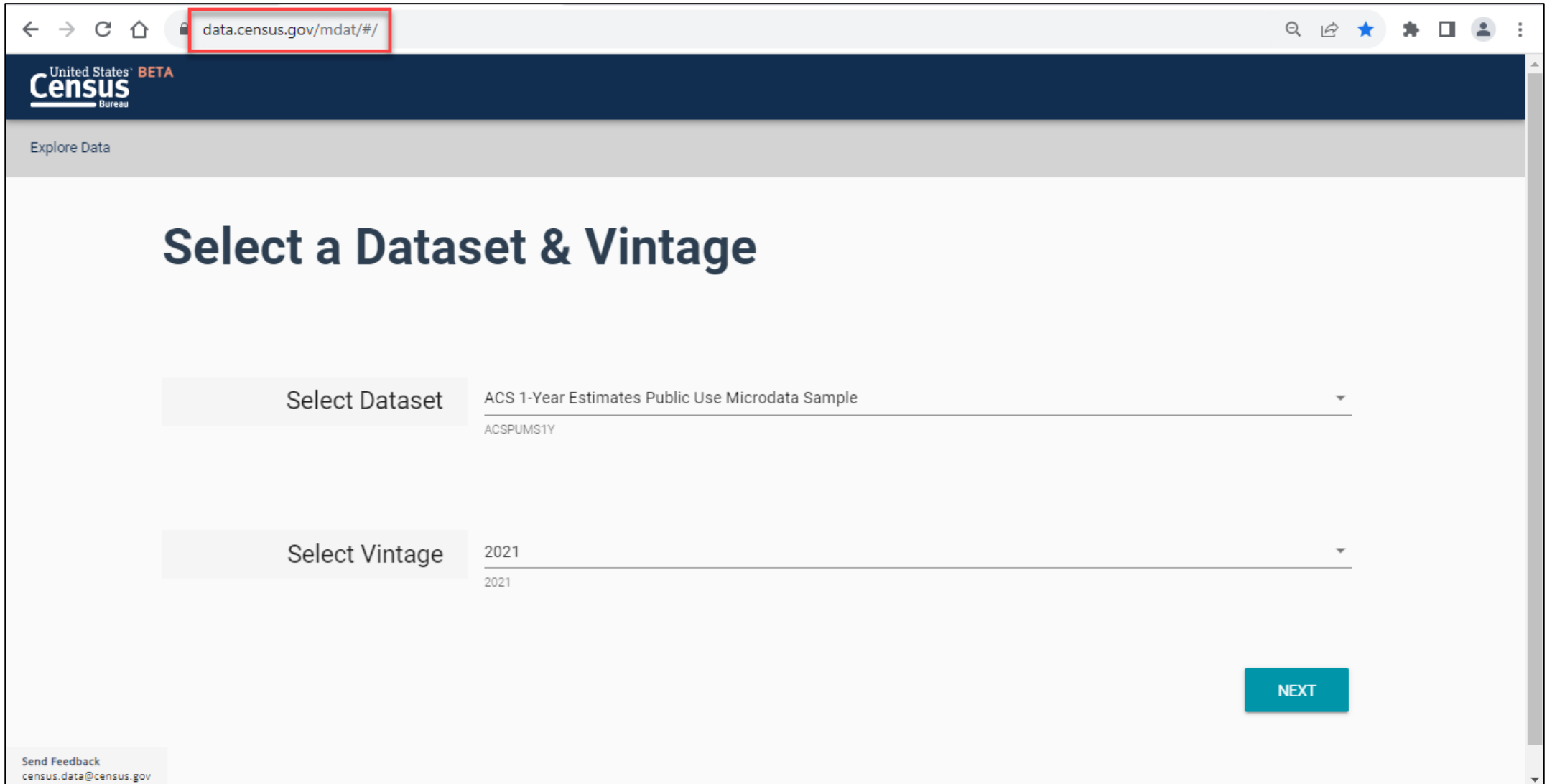
**Problem:** We need **detailed place of birth for single years of age for New Mexico**, but none of the published ACS tables have this cross of characteristics available for detailed places of birth and single years of age

**Solution:** Use Microdata Access (MDAT)

The screenshot shows the ACS data browser interface. On the left, there are two filters: 'Place of Birth' and 'Age and Sex'. Below the filters is a search bar and a 'Geography' section with various location levels. The main area displays 16 search results, with 'B06001 | Place of Birth by Age in the United States' selected. On the right, a data table is displayed with columns for 'Label', 'Estimate', and 'Margin of Error'.

