# Understand Exposure | Social Vulnerability Indicators and Spatial Data

### WHO

This provides additional guidance for the practitioner during data collection in the Understand Exposure step and tools and resources that can be used for additional social vulnerability mapping in the Assess Vulnerability and Risk step.

# WHAT

This is a guidance document for identifying and recording collected spatial data for social vulnerability indicators in the Understand Exposure step. Additional tools are provided for the Assess Vulnerability and Risk step.

# SUPPORTING RESOURCES

- U.S. Centers for Disease Control and Prevention Social Vulnerability Index (2018)
- <u>USDA Food Access Research Atlas</u>
- <u>Climate and Economic Justice Screening Tool (Council on Environmental Quality)</u>

### INSTRUCTIONS

- Review the tools and information below. In the Understand Exposure step, use the list of indicators and instructions for collecting spatial data from the U.S. Census.
  - Determine the scale that is most appropriate for the community (tracts or block group)
  - Record what has been collected in the table on the last page; extra rows have been added for any additional indicators or spatial datasets collected.
- Come back to this resource in the Assess Vulnerability and Risk step; use the indicators collected previously and any of the suggested tools to provide a deeper understanding of social vulnerability within the community.

# About Social Vulnerability Indicators



#### **CDC Social Vulnerability Index and Indicators**

The <u>CDC Social Vulnerability Index</u> (SVI) is one of the most commonly used datasets. The socioeconomic variables listed below are those that are found within the four themes (above) of the SVI. The SVI overall index and four themes are available at the census tract level directly from the CDC, however, the corresponding individual indicators at both the tract and block group levels are based on census data and can be downloaded at various scales. Investigating this information by individual indicators can help uncover social vulnerabilities within a neighborhood that make the effects of climate change felt at a disproportionate magnitude.

#### **USDA Food Access Research Atlas**

The Food Access Research Atlas is a hub for both an interactive tool and data download. This information helps identify areas that are considered "food deserts," or neighborhoods that may have a difficult time accessing affordable and nutritious food because they live far from a supermarket and do not have access to transportation.

#### **Climate and Economic Justice Screening Tool**

This tool was specifically designed to help federal agencies identify disadvantaged communities that are considered marginalized, underserved, and overburdened by pollution. The tool provides socioeconomic, environmental, and climate information. Practitioners can use this tool to understand the context of the community with which they are working and factor this into strategies and actions in later steps.

## Use Census Data to Collect Indicators

To use census data, you'll need to download both the tables listed here and the corresponding geographies (either tracts or block groups). First, determine the year and survey type you'll use. The two most commonly used surveys are the Decennial Census and the American Community Survey (ACS) and, depending on the year the project is completed, one will be older than the other. To explore Census data and download the tabular and spatial data, follow these steps:

1. Go to <u>data.census.gov</u> and copy the table ID (see <u>Social Vulnerability Indicators</u>) from column B into the search bar on the Census homepage.

| HOUSEHOLD<br>COMPOSITION /<br>DISABILITY  |        |  |            |       |                 |             |
|---|--------|--|------------|-------|-----------------|-------------|
| Total number of people aged 65 and older  | B01001 | B01001_020E + B01001_021E +<br>B01001_022E + B01001_023E +<br>B01001_024E + B01001_025E +<br>B01001_044E + B01001_045E +<br>B01001_046E + B01001_047E +<br>B01001_048E + B01001_049E | Sex by Age | S0101 | \$0101_C01_030E | Age and Sex |
| Percentage of people aged 65<br>and older |        | (E_AGE65/TOTAL<br>POPULATION)*100  |            | S0101 | \$0101_C02_030E | Age and Sex |
|   |        | B01001_006E + B01001_005E +<br>B01001_004E + B01001_003E +   |            |       |                 |             |

