

# Microdata Access on [data.census.gov](https://data.census.gov)

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# Microdata = PUMS Files

## Public Use Microdata

### Anonymized

- No personally identifiable information
- Edits to protect confidentiality

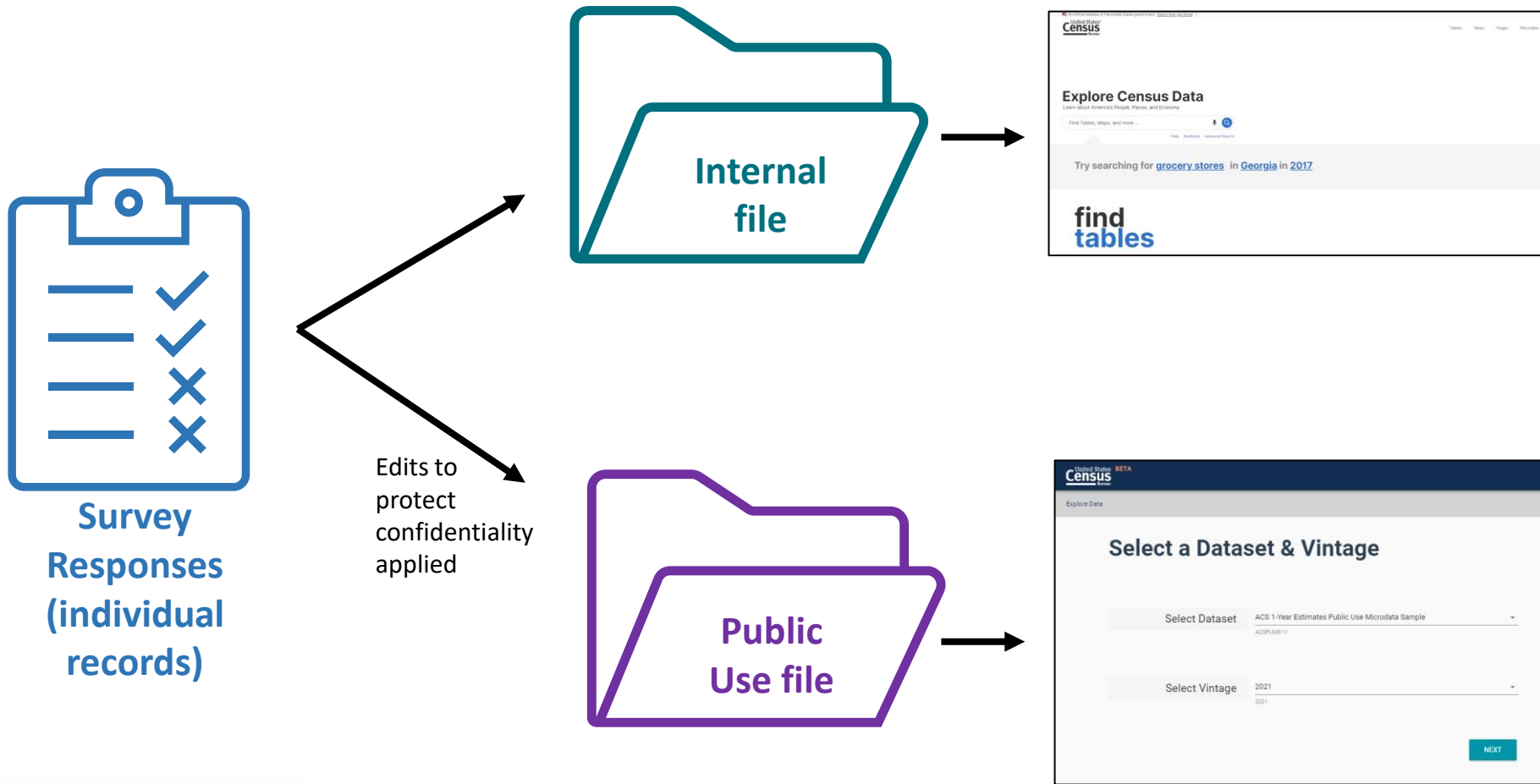
### Accessible

- [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?



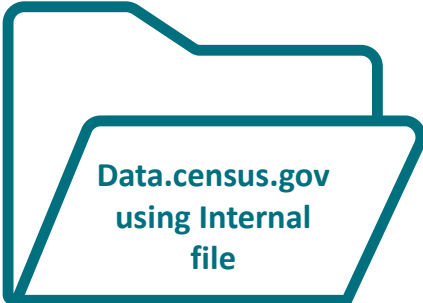
## data.census.gov

- 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	28,075	±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	
<b>RT</b>	<b>Character 1</b> Record Type H .Housing Record or Group Quarters Unit P .Person Record
<b>SERIALNO</b>	<b>Character 13</b> Housing unit/GQ person serial number 2021GQ0000001..2021GQ9999999 .GQ Unique identifier 2021HU0000001..2021HU9999999 .HU Unique identifier
<b>DIVISION</b>	<b>Character 1</b> 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)
<b>PUMA</b>	<b>Character 5</b> 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
<b>REGION</b>	<b>Character 1</b>

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

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

### Data and Documents

 [Data Dictionary \[1.0 MB\]](#)

#### ASEC 2022 Public Use Data Dictionary

Record Type: Household

Variable	Length	Position	Range	Variable	Length	Position	Range
<b>Topic: Record Identifiers</b>				<b>Topic: Geography</b>			
<b>SubTopic: Record Type</b>				<b>SubTopic: Geography</b>			
<b>HRECORD</b>	1	1	(1;1)	<b>GEDIV</b>	1	42	(0;9)
Record Type. Used to identify records on ascii file. Values: 1 = HOUSEHOLD RECORD Universe: All Households				Record - Census division of current residence Values: 1 = New England 2 = Middle Atlantic 3 = East North Central 4 = West North Central 5 = South Atlantic 6 = East South Central 7 = West South Central 8 = Mountain 9 = Pacific Universe: All Households			
<b>SubTopic: Match Keys</b>							
<b>FILEDATE</b>	6	2	0	<b>GEREG</b>	1	43	(1;4)
File creation date in MMDYY format Values: Date Universe: All records				Region Values: 1 = Northeast 2 = Midwest 3 = South 4 = West Universe: All Households			
<b>H_HHNUM</b>	1	8	(1;8)	<b>GESTFIPS</b>	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			
<b>H_IDNUM</b>	20	9	(NA)				
Household id number. Same as characters 1-20 of PERIDNUM.							

# Data Dictionaries

## American Community Survey

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

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

### HOUSING RECORD

#### HOUSING RECORD-BASIC VARIABLES

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

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

#### HOUSING RECORD-HOUSING UNIT VARIABLES

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

#### PERSON RECORD-PERSON VARIABLES

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

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

# Data Dictionaries

## American Community Survey

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

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

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

POVPIP

Numeric

3

Income-to-poverty ratio recode

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



# Demo

**Example 1:**

**Poverty status by disability in New York state**

# Table B18131 – Age by Ratio of Income to Poverty Level in the Past 12 Months by Disability Status and Type

United States Census Bureau

Search / [Microphone] [Magnifying Glass] Advanced Search

All **Tables** Maps Profiles Pages Apps Help FAQ Feedback

**B18131** | Age by Ratio of Income to Poverty Level in the Past 12 Months by Disability Status and Type

American Community Survey | Universe: Civilian noninstitutionalized population for whom ... +1

Notes | Geos | Topics 2 | Codes 123 | Dataset | Year | Columns | More Tools

United States		Estimate	Margin of Error
Label			
▼ Total:		324,481,864	±30,312
▼ Under 5 years:		18,053,650	±22,114
▼ Under .50:		1,581,132	±35,795
▼ With a disability:		18,115	±3,146
With a hearing difficulty		11,456	±2,310
With a vision difficulty		11,171	±2,371
No disability		1,563,017	±34,815
▼ .50 to .99:		1,559,975	±32,845
▼ With a disability:		16,871	±2,846
With a hearing difficulty		9,635	±2,088

Columns | Cell/Column Notes

**Prefabricated ACS tables poverty ratios by disability, but what if we need a different poverty break?**

- 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 "United States BETA Census Bureau". The main heading is "Select a Dataset & Vintage". Below this, there are two selection fields:

- Select Dataset:** A dropdown menu with the selected option "ACS 1-Year Estimates Public Use Microdata Sample" and the identifier "ACSPUMS1Y" below it.
- Select Vintage:** A dropdown menu with the selected option "2022" and the identifier "2022" below it.

A teal "NEXT" button is located at the bottom right of the selection area.

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

The screenshot shows a web interface for selecting data. It features two dropdown menus. The first is labeled 'Select Dataset' and has 'ACS 1-Year Estimates Public Use Microdata Sample' selected, with 'ACSPUMS1Y' written below it. The second is labeled 'Select Vintage' and has '2022' selected, with '2022' written below it. A teal button labeled 'NEXT' is located in the bottom right corner. Red rectangular boxes highlight the selected text in both dropdowns and the 'NEXT' button.

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

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

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

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

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

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

- **Select variable for Income to Poverty Ratio:**
  - Type “POVPIP” in the Variable search box or type “poverty” in the label search box
  - Check the box to the left of POVPIP 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. "Income-to-poverty ratio recode (POVPIP)"

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

Showing 1 of 522 Variables    Selected: 1 variable (1 column, 1 row)

Variable	Label	Number of Values	Type
<input type="checkbox"/> POVPIP	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)
- 501 -- 501 percent or more

^ DETAILS

Uni  
Cel

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

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

Variable	Label	Number of Values	Type
<input type="text" value="dis"/>	<input type="text" value="disability"/>	<input type="text" value=""/>	(3) Edited Items, Estimate, Recd
<input checked="" type="checkbox"/>	DIS	Disability recode	2 Recodes

**Description:**  
Disability recode

**Values:**

- 1 -- With a disability
- 2 -- Without a disability

[^ DETAILS](#)

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2022) [CHANGE](#) [VIEW TABLE](#)

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

The screenshot shows the 'SELECT GEOGRAPHIES' interface. At the top, there are navigation tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (highlighted with a red box), 'DATA CART (2)', 'TABLE LAYOUT', and 'DO'. Below the tabs, the interface is split into two panes. The left pane, titled 'GEOGRAPHIES', lists 'Region', 'Division', 'State' (highlighted with a red box), and 'Public Use Microdata Area (PUMA)'. The right pane, titled 'STATE', lists states with checkboxes: Nevada, New Hampshire, New Jersey, New Mexico, New York (checked and highlighted with a red box), North Carolina, North Dakota, Ohio, and Oklahoma. At the bottom, the dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link.



- 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 interface with the following elements:

- Navigation tabs: SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (2)**, TABLE LAYOUT, DOWNLOAD.
- Selected Variables (2):
  - POVPIP** (3 of 3 responses)
  - DIS (2 of 2 responses)
- Income-to-poverty ratio recode (POVPIP) section:
  - + CREATE CUSTOM GROUP** button
  - Table with columns: Include in Universe, Response Label, Value.
- Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2022) **CHANGE**
- VIEW TABLE** button

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 ...	-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.

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

**POVPIP**  
3 of 3 responses

**DIS**  
2 of 2 responses

**POVPIP\_RC1**  
1 of 1 responses

Group Label  
Under 250% of Poverty

21 / 60

<input type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Below 501 percent	0 ————— 249
<input type="checkbox"/>	N/A (individuals who are under 15 an...	-1
<input type="checkbox"/>	501 percent or more	501

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2022)   [CHANGE](#)

- **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)' interface. On the left, under 'Selected Variables (3)', the variable 'POVPIP' is listed with '3 of 3 responses'. Below it, 'DIS' is listed with '2 of 2 responses'. At the bottom, 'POVPIP\_RC1' is partially visible. The main area shows a recode titled 'Income-to-poverty ratio recode recode' with an 'AUTO GROUP' button. Two categories are listed: 'Not Elsewhere Classified' with values '250:500, -1, 501' and 'Under 250% of Poverty' with values '0:249'. Each category has an 'EDIT GROUP' button. The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red rectangle. At the bottom, the dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link and a 'VIEW TABLE' button.

- 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.

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

**POVPIP**  
3 of 3 responses

**DIS**  
2 of 2 responses

**POVPIP\_RC1**  
2 of 2 responses

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
<input type="checkbox"/>	N/A (individuals who are under 15 an...	-1
<input checked="" type="checkbox"/>	501 percent or more	501

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

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

The screenshot displays a data cart interface with the following components:

- Navigation:** SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (3)**, TABLE LAYOUT, DOWNLOAD.
- Selected Variables (3):**
  - POVPIP**: 3 of 3 responses
  - DIS**: 2 of 2 responses
  - POVPIP\_RC1**
- Income-to-poverty ratio recode recode** (with **AUTO GROUP** button):
  - Not Elsewhere Classified**: VALUES: -1 (with **EDIT GROUP** button highlighted in red)
  - Under 250% of Poverty**: VALUES: 0:249 (with **EDIT GROUP** button)
  - 250% of Poverty or Higher**: VALUES: 250:500, 501 (with **EDIT GROUP** button)
- Dataset:** ACS 1-Year Estimates Public Use Microdata Sample (2022) (with **CHANGE** button)
- 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.

