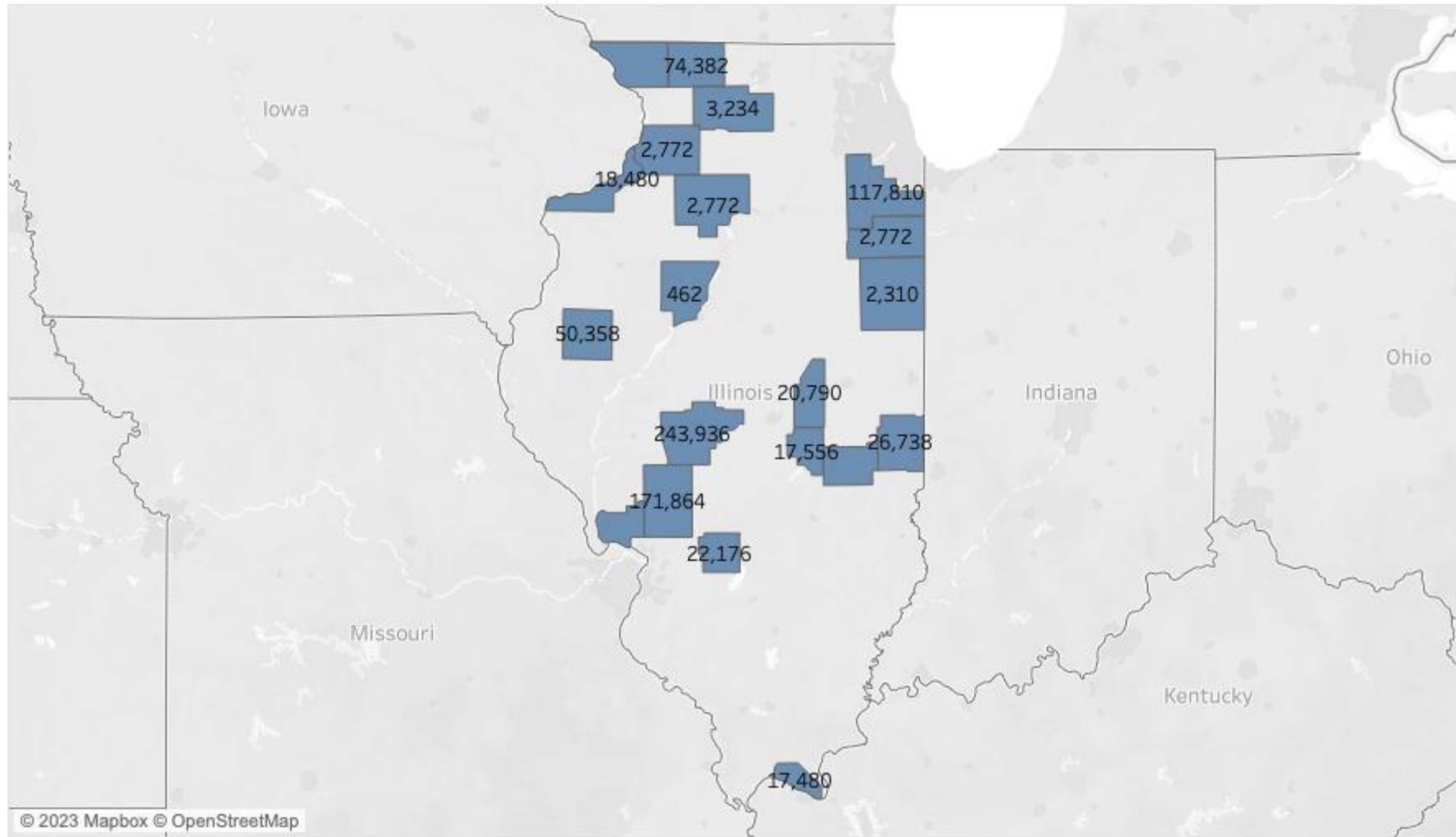


# IL\_COVID-19\_Extra\_Credit

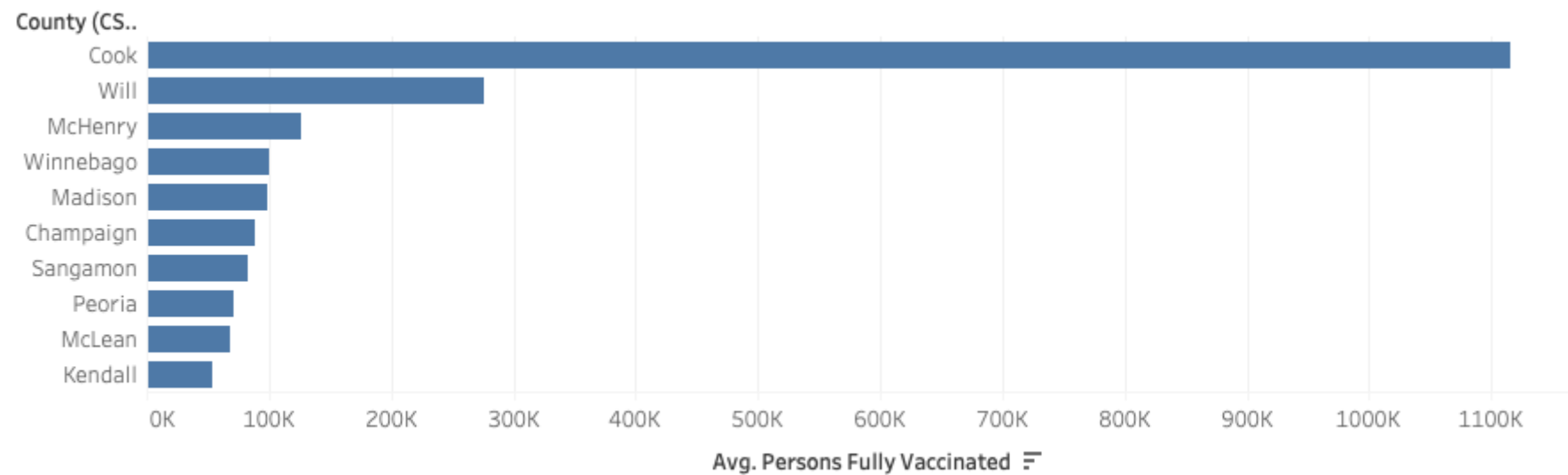
File created on: 1/9/23 5:03:11 PM CST

## Sum of COVID-19 Deaths - IL County



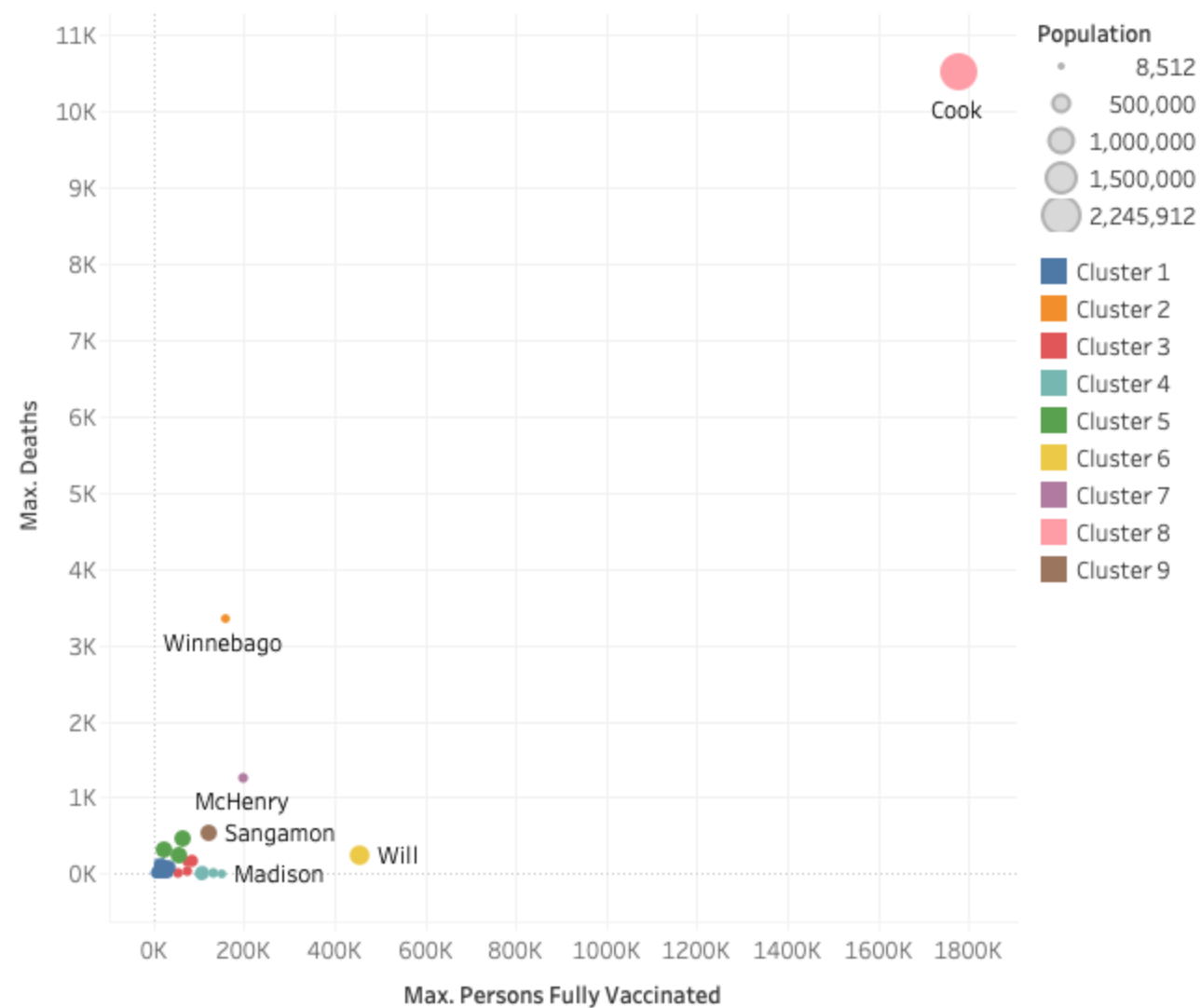
Map based on Longitude (generated) and Latitude (generated). The marks are labeled by sum of Deaths. Details are shown for County. The data is filtered on Action (County), which keeps 98 members. The view is filtered on County, which keeps 98 of 98 members.