2. The table will show up in the search results, select it and the table will open for the United States.

|                |   |   | B01001                                     |   |      |                    |                 |                          |  |              |                     | ×                      | Q Adv     | anced Search           |                 |       |         |          |                   |
|----------------|---|---|--|---|------|--------------------|-----------------|--------------------------|--|--------------|---------------------|------------------------|-----------|------------------------|-----------------|-------|---------|----------|-------------------|
|                |   |   | All  | Tables                                  | Maps | Pages              |                 |                          |  |              |                     |                        |           | N                      | /icrodata       | Help  | FAQ     | Feedbac  | ¢                 |
| Filters<br>(1) | 1 Filter ⑦                              | « | 1 Result                                   | I Result «                              |      |                    |                 |                          | American Community Survey B01001   SEX BY AGE 2019: ACS 1-Year Estimates Detailed Tables  Universe: Total population |              |                     |                        |           |                        |                 |       |         |          |                   |
| кesults<br>(1) |   |   |  |   |      | View: 10   25   50 | Notes 0         | O E                      | ars Topic  | cs Surveys   | <u>123</u><br>Codes | X<br>Hide              | Transpose | +∕_<br>Margin of Error | Restore         | Excel | Downloa | ad Print | ooo<br>More Tools |
|                | Find a Filter<br>Q Search               |   | American Comm<br>B01001   SE<br>View All 2 | unity Survey<br>EX BY AGE<br>4 Products |      |                    | Label           |                          |  | United State | 5                   | Estimate               |           | Margin of              | Error           |       |         |          | Col               |
|                | 123 Codes ><br><sup>®</sup> Geography > |   |  |   |      |                    | Total:     Male |                          |  |              | 328                 | 3,239,523<br>1,588,973 |           | ±34                    | *****<br>\$,808 |       |         |          | anna              |
|                | Surveys >                               |   |  |   |      |                    | Un<br>5 te      | der 5 years<br>o 9 years |  |              | 10                  | 9,938,937<br>0,033,518 |           | ±19<br>±5              | 9,654<br>I,101  |       |         |          | ell/Colum         |
|                | Topics >                                |   |  |   |      |                    | 10              | to 14 years              |  |              | 10                  | ),987,313              |           | ±52                    | 2,483           |       |         |          | n Notes           |
|                | 🗄 Years >                               |   |  |   |      |                    | 15              | to 17 years              | re   |              | (                   | 5,361,859              |           | ±1:                    | 5,524           |       |         |          | -                 |
|                |   |   |  |   |      |                    |                 | una 19 yee               |  |              |                     | ,,,,,,,,,,,,,,         |           | 12                     | 1,012           |       |         |          |                   |

3. Narrow down to the community. Under "Find a Filter," choose "Geography".

|                           | Census<br>Bureau          | B01001  |                            |         |                               | ×Q      | Advanced Search  |                    |          |
|---------------------------|---------------------------|---|----------------------------|---------|-------------------------------|---------|--|--------------------|----------|
|                           |                           | All <b>Tables</b> Map   | s Pages                    |         |                               |         | Microdata He   | lp FAQ Feedback    |          |
| Filters<br>(1)<br>Results | 1 Filter ⑦ 《              | Select Geography Geographic Entities Summary Levels                 |                            |         |                               | ×       | 1 Result Download tables   | *                  | <b>K</b> |
| (1)                       |                           | Most Commonly Used Geo  | graphies                   |         |                               |         |  | View: 10   25   50 |          |
|                           | Find a Filter<br>Q Search | Nation  | ) State                    | Ο       | County                        | $\odot$ | American Community Survey<br>B01001   SEX BY AGE<br>(+) View All 24 Products |                    |          |
|                           | 123 Codes >               | Place   | ) Zip Code Tabulation Area | $\odot$ | Metropolitan Statistical Area | $\odot$ |  |                    | olumns   |
|                           | ◎ Geography >             |   |                            |         |                               |         |  |                    | Cel      |
|                           | 📋 Surveys >               | Tract   | ) Block                    | $\odot$ | Block Group                   | $\odot$ |  |                    | //Colum  |
|                           | 間 Topics ><br>菅 Years >   | All Other Geographies 5-Digit Zip Code Alaska Native Regional Corpo | ration                     |         |                               |         |  |                    | nn Notes |

4. For this community, we want to look at Block Groups, so we'll choose that. Next, select your state and county. Even if you're looking at one community within a particular county, it's typically easier to get the data for the entire county. You'll check the box that says "All Block Groups..." (highlighted below).