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

- Navigation tabs: SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (3)**, TABLE LAYOUT, DOWNLOAD.
- Variable list on the left:
  - POVPIP (3 of 3 responses)
  - DIS (2 of 2 responses)
  - POVPIP\_RC1 (3 of 3 responses)**
- Group configuration panel for 'Not in Poverty Universe':
  - Group Label: Not in Poverty Universe
  - Count: 23 / 60
  - Table with columns: Add to Group, Response Label, Value.
  - Row 1:  Add to Group, N/A (individuals who are under 15 an..., -1
- Buttons: CANCEL, **SAVE GROUP**
- Footer: Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2022) 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 DIS variable in the Columns and the Selected Geographies in the Rows
  - Drag **Selected Geographies** up to Columns to display it above the DIS variable

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

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

POVPIP   3 of 3 responses

Columns (1)  
2 columns (maximum 400)

DIS   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)

POVPIP\_RC1   3 of 3 responses

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

Average of Income-to-poverty ratio recode (POVPIP)

	Disability recode (DIS)	
Selected Geographies	With a disability	Without a disability
New York		???

Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2022)   [CHANGE](#)   [VIEW TABLE](#)

- Edit Table Layout:
  - Move Poverty variable to rows:
    - Click, hold and drag **POVPIP\_RC1** up to the Rows heading.

The screenshot displays the 'TABLE LAYOUT' tab in a data analysis tool. The interface is divided into several sections:

- Navigation:** 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (3)', 'TABLE LAYOUT' (highlighted), and 'DOWNLOAD'.
- Left Panel (Options):**
  - VALUES IN TABLE CELLS Options (1):** 'POVPIP' (3 of 3 responses).
  - Columns (2):** 'SELECTED GEOGRAPHIES' (1 of 1 responses) and 'DIS' (2 of 2 responses).
  - Rows (0):** 'rows (maximum 2000)'. A red arrow points to this section.
  - Not on table (1):** 'POVPIP\_RC1' (3 of 3 responses), which is highlighted with a red box.
- Right Panel (Table Preview):**
  - Universe:** selected geographies: New York
  - Variable:** Average of Income-to-poverty ratio recode (POVPIP)
  - Selected Geographies:** New York
  - Disability recode (DIS):** With a disability, Without a disability
  - Table Content:** A table with two columns and one row containing '???' in both cells.
- Footer:** 'Dataset: ACS 1-Year Estimates Public Use Microdata Sample (2022) CHANGE' and a 'VIEW TABLE' button.



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

The screenshot shows the 'TABLE LAYOUT' tab in a data analysis tool. The interface includes a top navigation bar with 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (3)', 'TABLE LAYOUT', and 'DOWNLOAD'. A left sidebar contains configuration options: 'Values in table cells' (1), 'Columns' (2), 'SELECTED GEOGRAPHIES' (1), and 'DIS' (2). The main area displays 'Values in table cells:' with a dropdown menu open, showing 'Count' as the selected option. Below the dropdown, a table structure is visible with columns for 'Income-to-poverty ratio recode' (subdivided into 'With a disability' and 'Without a disability') and rows for 'New York' and 'Disability recode (DIS)'. A 'VIEW TABLE' button is located at the bottom right. The dataset is identified as 'ACS 1-Year Estimates Public Use Microdata Sample (2022)'.

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

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

**POVPIP** 3 of 3 responses

Columns (2)  
2 columns (maximum 400)

**SELECTED GEOGRAPHIES** 1 of 1 responses

**DIS** 2 of 2 responses

Rows (1)  
3 rows (maximum 2000)

**POVPIP\_RC1** 3 of 3 responses

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

Show Total

	Selected Geographies		
	New York		
	Disability recode (DIS)		
Income-to-poverty ratio recode	Total Disability recode (DIS)	With a disability	Without a disability
▼ ??? (3)	0	0	0
Under 250% of Poverty	???	???	???
250% of Poverty or High...	???	???	???
Not in Poverty Universe	???	???	???

Dataset: ACS 1-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.

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

**Vintage:** 2022

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

**Weighting:** PUMS person weight

**On Columns** +

**Selected Geographies** **DIS**

**On Rows** +

**POVPIP\_RC1**

**Not on Table** +

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

**POVPIP**

**Values in table cells:** Count Universe: selected geographies: New York

Show Total

Selected Geographies				
New York				
Disability recode (DIS)				
Income-to-poverty ratio recode recode	Total Disability recode (DIS)	With a disability	Without a disability	
▼ Total (3)	19,677,151	2,637,594	17,039,557	
Under 250% of Poverty	6,829,551	1,323,794	5,505,757	
250% of Poverty or Higher	12,352,948	1,171,499	11,181,449	
Not in Poverty Universe	494,652	142,301	352,351	

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# Dual Vintages for 2022 5-Year Public Use Microdata Areas (PUMAs)

# What are Public Use Microdata Areas (PUMAS)?

- Non-overlapping
- **Statistical** geographic areas
- Partition each state or equivalent entity into geographic areas containing **no fewer than 100,000 people each**
- Cover the **entirety** of the United States, Puerto Rico and Guam
- Created for the tabulation and dissemination of
  - Decennial Census and American Community Survey (ACS) Public Use Microdata Sample (PUMS)
  - Puerto Rico Community Survey (PRCS)

# What are Public Use Microdata Areas (PUMAS)?

- Delineation of new PUMAs occurs **after** the completion of the decennial census as part of a program involving the State Data Centers (SDCs)
- Created by using the latest decennial census population counts/census tracts

<https://www.census.gov/programs-surveys/geography/guidance/geo-areas/pumas.html>

# Dual Vintages

- **2022 5-year estimates are the first to use both 2010 and 2020 PUMA boundaries**
  - **2022 5-year estimates comprised of 2018, 2019, 2020, 2021, and 2022**
    - **2018 – uses 2010 PUMA boundaries**
    - **2019 – uses 2010 PUMA boundaries**
    - **2020 – uses 2010 PUMA boundaries**
    - **2021 – uses 2010 PUMA boundaries**
    - **2022 – uses 2020 PUMA boundaries**
  - **2023 5-year estimates comprised of 2019, 2020, 2021, 2022, and 2023**
    - **2019 – uses 2010 PUMA boundaries**
    - **2020 – uses 2010 PUMA boundaries**
    - **2021 – uses 2010 PUMA boundaries**
    - **2022 – uses 2020 PUMA boundaries**
    - **2023 – uses 2020 PUMA boundaries**

# Dual Vintages Continue Until Release of 2026 5-Year PUMS

- **2022 5-year estimates** comprised of 2018, 2019, 2020, 2021, and 2022
  - 2018 – uses 2010 PUMA boundaries
  - 2019 – uses 2010 PUMA boundaries
  - 2020 – uses 2010 PUMA boundaries
  - 2021 – uses 2010 PUMA boundaries
  - 2022 – uses 2020 PUMA boundaries
- **2023 5-year estimates** comprised of 2019, 2020, 2021, 2022, and 2023
  - 2019 – uses 2010 PUMA boundaries
  - 2020 – uses 2010 PUMA boundaries
  - 2021 – uses 2010 PUMA boundaries
  - 2022 – uses 2020 PUMA boundaries
  - 2023 – uses 2020 PUMA boundaries
- **2024 5-year estimates** comprised of 2020, 2021, 2022, 2023, and 2024
  - 2020 – uses 2010 PUMA boundaries
  - 2021 – uses 2010 PUMA boundaries
  - 2022 – uses 2020 PUMA boundaries
  - 2023 – uses 2020 PUMA boundaries
  - 2024 – uses 2020 PUMA boundaries
- **2025 5-year estimates** comprised of 2021, 2022, 2023, 2024, and 2025
  - 2021 – uses 2010 PUMA boundaries
  - 2022 – uses 2020 PUMA boundaries
  - 2023 – uses 2020 PUMA boundaries
  - 2024 – uses 2020 PUMA boundaries
  - 2025 – uses 2020 PUMA boundaries
- **2026 5-year estimates** comprised of 2022, 2023, 2024, 2025, and 2026
  - 2022 – uses 2020 PUMA boundaries
  - 2023 – uses 2020 PUMA boundaries
  - 2024 – uses 2020 PUMA boundaries
  - 2025 – uses 2020 PUMA boundaries
  - 2026 – uses 2020 PUMA boundaries

No more dual  
vintages until  
2030 Census

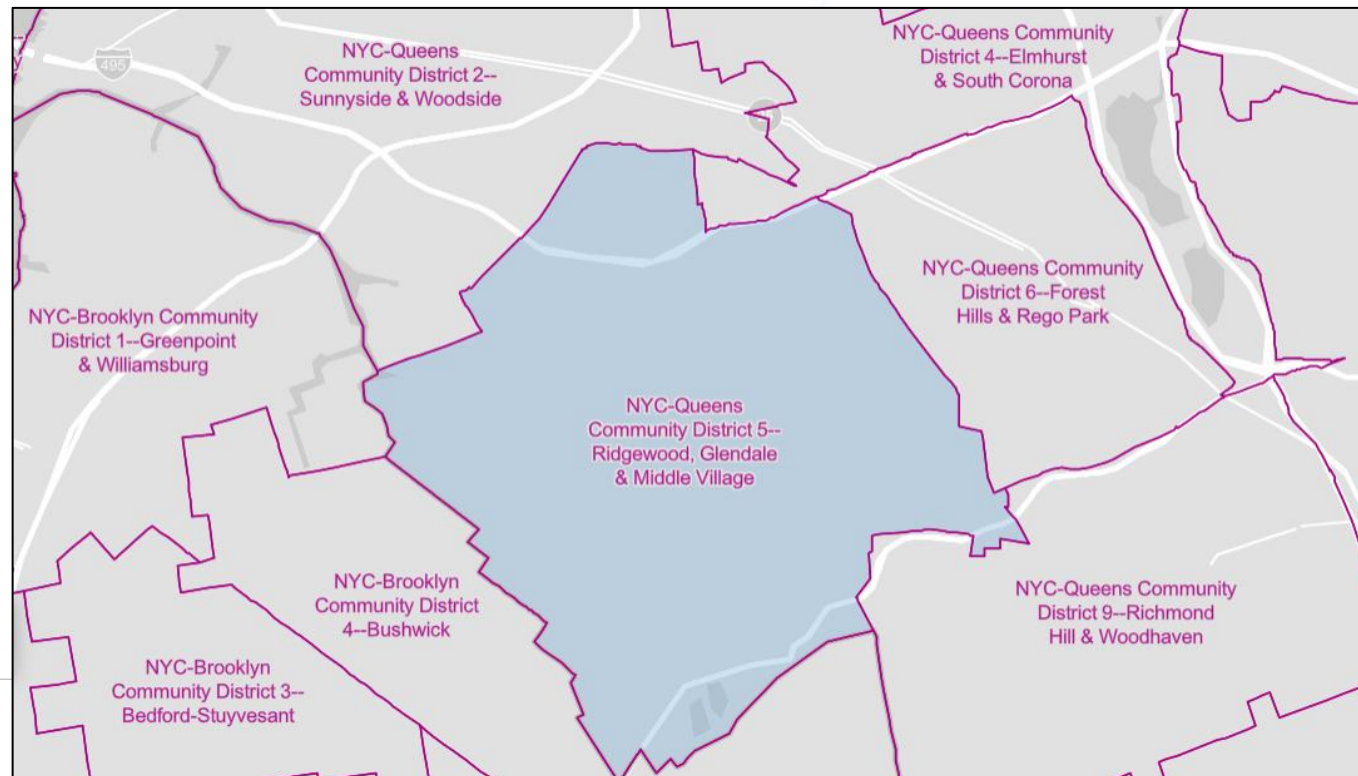


# 2010 PUMA 04110 in New York

## NYC-Queens Community District 5—Ridgewood, Glendale, and Middle Village

### 2010 PUMA Names File

36	04108	NYC-Queens Community District 6--Forest Hills & Rego Park
36	04109	NYC-Queens Community District 2--Sunnyside & Woodside
36	04110	NYC-Queens Community District 5--Ridgewood, Glendale & Middle Village
36	04111	NYC-Queens Community District 9--Richmond Hill & Woodhaven
36	04112	NYC-Queens Community District 12--Jamaica, Hollis & St. Albans

