

# 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

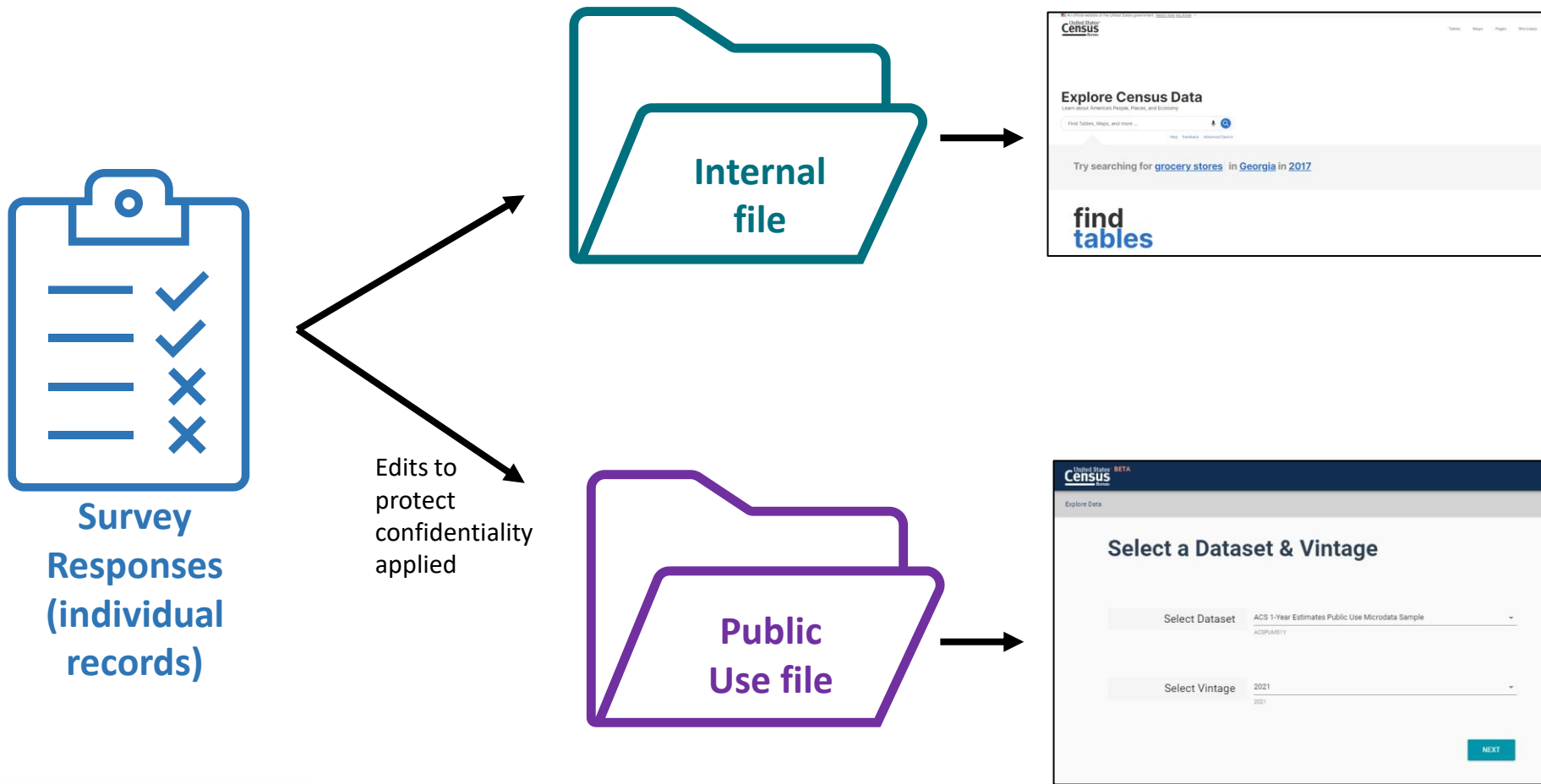
### Accessible

- [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?



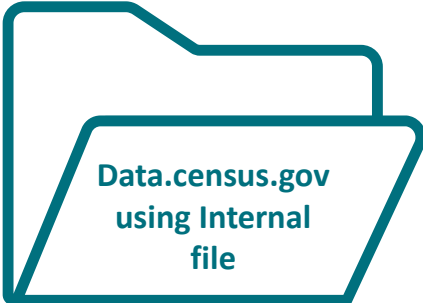
## data.census.gov

- 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	26,075	±2,370

[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>

### 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
			2021GQ0000001..2021GQ9999999 .GQ Unique identifier 2021HU0000001..2021HU9999999 .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	

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

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

### Data and Documents

 Data Dictionary [1.0 MB]

*ASEC 2024 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				Recode - Census division of current residence Values: 1 = New England 2 = Middle Atlantic 3 = East North Central 4 = West North Central 5 = South Atlantic 6 = East South Central 7 = West South Central 8 = Mountain 9 = Pacific Universe: All Households			
<b>SubTopic: Match Keys</b>							
FILEDATE	6	2	()	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)	GESTFIPS	2	44	(1:56)
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 Universe: All Households			
H_IDNUM	20	9	(NA)				
Household id number. Same as characters 1-20 of PERIDNUM. Values: ID Number Universe: All households							

# 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:

Year structure was built for New Mexico by vacancy status

Problem: We need **year structure was built by vacancy status for New Mexico**, but none of the published ACS tables have the level of detail we need.

Solution: Use Microdata Access (MDAT)

The screenshot shows the United States Census Bureau data portal. On the left, there are 3 filters: New Mexico, Year Structure Built, and Occupancy Characteristics. The search results show 7 results, with 'DP04 | Selected Housing Characteristics' selected. The table below shows data for New Mexico, including 'YEAR STRUCTURE BUILT' and 'ROOMS' categories.

Label	New Mexico			
	Estimate	Margin of Error	Percent	Percent Margin
▼ YEAR STRUCTURE BUILT				
▼ Total housing units	965,373	±173	965,373	
Built 2020 or later	19,416	±2,771	2.0%	
Built 2010 to 2019	90,102	±5,528	9.3%	
Built 2000 to 2009	158,136	±6,363	16.4%	
Built 1990 to 1999	140,739	±6,287	14.6%	
Built 1980 to 1989	152,619	±6,069	15.8%	
Built 1970 to 1979	153,499	±6,651	15.9%	
Built 1960 to 1969	89,466	±4,668	9.3%	
Built 1950 to 1959	84,443	±3,956	8.7%	
Built 1940 to 1949	30,806	±2,835	3.2%	
Built 1939 or earlier	46,147	±3,817	4.8%	
▼ ROOMS				
▼ Total housing units	965,373	±173	965,373	
1 room	29,093	±3,365	3.0%	
2 rooms	29,473	±3,427	3.1%	
3 rooms	75,279	±5,423	7.8%	



- 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 – ACS 1-Year Estimates – Public Use Microdata Sample
  - Vintage – 2023
  - Click **Next** in the lower right

United States <sup>BETA</sup>  
**Census**  
Bureau

Explore Data

## Select a Dataset & Vintage

Select Dataset ACS 1-Year Estimates Public Use Microdata Sample  
ACSPUM1Y

Select Vintage 2023  
2023

**NEXT**

Send Feedback  
census.data@census.gov

- **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 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 Year Structure was Built:
  - Type “YRBLT” in the Variable search box or type “structure” in the label search box
  - Check the box to the left of YRBLT to add the variable to your data cart

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

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

Showing 1 of 522 Variables Selected: 1

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/> YRBLT	When structure first built	13	Estimate

**Description:**  
When structure first built

**Values:**

- 1938 -- N/A (GQ)
- 1939 -- 1939 or earlier
- 1940 -- 1940 to 1949
- 1950 -- 1950 to 1959
- 1960 -- 1960 to 1969
- 1970 -- 1970 to 1979

[^ DETAILS](#)

- Select variable for Vacancy Status:
  - Type “VACS” in the Variable search box or type “vacancy” in the label search box
  - Check the box to the left of VACS 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 3 of 522 Variables    Selected: 2 variables (112 columns, 1 row)

Variable	Label	Number of Values	Type
<input checked="" type="checkbox"/> VACS	vacancy Vacancy status	8	Estimate
<input type="checkbox"/> VACDUR	Vacancy duration	8	Estimate
<input type="checkbox"/> VACOTH	Other vacancy status	12	Estimate

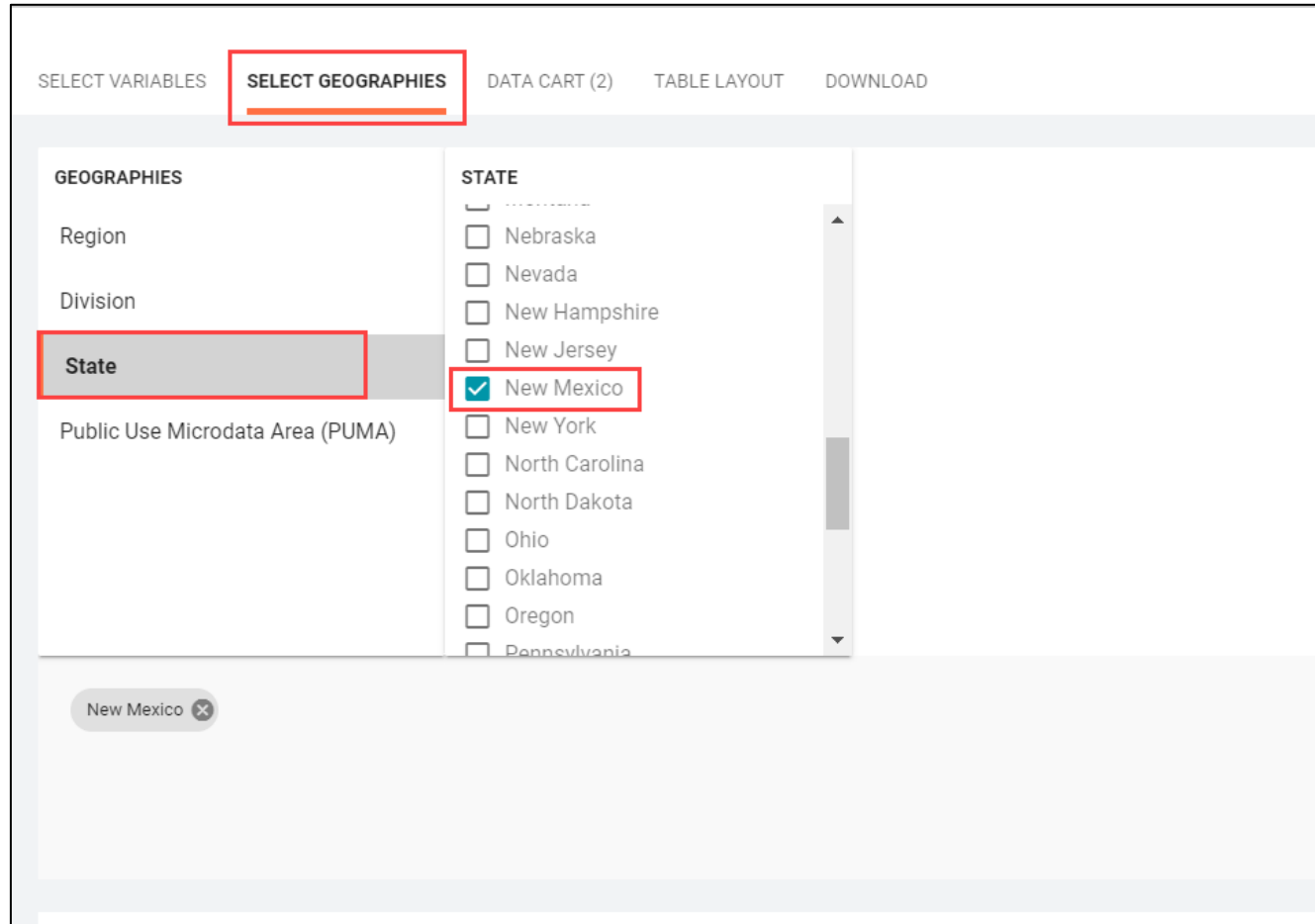
Description: Vacancy status

Values:

- 0 -- N/A (GQ/occupied)
- 1 -- For Rent
- 2 -- Rented, not occupied
- 3 -- For sale only
- 4 -- Sold, not occupied
- 5 -- For seasonal/recreational/occasional use

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

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





- 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 vacancy status and year structures were built both in Columns
  - Drag **YRBLT** down to Rows to display it in Rows rather than Columns, and move **SELECTED GEO** to not on table since we only have one geography

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)  
8 columns (maximum 400)

**VACS**   8 of 8 responses

Rows (1)  
14 rows (maximum 2000)

**YRBLT**   14 of 14 responses

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

**SELECTED GEOGRAPHIES**   1 of 1 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

Show Total

When structure first built	Vacancy status (VACS)				
	Total	N/A (GQ/occupied)	For Rent	Rented, not occupied	For sale only
▼ ??? (14)	0	0	0	0	0
N/A (GQ)	???	???	???	???	???
1939 or earlier	???	???	???	???	???
1940 to 1949	???	???	???	???	???
1950 to 1959	???	???	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)   [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)  
8 columns (maximum 400)
- VACS   8 of 8 responses
- Rows (1)  
14 rows (maximum 2000)
- YRBLT   14 of 14 responses
- Not on table (1)  
(may restrict the sample universe)
- SELECTED GEOGRAPHIES   1 of 1 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

Show Total

When structure first built	Vacancy status (VACS)				
	Total	N/A (GQ/occupied)	For Rent	Rented, not occupied	For sale only
▼ ??? (14)	0	0	0	0	0
N/A (GQ)	???	???	???	???	???
1939 or earlier	???	???	???	???	???
1940 to 1949	???	???	???	???	???
1950 to 1959	???	???	???	???	???

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

The screenshot shows the 'Custom Table' interface on the United States Census Bureau website. The interface includes a header with the logo and navigation options like 'CUSTOMIZE VARIABLES', 'DOWNLOAD / SHARE', and 'DETAILS'. Below the header, there are settings for 'Dataset' (ACS 1-Year Estimates Public Use Microdata Sample), 'Vintage' (2023), 'Geography' (1 geographies selected), and 'Weighting' (Housing Unit Weight). A red arrow points to the 'Weighting' dropdown menu. The table configuration section shows 'On Columns' with 'VACS' and 'Selected Geographies', and 'On Rows' with 'YRBLT'. The 'Values in table cells' dropdown is set to 'Count'. The 'Universe' is 'selected geographies: New Mexico'. A 'Show Total' toggle is turned on. The main table displays data for 'Vacancy status (VACS)' across various categories.

When structure first built	Vacancy status (VACS)									
	Total	N/A (GQ/occupied)	For Rent	Rented, not occupied	For sale only	Sold, not occupied	For seasonal/recreational/occasional use	For migrant workers	Other vacant	
Total (14)	965,373	856,580	14,759	3,189	5,018	4,494	35,154	238	45,941	
N/A (GQ)	0	0	0	0	0	0	0	0	0	
1939 or earlier	46,973	36,930	747	282	259	1,206	1,471	184	5,894	
1940 to 1949	32,642	27,216	679	315	33	546	1,148	0	2,705	
Send Feedback census.data@census.gov	86,431	77,015	1,713	623	630	0	1,900	0	4,550	
	88,793	74,974	1,449	489	839	840	4,260	0	5,942	

# Demo

Example 2:

Health Insurance Coverage by single year of age in New Mexico

Problem: We need **health insurance coverage for single years of age for New Mexico**, but none of the published ACS tables have age broken down by single years.

Solution: Use Microdata Access (MDAT)

The screenshot shows the United States Census Bureau data tool interface. The main content is a table titled "S2701 | Selected Characteristics of Health Insurance Coverage in the United States". The table is filtered for "New Mexico" and "2023: ACS 1-Year Estimates Subject Tables". The table displays data for "Civilian noninstitutionalized population" broken down by "AGE" groups. The columns include "Total", "Insured", "Percent Insured", "Uninsured", and "Percent Uninsured", with "Estimate" values provided for each.

Label	New Mexico				
	Total	Insured	Percent Insured	Uninsured	Percent Uninsured
	Estimate	Estimate	Estimate	Estimate	Estimate
▼ Civilian noninstitutionalized population	2,076,456	1,887,856	90.9%	188,600	9.1%
▼ AGE					
Under 6 years	125,666	118,747	94.5%	6,919	5.5%
6 to 18 years	352,444	330,971	93.9%	21,473	6.1%
19 to 25 years	181,127	154,158	85.1%	26,969	14.9%
26 to 34 years	241,640	205,388	85.0%	36,252	15.0%
35 to 44 years	267,569	229,397	85.7%	38,172	14.3%
45 to 54 years	236,562	203,821	86.2%	32,741	13.8%
55 to 64 years	254,278	231,878	91.2%	22,400	8.8%
65 to 74 years	246,586	243,778	98.9%	2,808	1.1%
75 years and older	170,584	169,718	99.5%	866	0.5%
Under 19 years	478,110	449,718	94.1%	28,392	5.9%
19 to 64 years	1,181,176	1,024,642	86.7%	156,534	13.3%
65 years and older	417,170	413,496	99.1%	3,674	0.9%



- 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 – ACS 5-Year Estimates – Public Use Microdata Sample
  - Vintage – 2022
  - Click **Next** in the lower right

The screenshot shows the 'Select a Dataset & Vintage' page on the United States Census Bureau website. The page has a dark blue header with the 'United States Census Bureau' logo and 'BETA' text. Below the header is a breadcrumb trail 'Explore Data / Microdata'. The main heading is 'Select a Dataset & Vintage'. There are two dropdown menus: 'Select Dataset' with the selected value 'ACS 5-Year Estimates Public Use Microdata Sample' and the code 'ACSPUMS5Y' below it; and 'Select Vintage' with the selected value '2022' and the code '2022' below it. A teal 'NEXT' button is located in the bottom right corner. At the bottom left, there is a 'Send Feedback' link with the email address 'census.data@census.gov'.

- **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 Health Insurance

- 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 data cart

The screenshot shows the 'SELECT VARIABLES' interface. At the top, there are navigation tabs: 'SELECT VARIABLES' (active), 'SELECT GEOGRAPHIES', 'DATA CART (1)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs is a search area with a 'filter by Topic' dropdown, a search box containing 'insurance', and a 'SEARCH' button. A message states 'Search is not enabled in this beta version'. Below the search area, it says 'Showing 7 of 522 Variables' and 'Selected: 1 variable (1 column, 1 row)'. A table lists variables with checkboxes, variable names, labels, number of values, and types. The 'HICOV' variable is selected, and its details are shown below the table.

	Variable	Label	Number of Values	Type	
<input checked="" type="checkbox"/>		insurance		(3) Edited Items, Estimate, Rec	
<input type="checkbox"/>	INSP	Fire/hazard/flood insurance (yearly amount, use A...	3	Estimate	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	MRGI	First mortgage payment includes fire/hazard/floo...	3	Estimate	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	HICOV	Health insurance coverage recode	2	Recodes	<a href="#">^ DETAILS</a>

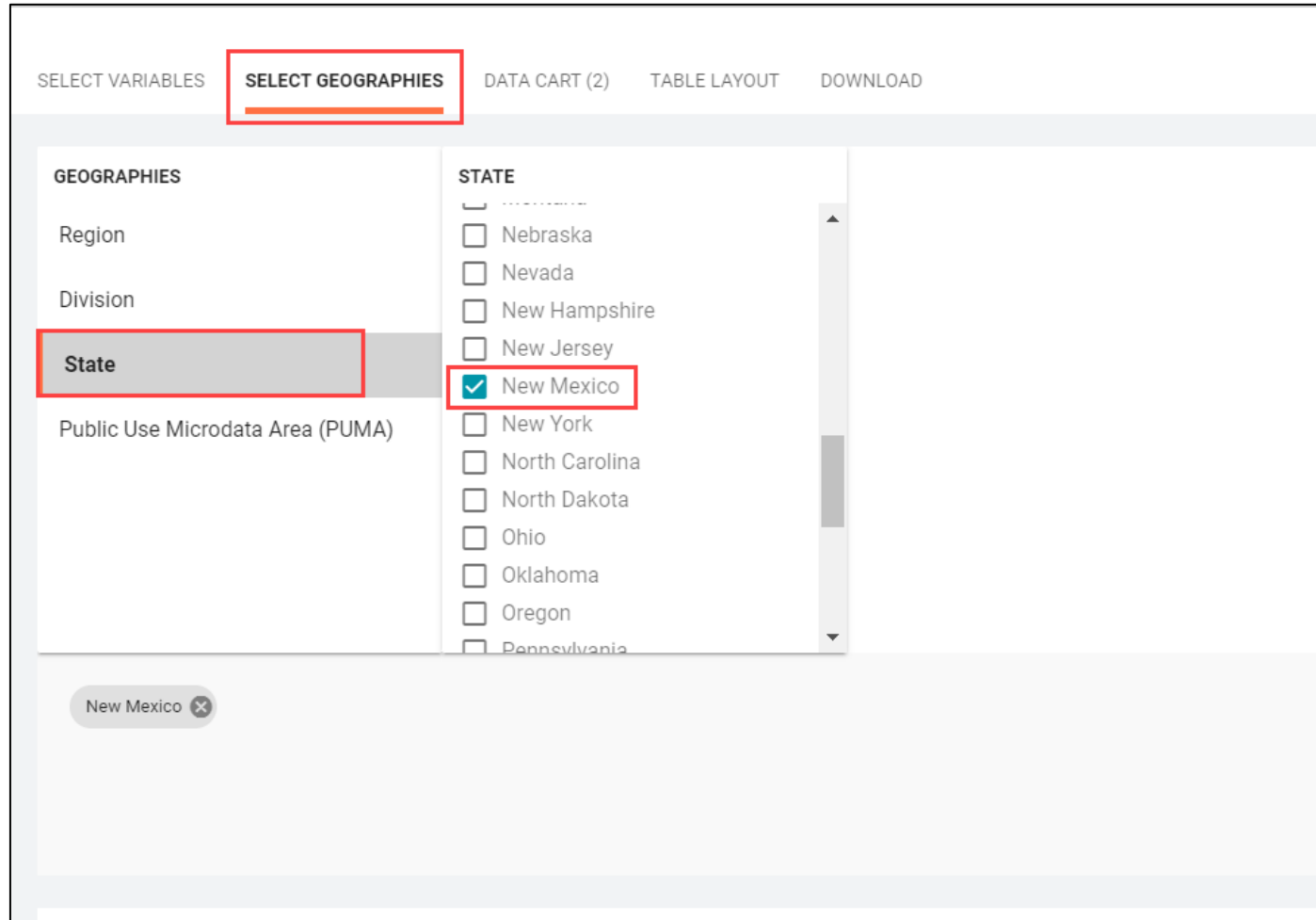
**Description:**  
Health insurance coverage recode

**Values:**

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

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022) [CHANGE](#) [VIEW TABLE](#)

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



- 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)

The screenshot shows the United States Census Bureau data tool interface. The top navigation bar includes 'United States BETA Census Bureau'. Below it, the breadcrumb trail reads 'Explore Data / Microdata / Custom Table'. The main navigation tabs are 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. The 'DATA CART (2)' tab is active and highlighted with an orange underline. A hand cursor is pointing at the 'TABLE LAYOUT' tab.