|                           | Census<br>Bureau  | BO  | 1001   | ×C | Advanced Search   |          |                |
|---------------------------|---|-----|--|----|---|----------|----------------|
|                           |   |     | All <b>Tables</b> Maps Pages   |    | Microdata Help FAQ F  | eedback  |                |
| Filters<br>(1)<br>Results | 1 Filter ⑦<br>1 Clear all   | • • | Block Group / Kentucky / Bourbon County, Kentucky / Select Tract<br>Within other geographies   | ×  | 1 Result<br>Download tables   | <b>«</b> |                |
| (1)                       | Find a Filter<br>Q Search   |     | All Block Groups within Bourbon County, Kentucky<br>Census Tract 301, Bourbon County, Kentucky<br>Census Tract 302, Bourbon County, Kentucky<br>Census Tract 303, Bourbon County, Kentucky |    | View: 10 American Community Survey B01001   SEX BY AGE ① View All 24 Products | 25   50  | Colu           |
|                           | 123 Codes >   | -   | Census Tract 304, Bourbon County, Kentucky   |    |   |          | mns            |
|                           | Ø Geography >   | •   | Census Tract 305, Bourbon County, Kentucky   |    |   |          | Cell           |
|                           | <ul> <li>Surveys &gt;</li> <li>Topics &gt;</li> <li>Years &gt;</li> </ul> | •   | Census Tract 306, Bourbon County, Kentucky   |    |   |          | //Column Notes |

5. Finally, you'll want to select the survey and year. For this particular table, the only survey available is the American Community Survey. Add the filter to the list anyway. Under "Years," select the most recent year. If you aren't sure or lose track of what filters you have set, a running list will appear in the upper-left corner.

|                | Census<br>Bureau   | B01001                                     |                            |                            |  |       |                                |             |  |  |
|----------------|--|--|----------------------------|----------------------------|--|-------|--------------------------------|-------------|--|--|
|                |  | All  | Tables                     | Maps                       | Pages  |       |                                |             |  |  |
| Filters<br>(4) | 4 Filters ⑦ ≪<br><sup>™</sup> Clear all                                  | 1 Result                                   | ables                      | America<br>B010<br>Univers | American Community Survey B01001   SEX BY AGE Universe: Total population |       |                                |             |  |  |
| Results<br>(1) | <ul> <li>☑ B01001 ▲</li> <li>☑ All Block Groups within Bour ×</li> </ul> |  |                            |                            | View: 10   25   50   | Notes | <b>()</b><br>1 Geo 1           | Year Topics |  |  |
|                | ACS 5-Year Estimates Detaile ×   | American Comm<br>B01001   S                | nunity Survey<br>EX BY AGE |                            |  |       |                                |             |  |  |
|                | 1 2017 ×   | 2019: ACS 5-Year Estimates Detailed Tables |                            |                            |  |       | Label<br>✓ Total:              |             |  |  |
|                | Find a Filter  |  |                            |                            |  | V N   | lale:                          |             |  |  |
|                | Q Search   |  |                            |                            |  |       | Under 5 years                  | ;           |  |  |
|                | 123 Codes >  |  |                            |                            |  | _     | 5 to 9 years<br>10 to 14 years | s           |  |  |
|                | Geography >  |  |                            |                            |  |       | 15 to 17 years                 | S           |  |  |
|                |  |  |                            |                            |  |       | 18 and 19 yea                  | irs         |  |  |
|                | I Topics   |  |                            |                            |  |       | 20 years                       |             |  |  |
|                | T Years >  |  |                            |                            |  |       | 21 years<br>22 to 24 years     | s           |  |  |

6. Now you'll download the tables. At the top of the Results section, choose "Download tables." Select the table you want to download by checking the box next to the name and then choose "Download Selected (1)" at the top of the section (highlighted below).