United States		
Label	Estimate	Margin of Error
62 to 64 years	217,892	±7,333
65 to 74 years	517,159	±13,293
75 years and over	315,181	±8,953
Foreign born:	46,182,177	±149,842
Under 5 years	283,692	±11,704
5 to 17 years	2,338,543	±34,783
18 to 24 years	2,777,004	±41,659
25 to 34 years	6,750,059	±49,233
35 to 44 years	9,369,619	±54,228
45 to 54 years	9,134,480	±44,418
55 to 59 years	3,946,397	±35,828
60 and 61 years	1,414,910	±20,230
62 to 64 years	1,982,182	±23,598
65 to 74 years	4,787,400	±31,216
75 years and over	3,397,891	±25,466

- Visit Microdata Access at [data.census.gov/mdat](https://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

## Select a Dataset & Vintage

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

Select Vintage 2021  
2021

**NEXT**

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

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

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

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, Recod	
<input type="checkbox"/>	COW	Class of worker	10	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	GCL	Grandparents living with grandchildren	3	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	VACS	Vacancy status	8	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	ANC	Ancestry recode	5	Recodes	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	ESR	Employment status recode	7	Recodes	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	NWAB	Temporary absence from work (UNEDITED-See 'Employ...	4	Recodes	<a href="#">▼ DETAILS</a>

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021) [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 (1)   TABLE LAYOUT   DOWNLOAD

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

Showing 2 of 519 Variables   Selected: 1 variable (1 column, 1 row)

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

**Description:**  
Age

**Values:**

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

[^ DETAILS](#)

- Select variable for the Place of Birth:
  - Type “POBP” in the Variable search box or type “birth” in the label search box
  - Check the box to the left of POBP to add the variable to data cart

The screenshot shows the 'SELECT VARIABLES' interface. At the top, there are navigation tabs: 'SELECT VARIABLES' (active), 'SELECT GEOGRAPHIES', 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs is a search bar with the placeholder 'filter by Topic' and a search button labeled 'SEARCH'. A message states 'Search is not enabled in this beta version'. Below the search bar, it says 'Showing 1 of 519 Variables' and 'Selected: 2 variables (1 column, 225 rows)'. The main table has columns for 'Variable', 'Label', 'Number of Values', and 'Type'. The first row is highlighted with a red box around the 'POBP' variable, which has a checked checkbox to its left. The label 'Place of birth (Recode)' is also highlighted with a red box. A red arrow points from a 'DETAILS' button to the 'Values' section of the variable's description.

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/> POBP	Place of birth (Recode)	225	Recodes

**Description:**

**Values:**

- 001 -- Alabama/AL
- 002 -- Alaska/AK
- 004 -- Arizona/AZ
- 005 -- Arkansas/AR
- 006 -- California/CA

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

The screenshot shows a web interface for selecting geographies. At the top, there are navigation tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (highlighted with a red box), 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs, there are two columns. The left column, titled 'GEOGRAPHIES', has a red box around the 'State' option. The right column, titled 'STATE', lists various states with checkboxes. The 'New Mexico' checkbox is checked and highlighted with a red box. At the bottom of the interface, it displays 'Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021)' with a 'CHANGE' link, and a 'VIEW TABLE' button on the right.

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

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

Selected Variables (2)

- AGEP**  
2 of 2 responses
- POBP**  
225 of 225 responses

**Age (AGEP)**   DETAILS ^

**+ CREATE CUSTOM GROUP**

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	1 to 99 years (Top-coded)	1 ————— 99
<input checked="" type="checkbox"/>	Under 1 year	0

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

- **Categorize (recode) your variable:**
  - Check the box next to Add to Group to add both categories to the recode
  - Click on **Auto Group**

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

**Selected Variables (3)**

- AGEP**  
2 of 2 responses
- POBP**  
225 of 225 responses
- AGEP\_RC1**  
1 of 1 responses

**Age recode** **AUTO GROUP**

**Not Elsewhere Classified**  Show on table

Group Label  
Not Elsewhere Classified

24 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	1 to 99 years (Top-coded)	1
<input checked="" type="checkbox"/>	Under 1 year	0

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

- **Categorize (recode) your variable:**
  - Confirm that the Start value is '1', the End value is '99', and the Groups of value is '1'
  - Click **Auto Group**. This will automatically create each year of age as its own group.