On the left side, under 'Selected Variables (2)', two variables are listed: 'AGEP' (2 of 2 responses) and 'HICOV' (2 of 2 responses), each with a trash icon.

On the right side, the 'Age (AGEP)' variable is selected. A '+ CREATE CUSTOM GROUP' button is highlighted with an orange border. Below this, a table shows the configuration for the 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

At the bottom of the interface, the dataset is identified as 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link. A 'VIEW TABLE' button is located in the bottom right corner.

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

The screenshot displays the 'Age recode' dialog box within a data analysis interface. On the left, the 'Selected Variables (3)' list includes AGEP (2 of 2 responses), HICOV (2 of 2 responses), and AGEP\_RC1 (1 of 1 responses). The 'Age recode' dialog is titled 'Age recode' and features an 'AUTO GROUP' button in the top right corner. Below the title, there is a 'Group Label' field containing 'Not Elsewhere Classified' and a 'Show on table' toggle switch. A table below shows the recoding process with columns for 'Add to Group', 'Response Label', and 'Value'. The first row is checked and labeled '1 to 99 years (Top-coded)' with a value of 1. A slider below the table indicates the range from 1 to 99. At the bottom of the dialog are 'CANCEL' and 'SAVE GROUP' buttons. The footer of the interface shows the dataset name 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' and a 'VIEW TABLE' button.

- **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

- 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 health insurance coverage in 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 (1)  
2 columns (maximum 400)
- HICOV**    2 of 2 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

Selected Geographies	Health insurance coverage recode (HICOV)	
	With health insurance coverage	No health insurance coverage
New Mexico		???

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022)    [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)**  
2 columns (maximum 400)

**HICOV**   2 of 2 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:   Universe: selected geographies: New Mexico

Average of Age (AGEP)

Selected Geographies	Health insurance coverage recode (HICOV)	
	With health insurance coverage	No health insurance coverage
New Mexico		???

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022)   [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)**  
2 columns (maximum 400)

**HICOV** 2 of 2 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

Average of Age (AGEP)

Age recode (AGEP_RC1)	With health insurance coverage	No health insurance coverage
▼ New Mexico (100)		
Not Elsewhere Classified	???	???
1	???	???
2	???	???
3	???	???
4	???	???
5	???	???
6	???	???

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022)   [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)  
2 columns (maximum 400)

**HICOV** 2 of 2 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

Show Total

Age recode (AGEP_RC1)	Health insurance coverage recode (HICOV)		
	Total	With health insurance coverage	No health insurance coverage
?? (100)	0	0	0
New Mexico (100)	0	0	0
Not Elsewhere Classifi...	???	???	???
1	???	???	???
2	???	???	???
3	???	???	???
4	???	???	???

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022)   [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:**

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

**Weighting:**

**On Columns**

**HICOV**

**Not on Table**

**On Rows**

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

**"Values in table cells" Options**

**AGEP**

**Values in table cells:**

**Universe:** selected geographies: New Mexico

Show Total

	Health insurance coverage recode (HICOV)		
	Total	With health insurance coverage	No health insurance coverage
▼ Total (100)	2,112,463	1,906,710	205,753
▼ Total New Mexico (100)	2,112,463	1,906,710	205,753
Not Elsewhere Classified	21,731	21,110	621
Send Feedback <small>census.data@census.gov</small>	21,460	20,391	1,069

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

Values in table cells: Universe: selected geographies: New Mexico

Count

Show Total

Age recode (AGEP_RC1)	Health insurance coverage recode (HICOV)			
	Total	With health insurance coverage ↓	No health insurance coverage	
▼ Total (100)	2,112,463	1,906,710	205,753	
▼ Total New Mexico (100)	2,112,463	1,906,710	205,753	
10	29,734	27,957	1,777	
14	29,626	27,677	1,949	
18	30,032	27,180	2,852	
11	28,432	27,002	1,430	
66	27,466	26,954	512	
13	28,530	26,628	1,902	
16	28,404	26,623	1,781	
60	29,181	26,395	2,786	
15	28,099	26,355	1,744	
12	28,538	26,325	2,213	
19	29,586	26,291	3,295	
22	31,550	26,084	5,466	
61	28,563	25,749	2,814	
30	29,959	25,644	4,315	

Send Feedback  
census.data@census.gov

# Demo

Example 3:

Employment status by sex for the Mexican population in New Mexico  
PUMAs

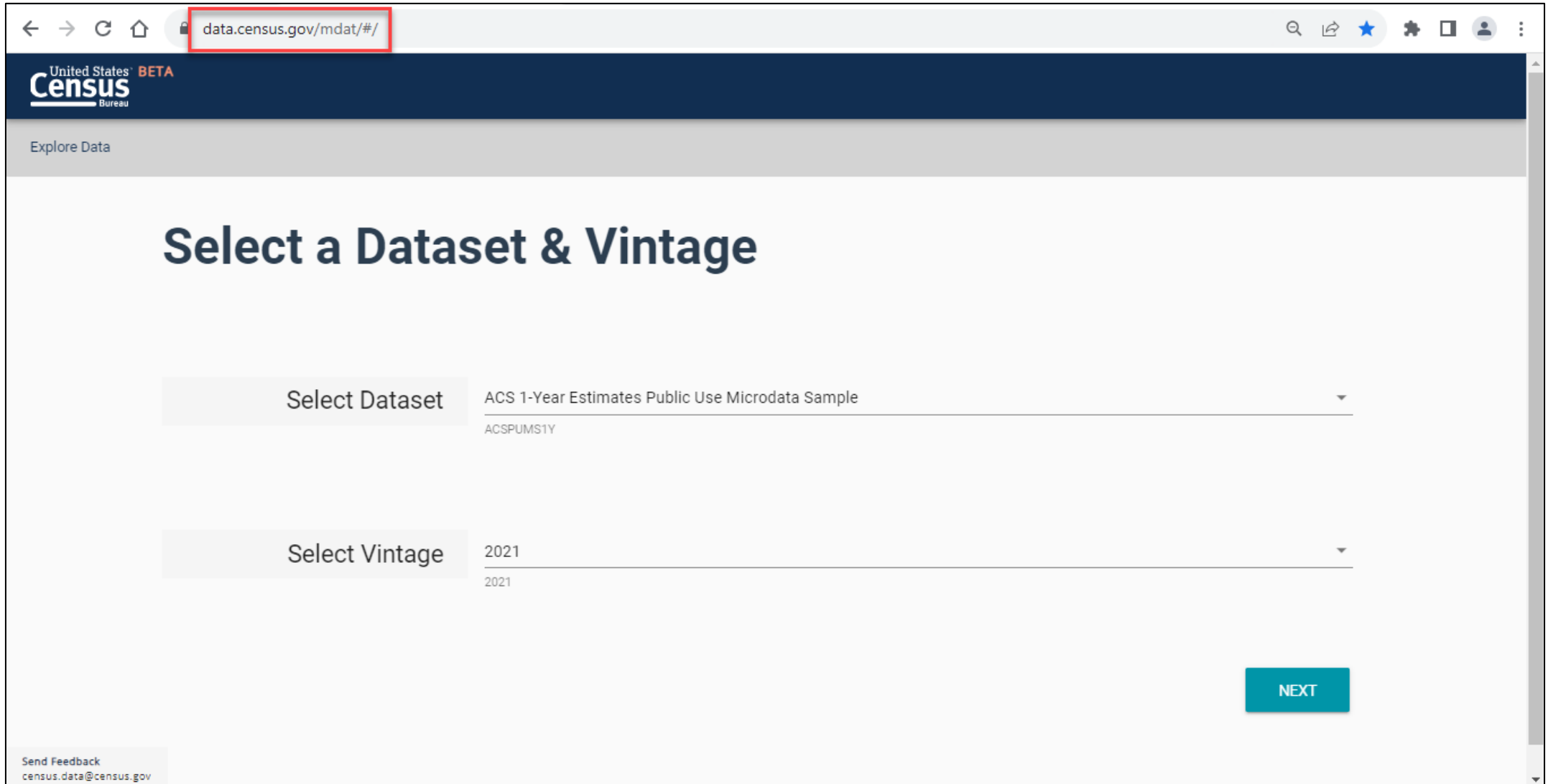
**Problem:** We need **employment status by sex for the Mexican population in New Mexico PUMAs**, but none of the published ACS tables have this cross of characteristics available for employment status.

**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)'. The table below shows the following data:

Label	United States	Estimate	Marg
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 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 Employment:**
  - Type “ESR” in the Variable search box or type “employment” in the label search box
  - Click **Details** to browse information about this variable
  - Check the box to the left of ESR to add the variable to your data cart

Filter by topic SEARCH

Showing 8 of 522 Variables Select at least one variable to start

	Variable	Label	Number of Values	Type	
	<input type="text" value=""/>	<input type="text" value="employment"/>	<input type="text" value=""/>	<input type="text" value="(3) Edited Items, Estimate, Recode"/>	
<input type="checkbox"/>	ESP	Employment status of parents	9	Edited Items	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	ESR	Employment status recode	7	Recodes	<a href="#">▲ DETAILS</a>
<b>Description:</b>		<b>Values:</b>			
Employment status recode		<ul style="list-style-type: none"> <li>• 0 -- N/A (less than 16 years old)</li> <li>• 1 -- Civilian employed, at work</li> <li>• 2 -- Civilian employed, with a job but not at work</li> <li>• 3 -- Unemployed</li> <li>• 4 -- Armed Forces, At Work</li> <li>• 5 -- Armed Forces, With a Job But Not At Work</li> </ul>			
<input type="checkbox"/>	NWAB	Temporary absence from work (UNEDITED - See "Emplo...	4	Recodes	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	NWAV	Available for work (UNEDITED - See "Employment Status...	6	Recodes	<a href="#">▼ DETAILS</a>
<input type="checkbox"/>	NWLA	On layoff from work (UNEDITED - See "Employment Stat...	4	Recodes	<a href="#">▼ DETAILS</a>

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

The screenshot shows a web interface for searching variables. At the top, there is a search bar with the text "filter by Topic" and a "SEARCH" button. Below the search bar, it says "Showing 1 of 522 Variables" and "Selected: 1 variable (2 columns, 1 row)". The main content area displays a table with columns for Variable, Label, Number of Values, and Type. The variable "SEX" is selected, and its label "sex" is highlighted with an orange box. Below the table, there is a "Description" section with the text "Sex Variable Universe Description: ALL" and a "Values" section with a list: "1 -- Male" and "2 -- Female". A "DETAILS" link is visible next to the variable name.