## Top 10 Counties Avg Persons Fully Vaccinated



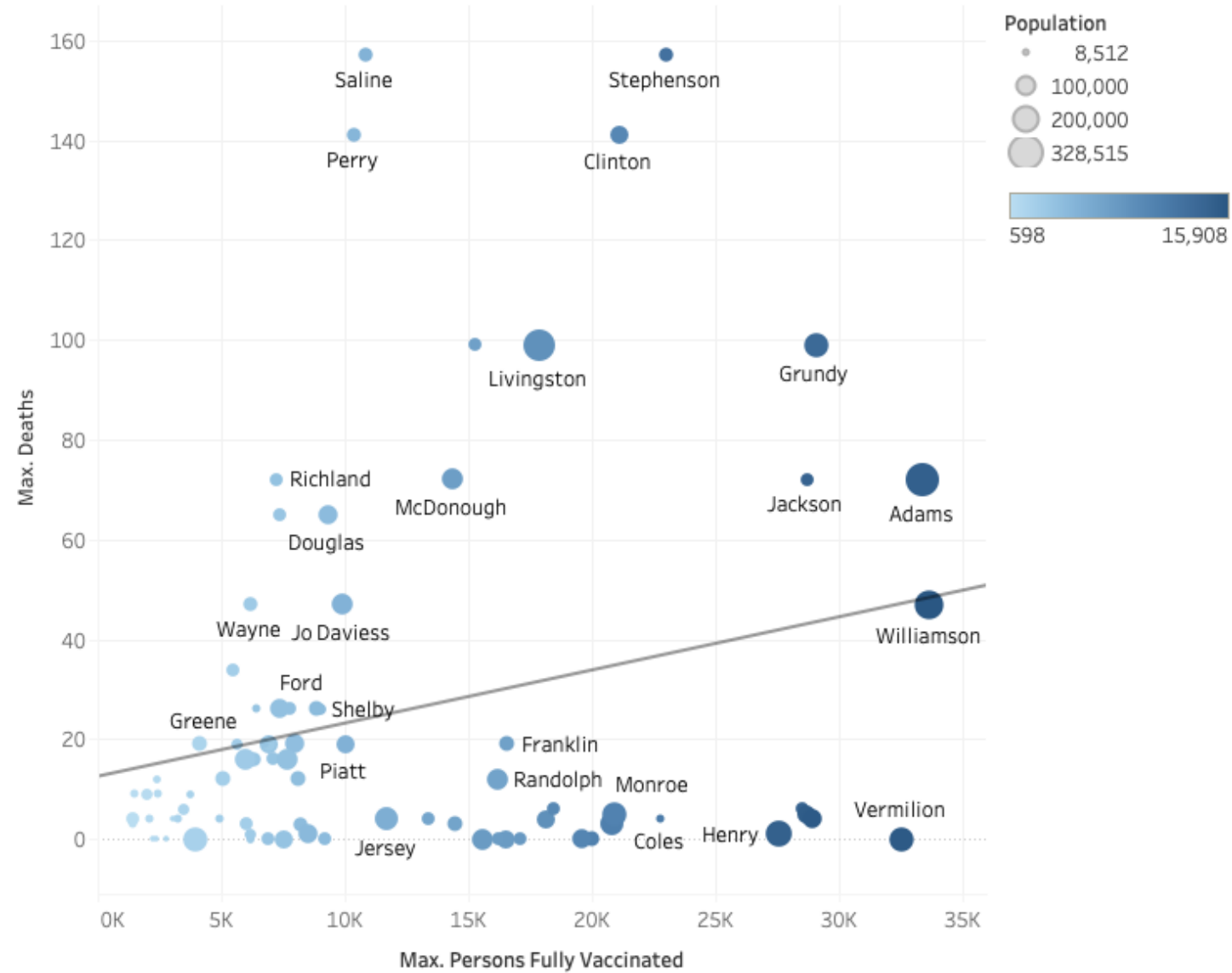
Average of Persons Fully Vaccinated for each County (CSV Data2). The data is filtered on Action (County), which keeps 98 members. The view is filtered on County (CSV Data2), which keeps 10 of 122 members.