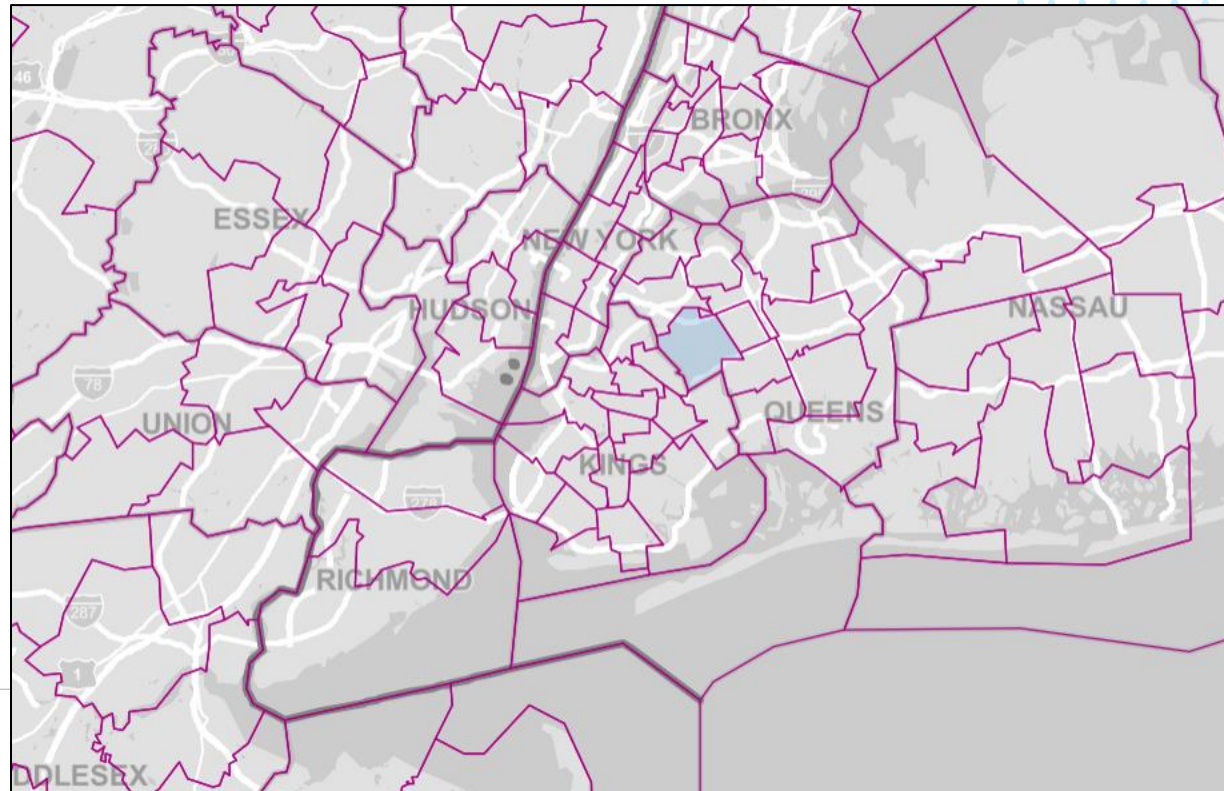


# 2010 PUMA 04110 in New York

## NYC-Queens Community District 5—Ridgewood, Glendale, and Middle Village

### 2010 PUMA Names File

36	04108	NYC-Queens Community District 6--Forest Hills & Rego Park
36	04109	NYC-Queens Community District 2--Sunnyside & Woodside
36	04110	NYC-Queens Community District 5--Ridgewood, Glendale & Middle Village
36	04111	NYC-Queens Community District 9--Richmond Hill & Woodhaven
36	04112	NYC-Queens Community District 12--Jamaica, Hollis & St. Albans

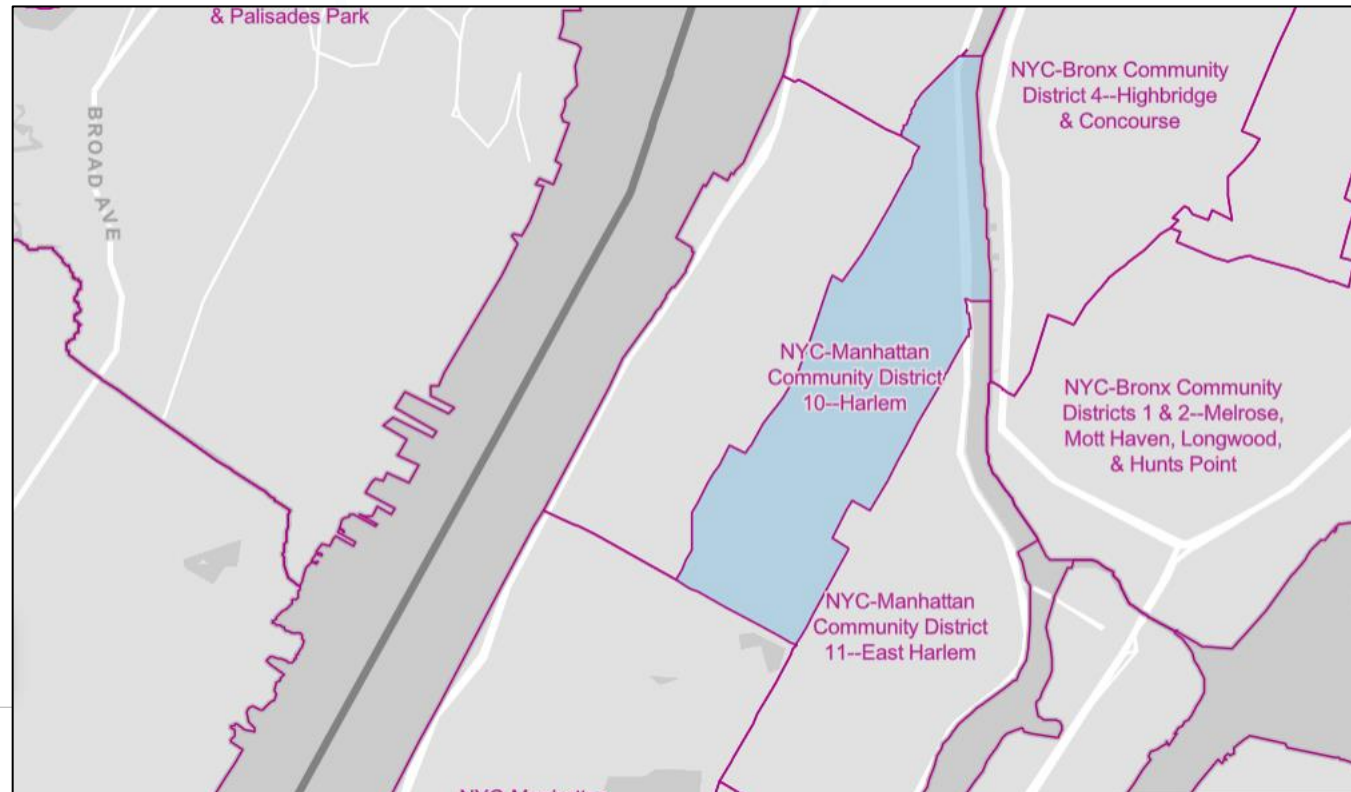


# 2020 PUMA 04110 in New York

## NYC-Manhattan Community District 10—Harlem

### 2020 PUMA Names File

36	04108	NYC-Manhattan Community District 8--Upper East Side & Roosevelt Island
36	04109	NYC-Manhattan Community District 9--Morningside Heights & Hamilton Heights
36	04110	NYC-Manhattan Community District 10--Harlem
36	04111	NYC-Manhattan Community District 11--East Harlem
36	04112	NYC-Manhattan Community District 12--Washington Heights & Inwood
36	04121	NYC-Manhattan Community Districts 1 & 2--Financial District & Greenwich Vill

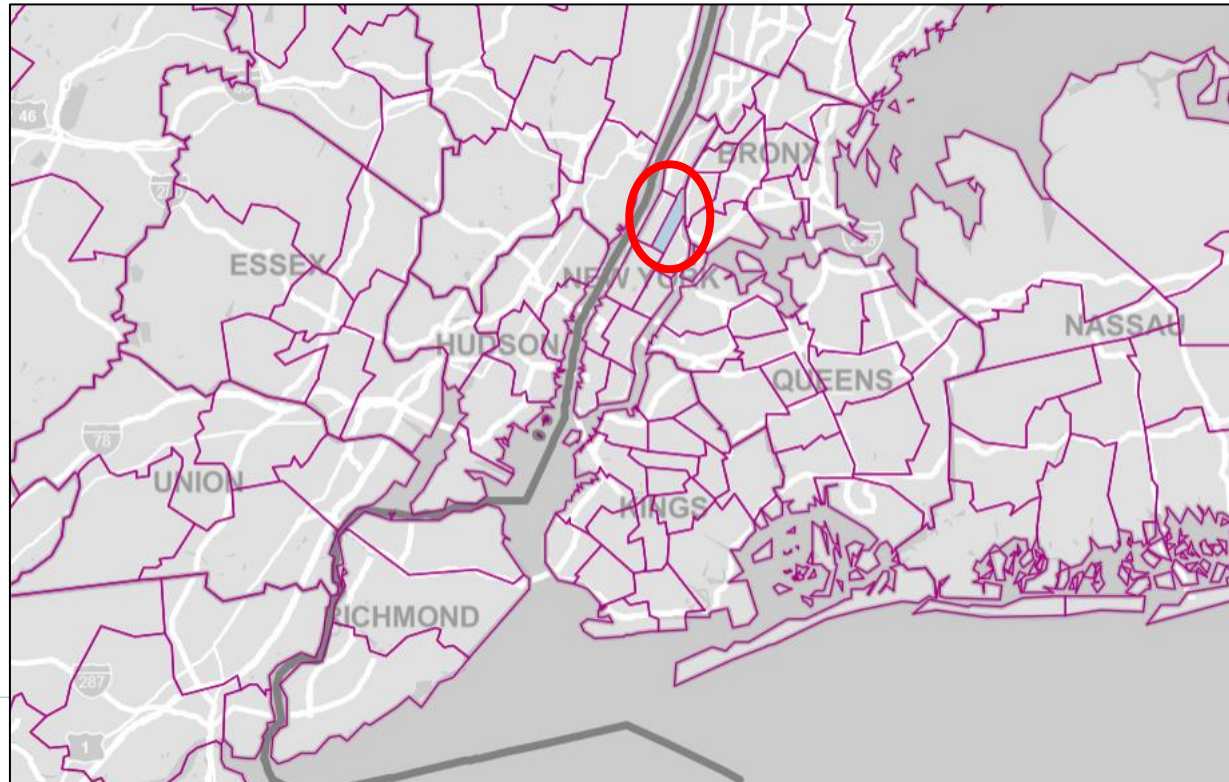




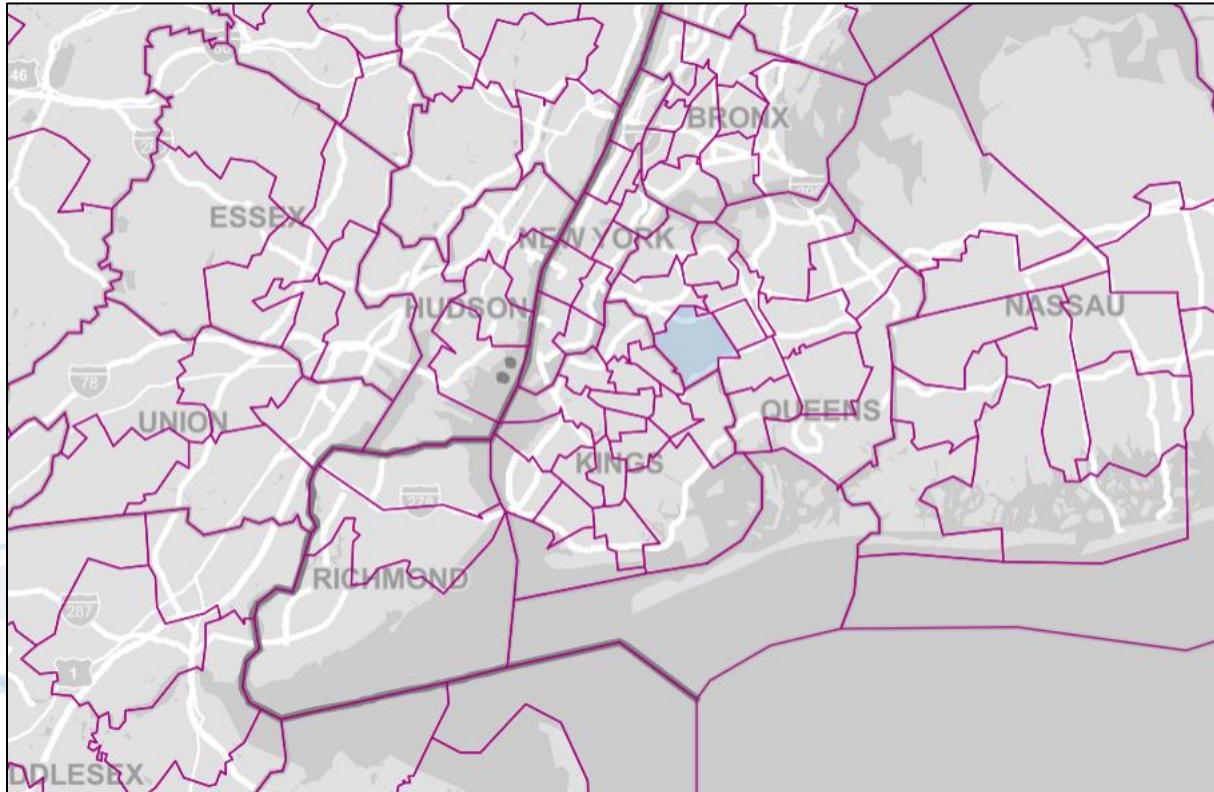
# 2020 PUMA 04110 in New York NYC-Manhattan Community District 10—Harlem