Auto Group Variable

Start: 1

End: 99

Groups of: 1

CANCEL AUTO GROUP

TABLE LAYOUT DOWNLOAD

**Age recode**

Not Elsewhere Classified	VALUES: 0	EDIT GROUP
1	VALUES: 1	EDIT GROUP
2	VALUES: 2	EDIT GROUP
3	VALUES: 3	EDIT GROUP

CHANGE VIEW TABLE

## ■ Categorize your variable:

- Click the **POBP** variable on the left
- We want data specifically for people who were born in New Mexico, Mexico, and Texas
- Uncheck the box next to Include in Universe

The screenshot shows the 'DATA CART (3)' interface with the following elements:

- Selected Variables (3):**
  - AGEP**: 2 of 2 responses
  - POBP**: 0 of 225 responses (highlighted with a red box)
  - AGEP\_RC1**: 100 of 100 responses
- Place of birth (Recode) (POBP) DETAILS**
  - + CREATE CUSTOM GROUP**
  - Include in Universe** (highlighted with a red box)
  - Response Label: [ ] Value: [ ]
  - Table of response labels and values:

	Response Label	Value
<input type="checkbox"/>	Alabama/AL	001
<input type="checkbox"/>	Alaska/AK	002
<input type="checkbox"/>	Arizona/AZ	004
<input type="checkbox"/>	Arkansas/AR	005
<input type="checkbox"/>	California/CA	006
<input type="checkbox"/>	Colorado/CO	008
<input type="checkbox"/>	Connecticut/CT	009

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

- **Categorize your variable:**
  - Click into the box for **Response Label** and enter 'Mexico'
  - Check the boxes next to the response categories of Mexico and New Mexico

The screenshot shows the 'DATA CART (3)' interface. On the left, under 'Selected Variables (3)', the variable 'POBP' is highlighted with an orange bar. On the right, the 'Place of birth (Recode) (POBP)' details are shown. A '+ CREATE CUSTOM GROUP' section is active, displaying a table with columns for 'Include in Universe', 'Response Label', and 'Value'. The 'Response Label' input field contains 'mexico'. The table lists 'New Mexico/NM' (value 035) and 'Mexico' (value 303), both with checked boxes in the 'Include in Universe' column.

Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	mexico	
<input checked="" type="checkbox"/>	New Mexico/NM	035
<input checked="" type="checkbox"/>	Mexico	303

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

- **Categorize your variable:**
  - Delete 'Mexico' from the **Response Label** box and enter 'Texas'
  - Check the box next to the response category of 'Texas'

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

**Selected Variables (3)**

- AGEP**  
2 of 2 responses
- POBP**  
3 of 225 responses
- AGEP\_RC1**  
100 of 100 responses

**Place of birth (Recode) (POBP)**   DETAILS ^

+ CREATE CUSTOM GROUP

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	texas	
<input checked="" type="checkbox"/>	Texas/TX	048

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

- View variable placement in the default table layout:
  - Move to the **Table Layout** tab
  - Columns/Rows – Variables will be shown in the table.** By default, the table is providing the average age with place of birth in the rows.

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

**Custom Table**

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

**AGEP** 2 of 2 responses

Columns (0)  
columns (maximum 400)

Rows (2)  
3 rows (maximum 2000)

**POBP** 3 of 225 responses

**SELECTED GEOGRAPHIES** 1 of 1 responses

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

**AGEP\_RC1** 100 of 100 responses

**Table Preview**

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

**Values in table cells:** Universe: **selected geographies:** New Mexico; **Place of birth (Recode) (POBP):** New Mexico/NM, Texas/TX, Mexico

Average of Age (AGEP) ▼

Selected Geographies	
▼ New Mexico/NM (1)	0
New Mexico	???
▼ Texas/TX (1)	0
New Mexico	???
▼ Mexico (1)	0
New Mexico	???

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

[VIEW TABLE](#)

- Edit Table Layout:
  - Move Place of Birth to Columns:
    - Click, hold and drag POBP on the left side of the page up to the columns heading. This will give you a table layout that includes the places of birth categories as the columns.

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

### Custom Table

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

**AGEP** 2 of 2 responses

Columns (0)  
columns (maximum 400)

Rows (2)  
3 rows (maximum 2000)

**POBP** 3 of 225 responses

SELECTED GEOGRAPHIES 1 of 1 responses

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

**AGEP\_RC1** 100 of 100 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: New Mexico; Place of birth (Recode) (POBP): New Mexico/NM, Texas/TX, Mexico

Selected Geographies		
<ul style="list-style-type: none"> <li>New Mexico/NM (1)               <ul style="list-style-type: none"> <li>New Mexico</li> </ul> </li> </ul>		0
<ul style="list-style-type: none"> <li>Texas/TX (1)               <ul style="list-style-type: none"> <li>New Mexico</li> </ul> </li> </ul>		0
<ul style="list-style-type: none"> <li>Mexico (1)               <ul style="list-style-type: none"> <li>New Mexico</li> </ul> </li> </ul>		0

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

- Edit Table Layout:
  - Move Age Recode to Rows:
    - Click, hold and drag AGEP\_RC1 on the left side of the page up to the rows heading. This will give you a table layout that includes the age categories that were created as the rows.