## Clustered Chart Max Persons Fully Vaccinated by Deaths per County



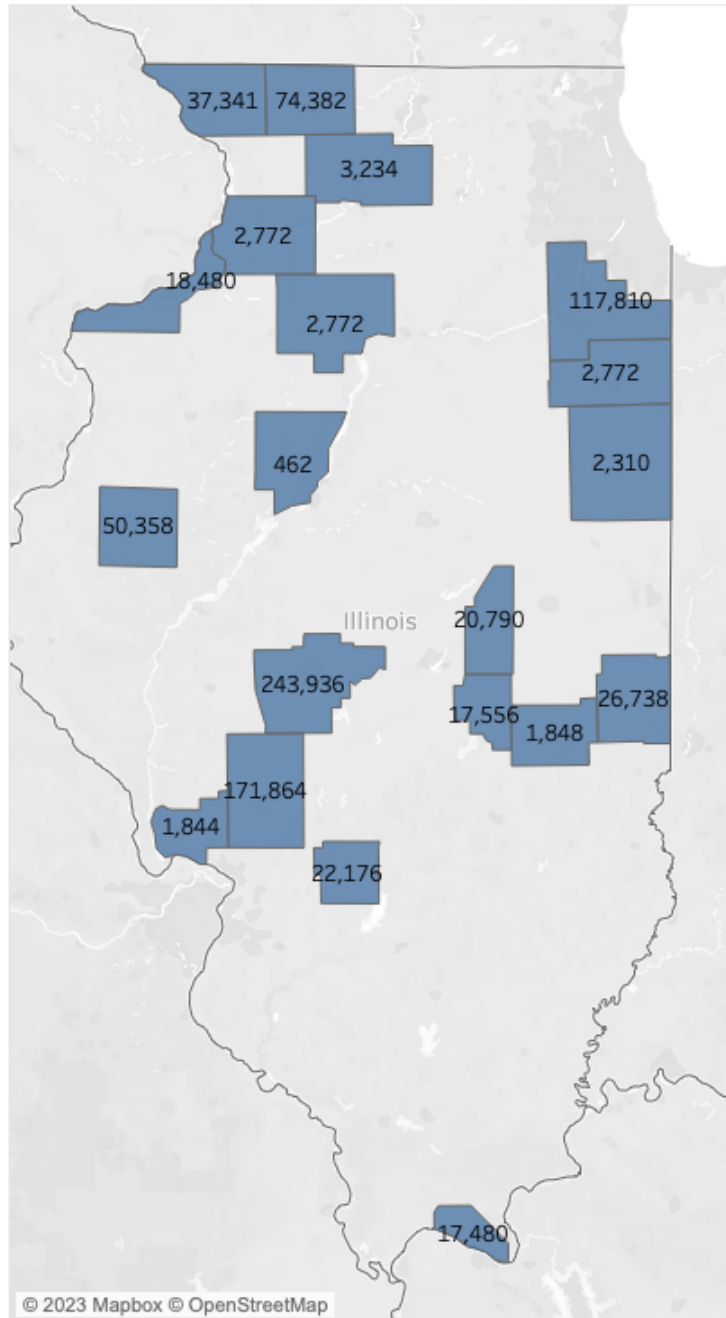
Maximum of Persons Fully Vaccinated vs. maximum of Deaths. Color shows details about Clusters (2). Size shows sum of Population. The marks are labeled by County. Details are shown for County. The data is filtered on Action (County), which keeps 98 members. The view is filtered on County, which excludes Illinois.