|                |   | B01001                    |              |      |       |         |  |             |             |          |            |                     | ×              | ک Adva       | nced Search            |
|----------------|---|---------------------------|--------------|------|-------|---------|--|-------------|-------------|----------|------------|---------------------|----------------|--------------|------------------------|
|                |   | All                       | Tables       | Maps | Pages |         |  |             |             |          |            |                     |                |              | Mic                    |
| Filters<br>(4) | 4 Filters ⑦ ≪<br>II Clear all   | 1 Result                  |              |      |       | *       | American Community Survey<br>B01001   SEX BY AGE |             |             |          |            |                     |                |              |                        |
| E-<br>Results  | □ B01001 B  | Download S                | Selected (1) |      |       | Cancel  | Univers  | e: Total po | opulation   |          |            |                     |                |              |                        |
| (1)            | Image: Second | View:                     |              |      |       | 25   50 | Notes  | )<br>1 Geo  | 1<br>1 Year | Topics   | 1 Survey   | <u>123</u><br>Codes | 🕅<br>Hide      | Transpose    | +/_<br>Margin of Error |
|                | $\textcircled{1}$ ACS 5-Year Estimates Detaile $\times$   | American Community Survey |              |      |       |         |  |             |             | Bloc     | k Group 1, | Census Tra          | act 301, E     | ourbon Count | y, Kentucky            |
|                | 1 2019 ×  | B01001   SEX BY AGE       |              |      |       | Label   |  |             |             | Estimate |            |                     | Margin of Erro |              |                        |
|                |   |                           |              |      |       |         | ✓ Total  | :           |             |          |            |                     | 1,309          |              | ±25                    |
|                | Find a Filter   |                           |              |      |       |         | ✔ М  | ale:        |             |          |            |                     | 589            |              | ±17                    |
|                | Q Search  |                           |              |      |       |         |  | Under 5 y   | ears        |          |            |                     | 22             |              | ±ź                     |
|                | -   |                           |              |      |       |         |  | E to 0      |             |          |            |                     | 0              |              | . 4                    |

- 7. The file downloaded will be in a tabular format (CSV), which you can open in Excel or other similar processing software.
- 8. Next, you'll need to get the spatial data to be able to use your tabular data. <u>TIGER/Line</u> is the official source of spatial data for the U.S. Census Bureau. It's important to make sure that you download the same vintage as tabular data. For the table above, recall that the year 2019 was selected. Choose the same year on the TIGER/Line homepage and navigate to either the web interface or the FTP archive. Either way, you'll have to download the data at the state-level.
  - a. If you use the web interface, you'll navigate through a series of menus to download the required data. For this example, select the year "2019" and "block groups" from the drop down menus, click Submit. Next, you'll choose the state and click Download.
  - b. If you use the FTP archive, you'll need to have some familiarity with the Census geography abbreviations and state FIPS code in order to download the data.
- 9. Finally, prepare the data, both spatial and tabular, to be joined and used in the project.
  - a. Starting with the spatial data, add the data to a new map and open the attribute table. You'll notice the field "GEOID" is a string. It needs to be a number so that the tabular data can be joined. Add a new field, call it "GEOID\_join" and make it a double. Right click the new field and choose calculate to copy the GEOID field data over as a number.

| 💽 Map 🗙   | 1 This tool modifies the input data.      | <                              |
|---|---|--------------------------------|
| top 2   | Input Table                               |                                |
| uis   | tl_2019_21_bg 🗾 🗧 🦳                       | Wayne National<br>Forest       |
|   | Field Name (Existing or New)              |                                |
| m   | GEOID_join •                              |                                |
| ja B  | Expression Type                           |                                |
| Song Song   | Python 3 -                                |                                |
| A Charles and the second se | Expression                                |                                |
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| Cape Girardeau  | FID                                       | ROLLER BURN                    |
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| III tl_2019_21_bg × 🖫 Fields: tl_2019_21_bg   | GEOID denominator()                       |                                |
| Field: 🖽 Add 🗰 Calculate Selection: 🔚 Sele  |   | =                              |
|   | Insert Values * * / + - =                 |                                |
| P TRACTCE BLKGRPCE GEOID  | GEOID_join =                              | PTLAT INTPTLON GEOID_join      |
| 1         960200         3         211779602003   | !GEOID!                                   | 2897419 -087.1055798 0         |
| 2 950100 2 21157 <u>9501002</u>   | Code Block                                | 0302297 -088.3823132 0         |
| 3 950300 1 211579503001   | ÷   | 9777438 -088.3148114 0         |
| 4 950400 3 211579504003   |   | 8647471 -088.3846996 0         |
| 5 950600 1 211579506001   | Enable Undo Apply OK                      | 9256394 -088.2371777 0         |
| 6 960200 2 212339602002   | Block Group 2 G5030 S 101953345 688872 +3 | 7.4949032 -087.6567356 0       |

