NSF's
Regional Innovation
Engines Program

NSF ENGINES

Region of Service Map Builder Guide

Using data.census.gov
Basic Mapping

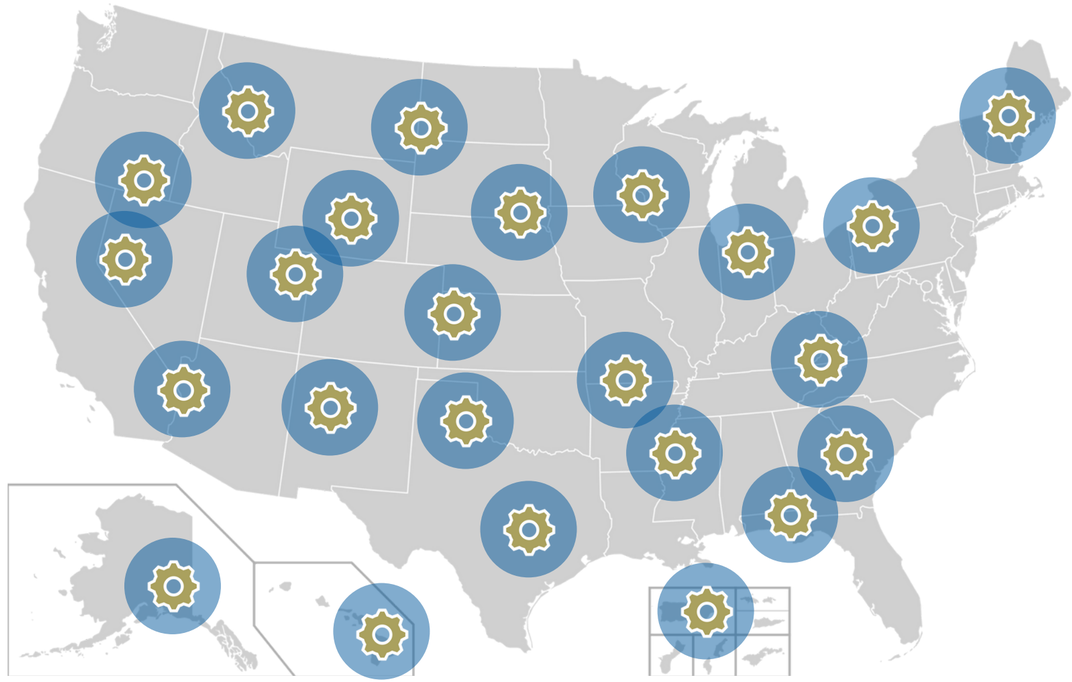
Purpose

As part of your Type-2 NSF Engines application, a Region of Service (RoS) Map Builder is required as a supplemental document.

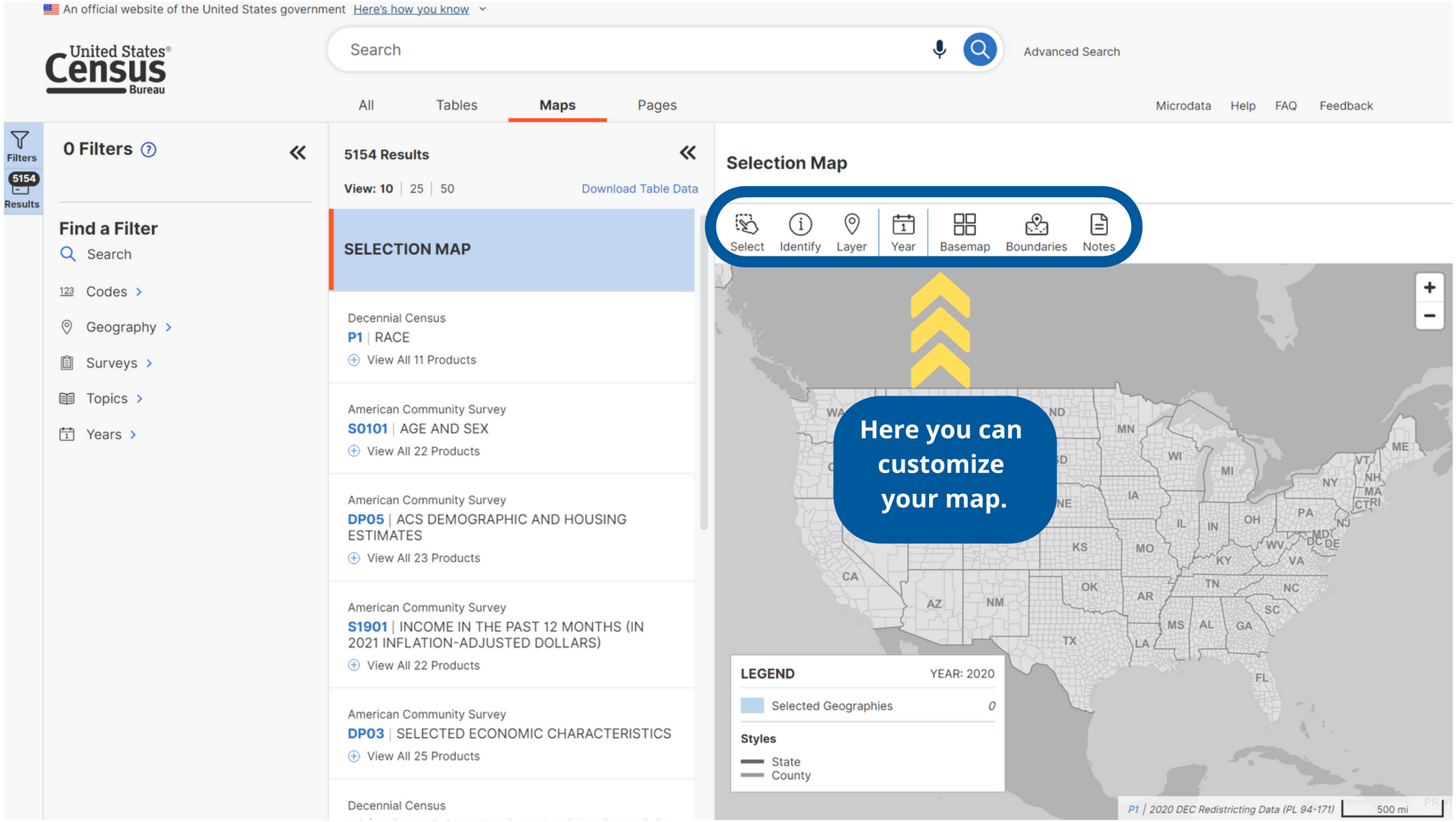
NSF is collecting this information to gain a precise understanding of your defined region of service and the overall geographic distribution of NSF Engine applicants.

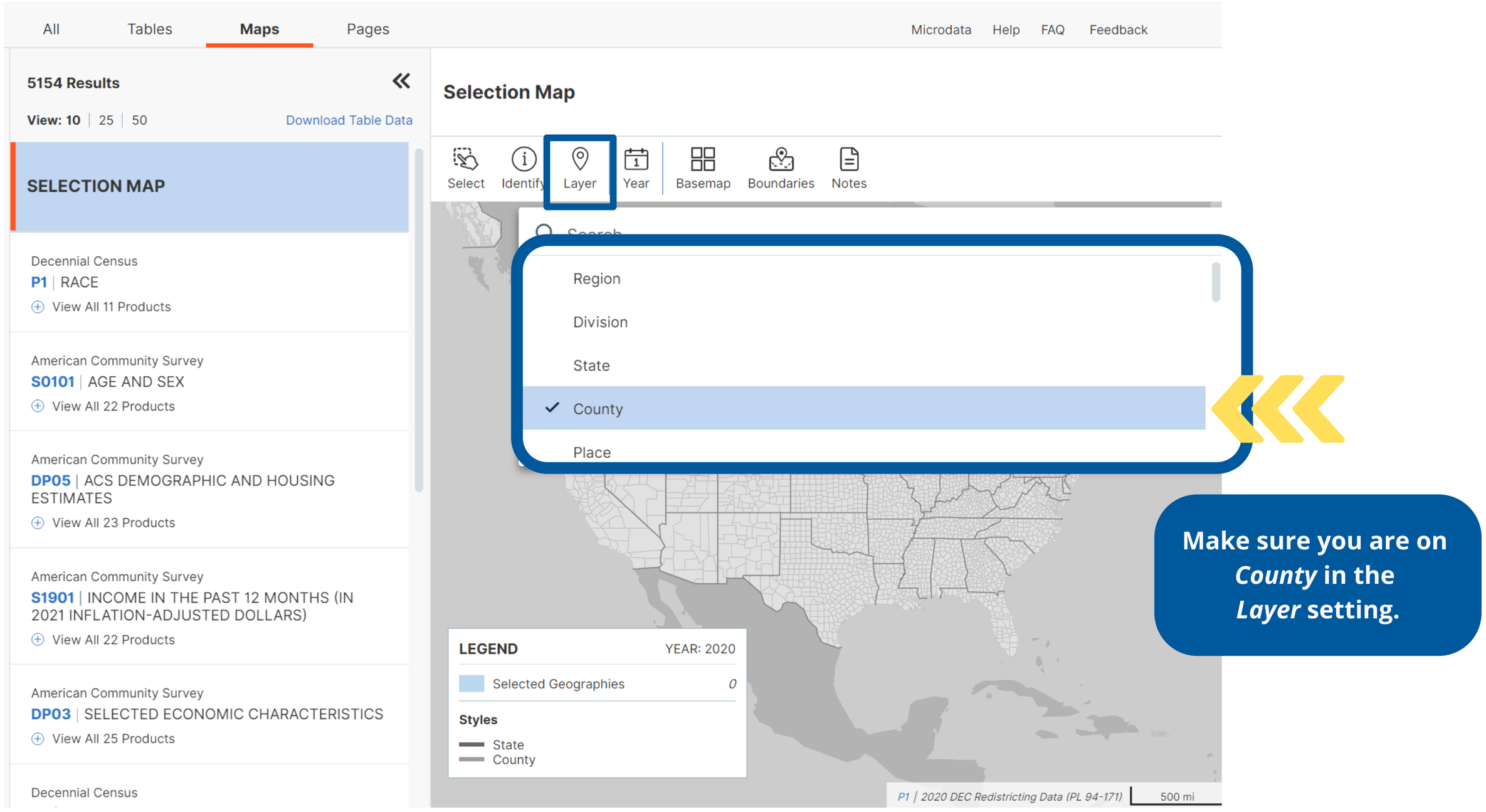
To help facilitate the uniformity of your customized map, the Engines team has identified a two step process:

1) Draw RoS using the Census Mapping Tool
2) Compile in the RoS Map Builder

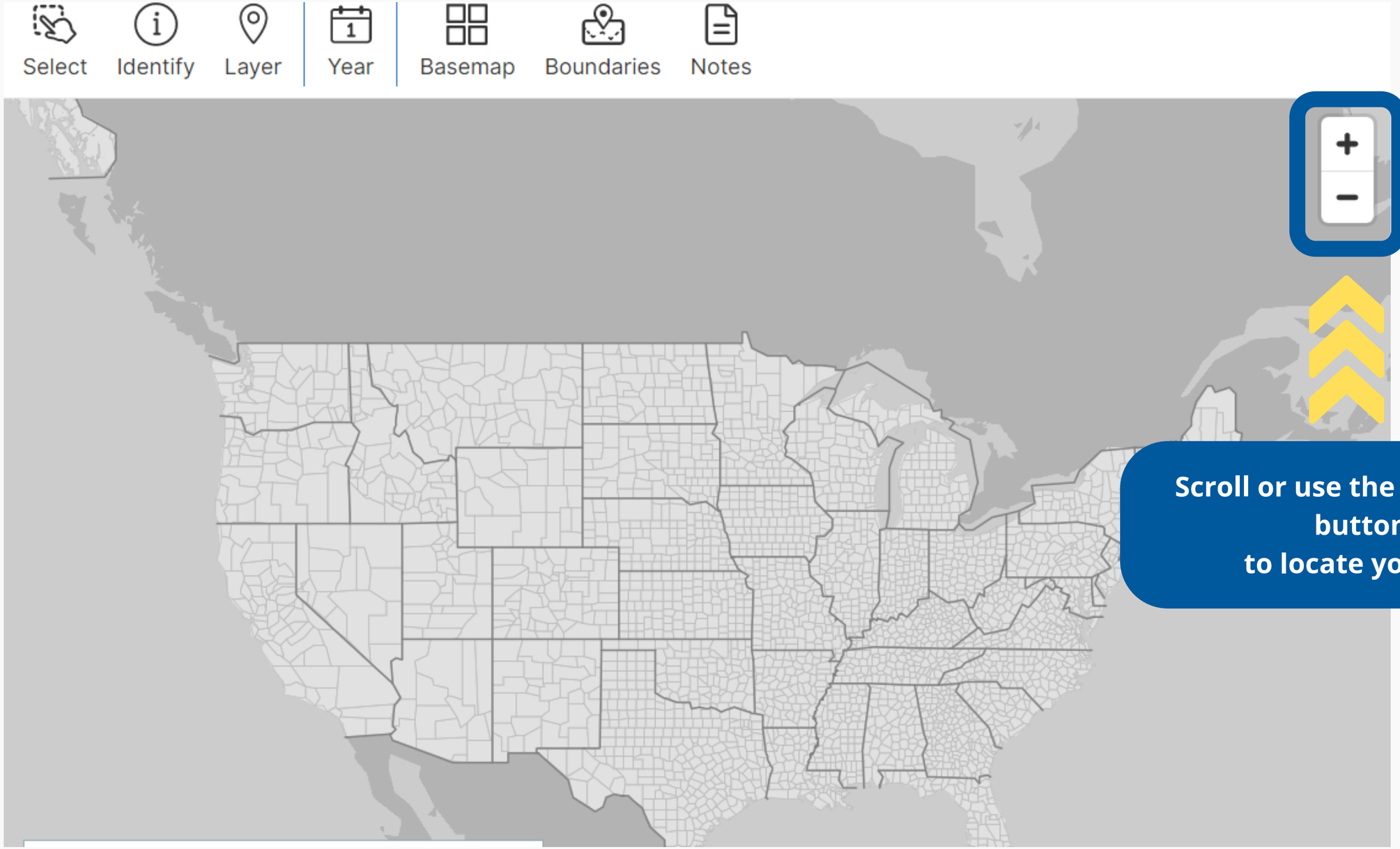


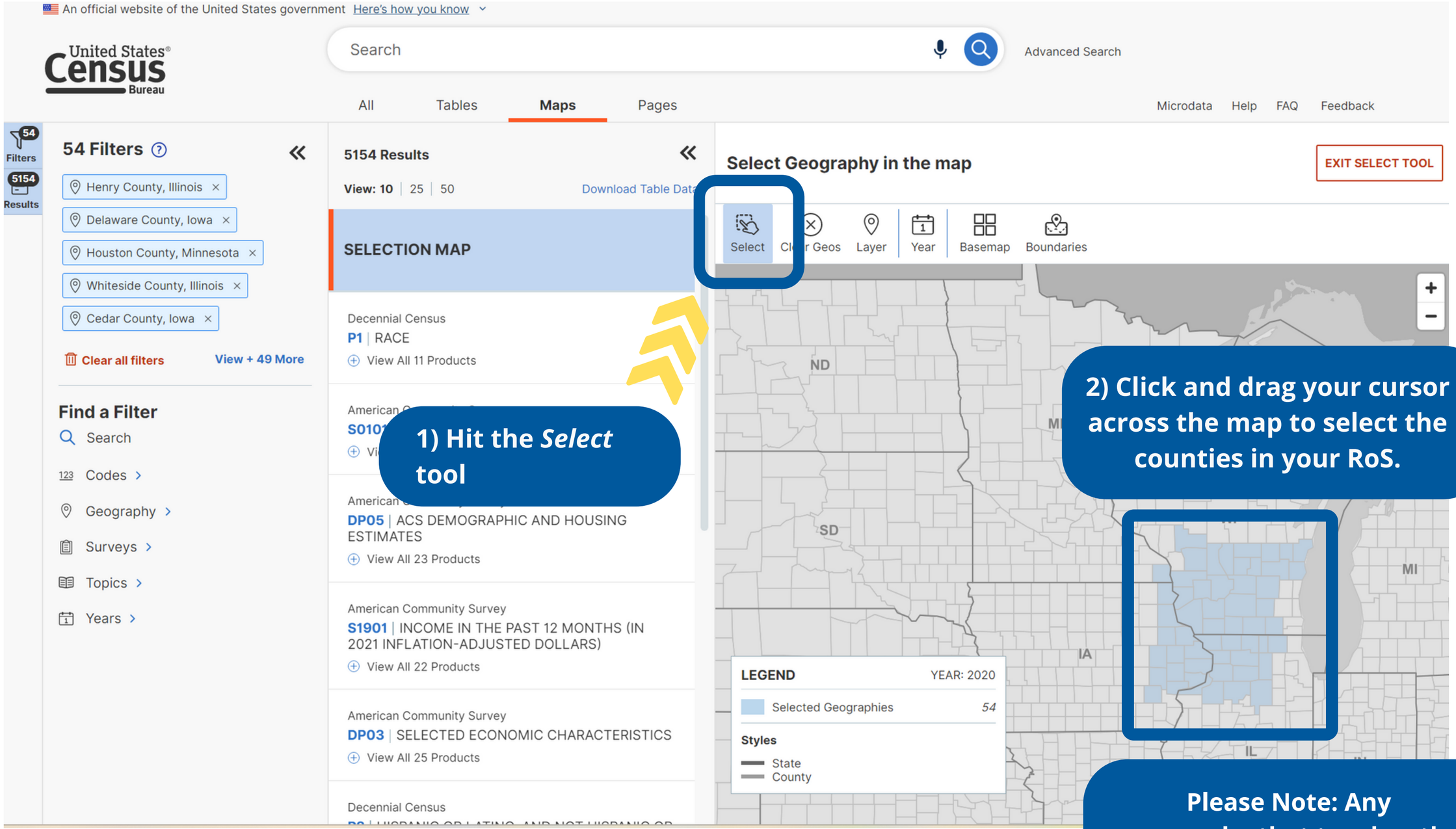
https://data.census.gov/cedsci/map?layer=VT_2020_050_00_PY_D1