## Clustered Chart Max Persons Fully Vaccinated by Deaths per County (2)

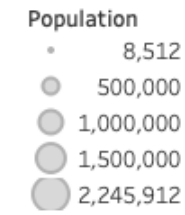
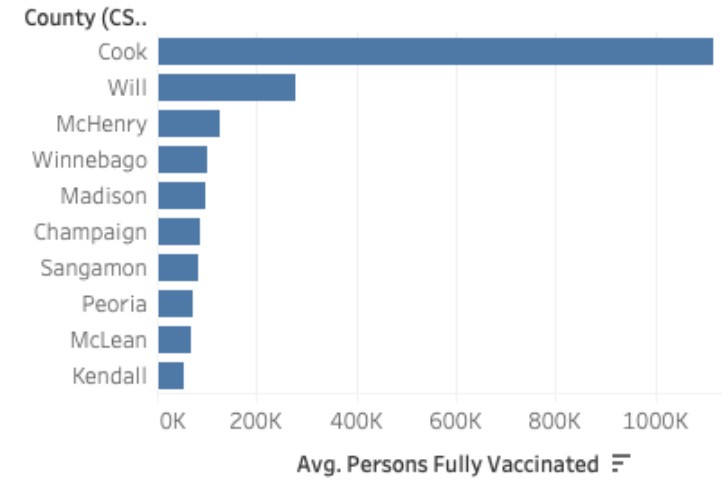


Maximum of Persons Fully Vaccinated vs. maximum of Deaths. Color shows maximum of Booster Dose Count. Size shows sum of Population. The marks are labeled by County. Details are shown for County. The data is filtered on Clusters, which keeps Cluster 1. The view is filtered on County, which excludes Illinois.