## 2020 PUMA Names File

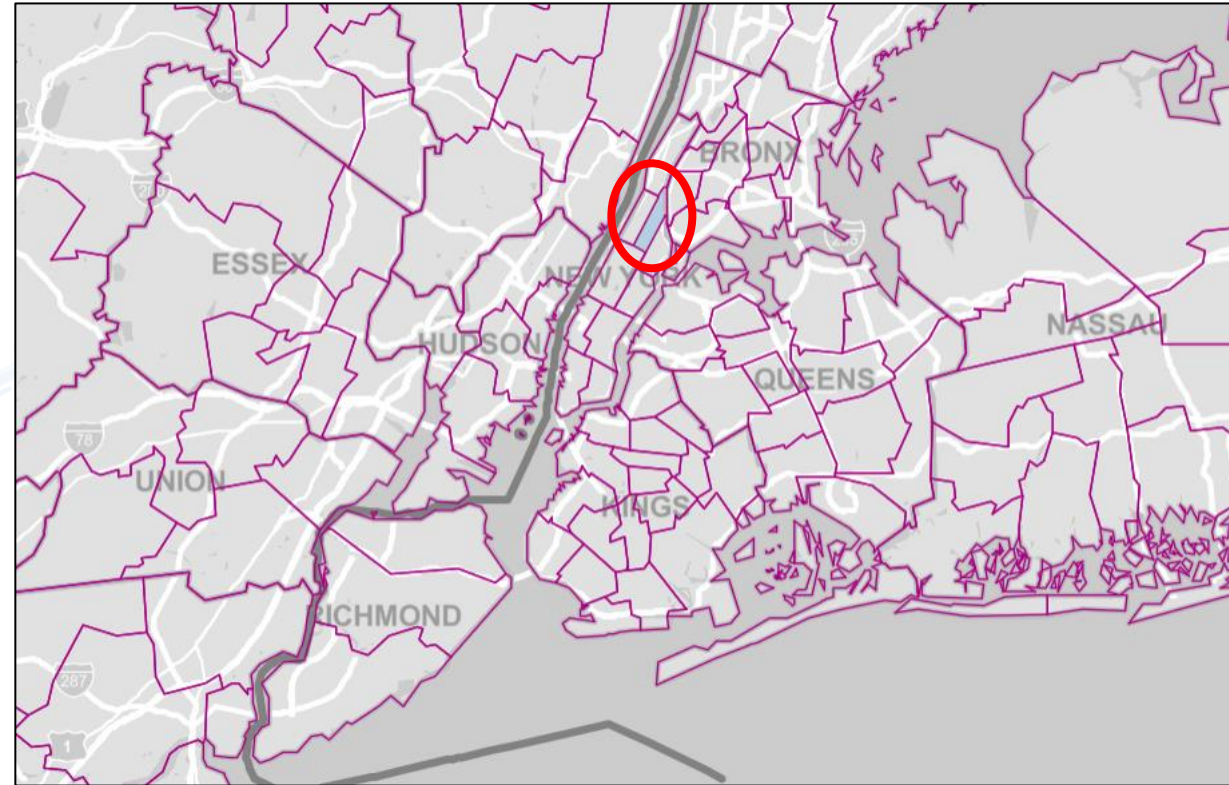
36	04108	NYC-Manhattan Community District 8--Upper East Side & Roosevelt Island
36	04109	NYC-Manhattan Community District 9--Morningside Heights & Hamilton Heights
36	04110	NYC-Manhattan Community District 10--Harlem
36	04111	NYC-Manhattan Community District 11--East Harlem
36	04112	NYC-Manhattan Community District 12--Washington Heights & Inwood
36	04121	NYC-Manhattan Community Districts 1 & 2, Financial District & Greenwich Vill



# 2010 PUMA 04110 in New York NYC-Queens Community District 5— Ridgewood, Glendale, and Middle Village

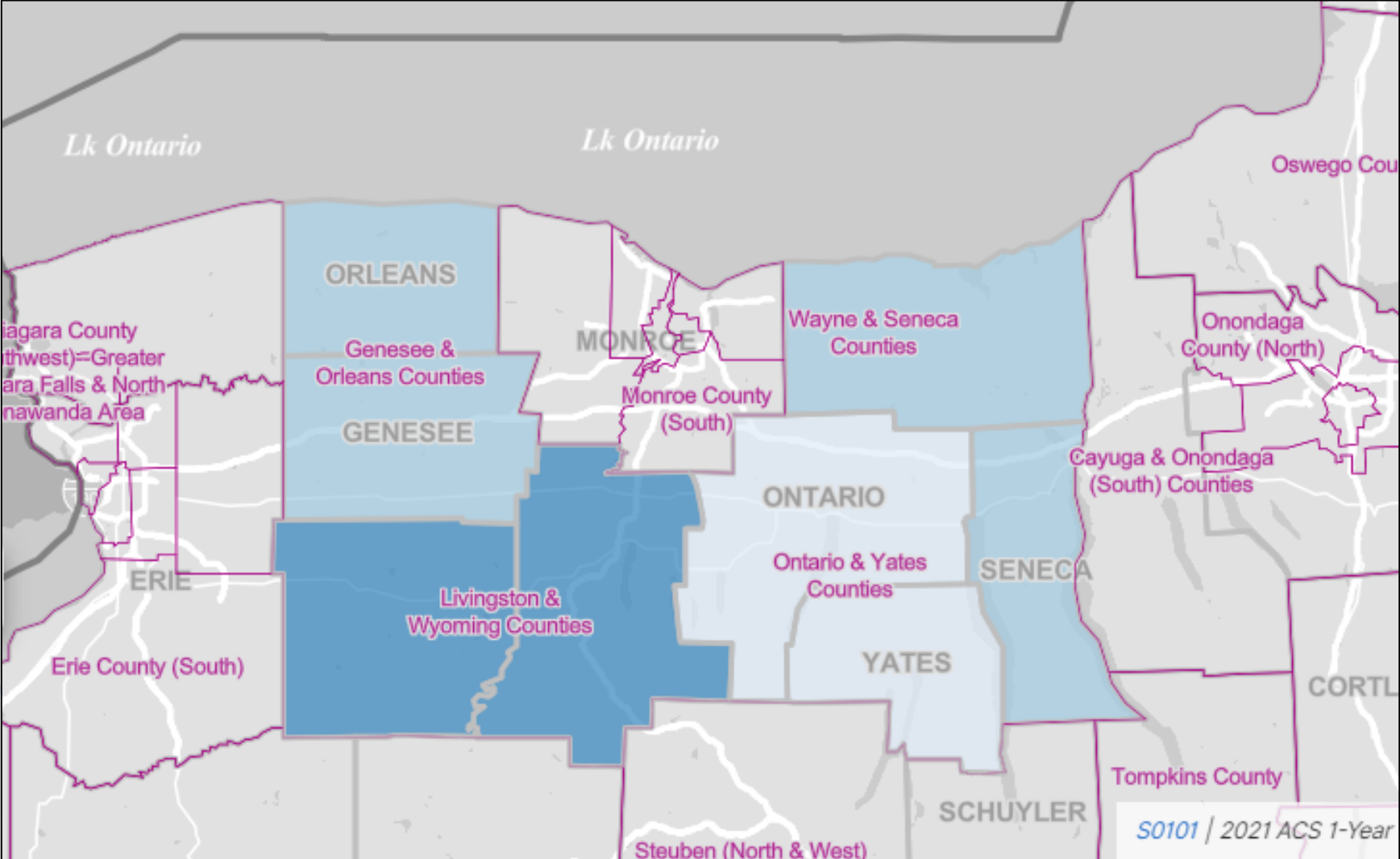


# 2020 PUMA 04110 in New York vs. NYC-Manhattan Community District 10—Harlem

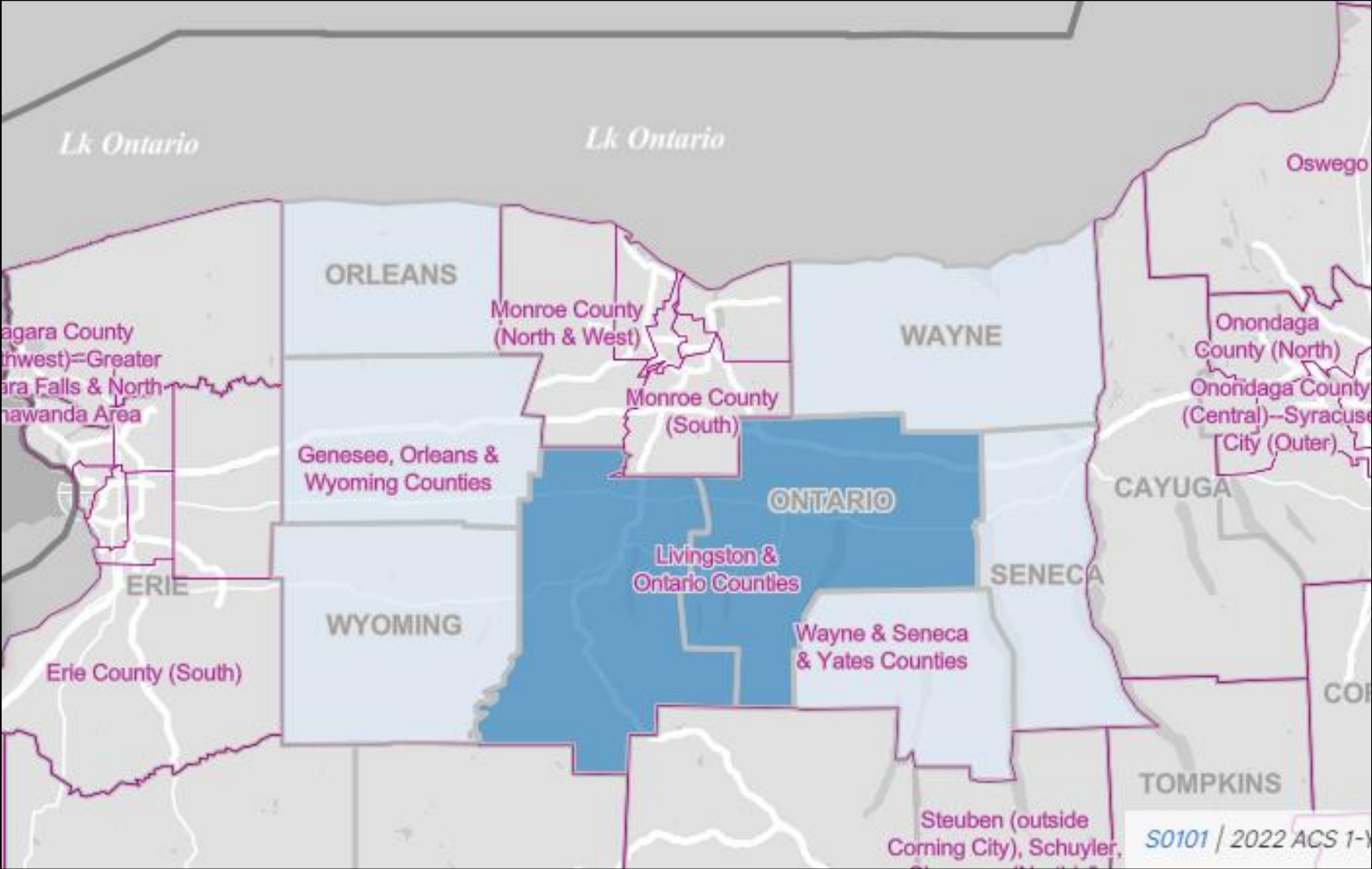




# 2021 Map of PUMAs near Lake Ontario (Using 2010 PUMA Boundaries)



# 2022 Map of PUMAs near Lake Ontario (Using 2020 PUMA Boundaries)



## 2010 IDs and Names vs. 2020 IDs and Names for PUMAs near Lake Ontario

2010 ID	2010 Name	2020 ID	2020 Name
01000	Genessee & Orleans Counties	01000	Genessee, Orleans, & Wyoming Counties
01300	Livingston & Wyoming Counties	01300	Livingston & Ontario Counties
01400	Ontario & Yates Counties		
00800	Wayne & Seneca Counties	00800	Wayne & Seneca & Yates Counties