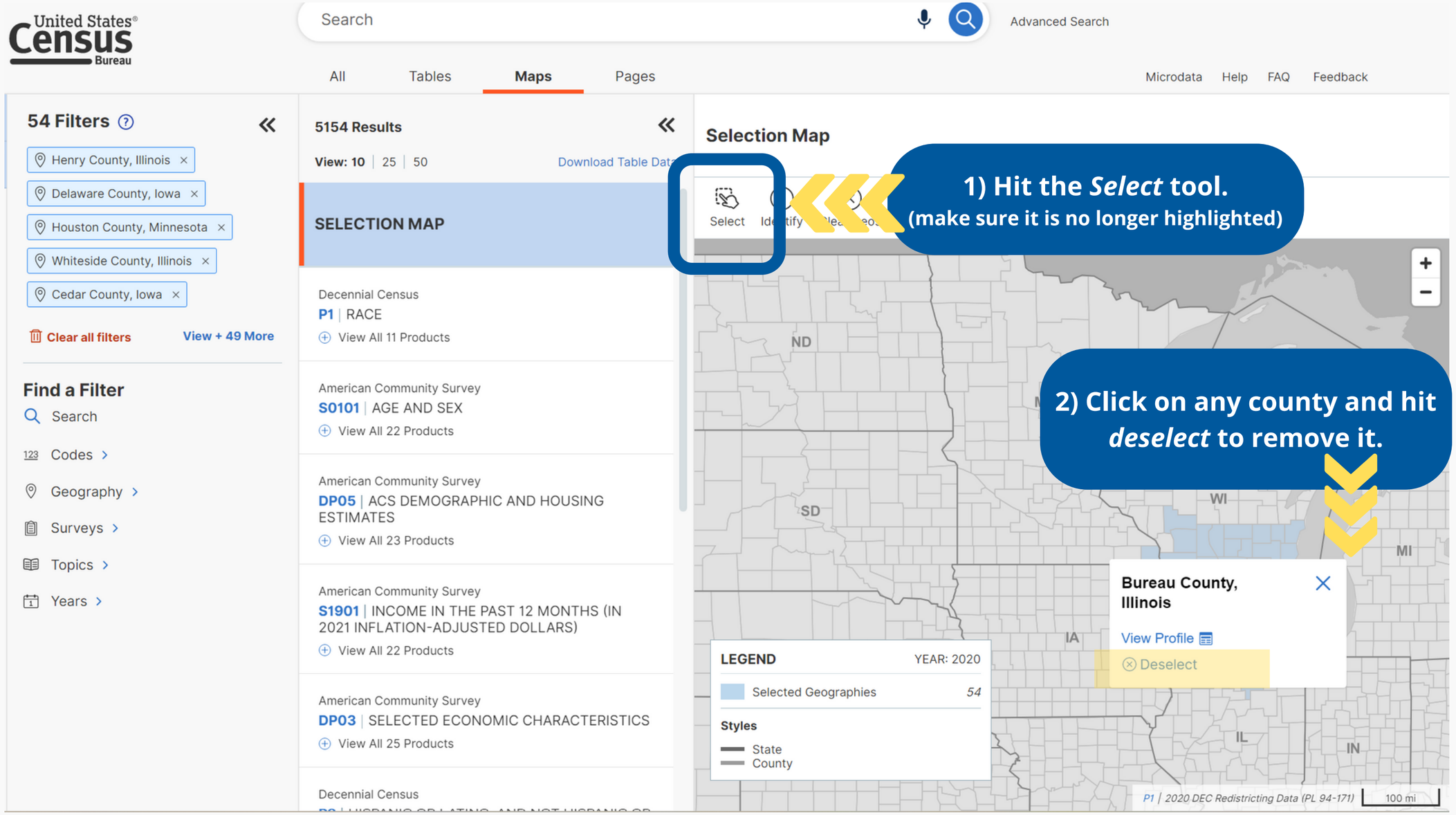


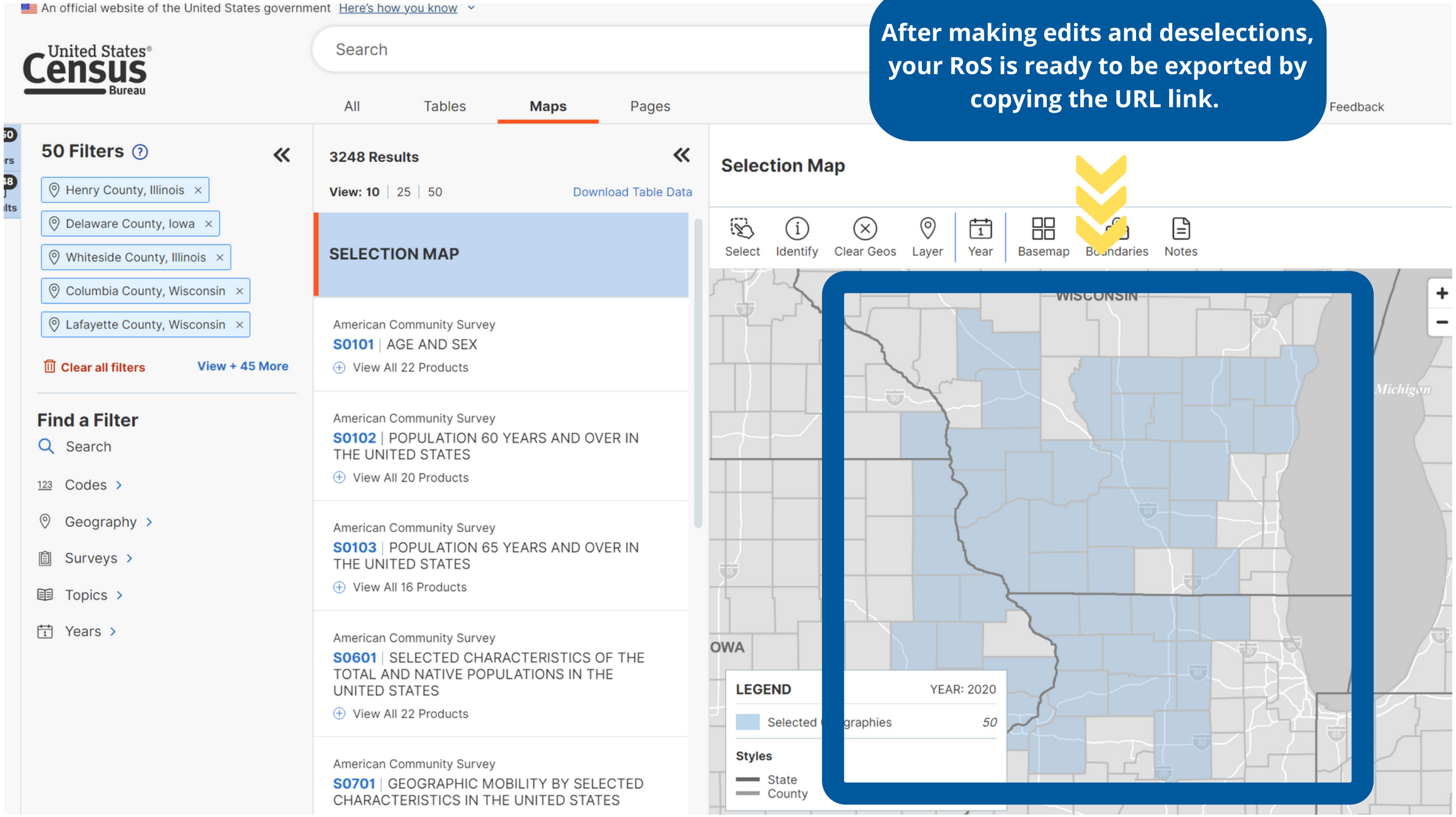
Make sure you are on *County* in the *Layer* setting.

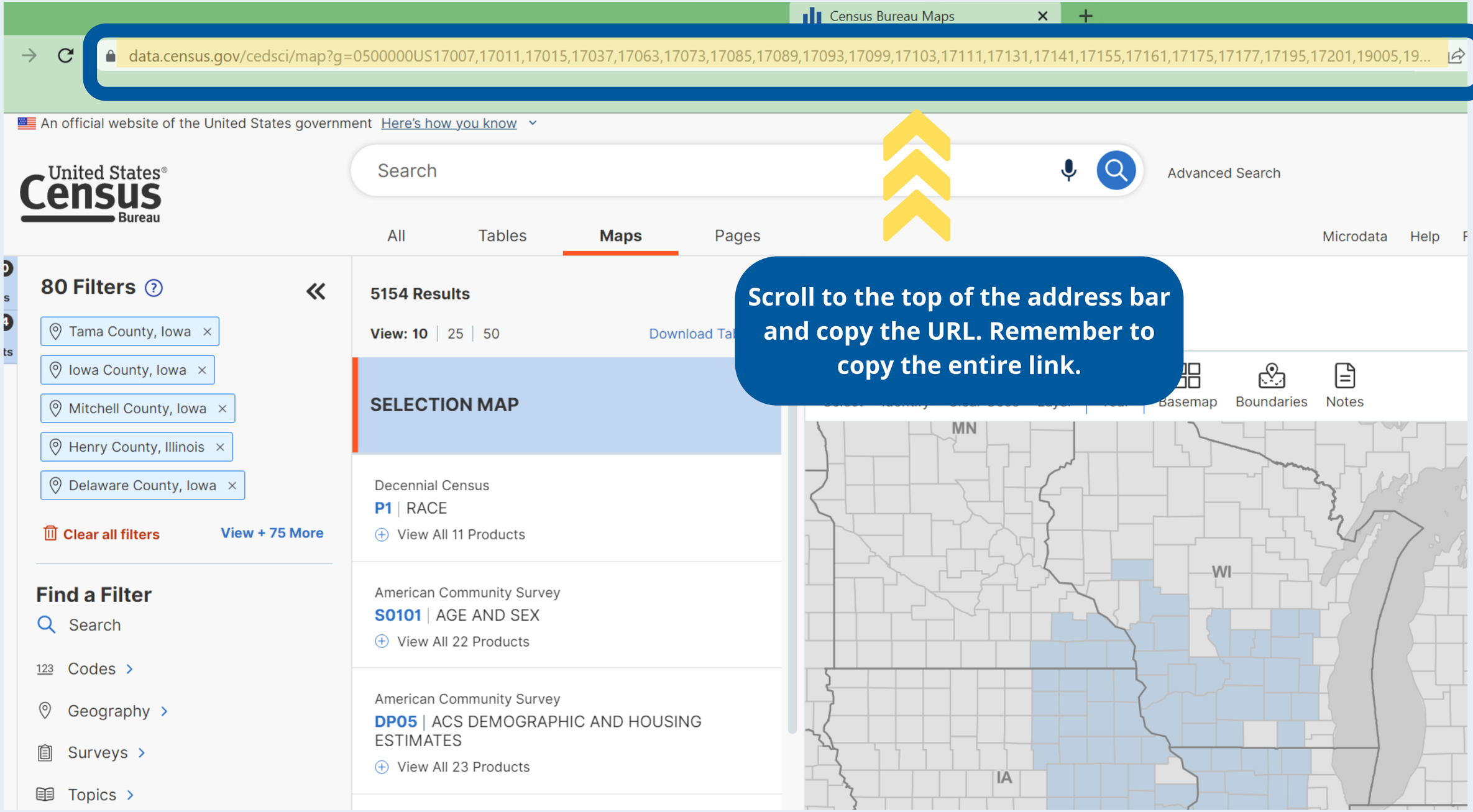

Select
Identify
Layer
Year
Basemap
Boundaries
Notes
Scroll or use the zoom in/out buttons
to locate your RoS.