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

**Custom Table**

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

**AGEP**   2 of 2 responses

Columns (1)  
3 columns (maximum 400)

**POBP**   3 of 225 responses

**Rows (1)**  
1 rows (maximum 2000)

**SELECTED GEOGRAPHIES**   1 of 1 responses

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

**AGEP\_RC1**   100 of 100 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: New Mexico; Place of birth (Recode) (POBP): New Mexico/NM, Texas/TX, Mexico

	Place of birth (Recode) (POBP)		
Selected Geographies	New Mexico/NM	Texas/TX	Mexico
New Mexico	???	???	

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

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

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)  
3 columns (maximum 400)

**POBP** 3 of 225 responses

Rows (2)  
100 rows (maximum 2000)

**SELECTED GEOGRAPHIES** 1 of 1 responses

**AGEP\_RC1** 100 of 100 responses

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

### Table Preview

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

Universe: **selected geographies:** New Mexico; **Place of birth (Recode) (POBP):** New Mexico/NM, Texas/TX, Mexico

**Values in table cells:**

Count

Average of Age (AGEP)

Age recode (AGEP_RC1)	New Mexico/NM	Texas/TX	Mexico
<ul style="list-style-type: none"> <li>New Mexico (100)               <ul style="list-style-type: none"> <li>Not Elsewhere Classified</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> </ul> </li> </ul>	???	???	???

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 (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)  
3 columns (maximum 400)

POBP   3 of 225 responses

Rows (2)  
100 rows (maximum 2000)

SELECTED GEOGRAPHIES   1 of 1 responses

AGEP\_RC1   100 of 100 responses

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

**Table Preview**

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

Values in table cells:  
Count

Universe: selected geographies: New Mexico; Place of birth (Recode) (POBP): New Mexico/NM, Texas/TX, Mexico

Show Total

Age recode (AGEP_RC1)	Place of birth (Recode) (POBP)			
	Total	New Mexico/NM	Texas/TX	Mexico
???	0	0	0	0
New Mexico (100)	0	0	0	0
Not Elsewhere Classifi...	???	???	???	???
1	???	???	???	???
2	???	???	???	???
3	???	???	???	???
4	???	???	???	???
5	???	???	???	???
6	???	???	???	???

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

**VIEW TABLE**

# View Table

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

Custom Table
CUSTOMIZE VARIABLES
DOWNLOAD / SHARE
DETAILS ▾

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

**Vintage:** 2021 ▾

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

**Weighting:** Person weight ▾

**On Columns** +

**POBP**

**Not on Table** +

**On Rows** +

**Selected Geographies** **AGEP\_RC1**

**"Values in table cells" Options** +

**AGEP**

**Values in table cells:**

Count ▾

**Universe:** selected geographies: New Mexico; Place of birth (Recode) (POBP): New Mexico/NM, Texas/TX, Mexico

Show Total

Age recode (AGEP_RC1)	Place of birth (Recode) (POBP)			
	Total	New Mexico/NM	Texas/TX	Mexico
▾ Total (100)	1,432,274	1,142,580	154,466	135,228
▾ Total New Mexico (100)	1,432,274	1,142,580	154,466	135,228
Not Elsewhere Classified	21,490	19,728	1,646	116
1	21,853	20,188	1,499	166
2	22,121	19,623	2,319	179
3	22,402	20,603	1,547	252
4	22,572	21,202	1,133	237
Send Feedback	22,434	20,950	1,182	302

Send Feedback  
census.data@census.gov

- Sort Table:

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

Age recode (AGEP_RC1)	Place of birth (Recode) (POBP)				
	Total	New Mexico/NM	Texas/TX	Mexico ↓	
▼ Total (100)	1,432,274	1,142,580	154,466	135,228	
▼ Total New Mexico (100)	1,432,274	1,142,580	154,466	135,228	
43	16,445	11,194	1,695	3,556	
54	15,793	10,262	2,036	3,495	
46	16,800	11,412	1,932	3,456	
42	17,442	12,140	2,034	3,268	
50	14,113	9,556	1,435	3,122	
38	18,788	13,360	2,375	3,053	
55	16,295	11,196	2,047	3,052	
52	14,853	10,242	1,574	3,037	
47	15,315	10,021	2,352	2,942	
61	15,290	10,583	1,855	2,852	
63	14,779	9,918	2,092	2,769	
51	14,289	10,202	1,327	2,760	
39	18,768	13,781	2,236	2,751	
57	17,190	12,165	2,276	2,749	