# 2010 PUMA Names vs. 2020 PUMA Names

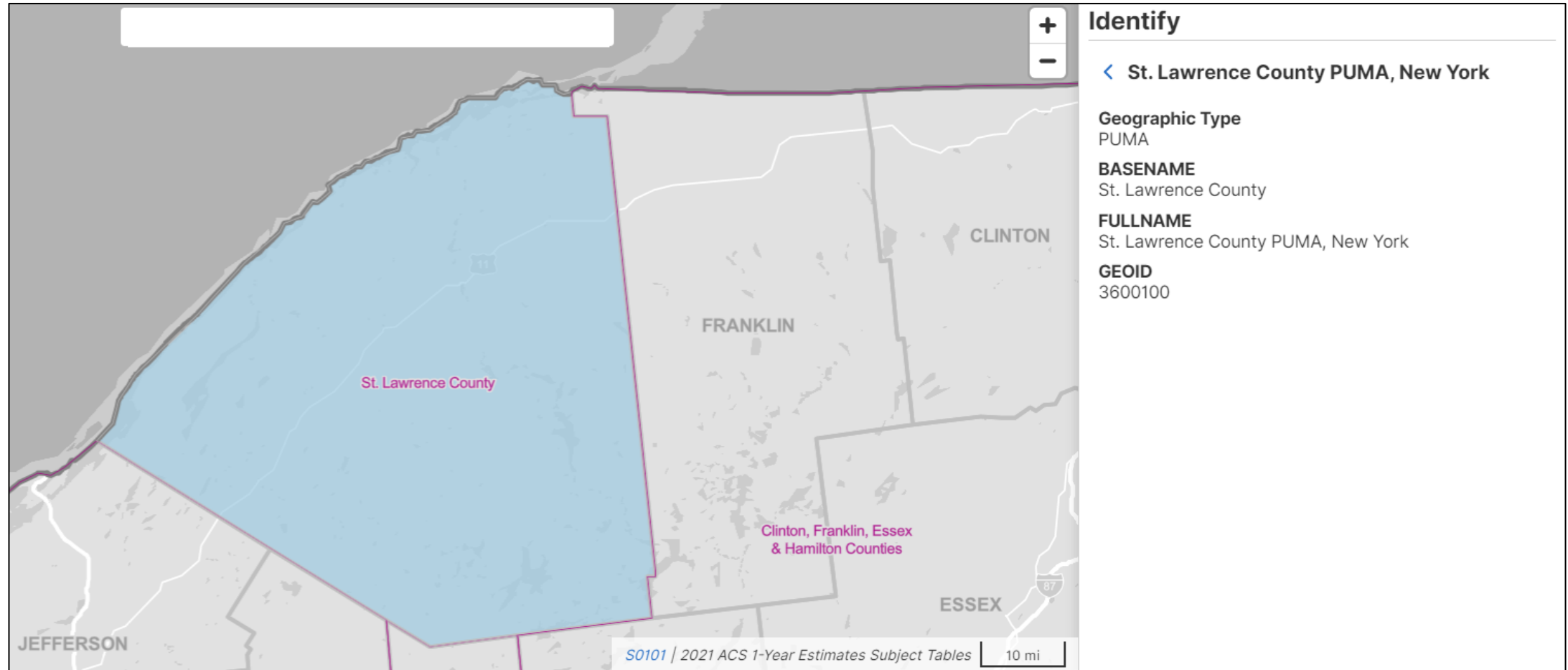


# Demo

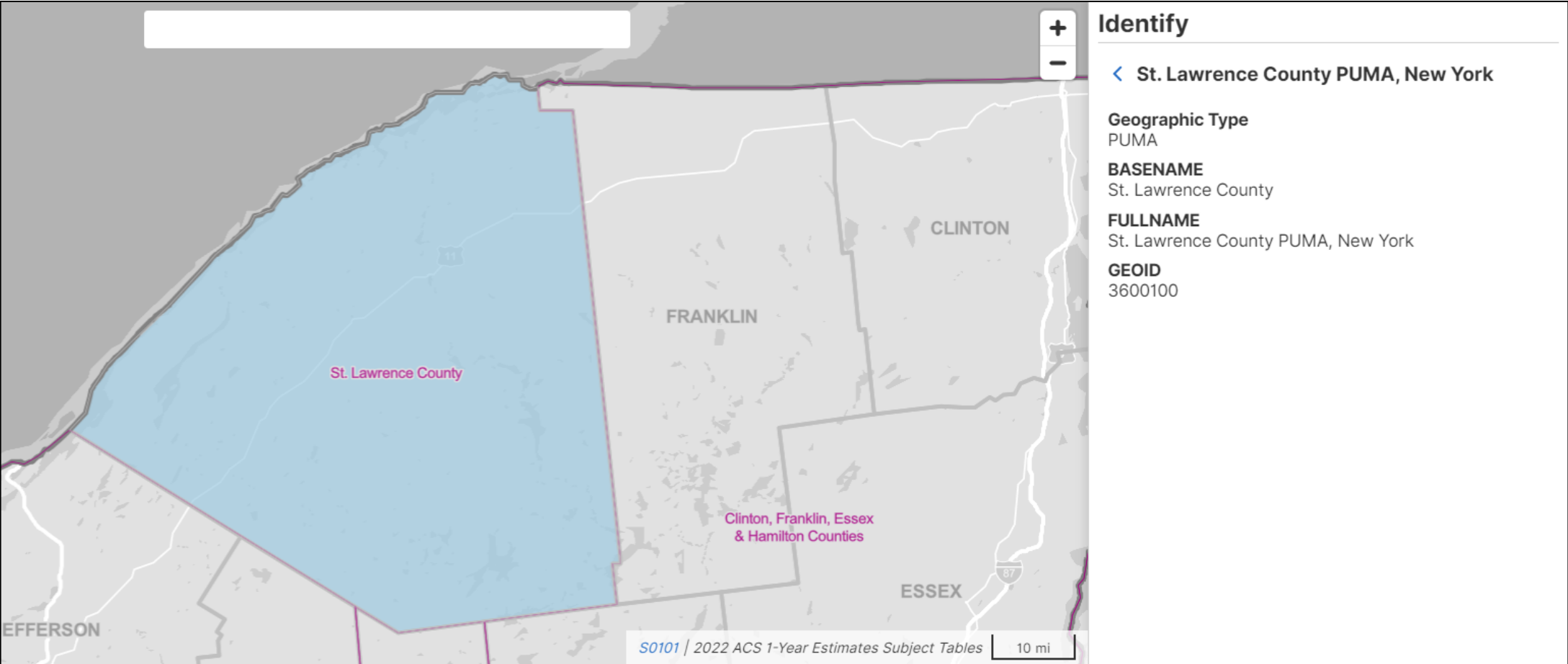
Example 2:

PUMA with no change in name or GEOID

# 2021 Map for St. Lawrence County PUMA, New York (Using 2010 PUMA Boundaries)



# 2022 Map for St. Lawrence County PUMA, New York (Using 2020 PUMA Boundaries)



- 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 includes 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:** ACS 1-Year Estimates Public Use Microdata Sample (ACSPUMS1Y)
- Select Vintage:** 2022

At the bottom right, there is a teal "NEXT" button. At the bottom left, 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

## Select a Dataset & Vintage

Select Dataset

ACS 5-Year Estimates Public Use Microdata Sample

ACSPUMS5Y

Select Vintage

2022

2022

NEXT

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

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

filter by Topic ▼   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

- Select variable for 2010 PUMAs:
  - Type 'PUMA' in the label search box
  - Check the box to the left of 'PUMA10' to add the variable to data cart

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

Showing 6 of 522 Variables Selected: 2 variables (1 column, 983 rows)

	Variable	Label	Number of Values	Type	
	<input type="text"/>	<input type="text" value="puma"/>	<input type="text"/>	<input type="text" value="(3) Edited Items, Estimate, Recd"/>	
<input type="checkbox"/>	MIGPUMA10	Migration PUMA based on 2010 Census definition f...	231	Estimate	▼ DETAILS
<input type="checkbox"/>	MIGPUMA20	Migration PUMA based on 2020 Census definition f...	236	Estimate	▼ DETAILS
<input type="checkbox"/>	POWPUMA10	Place of work PUMA based on 2010 Census definiti...	230	Estimate	▼ DETAILS
<input type="checkbox"/>	POWPUMA20	Place of work PUMA based on 2020 Census definiti...	235	Estimate	▼ DETAILS
<input checked="" type="checkbox"/>	PUMA10	Public use microdata area code (PUMA) based on 2...	983	Estimate	▼ DETAILS
<input type="checkbox"/>	PUMA20	Public use microdata area code (PUMA) based on 2...	1151	Estimate	▼ DETAILS

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

- Select New York state geography.
  - Click on the Select Geographies tab
  - Check the box to the left 'New York' to only pull up data for PUMAs from New York state

The screenshot shows a web interface for selecting geographies. At the top, there are navigation tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (highlighted with a red box), 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs, there are three main sections: 'GEOGRAPHIES', 'STATE', and a large empty area. In the 'GEOGRAPHIES' section, 'State' is highlighted with a red box. In the 'STATE' section, a list of states is shown with checkboxes. 'New York' is checked and highlighted with a red box. The other states listed are Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, and Ohio. At the bottom of the interface, there is a 'Dataset' section showing 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link, and a 'VIEW TABLE' button.

- **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. under 18 years)

The screenshot shows the 'DATA CART (2)' tab in the Census Bureau's data analysis tool. On the left, under 'Selected Variables (2)', the 'AGEP' variable is highlighted with a red box, showing it has 2 of 2 responses. Below it is 'PUMA10' with 983 of 983 responses. On the right, the 'Age (AGEP)' variable is expanded, showing a '+ CREATE CUSTOM GROUP' button highlighted with a red box. Below this is a table with columns for 'Include in Universe', 'Response Label', and 'Value'. The table shows three rows: '1 to 99 years (Top-coded)' with a value of 1 and a slider from 1 to 99; 'Under 1 year' with a value of 0; and a third row with a value of 0. At the bottom, the dataset is identified as 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link and a 'VIEW TABLE' button.

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

Selected Variables (2)

**AGEP**  
2 of 2 responses

**PUMA10**  
983 of 983 responses

**Age (AGEP)**   DETAILS ^

**+ CREATE CUSTOM GROUP**

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

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

- Create recode for AGEP variable:
  - Change Group Label to 'Under 18'
  - Click on the checkbox next to 1 to 99 and edit the end range to 17 and click the checkbox next to Under 1 Year
  - Click on the 'Save Group' button.

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

**AGEP**  
2 of 2 responses

**PUMA10**  
983 of 983 responses

**AGEP\_RC1**  
1 of 1 responses

Group Label  
Under 18

8 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	1 to 99 years (Top-coded)	1 ————— 17
<input checked="" type="checkbox"/>	Under 1 year	0

CANCEL   **SAVE GROUP**

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

- **Create recode for AGEP variable:**
  - Your first category, Under 18, appears just below “Not Elsewhere Classified”
  - 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)

- POVPIP**  
3 of 3 responses
- DIS**  
2 of 2 responses
- POVPIP\_RC1**

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

- Not Elsewhere Classified**  
VALUES: 250:500, -1, 501    **EDIT GROUP**
- Under 250% of Poverty**  
VALUES: 0:249    EDIT GROUP

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

- Create recode for AGEP variable:
  - Change Group Label to '18 to 25'
  - Click on the checkbox next to **Between 18 to 99** and edit the end range to 25
  - Click on the 'Save Group' button.

The screenshot displays the 'DATA CART (3)' interface with three variables: AGEP (2 of 2 responses), PUMA10 (983 of 983 responses), and AGEP\_RC1 (2 of 2 responses). The AGEP variable is selected for editing. The 'Group Label' field is set to '18 to 25'. A table below shows the 'Add to Group' configuration for the 'Between 18 and 99' response label, with the end value of 99 changed to 25. The 'SAVE GROUP' button is highlighted.

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 18 and 99	18 ————— 25

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

- Create recode for AGEP variable:
  - Click **Edit Group** for “Not Elsewhere Classified”

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

- Navigation:** SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (3)**, TABLE LAYOUT, DOWNLOAD
- Selected Variables (3):**
  - AGEP**: 2 of 2 responses
  - PUMA10**: 983 of 983 responses
  - AGEP\_RC1**: (highlighted with an orange bar)
- Age recode** section:
  - Not Elsewhere Classified**: VALUES: 26:99. The **EDIT GROUP** button is highlighted with a red border.
  - Under 18**: VALUES: 1:17, 0. **EDIT GROUP** button.
  - 18 to 25**: VALUES: 18:25. **EDIT GROUP** button.
- Dataset:** ACS 5-Year Estimates Public Use Microdata Sample (2022) **CHANGE**
- VIEW TABLE** button



- Create recode for AGEP variable:
  - Change Group Label to '26 to 34'
  - Click on the checkbox next to **Between 26 to 99** and edit the end range to **34**
  - Click on the 'Save Group' button.

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

**AGEP**  
2 of 2 responses

**PUMA10**  
983 of 983 responses

**AGEP\_RC1**  
3 of 3 responses

**26 to 34**  Show on table

Group Label  
26 to 34

8 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 26 and 99	26 — 34

**CANCEL**   **SAVE GROUP**

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

- Create recode for AGEP variable:
  - Click **Edit Group** for “Not Elsewhere Classified”

The screenshot shows a web interface for data management. At the top, there are navigation tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (3)', 'TABLE LAYOUT', and 'DOWNLOAD'. The 'DATA CART (3)' tab is active and underlined. On the left, a 'Selected Variables (3)' panel lists 'AGEP' (2 of 2 responses), 'PUMA10' (983 of 983 responses), and 'AGEP\_RC1'. The main area is titled 'Age recode' and contains three rows of recode groups: 'Not Elsewhere Classified' (VALUES: 26:99), 'Under 18' (VALUES: 1:17, 0), and '18 to 25' (VALUES: 18:25). Each row has an 'EDIT GROUP' button. The 'EDIT GROUP' button for 'Not Elsewhere Classified' is highlighted with a red border. There is also an 'AUTO GROUP' button at the top right of the recode section. At the bottom left, the dataset is identified as 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link. A 'VIEW TABLE' button is at the bottom right.

- Create recode for AGEP variable:
  - Change Group Label to 35 and up
  - Click on the checkbox next to **Between 35 to 99** click on the 'Save Group' button.

The screenshot displays the 'DATA CART (3)' interface for the AGEP variable. The left sidebar lists variables: AGEP (2 of 2 responses), PUMA10 (983 of 983 responses), and AGEP\_RC1 (4 of 4 responses). The main panel shows the '35 and up' group configuration. A red box highlights the 'Group Label' field containing '35 and up'. Below, a table lists response labels and values:

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Between 35 and 99	35 ————— 99

At the bottom right, the 'SAVE GROUP' button is highlighted with a red box. The dataset is identified as 'ACS 5-Year Estimates Public Use Microdata Sample (2022)'.