An official website of the United States government Here's how you know
United States Census Bureau
Search
Advanced Search
All
Tables
Maps
Pages
Microdata
Help
FAQ
Feedback
54 Filters
5154 Results
54 Filters
Henry County, Illinois
Delaware County, Iowa
Houston County, Minnesota
Whiteside County, Illinois
Cedar County, Iowa
Clear all filters
View + 49 More
Find a Filter
Search
Codes
Geography
Surveys
Topics
Years
5154 Results
View: 10 | 25 | 50
Download Table Data
SELECTION MAP
Decennial Census
P1 | RACE
View All 11 Products
DP05 | ACS DEMOGRAPHIC AND HOUSING ESTIMATES
View All 23 Products
American Community Survey
S1901 | INCOME IN THE PAST 12 MONTHS (IN 2021 INFLATION-ADJUSTED DOLLARS)
View All 22 Products
American Community Survey
DP03 | SELECTED ECONOMIC CHARACTERISTICS
View All 25 Products
Decennial Census
Select
Layer
Year
Basemap
Boundaries
Select Geography in the map
EXIT SELECT TOOL
ND
SD
IA
MI
IL
LEGEND
YEAR: 2020
Selected Geographies
54
Styles
State
County
1) Hit the Select tool
2) Click and drag your cursor across the map to select the counties in your RoS.
Please Note: Any geography that touches the rectangle will be added.

Refining your Region of Service Selection




An official website of the United States government Here's how you know
United States Census Bureau
Search
All
Tables
Maps
Pages
Feedback
After making edits and deselections, your RoS is ready to be exported by copying the URL link.
50 Filters
Henry County, Illinois
Delaware County, Iowa
Whiteside County, Illinois
Columbia County, Wisconsin
Lafayette County, Wisconsin
Clear all filters
View + 45 More
Find a Filter
Search
Codes
Geography
Surveys
Topics
Years
3248 Results
View: 10 | 25 | 50
Download Table Data
SELECTION MAP
American Community Survey
S0101 | AGE AND SEX
View All 22 Products
American Community Survey
S0102 | POPULATION 60 YEARS AND OVER IN THE UNITED STATES
View All 20 Products
American Community Survey
S0103 | POPULATION 65 YEARS AND OVER IN THE UNITED STATES
View All 16 Products
American Community Survey
S0601 | SELECTED CHARACTERISTICS OF THE TOTAL AND NATIVE POPULATIONS IN THE UNITED STATES
View All 22 Products
American Community Survey
S0701 | GEOGRAPHIC MOBILITY BY SELECTED CHARACTERISTICS IN THE UNITED STATES
Selection Map
Select
Identify
Clear Geos
Layer
Year
Basemap
Boundaries
Notes
WISCONSIN
Michigan
OWA
LEGEND
YEAR: 2020
Selected graphies 50
Styles
State
County


Census Bureau Maps
data.census.gov/cedsci/map?g=0500000US17007,17011,17015,17037,17063,17073,17085,17089,17093,17099,17103,17111,17131,17141,17155,17161,17175,17177,17195,17201,19005,19...
An official website of the United States government Here's how you know
United States Census Bureau
Search
Advanced Search
All
Tables
Maps
Pages
Microdata
Help
80 Filters
Tama County, Iowa
Iowa County, Iowa
Mitchell County, Iowa
Henry County, Illinois
Delaware County, Iowa
Clear all filters
View + 75 More
Find a Filter
Search
Codes
Geography
Surveys
Topics
5154 Results
View: 10 | 25 | 50
Download Tab
SELECTION MAP
Decennial Census
P1 | RACE
View All 11 Products
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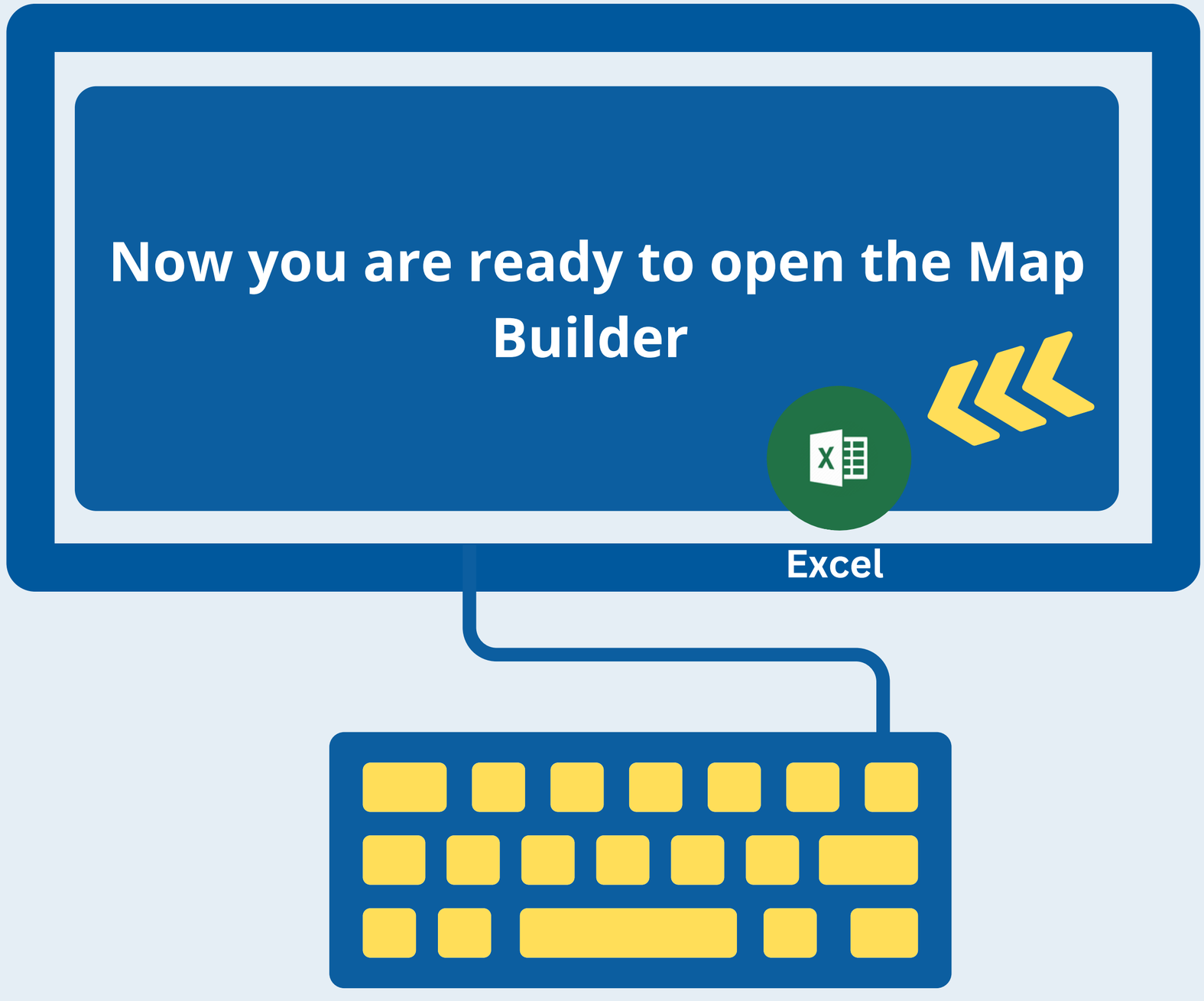
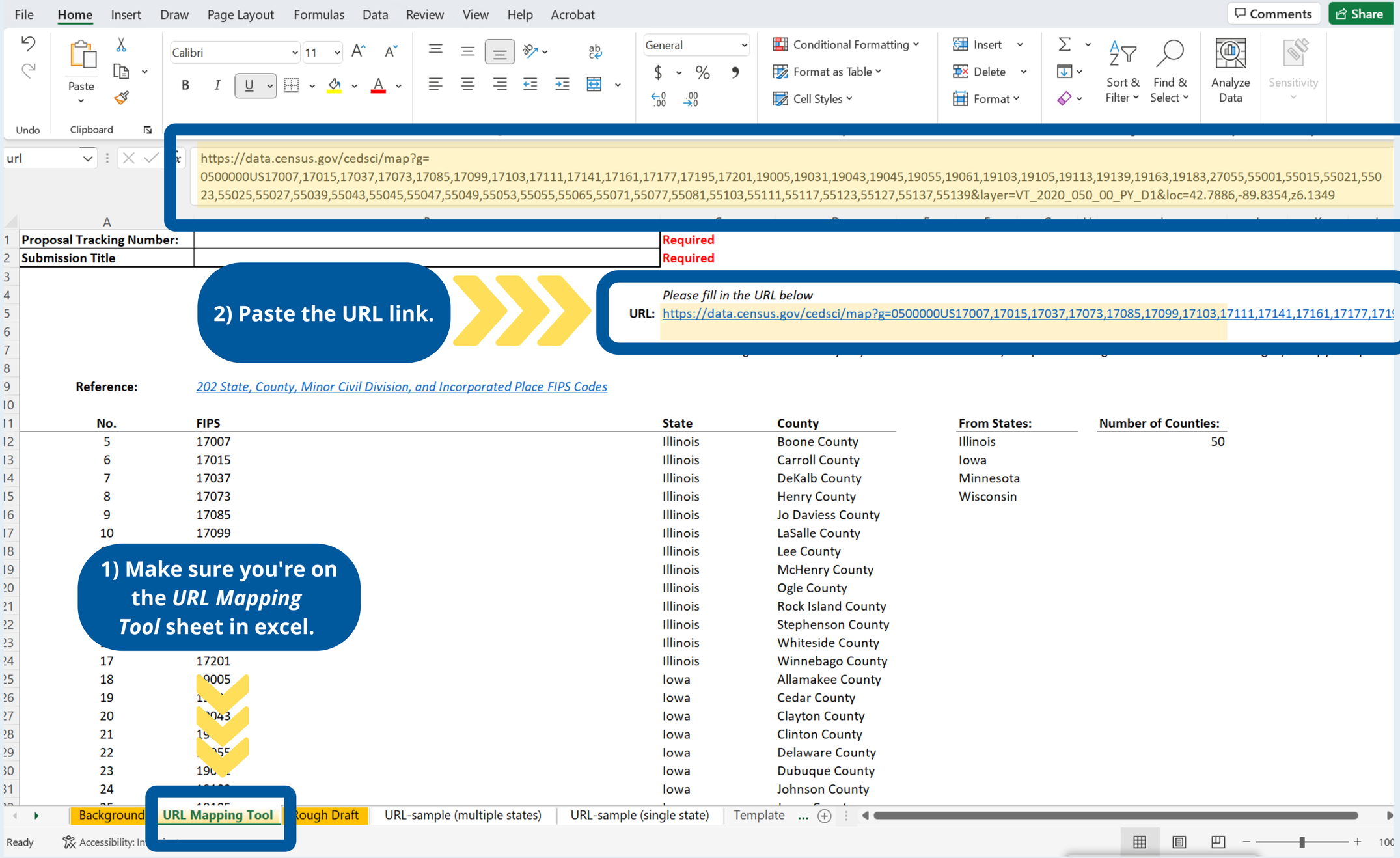
S0101 | AGE AND SEX
View All 22 Products
American Community Survey
DP05 | ACS DEMOGRAPHIC AND HOUSING ESTIMATES
View All 23 Products
Basemap
Boundaries
Notes
MN
WI
IA
Scroll to the top of the address bar and copy the URL. Remember to copy the entire link.