# Demo

Example 4:

Race and Detailed Occupation in New Mexico PUMAs

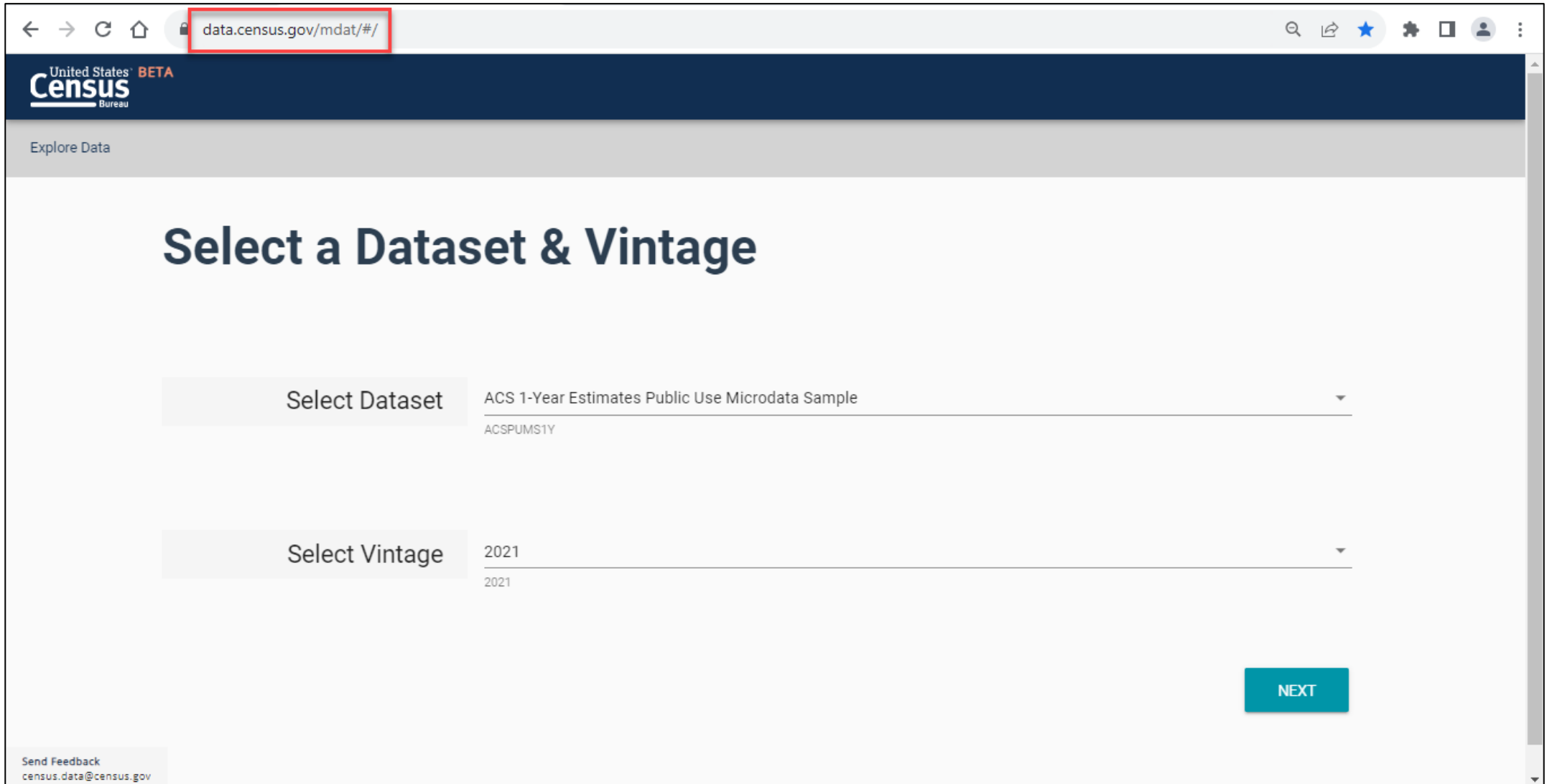
**Problem:** We need **detailed occupations by race for PUMAs in New Mexico**, but none of the published ACS tables have this cross of characteristics available for detailed occupations

**Solution:** Use Microdata Access (MDAT)

The screenshot shows the ACS data browser interface. On the left, there are filters for 'Race and Ethnicity' and 'Occupation'. The main panel displays search results for 'B24010A | Sex by Occupation for the Civilian Employed Population 16 Years and Over (White Alone)'. A table on the right shows the data for the United States, with columns for 'Label', 'Estimate', and 'Margin of Error'.