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

**Description:**  
Sex Variable Universe Description: ALL

**Values:**

- 1 -- Male
- 2 -- Female

[DETAILS](#)

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

filter by Topic SEARCH

Showing 2 of 522 Variables Selected: 2 variables (2 columns, 24 rows)

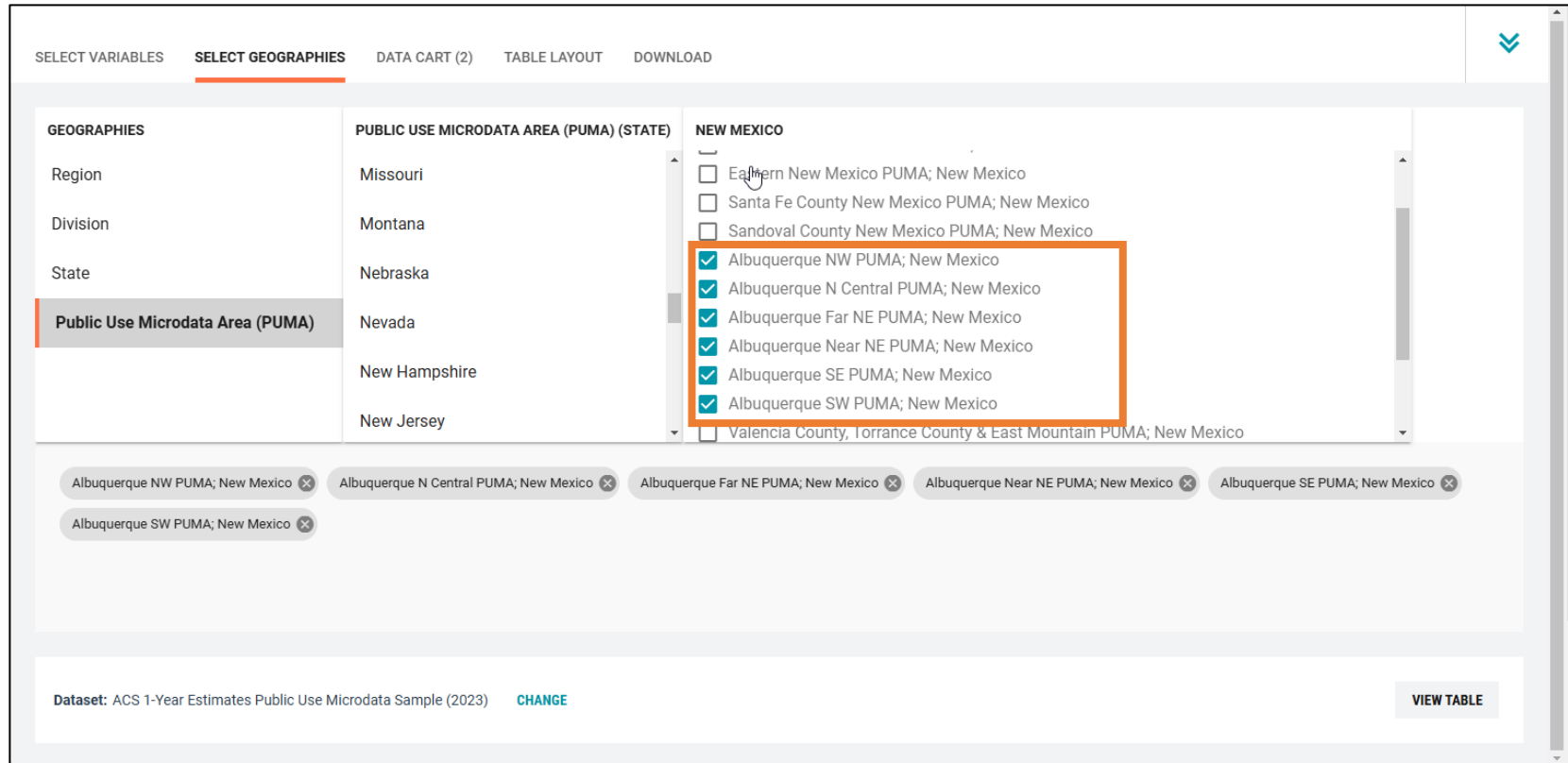
	Variable	Label	Number of Values	Type	
<input type="checkbox"/>	HHLDRHISP	Recoded detailed Hispanic origin of the householder	25	Estimate	<a href="#">DETAILS</a>
<input checked="" type="checkbox"/>	HISP	Recoded detailed Hispanic origin	24	Recodes	<a href="#">DETAILS</a>

**Description:**

**Values:**

- 01 -- Not Spanish/Hispanic/Latino
- 02 -- Mexican
- 03 -- Puerto Rican
- 04 -- Cuban
- 05 -- Dominican
- 06 -- Costa Rican

- **Select geography:**
  - Click the **SELECT GEOGRAPHIES** tab
  - Click **Public Use Microdata Area (PUMA)** and click on **New Mexico**
  - Check the boxes for the six **Albuquerque City PUMAs**



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 (recode) your variable:
  - Click the **Data Cart** tab
  - Click the **HISP** variable on the left
  - We want data for Mexican population. To separate this out from other Hispanic origin, click select only **Mexican**.

The screenshot shows the Data Cart interface with the following components:

- Navigation:** SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (3)**, TABLE LAYOUT, DOWNLOAD
- Selected Variables (3):**
  - SEX:** 2 of 2 responses
  - ESR:** 7 of 7 responses
  - HISP:** 1 of 24 responses
- Recoded detailed Hispanic origin (HISP):**
  - + CREATE CUSTOM GROUP
  - Table with columns: Include in Universe, Response Label, Value
  - Table content:

Include in Universe	Response Label	Value
<input type="checkbox"/>	Not Spanish/Hispanic/Latino	01
<input checked="" type="checkbox"/>	Mexican	02
<input type="checkbox"/>	Puerto Rican	03
<input type="checkbox"/>	Cuban	04
<input type="checkbox"/>	Dominican	05
<input type="checkbox"/>	Costa Rican	06
<input type="checkbox"/>	Guatemalan	07
<input type="checkbox"/>	Honduran	08
<input type="checkbox"/>	Nicaraguan	09
<input type="checkbox"/>	Panamanian	10
<input type="checkbox"/>	Salvadoran	11
<input type="checkbox"/>	Other Central American	12
- Dataset:** ACS 1-Year Estimates Public Use Microdata Sample (2023) CHANGE
- VIEW TABLE** button

- View variable placement in the default table layout:
  - Move to the **Table Layout** tab
  - **Columns/Rows – Variables** will be shown in 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 (2)  
12 columns (maximum 400)

**SELECTED GEOGRAPHIES** 6 of 6 responses

**SEX** 2 of 2 responses

Rows (1)  
7 rows (maximum 2000)

**ESR** 7 of 7 responses

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

**HISP** 1 of 24 responses

### Table Preview

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

Values in table cells:  
Count

Show Total

Universe: **selected geographies:** Albuquerque NW PUMA; New Me..., Albuquerque N Central PUMA;..., Albuquerque Far NE PUMA; Ne..., Albuquerque Near NE PUMA; N..., Albuquerque SE PUMA; New Me..., Albuquerque SW PUMA; New Me...; **Recoded detailed Hispanic origin (HISP):** Mexican

Employment status recode	Selected Geographies									
	Total	Albuquerque NW PUMA; New Mexico		Albuquerque N Central PUMA; New Mexico			Albuquerque Far NE PUMA; New Mexico			Total
		Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male	
?? (7)	0	0	0	0	0	0	0	0	0	0
N/A (...)	???	???	???	???	???	???	???	???	???	???
Civili...	???	???	???	???	???	???	???	???	???	???
Civili...	???	???	???	???	???	???	???	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023) [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 (2)  
12 columns (maximum 400)

**SELECTED GEOGRAPHIES**    6 of 6 responses

**SEX**    2 of 2 responses

Rows (1)  
7 rows (maximum 2000)

**ESR**    7 of 7 responses

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

**HISP**    1 of 24 responses

### Table Preview

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

**Values in table cells:**

Count

Show Total

Universe: **selected geographies:** Albuquerque NW PUMA; New Me..., Albuquerque N Central PUMA;..., Albuquerque Far NE PUMA; Ne..., Albuquerque Near NE PUMA; N..., Albuquerque SE PUMA; New Me..., Albuquerque SW PUMA; New Me...; **Recorded detailed Hispanic origin (HISP):** Mexican

Employment status recode	Selected Geographies									
	Albuquerque NW PUMA; New Mexico			Albuquerque N Central PUMA; New Mexico			Albuquerque Far NE PUMA; New Mexico			
	Total	Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male	Fem
?? (7)	0	0	0	0	0	0	0	0	0	0
N/A (...)	???	???	???	???	???	???	???	???	???	???
Civili...	???	???	???	???	???	???	???	???	???	???
Civili...	???	???	???	???	???	???	???	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)    [CHANGE](#)

**VIEW TABLE**



# View Table

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

**United States Census Bureau BETA**

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

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

**Geography:** 6 geographies selected [CHANGE GEOGRAPHY](#)

**Vintage:** 2023

**Weighting:** PUMS person weight

**On Columns:** Selected Geographies, SEX

**On Rows:** ESR

**Not on Table:** HISP

**Values in table cells:** Count

Universe: **selected geographies:** Albuquerque NW PUMA; New Me..., Albuquerque N Central PUMA;..., Albuquerque Far NE PUMA; Ne..., Albuquerque Near NE PUMA; N..., Albuquerque SE PUMA; New Me..., Albuquerque SW PUMA; New Me...; **Recorded detailed Hispanic origin (HISP):** Mexican

Show Total

Employment status recode	Selected Geographies										
	Total	Albuquerque NW PUMA; New Mexico			Albuquerque N Central PUMA; New Mexico			Albuquerque Far NE PUMA; New Mexico			
	Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male
▼ Total (7)	196,374	32,500	18,009	14,491	26,475	11,566	14,909	18,648			
N/A (less than 16 years ...)	44,748	7,756	5,725	2,031	4,528	1,419	3,109	4,708			
Civilian employed, at wo...	99,354	17,394	8,510	8,884	15,069	7,865	7,204	10,257			
Civilian employed, with ...	2,241	54	0	54	184	184	0	191			
Unemployed	4,492	1,540	575	965	1,144	236	908	230			
Armed Forces At Work	403	0	0	0	0	0	0	197			
Send Feedback census.data@census.gov With a JO...	0	0	0	0	0	0	0	0			

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

United States **BETA**  
Census Bureau

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

Dataset: ACS 1-Year Estimates Public Use Microdata Sample [CHANGE DATASET](#) Geography: 6 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2023 Weighting: PUMS person weight

On Columns: Selected Geographies, SEX  
On Rows: ESR  
Not on Table: HISP, "Values in table cells" Options

Values in table cells: Count  
Universe: selected geographies: Albuquerque NW PUMA; New Me..., Albuquerque N Central PUMA;..., Albuquerque Far NE PUMA; Ne..., Albuquerque Near NE PUMA; N..., Albuquerque SE PUMA; New Me..., Albuquerque SW PUMA; New Me...; Recoded detailed Hispanic origin (HISP): Mexican

Show Total

Employment status recode	Selected Geographies									
	Total	Albuquerque NW PUMA; New Mexico			Albuquerque N Central PUMA; New Mexico			Albuquerque Far NE PUMA; New Mexico		
		Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male	Female	Total Sex (SEX)	Male	Female
▼ Total (7)	196,374	32,500	18,009	14,491	26,475	11,566	14,909	18,648		
N/A (less than 16 years ...)	44,748	7,756	5,725	2,031	4,528	1,419	3,109	4,708		
Civilian employed, at wo...	99,354	17,394	8,510	8,884	15,069	7,865	7,204	10,257		
Civilian employed, with ...	2,241	54	0	54	184	184	0	191		
Unemployed	4,492	1,540	575	965	1,144	236	908	230		
Armed Forces At Work	403	0	0	0	0	0	0	197		
Send Feedback census.data@census.gov With a Jo...	0	0	0	0	0	0	0	0		

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

Custom Table CUSTOMIZE VARIABLES DOWNLOAD / SHARE DETAILS ▾

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

Download table view (.CSV)
   
 Extract raw data (.CSV)
   
 Extract raw data (.JSON)
   
 Include:
   
 \* Person weight
   
 Housing Unit Weight
   
\* weight associated with at least one variable in download

**DOWNLOAD**

Bookmark for your current selections; save to return later or send to someone to share.  
<https://data.census.gov/mdat/#/search?ds=ACSPUMS5Y2021&vv=P>

Query to extract PUMS records for your current selections from the Census Data API.  
<https://api.census.gov/data/2021/acs/acs5/pums?get=PWGTP,PINC>