Now you are ready to open the Map Builder

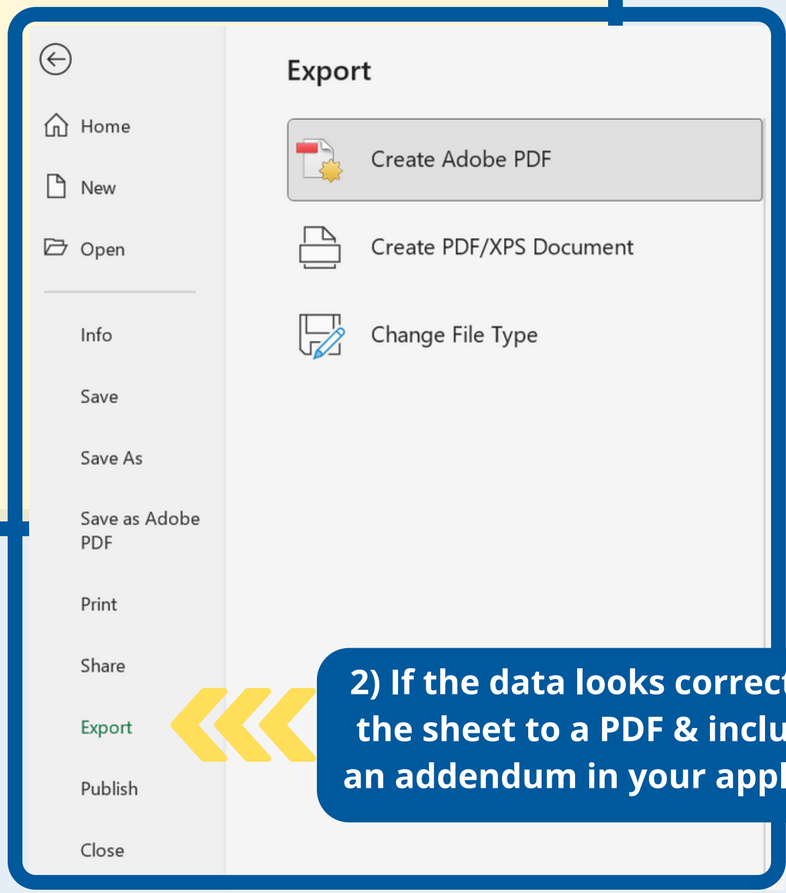



File Home Insert Draw Page Layout Formulas Data Review View Help Acrobat
Comments Share
Paste Undo Clipboard
Calibri 11
General
Conditional Formatting
Format as Table
Cell Styles
Insert Delete Format
Sort & Filter
Find & Select
Analyze Data
Sensitivity
url
https://data.census.gov/cedsci/map?g=0500000US17007,17015,17037,17073,17085,17099,17103,17111,17141,17161,17177,17195,17201,19005,19031,19043,19045,19055,19061,19103,19105,19113,19139,19163,19183,27055,55001,55015,55021,55023,55025,55027,55039,55043,55045,55047,55049,55053,55055,55065,55071,55077,55081,55103,55111,55117,55123,55127,55137,55139&layer=VT_2020_050_00_PY_D1&loc=42.7886,-89.8354,z6.1349
Proposal Tracking Number: Required
Submission Title Required
2) Paste the URL link.
Please fill in the URL below
URL: https://data.census.gov/cedsci/map?g=0500000US17007,17015,17037,17073,17085,17099,17103,17111,17141,17161,17177,171
Reference: 202 State, County, Minor Civil Division, and Incorporated Place FIPS Codes
No. FIPS State County
5 17007 Illinois Boone County
6 17015 Illinois Carroll County
7 17037 Illinois DeKalb County
8 17073 Illinois Henry County
9 17085 Illinois Jo Daviess County
10 17099 Illinois LaSalle County
Illinois Lee County
Illinois McHenry County
Illinois Ogle County
Illinois Rock Island County
Illinois Stephenson County
Illinois Whiteside County
17 17201 Illinois Winnebago County
18 19005 Iowa Allamakee County
19 Iowa Cedar County
20 Iowa Clayton County
21 Iowa Clinton County
22 Iowa Delaware County
23 Iowa Dubuque County
24 Iowa Johnson County
From States: Illinois Iowa Minnesota Wisconsin
Number of Counties: 50
1) Make sure you're on the URL Mapping Tool sheet in excel.
Background URL Mapping Tool Rough Draft URL-sample (multiple states) URL-sample (single state) Template
Ready Accessibility: In

No.	FIPS	State	County
5	17007	Illinois	Boone County
6	17015	Illinois	Carroll County
7	17037	Illinois	DeKalb County
8	17073	Illinois	Henry County
9	17085	Illinois	Jo Daviess County
10	17099	Illinois	LaSalle County
11	17103	Illinois	Lee County
12	17111	Illinois	McHenry County
13	17141	Illinois	Ogle County
14	17161	Illinois	Rock Island County
15	17177	Illinois	Stephenson County
16	17195	Illinois	Whiteside County
17	17201	Illinois	Winnebago County
18	19005	Iowa	Allamakee County
19	19031	Iowa	Cedar County
20	19043	Iowa	Clayton County
21	19045	Iowa	Clinton County
22	19055	Iowa	Delaware County
23	19061	Iowa	Dubuque County
24	19103	Iowa	Johnson County

From States:	Number of Counties:
Illinois	50
Iowa	
Minnesota	
Wisconsin	

1) Pasting the URL will automatically produce a list of states, FIPS codes and counties below.