Label	Estimate	Margin of Error
Total:	100,836,241	
Male:	53,569,459	
Management, business, science, and arts occupations:	22,780,584	
Management, business, and financial occupations:	11,128,517	
Management occupations	7,915,199	
Business and financial operations occupations	3,213,318	
Computer, engineering, and science occupations:	5,566,924	
Computer and mathematical occupations	2,755,630	
Architecture and engineering occupations	2,149,158	
Life, physical, and social science occupations	662,136	
Education, legal, community service, arts, and media occupations:	4,437,020	
Community and social service occupations	606,074	
Legal occupations	728,805	
Educational instruction, and library occupations	1,869,862	
Arts, design, entertainment, sports, and media occupations	1,232,279	

- Visit Microdata Access at [data.census.gov/mdat](https://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

## Select a Dataset & Vintage

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

Select Vintage 2021  
2021

**NEXT**

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

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

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

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, Recod	
<input type="checkbox"/>	COW	Class of worker	10	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	GCL	Grandparents living with grandchildren	3	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	VACS	Vacancy status	8	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	ANC	Ancestry recode	5	Recodes	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	ESR	Employment status recode	7	Recodes	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	NWAB	Temporary absence from work (UNEDITED-See 'Employ...	4	Recodes	<a href="#">▼ DETAILS</a>

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

- 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

The screenshot shows the 'SELECT VARIABLES' interface with the following elements:

- Navigation tabs: SELECT VARIABLES (active), SELECT GEOGRAPHIES, DATA CART (1), TABLE LAYOUT, DOWNLOAD.
- Filter by Topic dropdown: filter by Topic.
- Search bar: Search is not enabled in this beta version. SEARCH button.
- Showing 2 of 519 Variables. Selected: 1 variable (9 columns, 1 row).
- Table of variables with columns: Variable, Label, Number of Values, Type.
- Variable 'RAC1P' is selected (checkbox checked) and its details are expanded.
- Details for 'RAC1P' include: Description (Recoded detailed race code), Values (1 -- White alone, 2 -- Black or African American alone, 3 -- American Indian alone, 4 -- Alaska Native alone, 5 -- American Indian and Alaska Native tribes specified; or American Indian or Alaska Native, not specified), and a DETAILS button.
- Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2021) CHANGE.
- VIEW TABLE button.

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/> RAC1P	race	9	(3) Edited Items, Estimate, Recodes

**Description:**  
Recoded detailed race code (Note: due to space restrictions, some labels may be truncated.)

**Values:**

- 1 -- White alone
- 2 -- Black or African American alone
- 3 -- American Indian alone
- 4 -- Alaska Native alone
- 5 -- American Indian and Alaska Native tribes specified; or American Indian or Alaska Native, not specified

- 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

The screenshot shows the 'SELECT VARIABLES' interface. At the top, there are navigation tabs: 'SELECT VARIABLES' (highlighted), 'SELECT GEOGRAPHIES', 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs is a search bar with the placeholder 'filter by Topic' and a 'SEARCH' button. A message states 'Search is not enabled in this beta version'. The main area shows 'Showing 1 of 519 Variables' and 'Selected: 2 variables (9 columns, 531 rows)'. A table lists variables with columns for 'Variable', 'Label', 'Number of Values', and 'Type'. The first row is highlighted with a red checkmark in the 'Variable' column, and the 'OCCP' variable is selected. The 'Label' column for 'OCCP' is 'Occupation recode for 2018 and later based on 2018 O...'. The 'Number of Values' is '531' and the 'Type' is 'Recodes'. A 'DETAILS' button is visible next to the variable. Below the table, the 'Description' and 'Values' sections are visible. The 'Values' section lists several codes and their corresponding job titles, such as '0010 -- MGR-Chief Executives And Legislators'. At the bottom, the dataset is identified as 'ACS 5-Year Estimates Public Use Microdata Sample (2021)' with a 'CHANGE' button and a 'VIEW TABLE' button.

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/> OCCP	Occupation recode for 2018 and later based on 2018 O...	531	Recodes

**Description:**

**Values:**

- 0010 -- MGR-Chief Executives And Legislators
- 0020 -- MGR-General And Operations Managers
- 0040 -- MGR-Advertising And Promotions Managers
- 0051 -- MGR-Marketing Managers
- 0052 -- MGR-Sales Managers

- **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**

The screenshot shows the 'SELECT GEOGRAPHIES' interface. The 'SELECT GEOGRAPHIES' tab is highlighted. Under the 'PUBLIC USE MICRODATA AREA (PUMA) (STATE)' section, 'New Mexico' is selected. In the 'NEW MEXICO' list, 'Northwest New Mexico-Navajo Nation PUMA, New Mexico' is checked. A 'VIEW TABLE' button is visible at the bottom right.

