

U.S. Monkeypox Cases in Excel

By Robert Allison

Here's another example in my series showing how to create graphs "on the cheap" – this time I'll be using Microsoft Excel to create a map showing the number of monkeypox cases in each U.S. state.

Getting the Data

To get the population data, go to the [CDC Monkeypox page](#), and click the "Download Data (CSV)" button at the bottom of the page. Open the csv file with Excel, and save it as an Excel xlsx file.

	A	B	C	D	E	F	G
1	Location	Cases	Case Rang	AsOf			
2	Alabama	34	11 to 50	Data as of 17 Aug 2022 2:00 PM EDT			
3	Alaska	2	1 to 10	Data as of 17 Aug 2022 2:00 PM EDT			
4	Arizona	213	101 to 500	Data as of 17 Aug 2022 2:00 PM EDT			
5	Arkansas	21	11 to 50	Data as of 17 Aug 2022 2:00 PM EDT			
6	California	2356	>500	Data as of 17 Aug 2022 2:00 PM EDT			
7	Colorado	155	101 to 500	Data as of 17 Aug 2022 2:00 PM EDT			
8	Connectic	71	51 to 100	Data as of 17 Aug 2022 2:00 PM EDT			

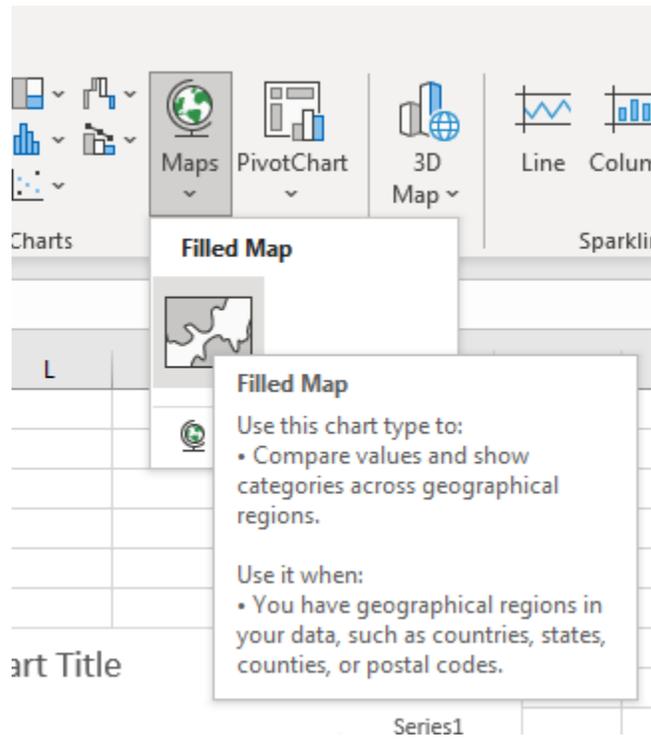
Delete the "Total" row (which is listed alphabetically, below Texas), so it won't be shown in the legend and skew the color gradient. Also, delete the Non-US Resident and Puerto Rico rows, since the Excel state map does not show them.