- b. Open the tabular data in Excel or other similar software.
  - i. You'll notice that the GEO\_ID column contains a lot more than the join field you just created. Edit the table to remove everything before and including "US" by using Find and Replace:

| GEO_ID                | NA  |
|-----------------------|-----|
| id                    | Ge  |
| 1500000US210170301001 | Blc |
| 1500000US210170301002 | Blc |
| 1500000US210170301003 | Blc |
|                       | -   |

This is what needs to be removed and will be entered into "Find what"  $\rightarrow$ 

| A            | В                                    | C        |       |
|--------------|--------------------------------------|----------|-------|
| GEO_ID       | NAME                                 | B01001 0 | (B01( |
| id           | Geogra Find and Replace              |          |       |
| 210170301001 | Block G                              |          |       |
| 210170301002 | Block G Find Replace                 |          |       |
| 210170301003 | Block G Find what: 1500000US         |          |       |
| 210170301004 | Block G                              |          |       |
| 210170301005 | Block G                              |          |       |
| 210170302001 | Block G                              |          |       |
| 210170302002 | Block G                              |          |       |
| 210170302003 | Block G                              |          |       |
| 210170302004 | Block G Replace All Replace Find All | Find Ne  | ext   |

Enter the highlighted values into "Find what" and nothing in "Replace with." Choose "Replace all."

- ii. Ensure that your new column A (GEO\_ID) is a numeric value by right clicking the A column and choosing *Format cells*. Select Number and make the decimal places 0, click OK.
- Finally, delete the second row (the overlay row) of the table. Save the table to a new file.
   As you will likely have several Census tables, consider using a standard naming structure throughout the project. Close the file after you've saved it.
- c. Add the new CSV to the same map.
- d. Right click the spatial data in the table of contents and choose Joins and Relates > Add Join.
  - i. Be sure to add the field you created in the spatial data, not the original string field.
  - ii. Uncheck "Keep all target features" to only keep the features within your tabular data.



Add join settings for the spatial and tabular data.

e. Right click the joined layer in the table of contents and choose Data > Export Features. As you will likely have several Census-related shapefiles, consider using a standard naming structure throughout the project.

Some social vulnerability metrics require calculations within a single table. This can either be done in Excel or GIS.

### Social Vulnerability Indicators

|   |          | Block Gro  | pup  |          | Tracts                       |  |       |
|---|----------|--|--|----------|------------------------------|--|-------|
| Variable  | Table ID | Fields and/or<br>Calculation   | Table Name   | Table ID | Fields and/or<br>Calculation | Table Name   | Notes |
| Total<br>Population   | B01003   | B01003_001E  | Total Population   |          |                              |  |       |
| Total people<br>below<br>poverty                                | B17021   | B17021_02E   | Poverty Status of<br>Individuals in the<br>past 12 months by<br>living arrangement       | B17001   | B17001_002E                  | Poverty Status in<br>the last 12 months<br>by sex by age                                 |       |
| Total people<br>unemployed<br>(ages 16+)                        | B23025   | B23025_005E  | Employment Status<br>for the Population<br>16 years and over                             | DP03     | DP03_0005E                   | Selected Economic<br>Characteristics   |       |
| Income per<br>person  | B19301   | B19301_001E  | Per capita income in<br>the last 12 months<br>(in 2019<br>inflation-adjusted<br>dollars) | B19301   | B19301_001E                  | Per capita income<br>in the past 12<br>months (in 2019<br>inflation-adjusted<br>dollars) |       |
| Total people<br>with no high<br>school<br>diploma<br>(ages 25+) | B15003   | B15003_002E +<br>B15003_003E +<br>B15003_004E +<br>B15003_005E +<br>B15003_006E +<br>B15003_007E +<br>B15003_008E +<br>B15003_009E +<br>B15003_010E +<br>B15003_011E +<br>B15003_012E +<br>B15003_013E + | Educational<br>attainment for the<br>population 25 years<br>and over                     | B06009   | B06009_002E                  | Place by birth by<br>educational<br>attainment in the<br>United States                   |       |