- Create recode to name PUMA10 variable:
  - Select PUMA10 and click on the 'Include in Universe' checkbox to uncheck all selected PUMAs
  - Reselect 00100 or use the Value search box to search for your desired PUMAs
  - Click on the **Create Custom Group** button to name your PUMA

The screenshot shows the 'DATA CART (3)' interface. On the left, under 'Selected Variables (3)', the variable 'PUMA10' (1 of 983 responses) is highlighted with a red box. On the right, the variable details for 'Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10)' are shown. A red box highlights the '+ CREATE CUSTOM GROUP' button. Below it, the 'Include in Universe' checkbox is checked. The 'Value' field contains '00100', which is also highlighted with a red box. The table below shows a single row with the value '00100' for 'Public use microdata area codes'. At the bottom, the dataset is identified as 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' and a 'VIEW TABLE' button is visible.

Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>		00100
<input checked="" type="checkbox"/>	Public use microdata area codes	00100

- Create recode to name PUMA10 variable:
  - Use the Group Label box to type in 'PUMA 00100' and select your PUMA by clicking on the checkbox
  - Click the Save Group button

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

**PUMA10**  
1 of 983 responses

**PUMA10\_RC1**  
1 of 1 responses

**AGEP\_RC1**  
4 of 4 responses

**PUMA 00100** Show on table

Group Label  
PUMA 00100

10 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Public use microdata area codes	00100

**CANCEL**   **SAVE GROUP**

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022)   [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 the original PUMA variable and Selected Geographies in the Rows.

The screenshot displays the 'Table Layout' tab in the Census data tool. The interface is divided into several sections:

- Navigation:** SELECT VARIABLES, SELECT GEOGRAPHIES, DATA CART (4), **TABLE LAYOUT** (highlighted), DOWNLOAD.
- Custom Table (Left Sidebar):**
  - "Values in table cells" Options (1): Determines order in list; cannot move to row/column.
  - AGEP: 2 of 2 responses
  - Columns (0): columns (maximum 400)
  - Rows (2): 1 rows (maximum 2000)
  - SELECTED GEOGRAPHIES: 1 of 1 responses
  - PUMA10: 1 of 983 responses
  - Not on table (2): (may restrict the sample universe)
  - PUMA10\_RC1: 1 of 1 responses
  - AGEP\_RC1: 4 of 4 responses
- Table Preview (Right):**
  - 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 York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes
- Table Data:**

Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10)	Average of Age (AGEP)
New York (1)	0
Public use microdata area codes	
- Footer:** 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 (4)   **TABLE LAYOUT**   DOWNLOAD

### Custom Table

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

AGEP   2 of 2 responses

Columns (0)  
columns (maximum 400)

**Rows (2)**   1 rows (maximum 2000)

SELECTED GEOGRAPHIES   1 of 1 responses

PUMA10   1 of 983 responses

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

PUMA10\_RC1   1 of 1 responses

**AGEP\_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:   Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes

Average of Age (AGEP)

Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10)	Average of Age (AGEP)
▼ New York (1)	0
Public use microdata area codes	

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

- Edit Table Layout:
  - Move Selected Geographies and PUMA recode to Columns:
    - Click, hold and drag Selected Geographies and PUMA10\_RC1 on the left side of the page up to the **columns heading**. This will give you a table layout that includes the selected PUMA 00100 from New York as the columns.

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

**Custom Table**

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

AGEP 2 of 2 responses

**Columns (0)**  
columns (maximum 400)

Rows (3)  
4 rows (maximum 2000)

**SELECTED GEOGRAPHIE** 1 of 1 responses

PUMA10 1 of 983 responses

AGEP\_RC1 4 of 4 responses

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

**PUMA10\_RC1** 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:  
Average of Age (AGEP)

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes

Age recode (AGEP_RC1)		
▼ New York (4)		0
▼ Public use microdata ar...		0
Under 18		???
18 to 25		???
26 to 34		???
35 and up		???

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



- Edit Table Layout:
  - Move original PUMA10 variable to Not on table section:
    - Click, hold and drag PUMA10 to the Not on table section. This will give you a table layout that includes the selected PUMA from New York as the columns.

The screenshot shows the 'Table Layout' interface with the following components:

- Navigation:** SELECT VARIABLES, SELECT GEOGRAPHIES, DATA CART (4), **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 (2): 1 columns (maximum 400)
  - SELECTED GEOGRAPHIES: 1 of 1 responses
  - PUMA10\_RC1: 1 of 1 responses
  - Rows (2): 4 rows (maximum 2000)
  - PUMA10: 1 of 983 responses
  - AGEP\_RC1: 4 of 4 responses
  - Not on table (0): (may restrict the sample universe)
- Values in table cells:** Average of Age (AGEP)
- Universe:** selected geographies: New York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes
- Table Preview:**

Selected Geographies	
New York	
Public use microdata area cod...	
Age recode (AGEP_RC1)	PUMA 00100
Public use microdata area...	
Under 18	???
18 to 25	???
26 to 34	???
35 and up	???
- Footer:** 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 (4)   **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 (2)  
1 columns (maximum 400)

**SELECTED GEOGRAPHIES** 1 of 1 responses

**PUMA10\_RC1** 1 of 1 responses

Rows (1)  
4 rows (maximum 2000)

**AGEP\_RC1** 4 of 4 responses

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

**PUMA10** 1 of 983 responses

### Table Preview

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

**Values in table cells:**

**Count**

Average of Age (AGEP)

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes

Age recode	PUMA 00100
Under 18	???
18 to 25	???
26 to 34	???
35 and up	???

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 (4)   **TABLE LAYOUT**   DOWNLOAD

Count

for data years 2012-2021 (areas with population of 100,000 or more, use with S1 for unique code) (PUMA10): PUBLIC use microdata area codes

Show Total

Selected Geographies	
New York	
Public use microdata area cod...	
Age recode	PUMA 00100
▼ ??? (4)	0
Under 18	???
18 to 25	???
26 to 34	???
35 and up	???

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.

The screenshot shows the Census data viewer interface. At the top, the Dataset is 'ACS 5-Year Estimates Public Use Microdata Sample' and the Geography is '1 geographies selected'. The Vintage is set to '2022' and the Weighting is 'Person weight'. Below these are sections for 'On Columns' (Selected Geographies, PUMA10\_RC1) and 'On Rows' (AGEP\_RC1). There is also a 'Not on Table' section with PUMA10 and a 'Values in table cells' section with 'Count'. A 'Show Total' toggle is visible. The data table below shows the following information:

Selected Geographies	
	New York
	Public use microdata area code (PUMA) based on 2010 Ce...
Age recode	
	PUMA 00100
▼ Total (4)	90,116
Under 18	18,113
18 to 25	14,188
26 to 34	8,951
35 and up	48,864

Send Feedback  
census.data@census.gov

To get the total population for PUMA 00100 from 2018 – 2022, repeat this process but use PUMA20 instead of PUMA10. Then add together each age category from both tables to get the correct 5-year totals.

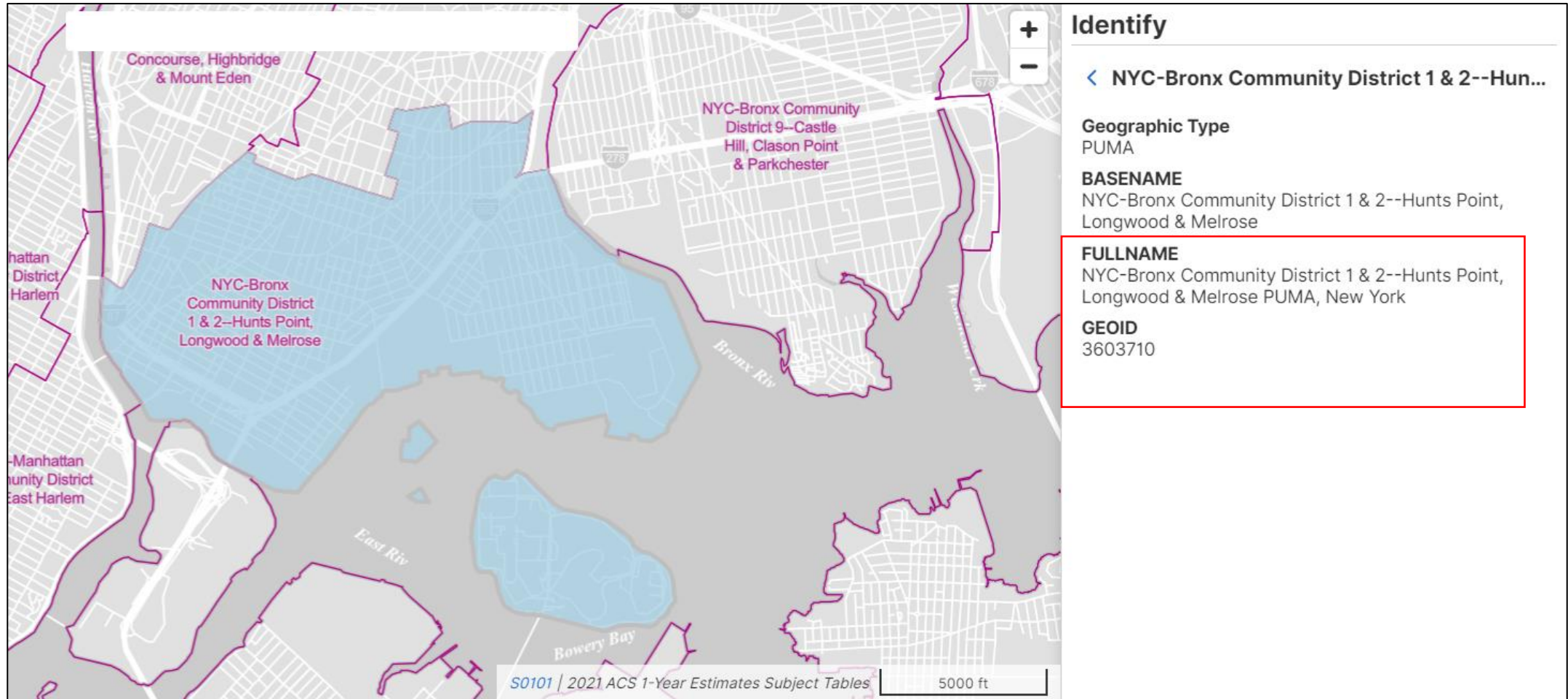
But first, make sure to confirm the PUMA IDs and boundaries for each vintage to ensure you are using the right ones and understand what area is included in each PUMA.

# Demo

Example 3:

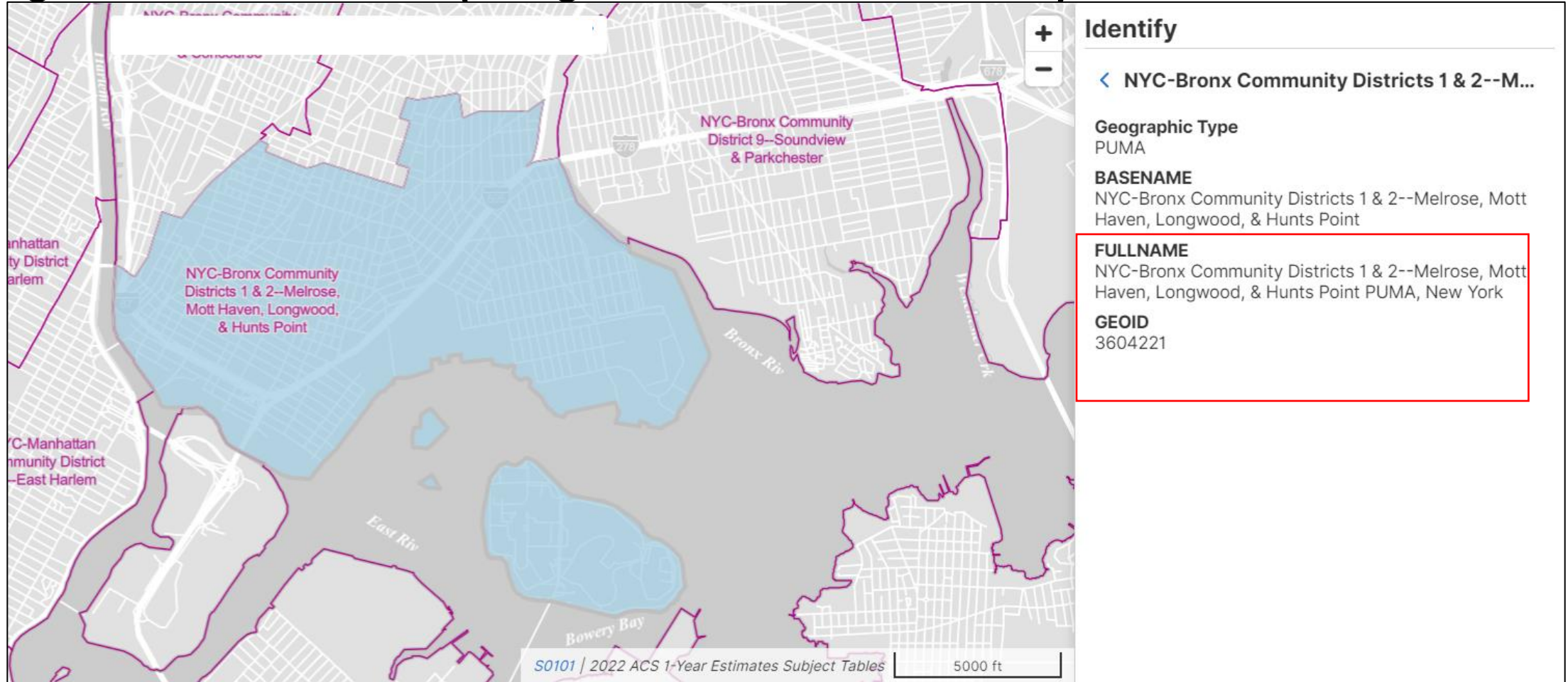
PUMA with slight name change, and different GEOIDs