Query to extract tabular (aggregated) for your current selections from the Census Data API.  
[https://api.census.gov/data/2021/acs/acs5/pums?tabulate=weight\(PWGTP\)&col+JWTRNS\\_RC1&row+ucgid&row+PINC\\_PRC1&ucgid=7950000US3500801,7950000US3500802,7950000US3500803,7950000US3500804,7950000US3500805,7950000US3500806](https://api.census.gov/data/2021/acs/acs5/pums?tabulate=weight(PWGTP)&col+JWTRNS_RC1&row+ucgid&row+PINC_PRC1&ucgid=7950000US3500801,7950000US3500802,7950000US3500803,7950000US3500804,7950000US3500805,7950000US3500806) COPY API TABULATE QUERY

	A	B	C	D	E
1	Source: ACS 5-Year Estimates Public Use Microdata Sample 2021				
2	Weight used: PWGTP				
3	Universe: selected geographies: Albuquerque City (Near North..., Albuquerque City (Far North..., Albuquerque City (Southeast..., Albuquerque City (Central) ..., Albuquerque City (Northwest...				
4	Means of transportation to work recode (JWTRNS_RC1)				
5	Total person's income (signed, use ADJINC to adjust to constant dollars) recode (F	Total	Worked from Home	Other means of transportation	Not a worker
6	-> Total	649612	29708	276416	343488
7	-> Total -> Total Albuquerque City (Far Northeast Heights) PUMA, New Mexico	103850	5773	44469	53608
8	Under \$25,000	26596	917	10263	15416
9	\$25,000 to \$49,999	18571	1185	11644	5742
10	Over \$50,000	32388	3644	22536	6208
11	No Income	26295	27	26	26242
12	-> Total -> Total Albuquerque City (Near Northeast Heights) PUMA, New Mexico	101160	5097	43795	52268
13	Under \$25,000	32544	1125	14298	17121
14	\$25,000 to \$49,999	20904	1173	13851	5880
15	Over \$50,000	23072	2799	15621	4652
16	No Income	24640	0	25	24615
17	-> Total -> Total Albuquerque City (Southeast Heights) PUMA, New Mexico	103642	4539	42755	56348
18	Under \$25,000	26820	1250	17820	17640

# Demo

Example 4:

Poverty Status by American Indian and Alaska Native Tribes and Villages for New Mexico

- 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 – ACS 1-Year Estimates – Public Use Microdata Sample
  - Vintage – 2023
  - Click **Next** in the lower right

The screenshot shows the 'Explore Data' interface from the United States Census Bureau. The main heading is 'Select a Dataset & Vintage'. There are two dropdown menus: 'Select Dataset' with the selected value 'ACS 1-Year Estimates Public Use Microdata Sample' (code ACSPUM1Y) and 'Select Vintage' with the selected value '2023'. A teal 'NEXT' button is located in the bottom right corner. The top navigation bar includes the 'United States Census Bureau' logo and 'BETA' text. A 'Send Feedback' link with the email 'census.data@census.gov' is in the bottom left corner.

- **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 poverty:**
  - Type “POVPIP” in the Variable search box or type “poverty” in the label search box
  - Click **Details** to browse information about this variable
  - Check the box to the left of POVPIP to add the variable to your data cart

The screenshot shows a web interface for searching variables. At the top, there is a search bar with the text "filter by Topic" and a search button labeled "SEARCH". Below the search bar, it says "Showing 1 of 522 Variables" and "Search is not enabled in this beta version". A table lists variables with columns for Variable, Label, Number of Values, and Type. The variable "POVPIP" is selected, and its label "poverty" is highlighted with an orange box. Below the table, there is a "Description" section for "Income-to-poverty ratio recode" and a "Values" section listing three categories: "0 to 500 -- Below 501 percent", "-1 -- 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). Unselect this value to get correct calculation of average for this variable", and "501 -- 501 percent or more". A "DETAILS" link is visible to the right of the variable row.

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

**Description:**  
Income-to-poverty ratio recode

**Values:**

- 0 to 500 -- Below 501 percent
- -1 -- 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). Unselect this value to get correct calculation of average for this variable
- 501 -- 501 percent or more

[DETAILS](#)



- Select variable for American Indian and Alaska Native Tribes and Villages:
  - Select Race and Ethnicity topic in the topic dropdown menu
  - Click **Details** to browse information about RAC2P variable
  - Check the box to the left of RAC2P to add the variable to your data cart

The screenshot shows the 'Race and Ethnicity' topic selected in the dropdown menu. Below the menu, a table lists 14 variables. The RAC2P variable is highlighted with an orange box, and its details are expanded. The details include a description and a list of values.

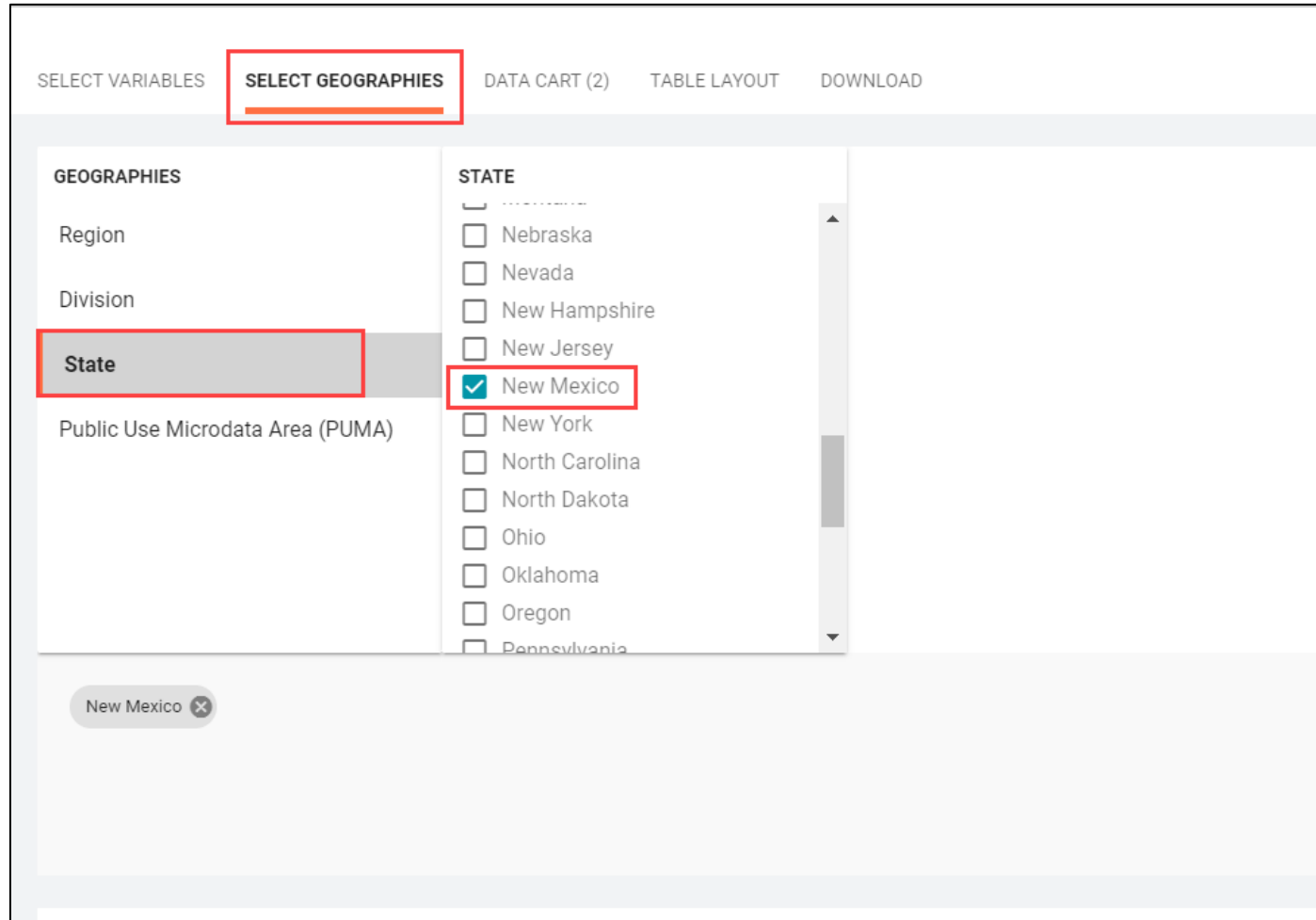
Variable	Label	Number of Values	Type
<input type="checkbox"/> RACAIAN	American Indian and Alaska Native recode (American Indian and Alaska N...	2	Edited Items
<input type="checkbox"/> RACASN	Asian recode (Asian alone or in combination with one or more other races)	2	Edited Items
<input type="checkbox"/> RACBLK	Black or African American recode (Black alone or in combination with one...	2	Edited Items
<input type="checkbox"/> RACNUM	Number of major race groups represented	1	Edited Items
<input type="checkbox"/> RACSOR	Some other race recode (Some other race alone or in combination with o...	2	Edited Items
<input type="checkbox"/> RACWHT	White recode (White alone or in combination with one or more other races)	2	Edited Items
<input type="checkbox"/> RACNH	Native Hawaiian recode (Native Hawaiian alone or in combination with on...	2	Recodes
<input type="checkbox"/> RACPI	Other Pacific Islander recode (Other Pacific Islander alone or in combinati...	2	Recodes
<input type="checkbox"/> RAC1P	Recoded detailed race code	9	Recodes
<input type="checkbox"/> HHLDRAGEP	Age of the householder	2	Estimate
<input type="checkbox"/> HHLDRHISP	Recoded detailed Hispanic origin of the householder	25	Estimate
<input type="checkbox"/> HHLDRRAC1P	Recoded detailed race code of the householder	10	Estimate
<input type="checkbox"/> RAC3P	Recoded detailed race code	100	Recodes
<input type="checkbox"/> RAC2P	Recoded detailed race code	64	Recodes

**Description:**

**Values:**

- 1000 -- White alone
- 3000 -- Black or African American alone
- 4000 -- Chinese, except Taiwanese alone
- 4001 -- Hmong alone
- 4002 -- Japanese alone
- 4003 -- Korean alone

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



- Create recode for POVPIP variable:
  - Move to the Data Cart tab
  - Click the POVPIP variable on the left
  - Select 'Create Custom Group' to create recode for custom income to poverty ratio categories

The screenshot shows the 'Data Cart (2)' tab in a software interface. On the left, under 'Selected Variables (2)', the variable 'POVPIP' is listed with '3 of 3 responses' and a trash icon. Below it is 'RAC2P' with '64 of 64 responses' and a trash icon. On the right, the 'Income-to-poverty ratio recode (POVPIP)' configuration panel is open, showing a '+ CREATE CUSTOM GROUP' button highlighted with an orange border. Below this is a table with columns for 'Include in Universe', 'Response Label', and 'Value'. The table contains three rows: 'Below 501 percent' with a value of 0 and a slider, 'N/A (individuals who are under 15 and are either living in a...)' with a value of -1, and '501 percent or more' with a value of 501. At the bottom of the interface, the dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2023)' with a 'CHANGE' link, and a 'VIEW TABLE' button is visible.

Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	Below 501 percent	0
<input checked="" type="checkbox"/>	N/A (individuals who are under 15 and are either living in a...	-1
<input checked="" type="checkbox"/>	501 percent or more	501

- Create recode for POVPIP variable:
  - Change Group Label to 'Under 250% of Poverty'.
  - Click on the checkbox next to 'Below 501 percent' and edit end range from 500 to 249.
  - Click on the 'Save Group' button.