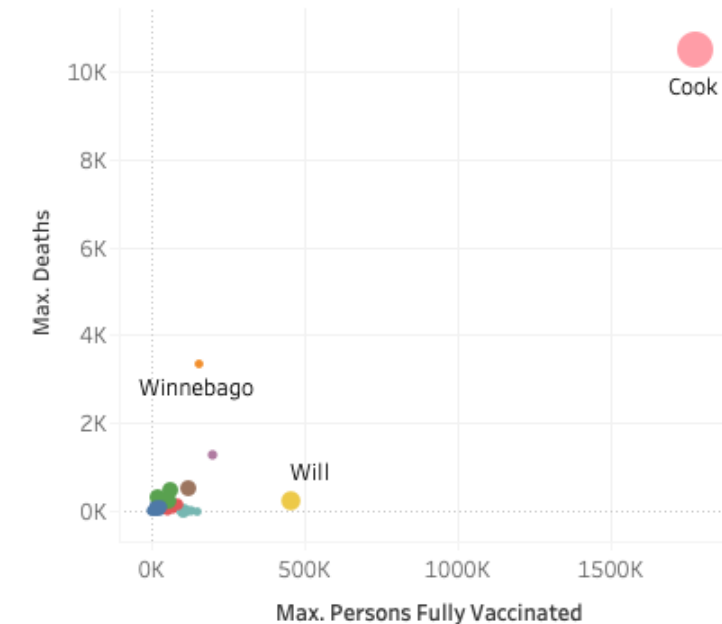
### Sum of COVID-19 Deaths - IL County



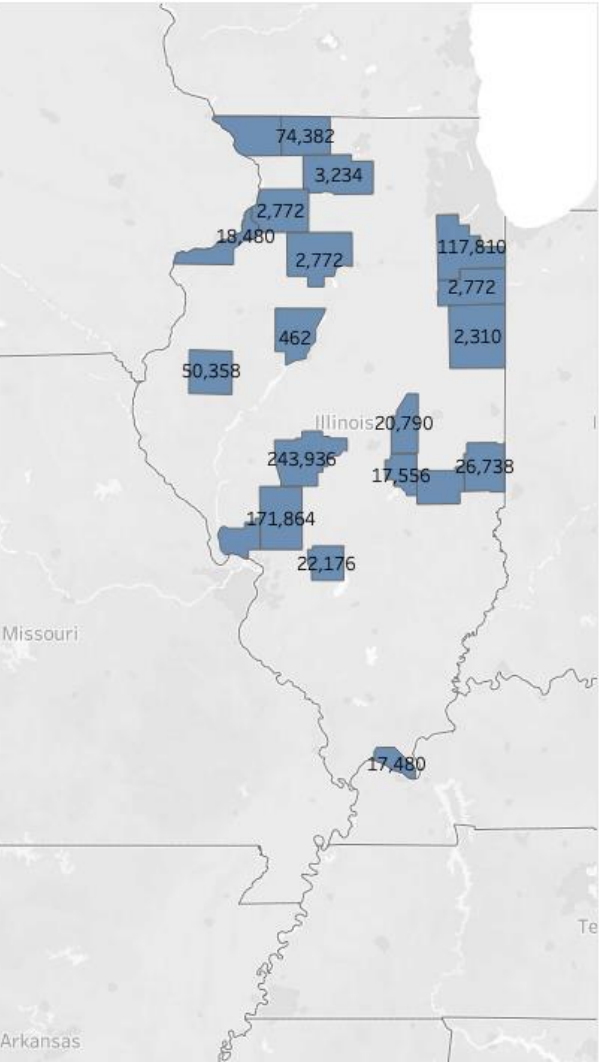
### Top 10 Counties Avg Persons Fully Vaccinated



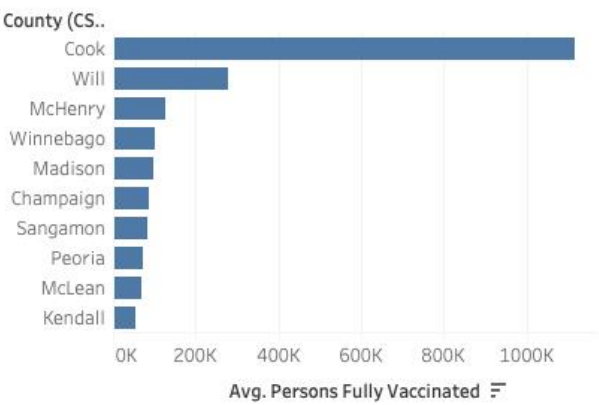
### Clustered Chart Max Persons Fully Vaccinated by Deaths per County