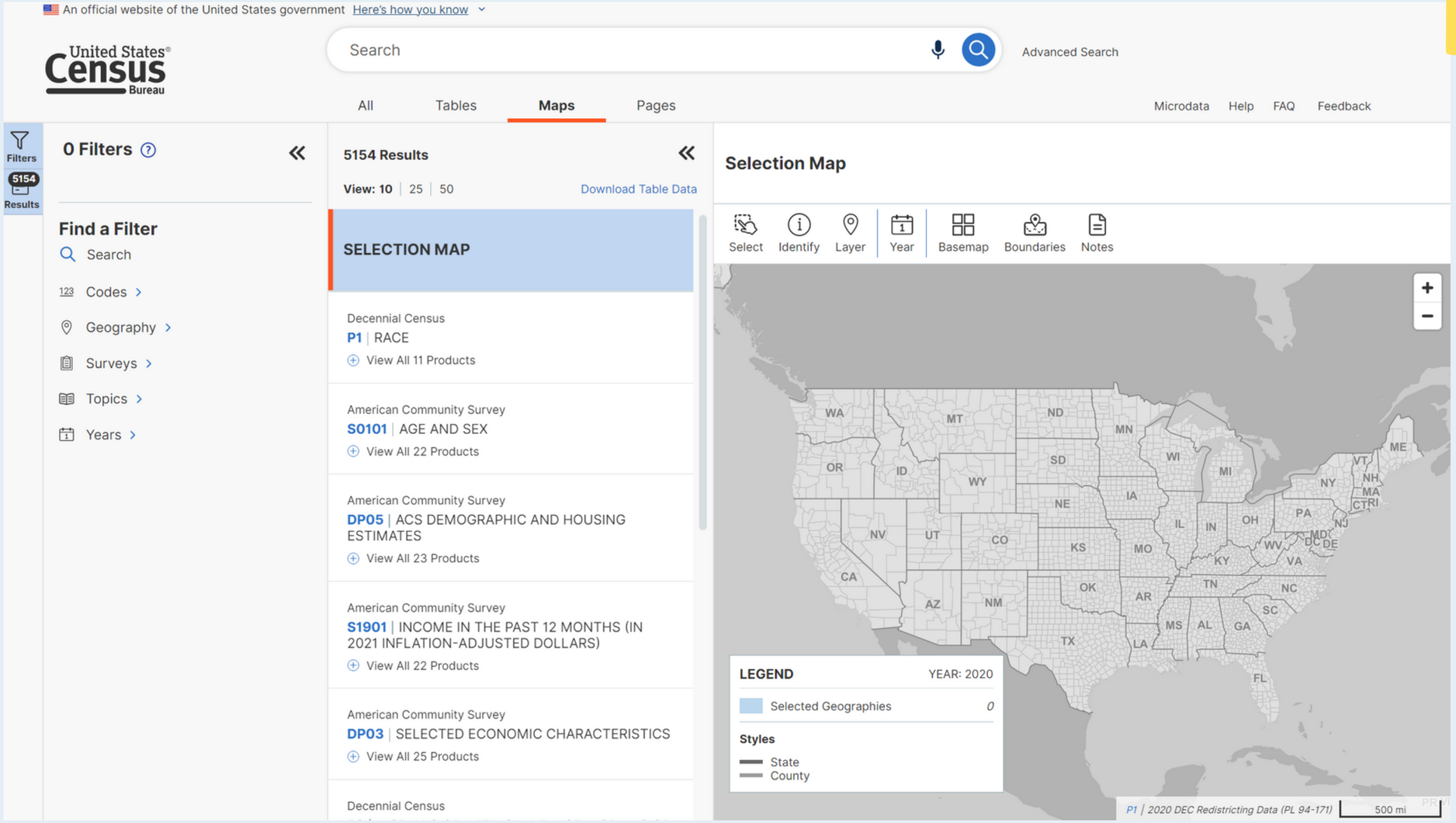


2) If the data looks correct,export the sheet to a PDF & include it as an addendum in your application..

Please Note: If you'd like to make any changes or edits to your region of service, there are three options for you.

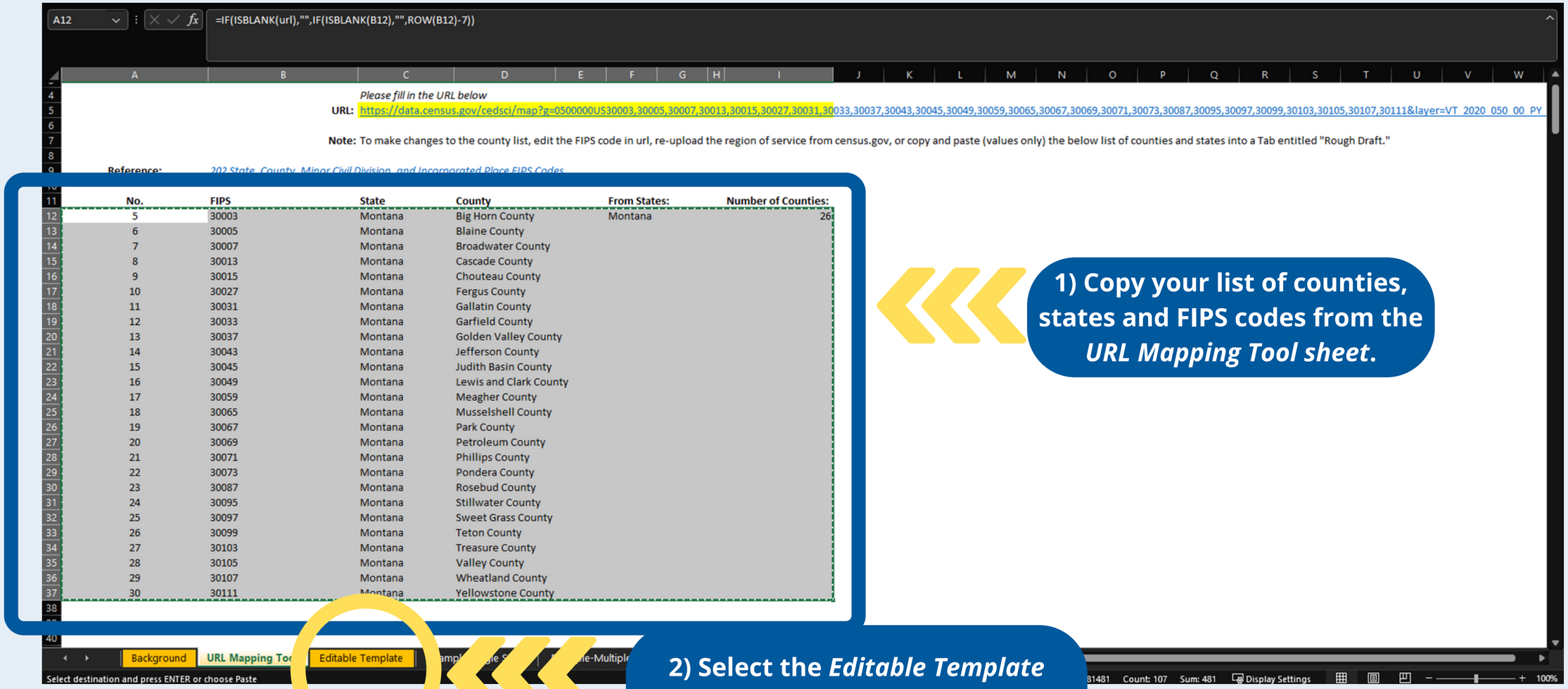
Want to make changes to your RoS?

Option A: Go back to data.census.gov and redraw your RoS.



Want to make changes to your RoS?

Option B: You can remove or add counties using the tab entitled *Editable Template*.