Creating the Map

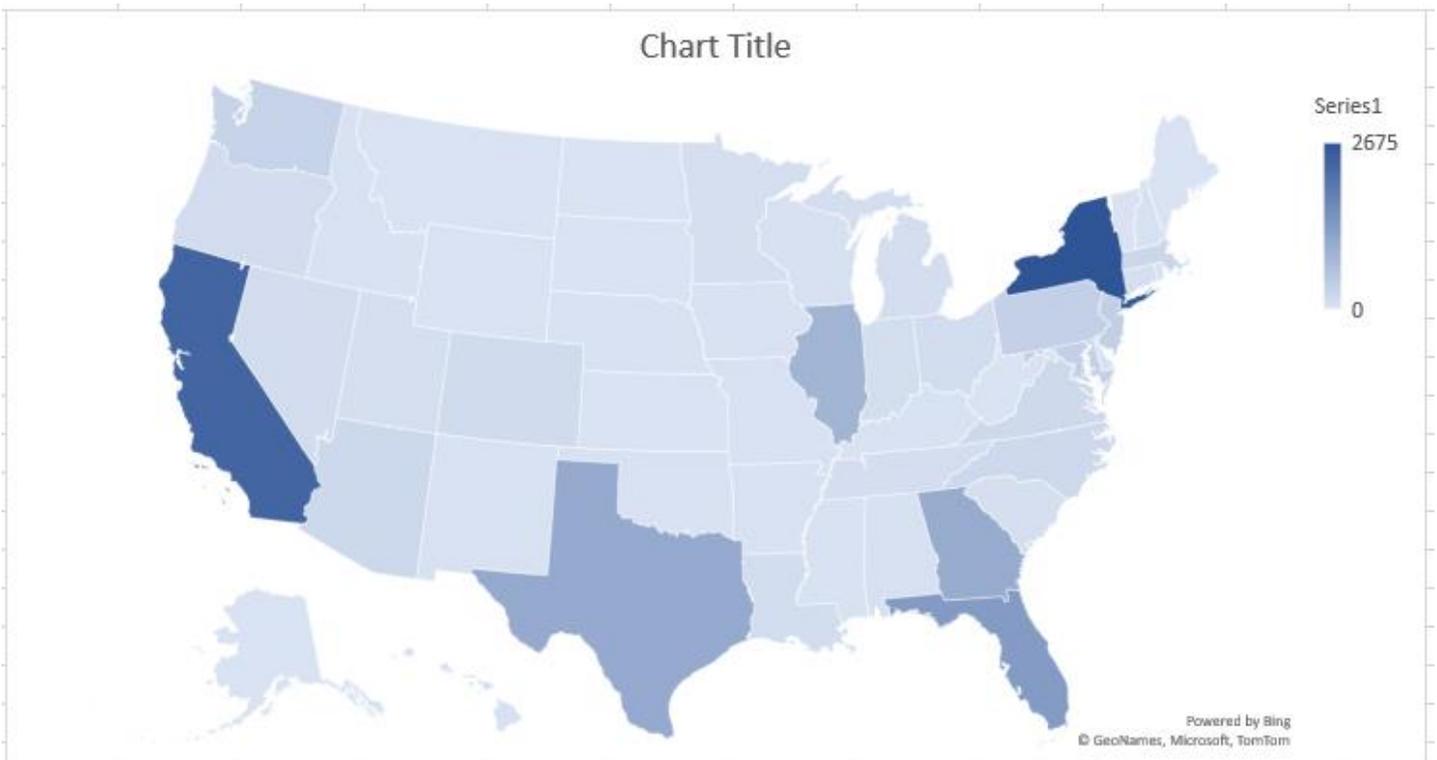
To create the map, select the state and cases values (just the values, not the column headers).

	A	B	C
1	Location	Cases	Case
2	Alabama	34	11 to
3	Alaska	2	1 to 1
4	Arizona	213	101 to
5	Arkansas	21	11 to
6	California	2356	>500
7	Colorado	155	101 to
8	Connectic	71	51 to
9	Delaware	10	1 to 1

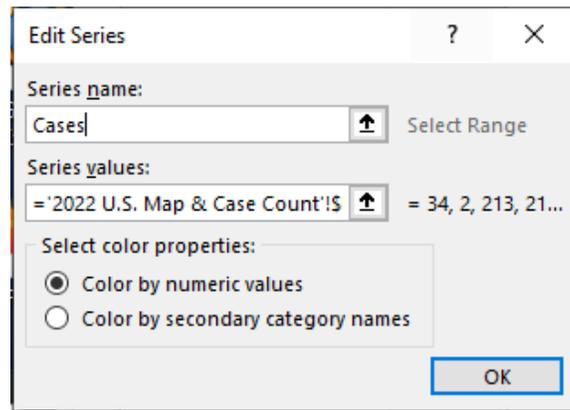
Then go to the Excel "Insert" tab, and select Maps->Filled Map.



You'll get the following default map:



Click the title, and enter some meaningful text. Changing the legend label is a little trickier - go to the Excel "Chart Design" tab, click "Select Data," select "Series 1" and click Edit, then enter "Cases" as the Series name.



Final Map

Here's the final map – I think it looks pretty good for something created with an Excel license that cost me less than \$50. The map seems to indicate that the states with larger populations have more monkeypox cases ... well duh!

I think the CDC should also provide the number of cases per 100,000 people, to make it more meaningful, eh?