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

- Selected Variables (3):**
  - POVPIP (3 of 3 responses)
  - RAC2P (64 of 64 responses)
  - POVPIP\_RC1 (1 of 1 responses)
- Income-to-poverty ratio recode recode dialog:**
  - Group Label: Under 250% of Poverty
  - Response Label: Below 501 percent (checked)
  - Value: 249
  - Buttons: CANCEL, SAVE GROUP
- Dataset:** ACS 1-Year Estimates Public Use Microdata Sample (2023)
- Actions:** VIEW TABLE

- **Create recode for POVPIP variable:**

- Your first category, Under 250% of 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)' section of a data tool. On the left, under 'Selected Variables (3)', three variables are listed: POVPIP (3 of 3 responses), RAC2P (64 of 64 responses), and POVPIP\_RC1 (2 of 2 responses). The main area shows a recoding process for 'Income-to-poverty ratio recode recode'. Two categories are visible: 'Not Elsewhere Classified' (VALUES: 250:500, -1, 501) and 'Under 250% of Poverty' (VALUES: 0:249). The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with an orange box. Other buttons include 'AUTO GROUP' and 'VIEW TABLE'. The dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2023)'.

- Create recode for POVPIP variable:
  - Change Group Label to '250% of Poverty or Higher'.
  - Click on the checkboxes next to 'Between 250 and 500' and '501 percent or more'.
  - Click on the 'Save Group' button.

**Selected Variables (3)**

- POVPIP**  
3 of 3 responses
- RAC2P**  
64 of 64 responses
- POVPIP\_RC1**  
2 of 2 responses

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

**250% of Poverty or Higher** Show on table

Group Label: 250% of Poverty or Higher

25 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 250 and 500	250 <span>—</span> 500
<input type="checkbox"/>	N/A (individuals who are under 15 and ar...	-1
<input checked="" type="checkbox"/>	501 percent or more	501

CANCEL **SAVE GROUP**

**Under 250% of Poverty**  
VALUES: 0:249 EDIT GROUP

- Create recode for POVPIP variable:
  - Click **Edit Group** for “Not Elsewhere Classified” to verify and rename the final category

The screenshot displays the 'DATA CART (3)' interface for the variable 'Income-to-poverty ratio recode recode'. On the left, under 'Selected Variables (3)', are 'POVPIP' (3 of 3 responses), 'RAC2P' (64 of 64 responses), and 'POVPIP\_RC1' (3 of 3 responses). The main area shows three groups for the recode variable:

- Not Elsewhere Classified** (VALUES: -1) with an **EDIT GROUP** button highlighted by an orange box.
- Under 250% of Poverty** (VALUES: 0:249) with an **EDIT GROUP** button.
- 250% of Poverty or Higher** (VALUES: 250:500, 501) with an **EDIT GROUP** button.

At the top right, there is an **AUTO GROUP** button. At the bottom left, the dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2023)' with a **CHANGE** link. At the bottom right, there is a **VIEW TABLE** button.

- Create recode for POVPIP variable:
  - Change Group Label to 'Not in Poverty Universe'.
  - Click on the checkbox next to the 'N/A' value.
  - Click on the 'Save Group' button.

**Selected Variables (3)**

- POVPIP**  
3 of 3 responses
- RAC2P**  
64 of 64 responses
- POVPIP\_RC1**  
3 of 3 responses

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

**Not in Poverty Universe** Show on table

Group Label  
Not in Poverty Universe

23 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	N/A (individuals who are under 15 and ar...	-1

CANCEL SAVE GROUP

**Under 250% of Poverty**  
VALUES: 0:249 EDIT GROUP

**250% of Poverty or Higher**  
VALUES: 250-500 501 EDIT GROUP



- 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

**POVPIP**   3 of 3 responses

Columns (1)  
3 columns (maximum 400)

**POVPIP\_RC1**   3 of 3 responses

Rows (1)  
64 rows (maximum 2000)

**RAC2P**   64 of 64 responses

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

**SELECTED GEOGRAPHIES**   1 of 1 responses

**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

Show Total

Recorded detailed race code	Income-to-poverty ratio recode recode (POVPIP_RC1)			
	Total	Under 250% of Poverty	250% of Poverty or Higher	Not in Poverty Universe
▼ ??? (64)	0	0	0	0
White alone	???	???	???	???
Black or African America...	???	???	???	???
Chinese, except Taiwane...	???	???	???	???
Hmong alone	???	???	???	???
Japanese alone	???	???	???	???
Korean alone	???	???	???	???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2023)   [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 1-Year Estimates Public Use Microdata Sample [CHANGE DATASET](#)

**Vintage:**

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

**Weighting:**

**On Columns**

**POVPIP\_RC1**

**Not on Table**

**Selected Geographies**

**On Rows**

**RAC2P**

**"Values in table cells" Options**

**POVPIP**

**Values in table cells:**  Universe: **selected geographies:** New Mexico

Show Total

Recoded detailed race code	Income-to-poverty ratio recode recode (POVPIP_RC1)			
	Total	Under 250% of Poverty	250% of Poverty or Higher	Not in Poverty Universe
∨ Total (64)	2,114,371	961,715	1,113,290	39,366
White alone	1,004,513	386,135	600,610	17,768
Black or African American alone	42,537	19,735	20,677	2,125
Chinese, except Taiwanese alone	5,488	1,828	3,576	84
Hispanic or Latino	102	102	0	0
<a href="#">Send Feedback</a>	1,961	696	1,252	13

<https://data.census.gov/cedsci/>

# Demo

Example 5:

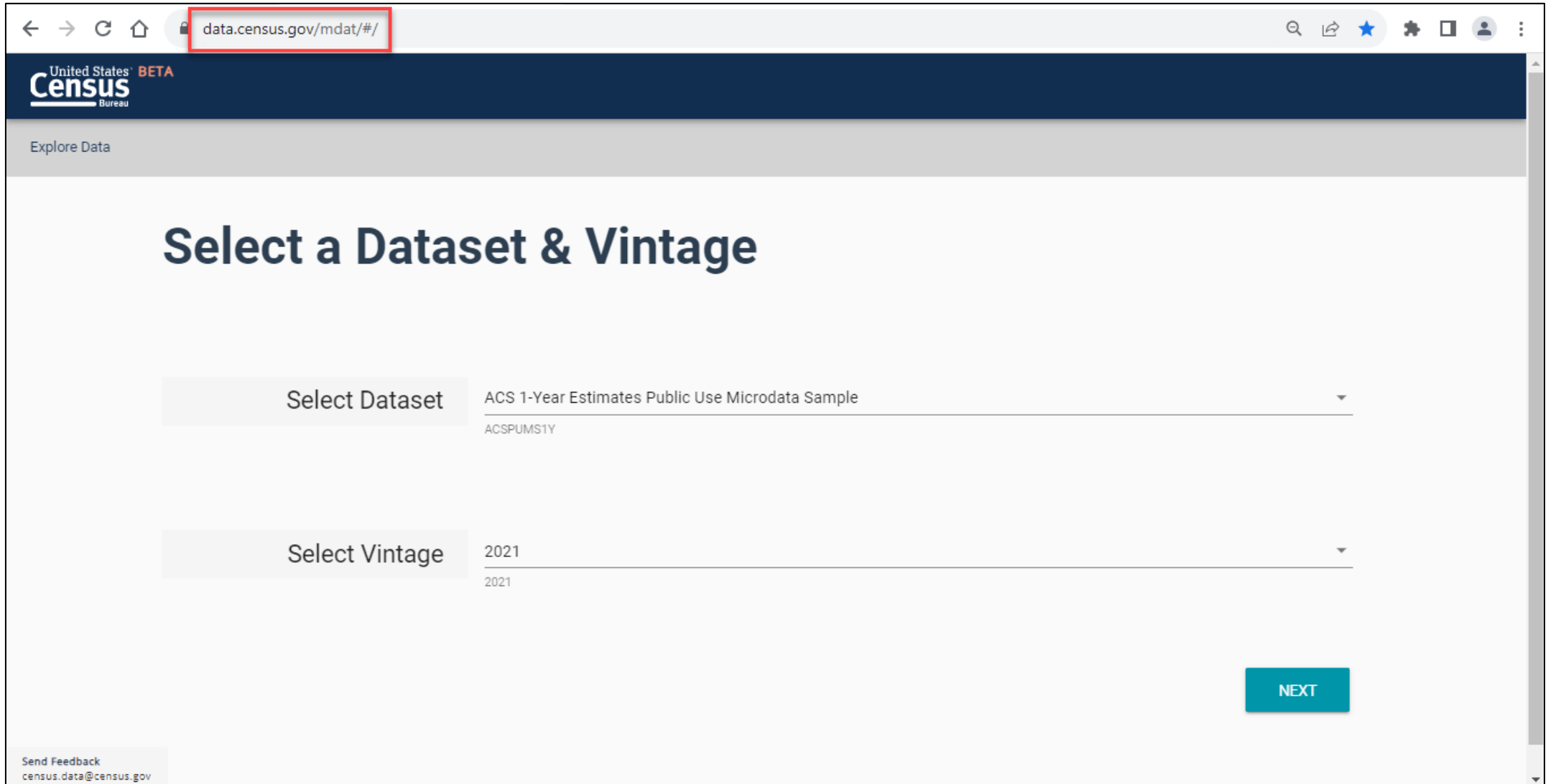
Personal Income by Health Insurance for the United States

**Problem:** We need **income crossed with health insurance for the US**, but table H-01 from CPS ASEC does not have this at the income groupings we need.

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

<b>Table H-01. Health Insurance Coverage Status and Type of Coverage by Selected Characteristics for All People: 2022</b>																	
Information on confidentiality protection, sampling error, nonsampling error, and definitions is available at <a href="https://www2.census.gov/programs-surveys/cps/techdocs/cpsmar23.pdf">https://www2.census.gov/programs-surveys/cps/techdocs/cpsmar23.pdf</a> .																	
Source: U.S. Census Bureau, Current Population Survey, 2023 Annual Social and Economic Supplement (CPS ASEC).																	
(Numbers in thousands, margins of error in thousands or percentage points as appropriate. People as of March of the following year)																	
<b>All Persons</b>																	
Characteristic	Total	Any health insurance				Private health insurance											
						Private total				Employment-based				Direct-purchase			
		Number	Margin of error <sup>1</sup> (±)	Percent	Margin of error <sup>1</sup> (±)	Number	Margin of error <sup>1</sup> (±)	Percent	Margin of error <sup>1</sup> (±)	Number	Margin of error <sup>1</sup> (±)	Percent	Margin of error <sup>1</sup> (±)	Number	Margin of error <sup>1</sup> (±)	Percent	Margin of error <sup>1</sup> (±)
Total	330,000	304,000	746	92.1	0.2	216,500	1,399	65.6	0.4	179,800	1,369	54.5	0.4	32,800	661	9.9	0.
<b>Household Income</b>																	
Less than \$25,000	35,520	30,830	750	86.8	0.7	8,509	360	24.0	0.9	4,541	252	12.8	0.7	3,688	237	10.4	0.
\$25,000 to less than \$50,000	50,020	43,880	920	87.7	0.6	20,020	490	40.0	0.8	13,050	407	26.1	0.7	6,412	308	12.8	0.
\$50,000 to less than \$75,000	50,720	45,580	898	89.9	0.6	29,310	688	57.8	1.0	22,580	611	44.5	1.0	6,023	328	11.9	0.
\$75,000 to less than \$100,000	42,720	39,210	927	91.8	0.6	29,720	747	69.6	1.0	24,820	699	58.1	1.1	4,318	259	10.1	0.
\$100,000 to less than \$125,000	36,250	33,970	847	93.7	0.6	28,020	791	77.3	1.0	24,140	706	66.6	1.2	3,430	247	9.5	0.
\$125,000 to less than \$150,000	26,690	25,550	823	95.7	0.5	22,270	737	83.4	1.0	19,670	676	73.7	1.2	2,272	203	8.5	0.
\$150,000 or more	88,050	85,020	1,501	96.6	0.3	78,680	1,422	89.4	0.5	70,970	1,327	80.6	0.6	6,658	342	7.6	0.