|   |          | Block Gro  | pup  |          | Tracts                       |  |       |
|---|----------|--|--|----------|------------------------------|--|-------|
| Variable  | Table ID | Fields and/or<br>Calculation   | Table Name   | Table ID | Fields and/or<br>Calculation | Table Name   | Notes |
|   |          | B15003_014E +<br>B15003_015E +<br>B15003_016E  |  |          |                              |  |       |
| Total people<br>aged 65 and<br>older                              | B01001   | B01001_020E +<br>B01001_021E +<br>B01001_022E +<br>B01001_023E +<br>B01001_024E +<br>B01001_025E +<br>B01001_044E +<br>B01001_044E +<br>B01001_046E +<br>B01001_047E +<br>B01001_048E +<br>B01001_049E | Sex by Age   | S0101    | S0101_C01_030E               | Age and Sex  |       |
| Total people<br>aged 17 and<br>younger                            | B01001   | B01001_006E +<br>B01001_005E +<br>B01001_004E +<br>B01001_003E +<br>B01001_030E +<br>B01001_029E +<br>B01001_028E +<br>B01001_027E   | Sex by Age   | B09001   | B09001_001E                  | Population under<br>18 years by age                        |       |
| Total single<br>parent<br>households<br>with children<br>under 18 | B09002   | B09002_009E +<br>B09002_015E   | Own Children under<br>18 years by Family<br>Type and Age | DP02     | DP02_0007E +<br>DP02_0009E   | Selected social<br>characteristics in<br>the United States |       |

|   |          | Block Gro   | oup   |          | Tracts   |  |       |
|---|----------|---|---|----------|--|--|-------|
| Variable  | Table ID | Fields and/or<br>Calculation  | Table Name  | Table ID | Fields and/or<br>Calculation   | Table Name   | Notes |
| Total<br>minority<br>population<br>(all persons<br>except white,<br>non-hispanic) | B02001   | [TOTAL<br>POPULATION -<br>B02001_002E]  | Race  | B01001H  | [TOTAL<br>POPULATION -<br>B01001H_001E]  | Sex by age (white<br>alone, not hispanic<br>or latino)   |       |
| Total people<br>aged 5+ who<br>speak<br>English "less<br>than well"               | B16004   | $B16004_007E + B16004_029E + B16004_029E + B16004_008E + B16004_030E + B16004_032E + B16004_012E + B16004_034E + B16004_034E + B16004_035E + B16004_035E + B16004_035E + B16004_037E + B16004_039E + B16004_039E + B16004_040E + B16004_040E + B16004_040E + B16004_040E + B16004_042E + B16004_042E + B16004_042E + B16004_042E + B16004_042E + B16004_045E + B16004_045E + B16004_045E + B16004_045E + B16004_067E$ | Age by Language<br>Spoken at home by<br>ability to speak<br>english for the<br>population 5 years<br>and over | B16005   | $B16005_007E + B16005_008E + B16005_012E + B16005_013E + B16005_017E + B16005_018E + B16005_022E + B16005_023E + B16005_029E + B16005_030E + B16005_034E + B16005_035E + B16005_039E + B16005_049E + B16005_044E + B16005_045E + $ | Nativity by<br>language spoken<br>at home by ability<br>to speak english<br>for the population<br>5 years and over |       |

|   | Block Group |  |  | Tracts   |                              |                                     |       |
|---|-------------|--|--|----------|------------------------------|-------------------------------------|-------|
| Variable  | Table ID    | Fields and/or<br>Calculation   | Table Name   | Table ID | Fields and/or<br>Calculation | Table Name                          | Notes |
| Total number<br>of housing<br>structures<br>with 10 or<br>more units  | B25024      | B25024_007E +<br>B25024_008E +<br>B25024_009E  | Units in Structure   | DP04     | DP04_0012E +<br>DP04_0013E   | Selected Housing<br>Characteristics |       |
| Total number<br>of housing<br>units with<br>more people<br>than rooms | B25014      | B25014_005E +<br>B25014_006E +<br>B25014_007E +<br>B25014_011E +<br>B25014_012E +<br>B25014_013E | Tenure by<br>Occupants per<br>Room                               | DP04     | DP04_0014E                   | Selected Housing<br>Characteristics |       |
| Total number<br>of mobile<br>homes                                    | B25024      | B25024_010E  | Tenure by Vehicle<br>Available                                   | DP04     | DP04_0058E                   | Selected Housing<br>Characteristics |       |
| Total number<br>of people in<br>group<br>quarters                     | B09019      | B09019_026E  | Household type<br>(including living<br>alone) by<br>relationship | B26001   | B26001_001E                  | Group Quarters<br>Population        |       |