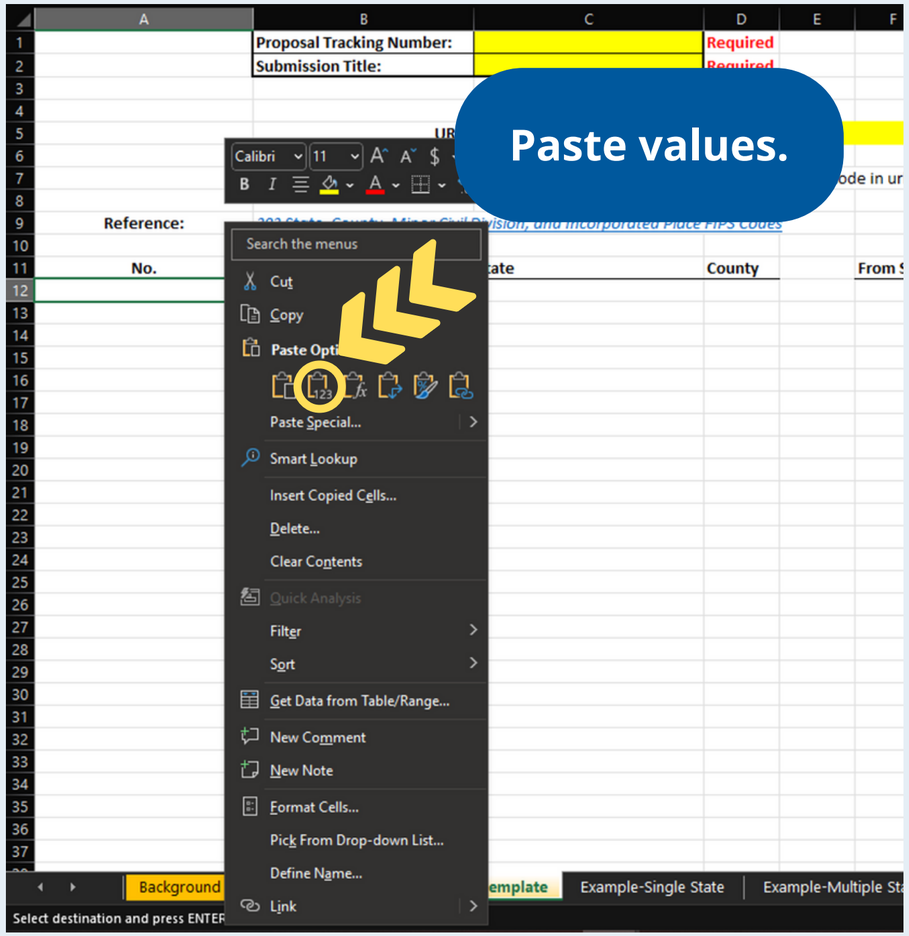


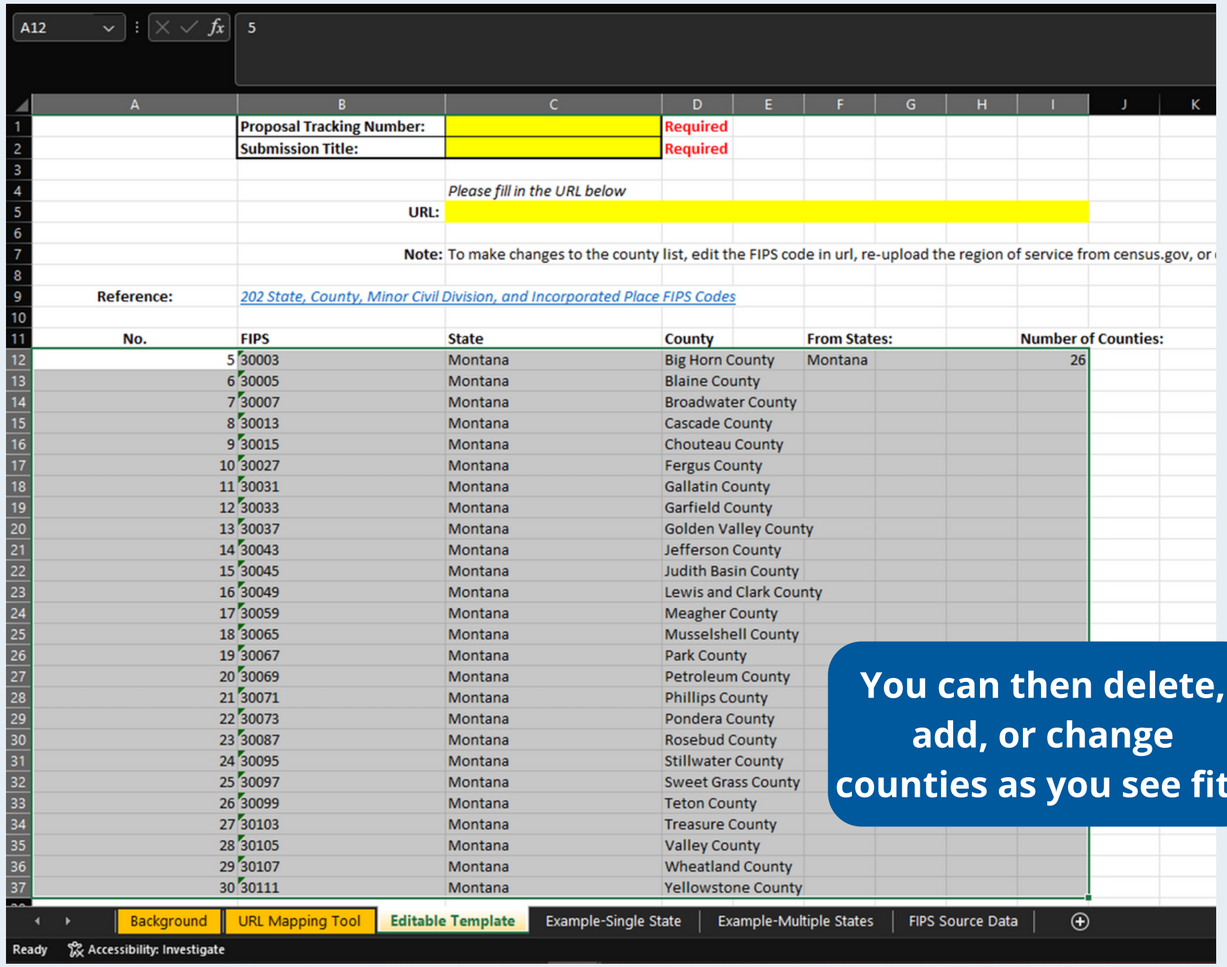
1) Copy your list of counties, states and FIPS codes from the *URL Mapping Tool sheet*.

2) Select the *Editable Template* Sheet.

Want to make changes to your RoS?

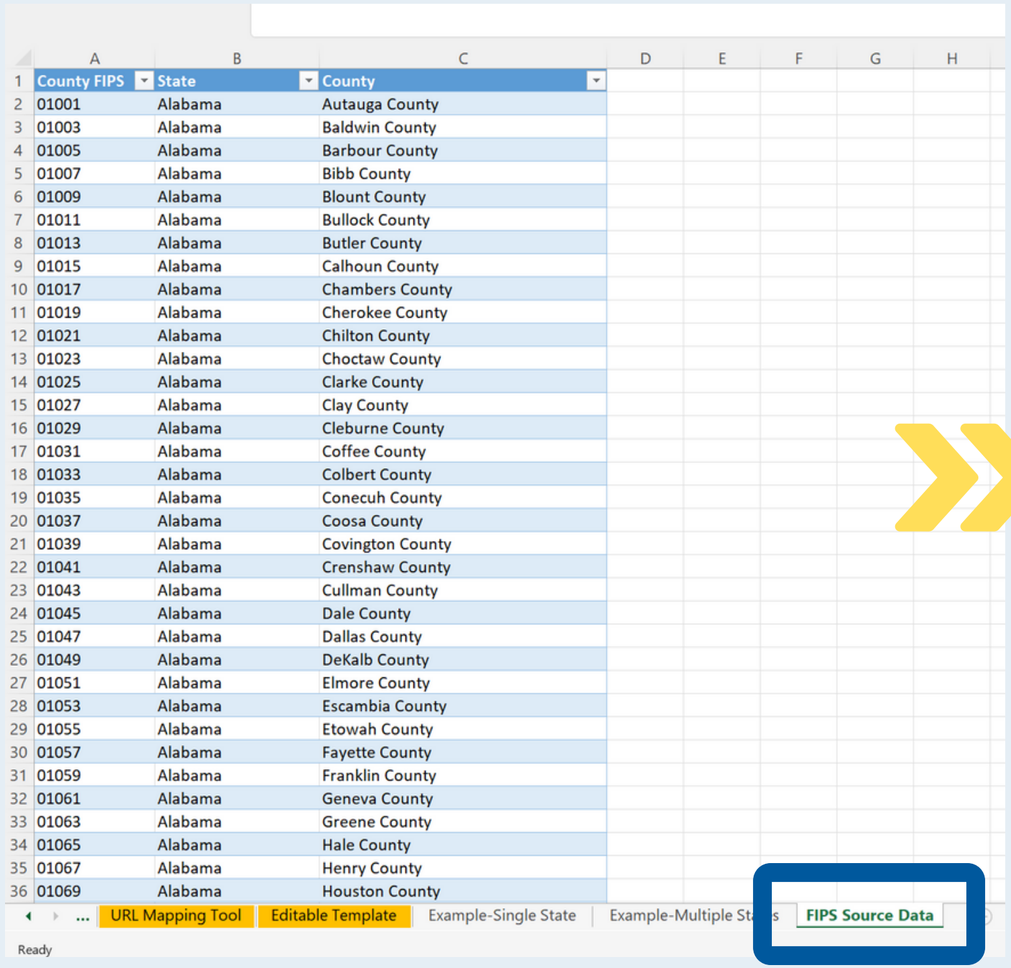
Option B: You can remove or add counties using the tab entitled *Editable Template*





Want to make changes to your RoS?

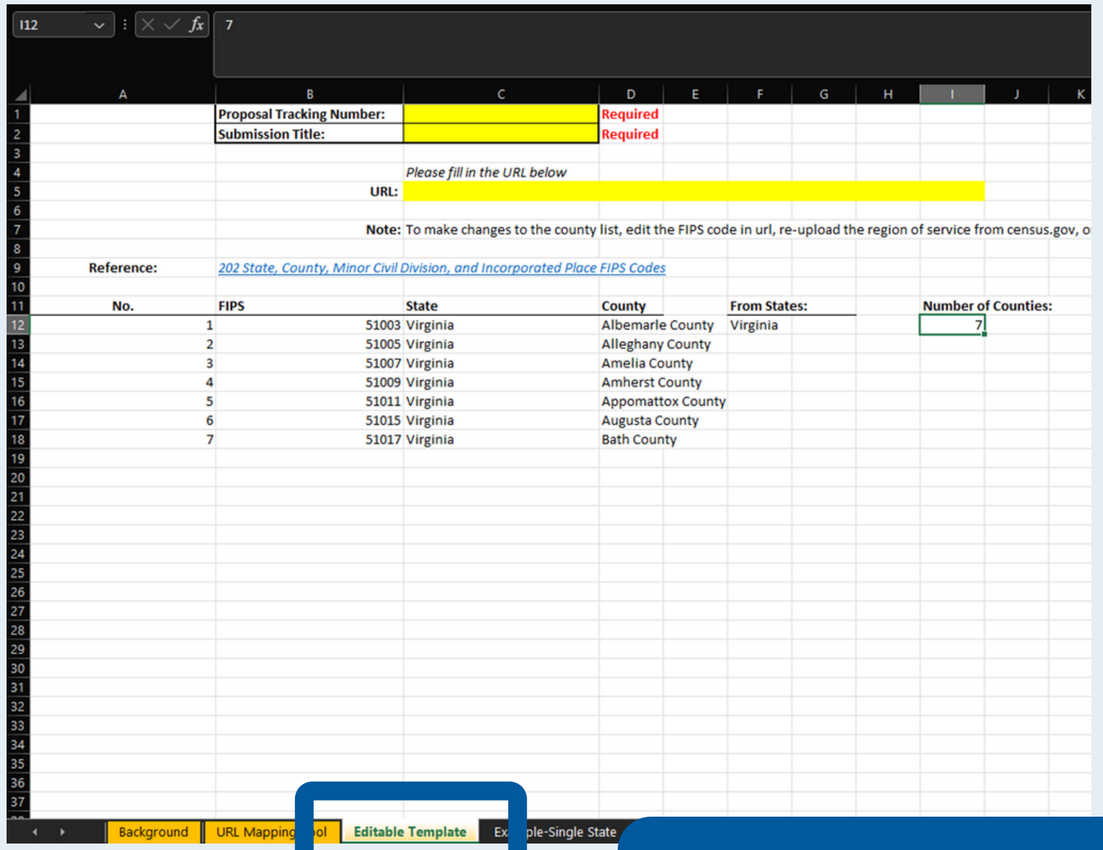
Option C: You can create your own list of county codes by referring to the county FIPS codes in the *FIPS Source Data* sheet and manually entering counties into the *Editable Template* tab.