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

## 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 ▼   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 Total persons income:**
  - Type “PTOTVAL” in the Variable search box or type “income” in the label search box
  - Click **Details** to browse information about this variable
  - Check the box to the left of PTOTVAL to add the variable to your data cart

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

filter by Topic   Search is not enabled in this beta version

Showing 1 of 1049 Variables

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

**Description:**  
Total persons income

**Values:**  
• -99999 to 99999999 -- -99999:99999999

[^ DETAILS](#)



## ■ Select variable for Health Insurance:

- Type “COV” in the Variable search box or type “insurance” in the label search box
- Check the box to the left of COV 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

Showing 4 of 1049 Variables Selected: 2 variables

	Variable	Label	Number of Values	Type	
<input checked="" type="checkbox"/>	COV	Any health insurance coverage last year	3	Edited Items	<a href="#">^ DETAILS</a>
<b>Description:</b>		Any health insurance coverage last year			
<b>Values:</b>		<ul style="list-style-type: none"><li>• 0 -- Infant born after calendar year</li><li>• 1 -- Yes</li><li>• 2 -- No</li></ul>			
<input type="checkbox"/>	NOW_COV	Currently covered by health insurance coverage	2	Edited Items	<a href="#">v DETAILS</a>
<input type="checkbox"/>	NOW_HCOV	Any health insurance coverage in the HH (Now)	3	Edited Items	<a href="#">v DETAILS</a>
<input type="checkbox"/>	HCOV	Any health insurance coverage in the HH	3	Edited Items	<a href="#">v DETAILS</a>

- **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' (which is highlighted with a red box and an orange underline), 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. To the right of these tabs is a teal double-down arrow icon. Below the navigation bar, the main content area is titled 'GEOGRAPHIES' and contains a single entry, '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. A vertical scrollbar is visible on the right edge of the main content area.

- Categorize your variable:
  - Move to the **Data Cart** tab
  - Click the **COV** variable on the left
  - Uncheck the box for Infant born after calendar year

The screenshot shows the 'DATA CART (2)' tab in a software interface. On the left, under 'Selected Variables (2)', the 'COV' variable is highlighted with a red box. On the right, under 'Any health insurance coverage last year (COV)', a table lists response options. The 'Infant born after calendar year' row has an unchecked checkbox in the 'Include in Universe' column, which is also highlighted with a red box. The 'Yes' and 'No' rows have checked checkboxes.

Include in Universe	Response Label	Value
<input type="checkbox"/>	Infant born after calendar year	0
<input checked="" type="checkbox"/>	Yes	1
<input checked="" type="checkbox"/>	No	2

- Categorize (recode) your variable:
  - Click the PTOTVAL variable on the left
  - Click **Create Custom Group** to begin specifying your income ranges

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

- Navigation tabs: SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (2)**, TABLE LAYOUT, DOWNLOAD
- Selected Variables (2):
  - PTOTVAL** (1 of 1 responses) - highlighted with a red box
  - COV (2 of 3 responses)
- Variable Details for PTOTVAL:
  - Section: **Total persons income (PTOTVAL)** (DETAILS ^)
  - Button: **+ CREATE CUSTOM GROUP** (highlighted with a red box)
  - Table with columns: Include in Universe, Response Label, Value
  - Row 1:  Include in Universe, -99999:999999999, -99999
  - Row 2:  [blank], [blank], [slider from 999999999 to 999999999]
- Dataset: CPS Annual Social and Economic (March) Supplement (202303) [CHANGE](#)
- Button: **VIEW TABLE**

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

- Check the box next to the response label and specify your income range, such as 1 to 199,999
- Click into **Group label** and type a label for the first category you want to create (e.g. Under \$199,999)
- Click **Save Group**

The screenshot shows the 'DATA CART (3)' interface for recoding the variable 'Total persons income'. On the left, a list of 'Selected Variables (3)' includes PTOTVAL, COV, and PTOTVAL\_RC1. The main area is titled 'Total persons income recode' and shows a group labeled 'Under \$199,999'. A table below the group header has columns for 'Add to Group', 'Response Label', and 'Value'. The first row has a checked 'Add to Group' box, a response label of '-99999:999999999', and a value range from '1' to '199999'. A 'SHOW ON TABLE' toggle is active. At the bottom right, there are 'CANCEL' and 'SAVE GROUP' buttons. The dataset is identified as 'CPS Annual Social and Economic (March) Supplement (202303)'.

- **Categorize (recode) your variable:**
  - Your first category, Under \$199,999, 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: PTOTVAL (1 of 1 responses), COV (2 of 3 responses), and PTOTVAL\_RC1 (2 of 2 responses). The main area is titled 'Total persons income recode' and contains two categories: 'Not Elsewhere Classified' (VALUES: -99999:0, 200000:99999999) and 'Under \$199,999' (VALUES: 1:199999). Each category has an 'EDIT GROUP' button. The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red rectangle. At the top right, there is an 'AUTO GROUP' button. At the bottom left, the dataset is identified as 'CPS Annual Social and Economic (March) Supplement (202303)' with a 'CHANGE' link. At the bottom right, there is a 'VIEW TABLE' button.

## ■ Categorize (recode) your variable:

- Check the second box and specify your income range, such as 200,000 to 299,999
- Click into **Group label** and type a label for the second category you want to create (e.g. \$200,000 to \$299,999)
- Click **Save Group**

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

Selected Variables (3)

PTOTVAL  
1 of 1 responses

COV  
2 of 3 responses

PTOTVAL\_RC1  
2 of 2 responses

### Total persons income recode

AUTO GROUP

\$200,000 to \$299,999   Show on table

Group Label  
\$200,000 to \$299,999

Add to Group	Response Label	Value
<input type="checkbox"/>	Between -99999 and 0	-99999
<input checked="" type="checkbox"/>	Between 200000 and 9999999	200000

CANCEL   **SAVE GROUP**

Under \$199,999  
VALUES: 1:199999   EDIT GROUP

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

VIEW TABLE

- **Categorize (recode) your variable:**
  - Your second category, \$200,000 to \$299,999, appears just below “Under \$199,999”
  - 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)

<b>PTOTVAL</b> 1 of 1 responses	🗑️
<b>COV</b> 2 of 3 responses	🗑️
<b>PTOTVAL_RC1</b> 3 of 3 responses	🗑️

**Total persons income recode**   **AUTO GROUP**

<b>Not Elsewhere Classified</b> VALUES: -99999;0, 300000;99999999	<b>EDIT GROUP</b>
<b>Under \$199,999</b> VALUES: 1;199999	<b>EDIT GROUP</b>
<b>\$200,000 to \$299,999</b> VALUES: 200000;299999	<b>EDIT GROUP</b>

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



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

- Check the second box and specify your income range, such as 300,000. If we leave the second value range, it will show all incomes above \$300,000
- Click into **Group label** and type a label for the third category you want to create (e.g. Over \$300,000)
- Click **Save Group**

The screenshot displays the 'DATA CART (3)' interface for recoding the variable 'Total persons income'. On the left, under 'Selected Variables (3)', the variable 'PTOTVAL\_RC1' is selected. The main area shows the configuration for 'Total persons income recode'. The 'Over \$300,000' group is being edited, with a 'Group Label' of 'Over \$300,000' and a value range from 300,000 to 999,999. The 'Add to Group' checkbox is checked, and the 'Save Group' button is highlighted. Below this, the 'Under \$199,999' and '\$200,000 to \$299,999' groups are visible with their respective value ranges. The dataset is identified as 'CPS Annual Social and Economic (March) Supplement (202303)'.

- **Categorize (recode) your variable:**
  - Your third category, Over \$300,000, appears just below “\$200,000 to \$299,999”
  - 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: PTOTVAL (1 of 1 responses), COV (2 of 3 responses), and PTOTVAL\_RC1 (4 of 4 responses). The main area shows the variable 'Total persons income recode' with four categories: 'Not Elsewhere Classified' (VALUES: -99999:0), 'Under \$199,999' (VALUES: 1:199999), '\$200,000 to \$299,999' (VALUES: 200000:299999), and 'Over \$300,000' (VALUES: 300000:99999999). Each category has an 'EDIT GROUP' button. The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red box. At the top right, there is an 'AUTO GROUP' button. At the bottom left, the dataset is identified as 'CPS Annual Social and Economic (March) Supplement (202303)' with a 'CHANGE' link. At the bottom right, there is a 'VIEW TABLE' button.

- **Categorize (recode) your variable:**
  - Check the box and click into **Group label** and type a label for the category (e.g. No Income)
  - Click **Save Group**

The screenshot shows the 'DATA CART (3)' interface for the variable 'Total persons income recode'. On the left, a list of selected variables includes PTOTVAL, COV, and PTOTVAL\_RC1. The main area displays the 'No Income' group being edited. The 'Group Label' field is highlighted with a red box and contains the text 'No Income'. Below this, a table shows the 'Add to Group' checkbox checked, with a response label 'Between -99999 and 0' and a value range from -99999 to 0. The 'Save Group' button is also highlighted with a red box. Other groups listed include 'Under \$199,999', '\$200,000 to \$299,999', and 'Over \$300,000'. The dataset is identified as 'CPS Annual Social and Economic (March) Supplement (202303)'.

- 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 health insurance in 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

**PTOTVAL**   1 of 1 responses

**Columns (1)**  
2 columns (maximum 400)

**COV**   2 of 3 responses

**Rows (0)**  
rows (maximum 2000)

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

**PTOTVAL\_RC1**   4 of 4 responses

**Table Preview**

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

**Values in table cells:**

Average of Total persons income (PTOTVAL)

Universe: Any health insurance coverage last year (COV): all except: Infant born after calendar year

Any health insurance coverage last year (COV)

Yes	No
???	??

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

- Edit Table Layout:
  - Move Income to Rows:
    - Click, hold and drag PTOTVAL\_RC1 on the left side of the page up to the rows heading. This will give you a table layout with your income recodes 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

PTOTVAL   1 of 1 responses

Columns (1)  
2 columns (maximum 400)

COV   2 of 3 responses

Rows (0)  
rows (maximum 2000)

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

PTOTVAL\_RC1   4 of 4 responses

### Table Preview

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

Values in table cells:   Average of Total persons income (PTOTVAL)

Universe: Any health insurance coverage last year (COV): all except: Infant born after calendar year

Any health insurance coverage last year (COV)	
Yes	No
???	??

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

- Choose type of values in table cells
  - Change the “Value in table cells” option from “Average of Total Persons income” 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

**PTOTVAL** 1 of 1 responses

Columns (1)  
2 columns (maximum 400)

**COV** 2 of 3 responses

Rows (1)  
4 rows (maximum 2000)

**PTOTVAL\_RC1** 4 of 4 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:**

Universe: **Any health insurance coverage last year (COV):** all except: infant born after calendar year

Average of Total persons income (PTOTVAL)

Total persons income recode	Yes	No
Under \$199,999	???	???
\$200,000 to \$299,999	???	???
Over \$300,000	???	???
No income	???	???

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 (1)  
Determines order in list; cannot move to row/column

PTOTVAL 1 of 1 responses

Columns (1)  
2 columns (maximum 400)

COV 2 of 3 responses

Rows (1)  
4 rows (maximum 2000)

PTOTVAL\_RC1 4 of 4 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: Any health insurance coverage last year (COV): all except: Infant born after calendar year

Show Total

Total persons income recode	Any health insurance coverage last year (COV)			
	Total	Yes	No	
▼ ??? (4)		0	0	0
Under \$199,999		???	???	???
\$200,000 to \$299,999		???	???	???
Over \$300,000		???	???	???
No income		???	???	???