# 2021 Map for NYC Bronx Community District 1 & 2 – Hunts Point, Longwood & Melrose (Using 2010 PUMA Boundaries)





# 2022 Map for NYC Bronx Community District 1 & 2 –Melrose, Mott Haven, Longwood & Hunts Point (Using 2020 PUMA Boundaries)



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

The screenshot shows a web browser window with the URL [data.census.gov/mdat/#/](https://data.census.gov/mdat/#/) in the address bar. 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

**Select a Dataset & Vintage**

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

Select Vintage 2022  
2022

Send Feedback  
census.data@census.gov

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 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

- Select variable for 2010 PUMAs:
  - Type 'PUMA' in the label search box
  - Check the box to the left of 'PUMA10' to add the variable to data cart

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

Showing 6 of 522 Variables Selected: 2 variables (1 column, 983 rows)

	Variable	Label	Number of Values	Type	
	<input type="text" value=""/>	<input type="text" value="puma"/>	<input type="text" value=""/>	<input type="text" value="(3) Edited Items, Estimate, Recd"/>	
<input type="checkbox"/>	MIGPUMA10	Migration PUMA based on 2010 Census definition f...	231	Estimate	▼ DETAILS
<input type="checkbox"/>	MIGPUMA20	Migration PUMA based on 2020 Census definition f...	236	Estimate	▼ DETAILS
<input type="checkbox"/>	POWPUMA10	Place of work PUMA based on 2010 Census definiti...	230	Estimate	▼ DETAILS
<input type="checkbox"/>	POWPUMA20	Place of work PUMA based on 2020 Census definiti...	235	Estimate	▼ DETAILS
<input checked="" type="checkbox"/>	PUMA10	Public use microdata area code (PUMA) based on 2...	983	Estimate	▼ DETAILS
<input type="checkbox"/>	PUMA20	Public use microdata area code (PUMA) based on 2...	1151	Estimate	▼ DETAILS

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

- Select New York state geography.
  - Click on the Select Geographies tab
  - Check the box to the left 'New York' to only pull up data for PUMAs from New York state

The screenshot shows a web interface for selecting geographies. At the top, there are navigation tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (highlighted with a red box), 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs, there are three main sections: 'GEOGRAPHIES', 'STATE', and a large empty area. In the 'GEOGRAPHIES' section, 'State' is highlighted with a red box. In the 'STATE' section, a list of states is shown with checkboxes. 'New York' is checked and highlighted with a red box. The other states listed are Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, and Ohio. At the bottom of the interface, there is a 'Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link, and a 'VIEW TABLE' button.

- 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)

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

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

**Selected Variables (2)**

- AGEP**  
2 of 2 responses
- PUMA10**  
983 of 983 responses

**Age (AGEP)** DETAILS ^

**+ CREATE CUSTOM GROUP**

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

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

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

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

**Selected Variables (3)**

- AGEP**  
2 of 2 responses
- PUMA10**  
983 of 983 responses
- AGEP\_RC1**  
1 of 1 responses

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

Not Elsewhere Classified  Show on table

Group Label  
Not Elsewhere Classified

24 / 60

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

**CANCEL**    **SAVE GROUP**

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

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

Auto Group Variable

Start: 1

End: 99

Groups of: 1

CANCEL AUTO GROUP

TABLE LAYOUT DOWNLOAD

Age recode

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

CHANGE VIEW TABLE



- Create recode to name PUMA10 variable:
  - Select PUMA10 and click on the 'Include in Universe' checkbox to uncheck all selected PUMAs
  - Reselect 03710 or use the Value search box to search for your desired PUMAs
  - Click on the **Create Custom Group** button to name your PUMA

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

Selected Variables (3)

- AGEP  
2 of 2 responses
- PUMA10**  
1 of 983 responses
- AGEP\_RC1  
100 of 100 responses

**Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10)**   DETAILS ^

**+ CREATE CUSTOM GROUP**

<input checked="" type="checkbox"/> Include in Universe	Response Label	Value
<input checked="" type="checkbox"/>	Public use microdata area codes	03710

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

- Create recode to name PUMA10 variable:
  - Use the Group Label box to type in 'PUMA 03710' and select your PUMA by clicking on the checkbox
  - Click the Save Group button

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

- Navigation tabs: SELECT VARIABLES, SELECT GEOGRAPHIES, **DATA CART (4)**, TABLE LAYOUT, DOWNLOAD.
- Left sidebar (Data Cart):
  - PUMA10**: 1 of 983 responses
  - PUMA10\_RC1**: 1 of 1 responses
  - AGEP\_RC1**: 100 of 100 responses
- Main panel (PUMA 03710):
  - Group Label: PUMA 03710 (highlighted with a red box)
  - 10 / 60
  - Table with columns: Add to Group, Response Label, Value.
    - Row 1:  Add to Group, Public use microdata area codes, 03710 (checkbox highlighted with a red box)
  - Buttons: CANCEL, SAVE GROUP (highlighted with a red box)
  - Toggle: Show on table (turned on)
- Footer:
  - Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022) 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 the original PUMA variable and Selected Geographies in the Rows.

The screenshot displays the 'Table Layout' tab in the Census data tool. The interface is divided into several sections:

- Navigation:** 'SELECT VARIABLES', 'SELECT GEOGRAPHIES', 'DATA CART (4)', 'TABLE LAYOUT' (highlighted with a red box), and 'DOWNLOAD'.
- Custom Table (Left Sidebar):** A list of variables and options, including 'Values in table cells' Options (1), 'AGEP' (2 of 2 responses), 'Columns (0)', 'Rows (2)', 'SELECTED GEOGRAPHIES' (1 of 1 responses), 'PUMA10' (1 of 983 responses), 'Not on table (2)', 'PUMA10\_RC1' (1 of 1 responses), and 'AGEP\_RC1' (4 of 4 responses). This sidebar is highlighted with a red box.
- Table Preview (Right):** A section for configuring the table. It includes a 'Values in table cells' dropdown set to 'Average of Age (AGEP)'. The universe is defined as 'selected geographies: New York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes'. Below this, a table shows the data for 'New York (1)' with a value of 0.
- Table Preview Table:**

Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10)	
<ul style="list-style-type: none"> <li>New York (1)</li> </ul>	0
Public use microdata area codes	
- Footer:** 'Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022) CHANGE' and a 'VIEW TABLE' button.

- 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 (4)   **TABLE LAYOUT**   DOWNLOAD

**Custom Table**

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

AGEP   2 of 2 responses

Columns (0)  
columns (maximum 400)

**Rows (2)**   1 rows (maximum 2000)

SELECTED GEOGRAPHIES   1 of 1 responses

PUMA10   1 of 983 responses

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

PUMA10\_RC1   1 of 1 responses

AGEP\_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 Age (AGEP)

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes

Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10)	
▼ New York (1)	0
Public use microdata area codes	

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

- Edit Table Layout:
  - Move Selected Geographies and PUMA recode to Columns:
    - Click, hold and drag Selected Geographies and PUMA10\_RC1 on the left side of the page up to the columns heading. This will give you a table layout that includes the selected PUMA 03710 from New York as the columns.

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

**Custom Table**

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

AGEP 2 of 2 responses

**Columns (0)**  
columns (maximum 400)

Rows (3)  
100 rows (maximum 2000)

**SELECTED GEOGRAPHIES** 1 of 1 responses

PUMA10 1 of 983 responses

AGEP\_RC1 100 of 100 responses

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

PUMA10\_RC1 1 of 1 responses

**TABLE REVIEW**

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 York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes

Age recode (AGEP_RC1)	
▼ New York (100)	0
▼ Public use microdata ar...	0
Not Elsewhere Classifi...	???
1	???
2	???
3	???
4	???
5	???
6	???
7	???
8	???

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

- Edit Table Layout:
  - Move original PUMA10 variable to Not on table section:
    - Click, hold and drag PUMA10 to the Not on table section. This will give you a table layout that includes the selected PUMA from New York as the columns.

SELECT VARIABLES   SELECT GEOGRAPHIES   DATA CART (4)   **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 (2)  
1 columns (maximum 400)

SELECTED GEOGRAPHIES 1 of 1 responses

PUMA10\_RC1 1 of 1 responses

Rows (2)  
100 rows (maximum 2000)

**PUMA10** 1 of 983 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:  
Average of Age (AGEP)

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes

Selected Geographies	
New York	
Public use microdata area cod...	
Age recode (AGEP_RC1)	PUMA 03710
Public use microdata area...	
Not Elsewhere Classified	???
1	???
2	???
3	???
4	???
5	???

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” to **Count**. This will give you data for the total number of people within the requested categories.

SELECT VARIABLES   SELECT GEOGRAPHIES   DATA CART (4)   **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 (2)  
1 columns (maximum 400)

**SELECTED GEOGRAPHIES** 1 of 1 responses

**PUMA10\_RC1** 1 of 1 responses

Rows (1)  
100 rows (maximum 2000)

**AGEP\_RC1** 100 of 100 responses

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

**PUMA10** 1 of 983 responses

### Table Preview

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

**Values in table cells:**

Count

Average of Age (AGEP)

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes

Age recode	New York	Public use microdata area cod...
	PUMA 03710	
Not Elsewhere Classified		???
1		???
2		???
3		???
4		???
5		???

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 (4)   **TABLE LAYOUT**   DOWNLOAD

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

**AGEP**   2 of 2 responses

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

**SELECTED GEOGRAPHIES**   1 of 1 responses

**PUMA10\_RC1**   1 of 1 responses

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

**AGEP\_RC1**   100 of 100 responses

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

**PUMA10**   1 of 983 responses

**Values in table cells:**

Count

Show Total

	Selected Geographies
	New York
	Public use microdata area cod...
Age recode	PUMA 03710
▼ ??? (100)	0
Not Elsewhere Classified	???
1	???
2	???

Universe: **selected geographies:** New York; **Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10):** Public use microdata area codes

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.

The screenshot shows the Census data viewer interface. At the top, the dataset is 'ACS 5-Year Estimates Public Use Microdata Sample' and the geography is '1 geographies selected'. The vintage is set to '2022' and the weighting is 'Person weight'. The table configuration shows 'Selected Geographies' and 'PUMA10\_RC1' on columns, and 'AGEP\_RC1' on rows. The 'Values in table cells' are set to 'Count'. The table below shows the following data:

Selected Geographies	
New York	
Public use microdata area code (PUMA) based on 2010 Census d...	
Age recode	PUMA 03710
▼ Total (100)	132,888
Not Elsewhere Classified	1,560
1	1,840
2	2,240
3	1,859
4	2,028
Send Feedback census.data@census.gov	2,141

Now we have to go back and use the PUMA20 variable to find the new PUMA GEOID to get the total population for the entire 2018 – 2022 estimates.

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

**Select a Dataset & Vintage**

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

Select Vintage 2022  
2022

Send Feedback  
census.data@census.gov

NEXT

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

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

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

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

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

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

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

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

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

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

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

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

**Description:**  
Age

**Values:**

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

- Select variable for 2020 PUMAs:
  - Type 'PUMA' in the label search box
  - Check the box to the left of 'PUMA20' to add the variable to data cart

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

Showing 6 of 522 Variables Selected: 2 variables (1 column, 1151 rows)

	Variable	Label	Number of Values	Type	
	<input type="text"/>	<input type="text" value="puma"/>	<input type="text"/>	<input type="text" value="(3) Edited Items, Estimate, Recd"/>	
<input type="checkbox"/>	MIGPUMA10	Migration PUMA based on 2010 Census definition f...	231	Estimate	▼ DETAILS
<input type="checkbox"/>	MIGPUMA20	Migration PUMA based on 2020 Census definition f...	236	Estimate	▼ DETAILS
<input type="checkbox"/>	POWPUMA10	Place of work PUMA based on 2010 Census definiti...	230	Estimate	▼ DETAILS
<input type="checkbox"/>	POWPUMA20	Place of work PUMA based on 2020 Census definiti...	235	Estimate	▼ DETAILS
<input type="checkbox"/>	PUMA10	Public use microdata area code (PUMA) based on 2...	983	Estimate	▼ DETAILS
<input checked="" type="checkbox"/>	PUMA20	Public use microdata area code (PUMA) based on 2...	1151	Estimate	▼ DETAILS

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

- Select New York state geography.
  - Click on the Select Geographies tab
  - Check the box to the left 'New York' to only pull up data for PUMAs from New York state

The screenshot shows a web interface for selecting geographies. At the top, there are navigation tabs: 'SELECT VARIABLES', 'SELECT GEOGRAPHIES' (highlighted with a red box), 'DATA CART (2)', 'TABLE LAYOUT', and 'DOWNLOAD'. Below the tabs, there are three main sections: 'GEOGRAPHIES', 'STATE', and a large empty area. Under 'GEOGRAPHIES', there are three options: 'Region', 'Division', and 'State' (highlighted with a red box). Under 'STATE', there is a list of states with checkboxes: Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York (checked and highlighted with a red box), North Carolina, North Dakota, and Ohio. At the bottom of the interface, there is a 'Dataset' section showing 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link, and a 'VIEW TABLE' button.