	A	B	C
1	County FIPS	State	County
2	01001	Alabama	Autauga County
3	01003	Alabama	Baldwin County
4	01005	Alabama	Barbour County
5	01007	Alabama	Bibb County
6	01009	Alabama	Blount County
7	01011	Alabama	Bullock County
8	01013	Alabama	Butler County
9	01015	Alabama	Calhoun County
10	01017	Alabama	Chambers County
11	01019	Alabama	Cherokee County
12	01021	Alabama	Chilton County
13	01023	Alabama	Choctaw County
14	01025	Alabama	Clarke County
15	01027	Alabama	Clay County
16	01029	Alabama	Cleburne County
17	01031	Alabama	Coffee County
18	01033	Alabama	Colbert County
19	01035	Alabama	Conecuh County
20	01037	Alabama	Coosa County
21	01039	Alabama	Covington County
22	01041	Alabama	Crenshaw County
23	01043	Alabama	Cullman County
24	01045	Alabama	Dale County
25	01047	Alabama	Dallas County
26	01049	Alabama	DeKalb County
27	01051	Alabama	Elmore County
28	01053	Alabama	Escambia County
29	01055	Alabama	Etowah County
30	01057	Alabama	Fayette County
31	01059	Alabama	Franklin County
32	01061	Alabama	Geneva County
33	01063	Alabama	Greene County
34	01065	Alabama	Hale County
35	01067	Alabama	Henry County
36	01069	Alabama	Houston County

URL Mapping Tool | Editable Template | Example-Single State | Example-Multiple St... | **FIPS Source Data**

Ready



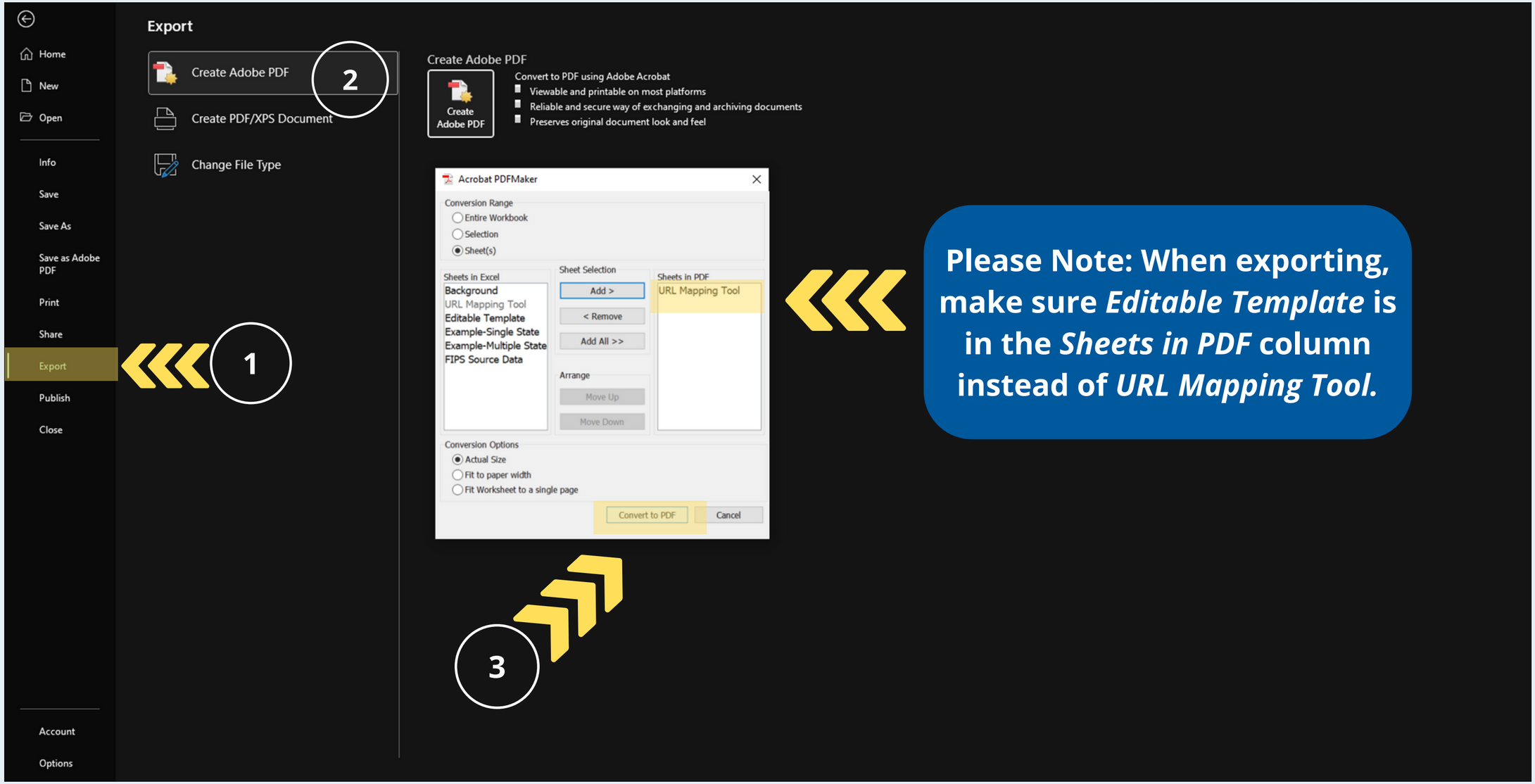
I12 | 7

	A	B	C	D	E	F	G	H	I	J	K
1		Proposal Tracking Number:		Required							
2		Submission Title:		Required							
3											
4			*Please fill in the URL below*								
5			URL:								
6											
7			Note: To make changes to the county list, edit the FIPS code in url, re-upload the region of service from census.gov, o								
8											
9	Reference:		*202 State, County, Minor Civil Division, and Incorporated Place FIPS Codes*								
10											
11	No.	FIPS	State	County		From States:			Number of Counties:		
12	1	51003	Virginia	Albemarle County		Virginia			7		
13	2	51005	Virginia	Alleghany County							
14	3	51007	Virginia	Amelia County							
15	4	51009	Virginia	Amherst County							
16	5	51011	Virginia	Appomattox County							
17	6	51015	Virginia	Augusta County							
18	7	51017	Virginia	Bath County							

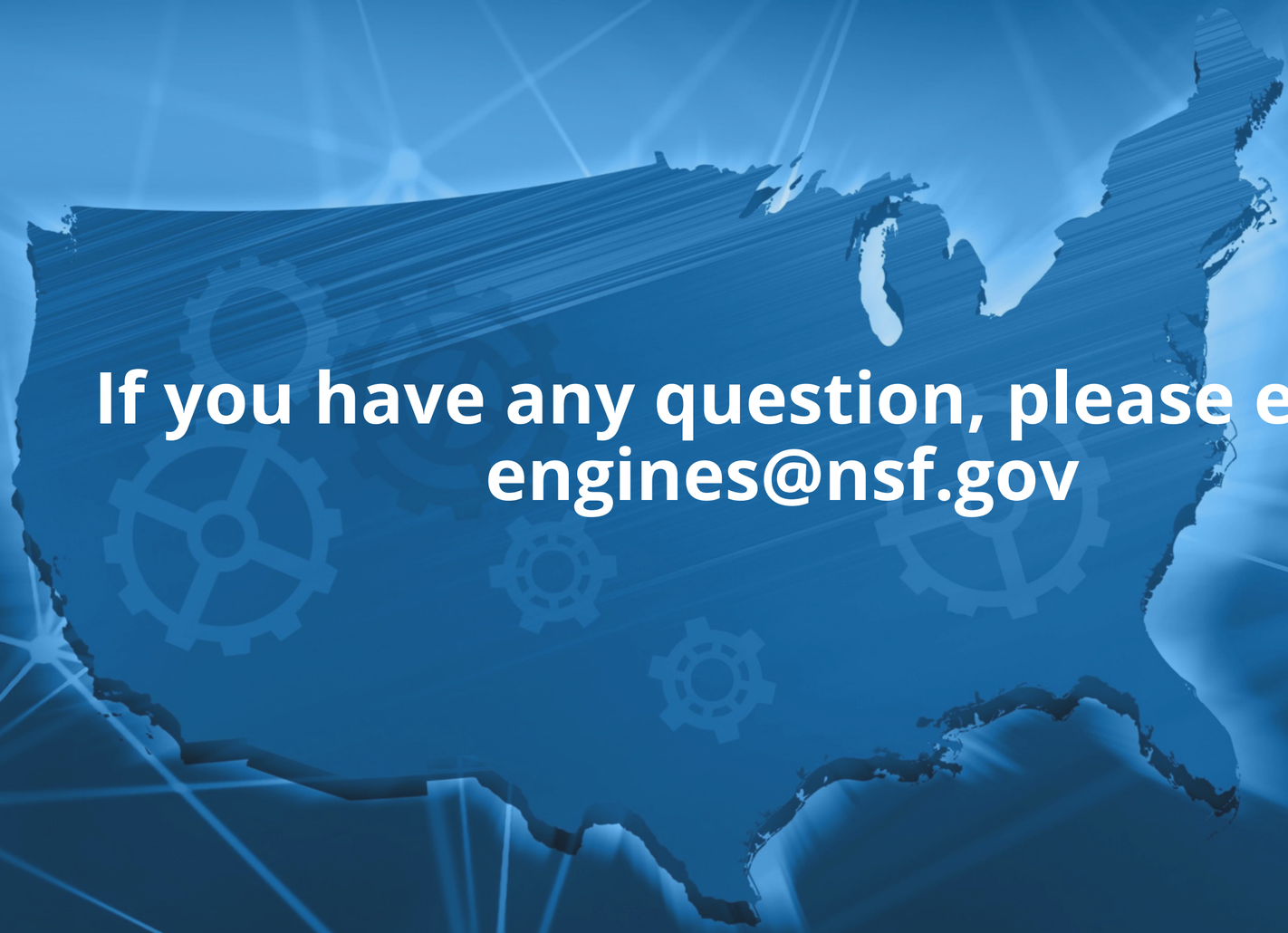
Background | URL Mapping ...ol | **Editable Template** | Ex...ple-Single State

Remember to use our format!

Export and you're all set!



NSF's Regional Innovation Engines Program



If you have any question, please email engines@nsf.gov