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

The screenshot shows a data analysis interface with a top navigation bar containing 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. The 'DATA CART (2)' tab is highlighted with a red box. On the left, under 'Selected Variables (2)', the 'OCCP' variable is highlighted with a red box, showing '0 of 531 responses'. On the right, the 'Occupation recode for 2018 and later based on 2018 OCC codes (OCCP)' section has a '+ CREATE CUSTOM GROUP' link. Below it, a table lists various occupation categories with checkboxes for 'Include in Universe'. The 'Include in Universe' checkbox is highlighted with a red box. The table data is as follows:

<input type="checkbox"/>	Response Label	Value
<input type="checkbox"/>	MGR-Chief Executives And Legislators	0010
<input type="checkbox"/>	MGR-General And Operations Managers	0020
<input type="checkbox"/>	MGR-Advertising And Promotions Mana...	0040
<input type="checkbox"/>	MGR-Marketing Managers	0051
<input type="checkbox"/>	MGR-Sales Managers	0052
<input type="checkbox"/>	MGR-Public Relations And Fundraising M...	0060
<input type="checkbox"/>	MGR-Administrative Services Managers	0101

At the bottom left, the dataset is identified as 'ACS 5-Year Estimates Public Use Microdata Sample (2021)' with a 'CHANGE' link. At the bottom right, there is a 'VIEW TABLE' button.

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

The screenshot shows the 'DATA CART (2)' interface with the following components:

- Navigation:** SELECT VARIABLES, SELECT GEOGRAPHIES, DATA CART (2), TABLE LAYOUT, DOWNLOAD
- Selected Variables (2):**
  - RAC1P:** 9 of 9 responses
  - OCCP:** 6 of 531 responses
- Variable Details:** Occupation recode for 2018 and later based on 2018 OCC codes (OCCP) [DETAILS ^]
- Custom Group:** + CREATE CUSTOM GROUP
- Response Categorization Table:**

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	teacher	
<input checked="" type="checkbox"/>	EDU-Postsecondary Teachers	2205
<input checked="" type="checkbox"/>	EDU-Preschool And Kindergarten Teachers	2300
<input checked="" type="checkbox"/>	EDU-Elementary And Middle School Teac...	2310
<input checked="" type="checkbox"/>	EDU-Secondary School Teachers	2320
<input checked="" type="checkbox"/>	EDU-Special Education Teachers	2330
<input checked="" type="checkbox"/>	EDU-Other Teachers and Instructors	2360

**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

### Custom Table

- "Values in table cells" Options (0)  
Determines order in list; cannot move to row/column
- Columns (1)  
9 columns (maximum 400)
- RAC1P**    9 of 9 responses
- Rows (2)  
6 rows (maximum 2000)
- SELECTED GEOGRAPHIES**    1 of 1 responses
- OCCP**    6 of 531 responses
- Not on table (0)  
(may restrict the sample universe)

### Table Preview

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

Values in table cells:  
Count

Universe: **selected geographies:** Northwest New Mexico–Navaj...; **Occupation recode for 2018 and later based on 2018 OCC codes (OCCP):** EDU-Postsecondary Teachers, EDU-Preschool And Kindergarten Teachers, EDU-Elementary And Middle School Teachers, EDU-Secondary School Teachers, EDU-Special Education Teachers, EDU-Other Teachers and Instructors

Show Total

Occupation recode for 2018 and later based on 2018 OCC codes (OCCP)	Recoded detailed race code (Note: due to space restrictions, some labels may be truncated.) (RAC1P)					
	Total	White alone	Black or African American alone	American Indian alone	Alaska Native alone	American Indian and Native tribes specific American Indian or
???	0	0	0	0	0	0
Northwest New Mexico-...	0	0	0	0	0	0
EDU-Postsecondary Te...	???	???	???	???	???	???
EDU-Preschool And Ki...	???	???	???	???	???	???
EDU-Elementary And ...	???	???	???	???	???	???
EDU-Secondary Schoo...	???	???	???	???	???	???
EDU-Special Educatio...	???	???	???	???	???	???
EDU-Other Teachers a...	???	???	???	???	???	???