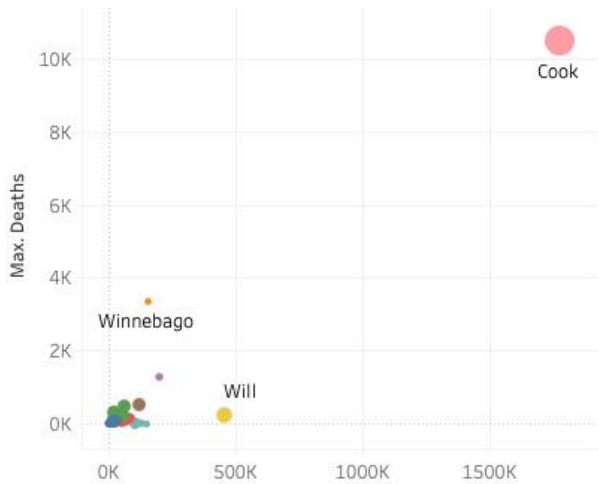
Sum of COVID-19 Deaths - IL County



Top 10 Counties Avg Persons Fully Vaccinated



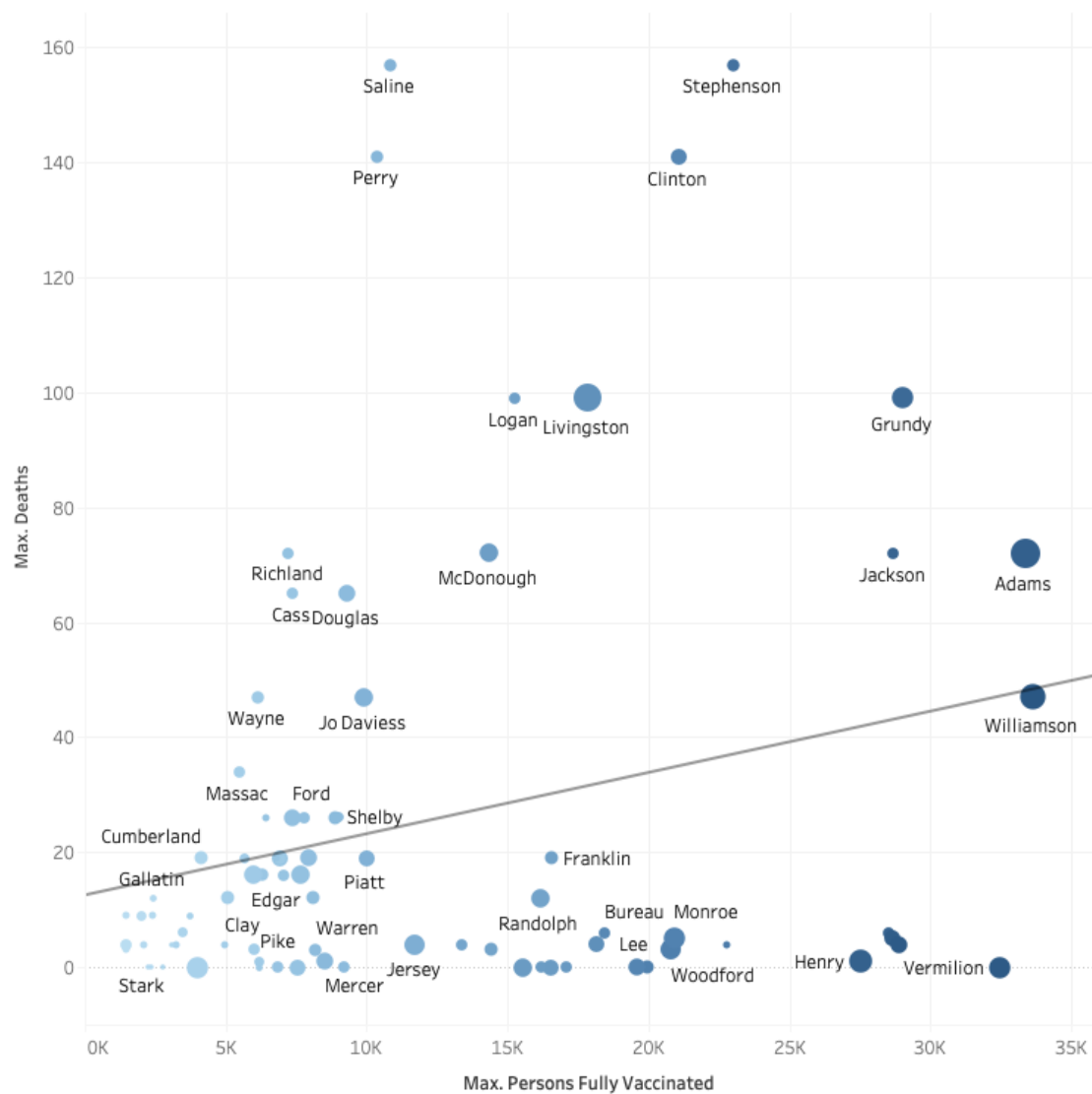
Clustered Chart Max Persons Fully Vaccinated by Deaths per County



Observing these COVID-19 data from the state of Illinois, some interesting insights emerged. Initially, I wanted to identify the counties that were encountering the most deaths from COVID-19. The three counties that have witnessed the most deaths from COVID-19 were Sangamon, Macoupin, and Will. Unfortunately, data from Cook county was not available for this section of the observation.

The second observation was to examine the average number of people vaccinated throughout each county. I wanted to look at the top 10 counties that have the most amount averaged, of people vaccinated. Cook, Will, and McHenry appeared to be the top three. Sangamon was ranked 7th out of the top 10 counties vaccinated on average.

Third, I was curious to know if any additional counties were experiencing issues with their vaccination and to what extent are they commonly associated with each other through clustering.



Lastly, drilling down into the cluster analysis, I wanted to observe cluster 1. When comparing the counties within cluster one through max deaths and max vaccinations. I applied a filter to further identify what counties have received a booster in addition to their full vaccination. Two counties stood out the most that have high deaths and lower vaccination rates associated with COVID-19. Those two counties are Saline, and Perry. While the counties with some of the least amount of deaths but highest vaccination and booster rates were Henry and Vermilion county.