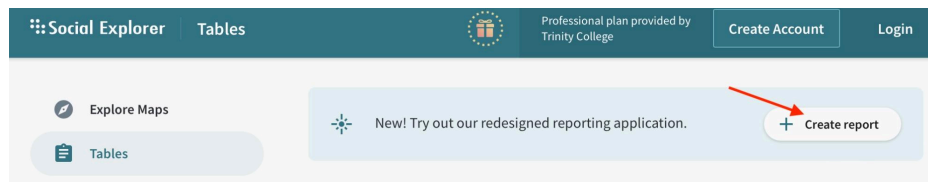


Social Explorer Census tutorial for [DataVizForAll.org](https://datavizforall.org) at Trinity College, Fall 2024

Ideally, we would download US Census data from its public site: <https://data.census.gov>. But in my opinion, the US Census data site is not simple for first-time users to navigate. Instead, we'll download US Census data from Social Explorer, a proprietary platform that is easier to use, but requires a subscriber license, paid by Trinity College Library, available to Trinity network users at this address: <https://courseguides.trincoll.edu/socialexplorer>

The top of the screen should say "provided by Trinity College." Optional: create a free login

- **Explore Maps** – to view pre-made visualizations of common Census data
- **Tables** – to download spreadsheet data to analyze and create our own visuals
- In Tables, click **Create report** – easy-to-navigate tool for first-time users

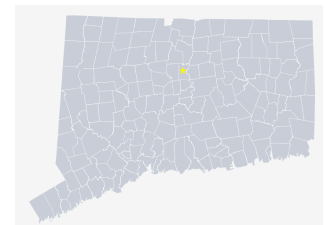


Choose a survey/year

- AVOID US Decennial 2020 Census in most cases because preliminary data is very limited
- Click **American Community Survey (ACS) 2018-2022 (5-year estimates)**, then Begin report

Select geographies – Add geographies by type

- Click **County Subdivision (equivalent to Connecticut Towns)**
 - Click ... within Connecticut
 - Click "All County Subdivisions in Connecticut" (169 Towns)
- then the Add button, then Next in upper-right corner



040 ... State
050 ... County
060 ... County Subdivision
067 ... Subminor Civil Division (In Puerto Rico Only)
070 ... Place/Remainder
140 ... Census Tract

Click Search for Tables with common demographics for this course (but NOT always in order!)

- A00001: Total Population
- A00002: Population Density (Per Sq. Mile)
- A01001: Age (see how the Census currently groups ages)
- A02001: Sex (see how the Census currently defines gender)
- A04001: Hispanic or Latino by Race (see how Census currently defines race & ethnicity)
- A08001: Residence 1 Year Ago in the United States
- A08002B: Geographical Mobility in the Past Year (Renter-Occupied Housing Units)
- A14006: Median Household Income (in 2022 Inflation Adjusted Dollars)
- A10044: Occupancy Status (Housing Units: Occupied and Vacant)
- A10060: Tenure (Occupied Housing Units: Owner Occupied and Renter Occupied)
- A10036: Median House Value for All Owner-Occupied Housing Units (adjustable dollars)

A18010: Median Gross Rent by Bedrooms (in adjustable dollars)

Click Add button, then Create Report

On the data page below, inspect your results and then

- Click Download As CSV icon
- Check box: Output column labels in the first row
- Click Download arrow icon

American Community Survey (ACS) 2018--2022
(5-Year-Estimates)

Save as More options ? Professional plan provided by Trinity College Library Create Account Login

	Andover town, Capitol Planning Region, Connecticut	Avon town, Capitol Planning Region, Connecticut	Berlin town, Capitol Planning Region, Connecticut
SE:A01001:Age			
Total Population:	3,160	18,852	20,149
Under 5 Years	112 3.5%	927 4.9%	1,080 5.4%
5 to 9 Years	157 5.0%	1,116 5.9%	1,088 5.4%
10 to 14 Years	78 2.5%	1,521 8.1%	996 4.9%
15 to 17 Years	161 5.1%	852 4.5%	929 4.6%
18 to 24 Years	299 9.5%	938 5.0%	1,486 7.4%

Download data in CSV format ?

Download options

- ☒ Output column labels in the first row
- ☐ Output ALL geographic identifiers
- ☐ Output percents (first variable in each table is the base)
- ☐ Output DBF friendly column names
- ☐ TAB delimited files (STATA users should use this option to make import more efficient & accurate!)

Download data by geography type

County Subdivision (CSV)

Your data will download with a filename **similar** to: R130000984_SL060.csv

Upload and convert the CSV file to Google Sheets format in your Google Drive

Rename Google Sheet with key source info such as: ct-towns-age-acs2018-2022

Source your data by adding a Notes tab and describe where it came from

Clean your data

- Keep the most useful columns in the sample below (your download may look different)
 - AP is Area Name (cleanest version, without County or Planning Region names)
 - AT is Total Population
 - AU begins Total Population by Age Group (under 5, ages 5-9, etc.)
- Delete unnecessary columns:
 - In the sample below, delete unnecessary columns A-AO; delete after AU
- Keep column headers in the 1st row, and delete code numbers in the 2nd row
- Find and delete rows labeled "County subdivisions not defined" (coastal water areas)
- Change "Area Name" to "Town"
- Use Find & Replace to remove "town" (remember to include a blank space before word)

AP	AQ	AR	AS	AT	AU	
Area Name	Tribal Tract	Tribal Block Group	Place (State FIP)	Total Population:	Total Population: Under 5	Total
Geo_NAME	Geo_BTTR	Geo_BTBG	Geo_PLACSE	SE_A01001_001	SE_A01001_002	SE
County subdivisions not defined				0	0	
Andover town				3160	112	
Avon town				18852	927	
Berlin town				20149	1080	
Bloomfield town				21460	628	
Bolton town				4851	134	
Canton town				10125	552	
Columbia town				5280	171	

After you download CT town-level data, then download Census tract-level data

Follow steps above similar to Tables > Create Report, with key differences:

- for Geography, select Census Tract

040 ... State

050 ... County

060 ... County Subdivision

067 ... Subminor Civil Division (In Puerto Rico Only)

070 ... Place/Remainder

140 ... Census Tract

- for State, select Connecticut

- for County, select within Capitol Region Planning Area (in place of former “Hartford County”)

All Census Tracts in Connecticut

Within (Counties)

Capitol Planning Region, Connecticut

Greater Bridgeport Planning Region, Connecticut

- select All Census Tracts in Capitol Planning Region (the metro Hartford area)

All > Connecticut > Capitol Planning Region

Search geographic items

All Census Tracts in Capitol Planning Region, Connecticut

Select individual Census Tracts

Census Tract 4001.01, Capitol Planning Region, Connecticut

- Add, then Next for Tables, and follow similar steps as above

- Clean the Census Tract data and keep key columns like those in this sample (yours may differ)
AP is Area Name (change column header to Tract; Remove "Census Tract " in each row)
AT onward is the relevant data

	AP	AQ	AR	AS	AT	AU
rc	Area Name	Tribal Tract	Tribal Block Grot	Place (State FIP	Total Population	Population Density
	Geo_NAME	Geo_BTTR	Geo_BTBG	Geo_PLACESE	SE_A00002_001	SE_A00002_002
	Census Tract 4001.01				2945	670.5682
	Census Tract 4001.02				4266	1345.655
	Census Tract 4002				6250	491.1006
	Census Tract 4003				6688	1110.353
	Census Tract 4153				2621	12543.62
	Census Tract 4154				6046	5829.58