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

**VIEW TABLE**

# View Table

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

Custom Table
CUSTOMIZE VARIABLES
DOWNLOAD / SHARE
DETAILS

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

**Vintage:** 2021

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

**Weighting:** Person weight

**On Columns**

**RAC1P**

**Not on Table**

**On Rows**

**Selected Geographies** **OCCP**

**"Values in table cells" Options**

**Values in table cells:**

Count

Universe: **selected geographies:** Northwest New Mexico–Navaj...; **Occupation recode for 2018 and later based on 2018 OCC codes (OCCP):** EDU-Postsecondary Teachers, EDU-Preschool And Kindergarten Teachers, EDU-Elementary And Middle School Teachers, EDU-Secondary School Teachers, EDU-Special Education Teachers, EDU-Other Teachers and Instructors

Show Total

Recoded detailed race code (Note: due to space restrictions, some labels may be truncated.) (RAC1P)										
Occupation recode for 2018 and later based on 2018 OCC codes (OCCP)	Total	White alone	Black or African American alone	American Indian alone	Alaska Native alone	American Indian and Alaska Native tribes specified; or American Indian or Alaska	Asian alone	Native Hawaiian and Other Pacific Islander alone	Some Other Race alone	Two or More Races
▼ Total (6)	2,833	1,288	31	1,234	0	0	203	0	11	66
▼ Total Northwest N...	2,833	1,288	31	1,234	0	0	203	0	11	66
EDU-Postsecond...	212	157	0	44	0	0	0	0	11	0
EDU-Preschool ...	204	0	0	204	0	0	0	0	0	0
EDU-Elementary...	1,656	789	31	669	0	0	105	0	0	62
ry ...	278	143	0	84	0	0	51	0	0	0
Send Feedback census.data@census.gov	253	128	0	74	0	0	47	0	0	4

# Guidance for Data Users

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## Within Guidance for Data Users

[Frequently Asked Questions](#)

[How-to Materials for Using data.census.gov](#)

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## How-to Materials for Using the Microdata Access

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Do you have questions on how to use [Microdata Access](#)? Check out our [Access](#) to create your own tabulations.

 [Using Microdata Access: With ACS 1-Year Estimates – Public Use Microd](#)

 [Using Microdata Access: How To Create Poverty Estimates From The CPS](#)

## Building a Custom Table Using Microdata Access (MDAT)

January 09, 2023

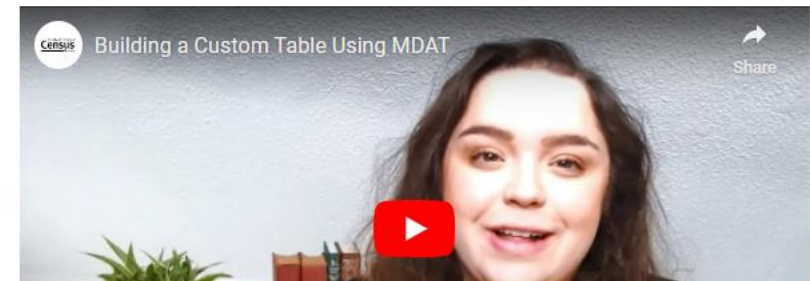
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Watch this video to learn how to use Microdata Access (MDAT) through [data.census.gov](#), and create customized tabulation without the need for special programming or statistical software.

### Related Information

[data.census.gov Reso](#)

TRAINING  
[Census Academy](#)



### MDAT Resources Page:

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

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Data.census.gov Newsletter – January 2023

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## Data.census.gov Newsletter – January 2023

Population Pyramid: Population by Age and Sex for Maryland

Age Group	Male	Female
65 years and over	29,063	37,793
55 to 64 years	36,024	41,755
45 to 54 years	50,894	56,927
35 to 44 years	74,822	82,883
25 to 34 years	103,066	116,753
15 to 24 years	150,226	171,536
5 to 14 years	202,229	228,167
Under 5 years	262,740	294,417

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

### Latest System Updates

In December, we released new updates to improve your experience on [data.census.gov](https://data.census.gov)

**Featured Video Tutorial:**  
Explanation of Mapping Buttons on data.census.gov

**More Videos**

**Upcoming Webinar:**  
data.census.gov News and Updates: January 2023

Join us for this webinar where we will cover updates on [data.census.gov](https://data.census.gov) for the months of October, November, and December. Updates include simplified URLs, new accessibility

# data.census.gov Resources

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## Our Development Depends on Your Feedback

As we continue to develop new functionalities like search by address and advanced printing and download options, please let us know what features are important to you.

Please send your questions or comments on [data.census.gov](https://data.census.gov), Census API, or Microdata Access to [census.data@census.gov](mailto:census.data@census.gov)

# Questions?



Feedback and additional questions:  
[census.data@census.gov](mailto:census.data@census.gov)