- **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 'DATA CART (2)' tab in a software interface. On the left, under 'Selected Variables (2)', the 'AGEP' variable is highlighted with a red box, showing '2 of 2 responses'. Below it is 'PUMA20' with '1151 of 1151 responses'. On the right, the 'Age (AGEP)' section is active, with a '+ CREATE CUSTOM GROUP' button highlighted in red. Below this is a table with columns 'Include in Universe', 'Response Label', and 'Value'. The table contains three rows: '1 to 99 years (Top-coded)' with a value of 1 and a slider from 1 to 99; and 'Under 1 year' with a value of 0. At the bottom, the dataset is identified as 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' with a 'CHANGE' link and a 'VIEW TABLE' button.

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

Selected Variables (2)

**AGEP**  
2 of 2 responses

**PUMA20**  
1151 of 1151 responses

**Age (AGEP)**    DETAILS ^

**+ CREATE CUSTOM GROUP**

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

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

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

The screenshot shows the 'DATA CART (3)' section of the tool. On the left, under 'Selected Variables (3)', the variable 'AGEP\_RC1' is highlighted with a red bar. The main panel is titled 'Age recode' and shows the configuration for the variable 'Not Elsewhere Classified'. A red box highlights the 'AUTO GROUP' button in the top right corner. Below the variable name, there is a 'Group Label' field containing 'Not Elsewhere Classified'. A table below shows the recoding process with three rows, each with a checked 'Add to Group' box:

<input checked="" type="checkbox"/> Add to Group	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 right of the configuration panel are 'CANCEL' and 'SAVE GROUP' buttons. The bottom 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

- Create recode to name PUMA20 variable:
  - Select PUMA20 and click on the 'Include in Universe' checkbox to uncheck all selected PUMAs
  - Reselect 04221 or use the Value search box to search for your desired PUMAs
  - Click on the **Create Custom Group** button to name your PUMA

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

Selected Variables (3)

- AGEP  
2 of 2 responses
- PUMA20**  
1 of 1151 responses
- AGEP\_RC1  
100 of 100 responses

**+ CREATE CUSTOM GROUP**

Include in Universe   Response Label   Value

<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Public use microdata area codes	04221

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

- Create recode to name PUMA20 variable:
  - Use the Group Label box to type in 'PUMA 04221' and select your PUMA by clicking on the checkbox
  - Click the Save Group button

The screenshot shows the 'DATA CART (4)' interface. On the left, a list of variables is shown: AGEP (2 of 2 responses), PUMA20 (1 of 1151 responses), PUMA20\_RC1 (1 of 1 responses), and AGEP\_RC1 (100 of 100 responses). The main panel displays the recode configuration for 'Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022 and later (areas with population of 100,000 or more, use with ST for unique code) recode'. The 'PUMA 04221' group is selected, and the 'Show on table' toggle is turned on. A red box highlights the 'Group Label' input field containing 'PUMA 04221'. Below, a table lists the selected PUMA codes, with a red box around the checkbox for 'Public use microdata area codes' (04221). At the bottom right, the 'SAVE GROUP' button is highlighted with a red box. The bottom bar shows the dataset 'ACS 5-Year Estimates Public Use Microdata Sample (2022)' and a 'VIEW TABLE' button.

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

Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022 and later (areas with population of 100,000 or more, use with ST for unique code) recode

PUMA 04221 Show on table

Group Label  
PUMA 04221

10 / 60

<input checked="" type="checkbox"/> Add to Group	Response Label	Value
<input checked="" type="checkbox"/>	Public use microdata area codes	04221

CANCEL SAVE GROUP

Dataset: ACS 5-Year Estimates Public Use Microdata Sample (2022) 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 puts the 2020 PUMAs in the rows

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

---

**Custom Table**

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

AGEP   2 of 2 responses

Columns (0)  
columns (maximum 400)

Rows (2)  
1 rows (maximum 2000)

SELECTED GEOGRAPHIES   1 of 1 responses

PUMA20   1 of 1151 responses

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

PUMA20\_RC1   1 of 1 responses

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:  
Count

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022 and later (areas with population of 100,000 or more, use with ST for unique code) (PUMA20): Public use microdata area codes

Show Total

Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022		
?? (1)		0
New York (1)		0
Public use microdata ...		

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 (4)   **TABLE LAYOUT**   DOWNLOAD

### Custom Table

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

AGEP 2 of 2 responses

Columns (0)  
columns (maximum 400)

**Rows (2)**  
1 rows (maximum 2000)

SELECTED GEOGRAPHIES 1 of 1 responses

PUMA20 1 of 1151 responses

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

PUMA20\_RC1 1 of 1 responses

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:  
Count

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022 and later (areas with population of 100,000 or more, use with ST for unique code) (PUMA20): Public use microdata area codes

Show Total

Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022	Count
?? (1)	0
New York (1)	0
Public use microdata ...	

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

- Edit Table Layout:
  - Move Selected Geographies and PUMA recode to Columns:
    - Click, hold and drag Selected Geographies and PUMA20\_RC1 on the left side of the page up to the **columns heading**. This will give you a table layout that includes the selected PUMA 04221 from New York as the columns.

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

**Custom Table**

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

AGEP   2 of 2 responses

**Columns (0)**  
columns (maximum 400)

Rows (3)  
100 rows (maximum 2000)

**SELECTED GEOGRAPHIES**   1 of 1 responses

PUMA20   1 of 1151 responses

AGEP\_RC1   100 of 100 responses

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

**PUMA20\_RC1**   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 York; Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022 and later (areas with population of 100,000 or more, use with ST for unique code) (PUMA20): Public use microdata area codes

Show Total

Age recode (AGEP_RC1)		
???	(100)	0
▼	New York (100)	0
▼	Public use microdata ...	0
	Not Elsewhere Classi...	???
	1	???
	2	???
	3	???
	4	???
	5	???

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

[VIEW TABLE](#)

- Edit Table Layout:
  - Move original PUMA20 variable to Not on table section:
    - Click, hold and drag PUMA20 to the Not on table section. This will give you a table layout that includes the selected PUMA from New York as the columns.

SELECT VARIABLES   SELECT GEOGRAPHIES   DATA CART (4)   **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 (2)  
1 columns (maximum 400)

SELECTED GEOGRAPHIES 1 of 1 responses

PUMA20\_RC1 1 of 1 responses

Rows (2)  
100 rows (maximum 2000)

**PUMA20** 1 of 1151 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 York; Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022 and later (areas with population of 100,000 or more, use with ST for unique code) (PUMA20); Public use microdata area codes

Show Total

	Selected Geographies	
	New York	
	Public use microdata area cod...	
Age recode (AGEP_RC1)	PUMA 04221	
???	(100)	0
Public use microdata ar...		0
Not Elsewhere Classifi...		???
1		???
2		???

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” to **Count**. This will give you data for the total number of people within the requested categories.

SELECT VARIABLES   SELECT GEOGRAPHIES   DATA CART (4)   **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 (2)  
1 columns (maximum 400)

SELECTED GEOGRAPHIES 1 of 1 responses

PUMA20\_RC1 1 of 1 responses

Rows (1)  
100 rows (maximum 2000)

AGEP\_RC1 100 of 100 responses

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

PUMA20 1 of 1151 responses

### Table Preview

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

**Values in table cells:**

Count

Average of Age (AGEP)

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022 and later (areas with population of 100,000 or more, use with ST for unique code) (PUMA20): Public use microdata area codes

Age recode	Count
?? (100)	0
Not Elsewhere Classified	???
1	???
2	???
3	???

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 (4)   **TABLE LAYOUT**   DOWNLOAD

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

**AGEP**   2 of 2 responses

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

**SELECTED GEOGRAPHIES**   1 of 1 responses

**PUMA20\_RC1**   1 of 1 responses

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

**AGEP\_RC1**   100 of 100 responses

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

**PUMA20**   1 of 1151 responses

**Values in table cells:**

Count

Show Total

Selected Geographies	
New York	
Public use microdata area cod...	
Age recode	PUMA 04221
?? (100)	0
Not Elsewhere Classified	???
1	???
2	???

Universe: **selected geographies:** New York; **Public use microdata area code (PUMA) based on 2020 Census definition for data years 2022 and later (areas with population of 100,000 or more, use with ST for unique code) (PUMA20):** Public use microdata area codes

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.

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

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

Vintage: 2022

Weighting: Person weight

On Columns: Selected Geographies, PUMA20\_RC1

On Rows: AGEP\_RC1

Not on Table: PUMA20

"Values in table cells" Options: AGEP

Values in table cells: Count

Universe: selected geographies: New York; Public use microdata area code (PUMA) based on 2020 Census use with ST for unique code (PUMA20): Public use microdata area codes

Show Total

Selected Geographies	
	New York
	Public use microdata area code (PUMA) based on 202...
Age recode	
	PUMA 04221
▼ Total (100)	27,684
Not Elsewhere Classified	415
1	304
2	275
Send Feedback	207
census.data@census.gov	

To get the total population for this PUMA from 2018 – 2022, add together each age category from both tables to get the correct 5-year totals.

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

Explore Data / Microdata / Custom Table

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

Dataset: ACS 5-Year Estimates Public Use Microdata Sample [CHANGE DATASET](#) Geography: 0 geographies selected [CHANGE GEOGRAPHY](#)

Vintage: 2022 Weighting: Person weight

On Columns	On Rows
<b>PUMA10</b>	<b>AGEP_RC1</b>
Not on Table	"Values in table cells" Options
	<b>AGEP</b>

Values in table cells: Count

Universe: Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2021 (areas with population of 100,000 or more, use with ST for unique code) (PUMA10): Public use microdata area codes

Show Total

	Public use microdata area code (PUMA) based on 2010 Census definition for data years 2012-2...
Age recode	Public use microdata area codes
	271,319

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



# Guidance for Data Users

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## 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](#)

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## 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

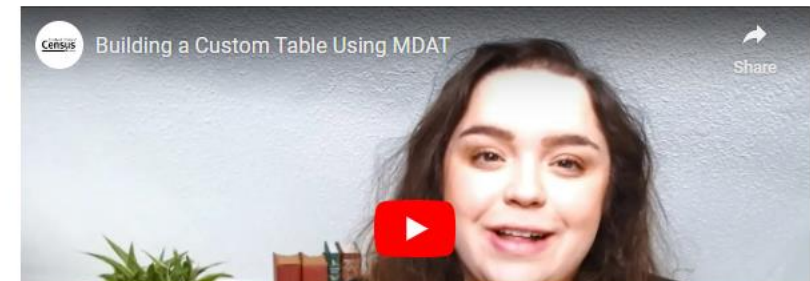


Watch this video to learn how to use Microdata Access (MDAT) through [data.census.gov](#), and create customized tabulation without the need for special programming or statistical software.

### 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>

# PUMA FAQ Page

## PUMA FAQ Page:

<https://ask.census.gov/prweb/PRServletCustom?pyActivity=pyMobileSnapStart&ArticleID=KCP-18715>

[Home](#)

## How Do I Select PUMAs on the Microdata Access Tool (MDAT) for ACS 5-Year Estimates with Dual Vintage PUMAs?

In some data years, public use microdata areas (PUMAs) do not appear as a selectable geography on the Microdata Access Tool (MDAT). This situation occurs when the ACS 5-Year Public Use Microdata Sample (PUMS) files contain dual vintage PUMAs.

### Why Do Some Datasets Have Dual Vintage PUMAs?

To understand dual-vintage PUMAs in a single PUMS file, consider the 2022 ACS 5-Year PUMS file. The file is made up of all the records from each of the ACS 1-Year PUMS files: 2022, 2021, 2020, 2019, and 2018.

In the 2022 ACS 5-year PUMS file:

# 2020 Public Use Microdata Areas (PUMA) Guidance Page

## Includes:

- Summary Guide
- Coding and Naming Guidelines
- 2020 PUMA FAQs

<https://www.census.gov/programs-surveys/geography/guidance/geo-areas/pumas/2020pumas.html>

// [Census.gov](#) / [Guidance for Geography Users](#) / [About Geographic Areas](#) / [Public Use Microdata Areas \(PUMAs\)](#) / 2020 Public Use Microdata Areas (PUMA) Program

## 2020 Public Use Microdata Areas (PUMA) Program

The Census Bureau partnered with State Data Centers (SDCs) from each state, the District of Columbia, and the Commonwealth of Puerto Rico to delineate PUMAs during the 2020 PUMA program. While the SDCs were the official program participants, the Census Bureau encouraged SDCs to involve other interested data users to ensure newly delineated PUMAs met the needs of a variety of data users.

Share   

Three training webinars, two in October and one in December, were conducted by the Census Bureau for participants in late 2021. Delineation occurred over a 90-day review period from November 2021 through January 2022, after the publication of population counts and census tracts from the 2020 Census. The final PUMAs and associated data will be available online for public use beginning in the summer of 2022.

**The Census Bureau is no longer accepting submissions for the 2020 PUMA.** The

 Top

For questions regarding the 2020 PUMA program, contact the Census Bureau at [geo.puma@census.gov](mailto:geo.puma@census.gov).



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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

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

**Latest System Updates**

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

**Featured Video Tutorial:**

[Explanation of Mapping Buttons on data.census.gov](#)

**More Videos**

**Upcoming Webinar:**

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

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



# data.census.gov Resources

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)

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

Help improve this site

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