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](#)

**Vintage:** MAR 2023

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

**Weighting:** Weight, March supplement - Person

**On Columns** +

**COV**

**Not on Table** +

**On Rows** +

**PTOTVAL\_RC1**

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

**PTOTVAL**

**Values in table cells:** Count

**Universe:** Any health insurance coverage last year (COV): all except: Infant born after calendar year

Show Total

Total persons income recode	Any health insurance coverage last year (COV)		
	Total	Yes	No
▼ Total (4)	329,969,902	304,033,546	25,936,356
Under \$199,999	230,353,164	213,134,694	17,218,470
\$200,000 to \$299,999	4,892,003	4,831,496	60,507
Over \$300,000	3,714,112	3,654,019	60,093
No Income	91,010,623	82,413,337	8,597,286

Send Feedback [census\\_data@census.gov](mailto:census_data@census.gov)



# Exercise

Example 6:

Reason for not working by sex in New Mexico

(by using CPS Annual Social and Economic (March) Supplement)

# View Table

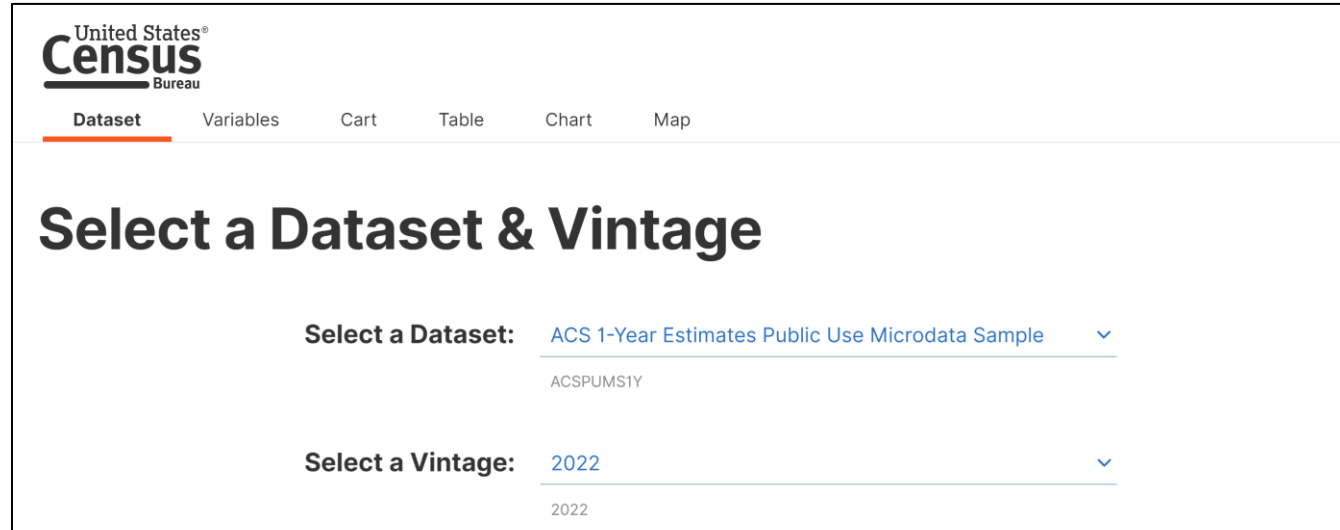
Note that the site automatically chooses a weight for you. You do have the option to change the weight if you want.

The screenshot shows the 'Custom Table' interface on the United States Census Bureau website. The interface includes a header with the logo and navigation links. Below the header, there are sections for 'Dataset', 'Vintage', 'Geography', and 'Weighting'. The 'Geography' section shows '1 geographies selected' and a 'CHANGE GEOGRAPHY' link, which is highlighted by a red arrow. The 'Weighting' section shows 'Weight, March supplement - Person'. Below these sections are 'On Columns' and 'On Rows' sections, each with a plus icon. The 'On Columns' section has 'A\_SEX' and 'Selected Geographies'. The 'On Rows' section has 'RSNNOTW'. Below these are 'Not on Table' and 'Values in table cells' sections. The 'Values in table cells' section has a dropdown menu set to 'Count'. The 'Universe' is 'selected geographies: New Mexico'. There is a 'Show Total' toggle. The main table displays data for 'Work experience, Reason for not working Y/N - Person' across 'Total', 'Male', and 'Female' columns. The table includes a 'Send Feedback' link and an email address 'census.data@census.gov'.

Work experience, Reason for not working Y/N - Person	Demographics, Sex (A_SEX)		
	Total	Male	Female
Total (7)	2,082,710	1,026,697	1,056,013
Not In Universe	1,323,364	703,673	619,691
Ill or disabled	130,646	64,833	65,813
Retired	356,619	154,738	201,881
Retired - out of home or family	96,407	11,103	85,304
Send Feedback census.data@census.gov	142,461	66,747	75,714

# MDAT Design Updates

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



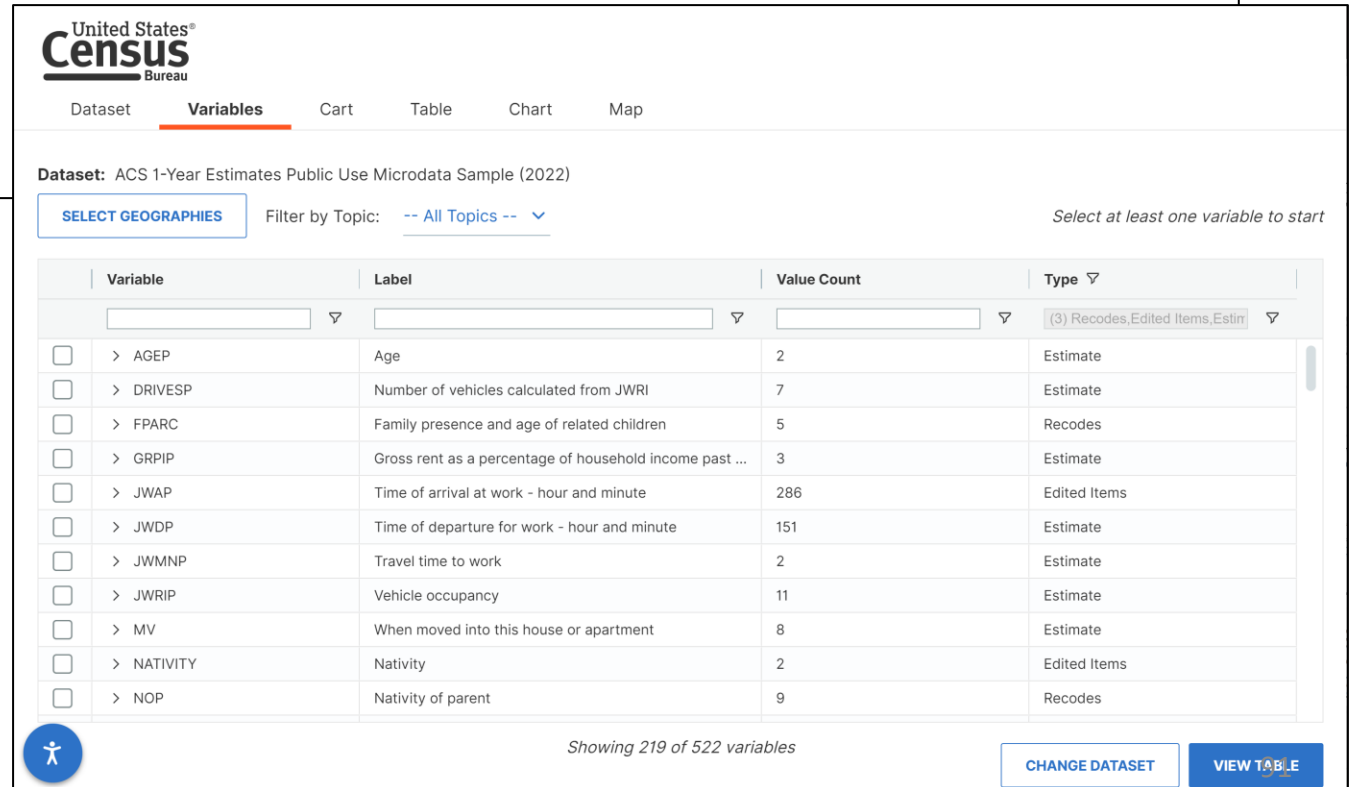
United States<sup>®</sup>  
**Census**  
Bureau

Dataset Variables Cart Table Chart Map

## Select a Dataset & Vintage

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

Select a Vintage: 2022



United States<sup>®</sup>  
**Census**  
Bureau

Dataset Variables Cart Table Chart Map

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

[SELECT GEOGRAPHIES](#) Filter by Topic: -- All Topics -- *Select at least one variable to start*

Variable	Label	Value Count	Type
<input type="checkbox"/> > AGEP	Age	2	Estimate
<input type="checkbox"/> > DRIVESP	Number of vehicles calculated from JWRI	7	Estimate
<input type="checkbox"/> > FPARC	Family presence and age of related children	5	Recodes
<input type="checkbox"/> > GRPIP	Gross rent as a percentage of household income past ...	3	Estimate
<input type="checkbox"/> > JWAP	Time of arrival at work - hour and minute	286	Edited Items
<input type="checkbox"/> > JWDP	Time of departure for work - hour and minute	151	Estimate
<input type="checkbox"/> > JWMNP	Travel time to work	2	Estimate
<input type="checkbox"/> > JWRIP	Vehicle occupancy	11	Estimate
<input type="checkbox"/> > MV	When moved into this house or apartment	8	Estimate
<input type="checkbox"/> > NATIVITY	Nativity	2	Edited Items
<input type="checkbox"/> > NOP	Nativity of parent	9	Recodes

Showing 219 of 522 variables

[CHANGE DATASET](#) [VIEW TABLE](#)

# Guidance for Data Users

// [Census.gov](#) / [Data](#) / [data.census.gov Resources](#) / [Guidance for Data Users](#) / [How-to Materials for Using the Microdata Access](#)

## Within Guidance for Data Users

[Frequently Asked Questions](#)

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

[How-to Materials for Using the Census API](#)

[How-to Materials for Using the Microdata Access](#)

[Video Tutorials](#)

[Webinars](#)

## How-to Materials for Using the Microdata Access

Share



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

Share

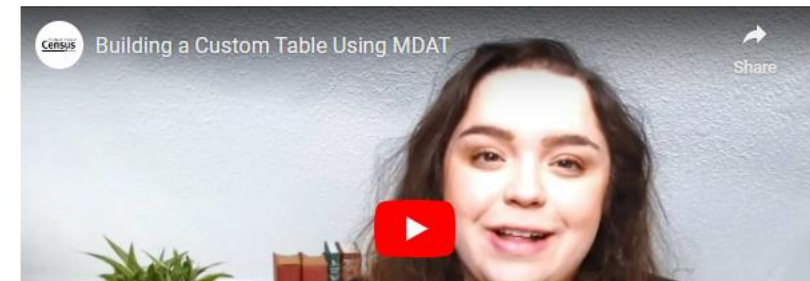


Watch this video to learn how to use Microdata Access (MDAT) through [data.census.gov](#), and create customized tabulation without the need for special programming or statistical software.

### 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>

# Email Updates

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- Census Data API
- Developer Newsletter

Select your state: \*

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Data.census.gov Newsletter – January 2023

**United States<sup>®</sup> Census Bureau**

**Data.census.gov Newsletter – January 2023**

Population Pyramid: Population by Age and Sex

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**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

EXPLORE DATA ON DATA.CENSUS.GOV

## Stay Connected

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

Feedback: Email comments to  
[census.data@census.gov](mailto:census.data@census.gov)

Help improve this site

## 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)

Join tomorrow's presentation for  
[data.census.gov](https://data.census.gov) and few additional  
MDAT examples!