Task 2.7 Spatial Analysis

Questions 1&2. Influenza Deaths Combination Map [US Influenza Death and Population Map | Tableau Public](https://public.tableau.com/app/profile/alex.kaplan3758/viz/USInfluenzaDeathandPopulationMap/InfluenzaDeathsMap?publish=yes)

A map of the united states

Description automatically generated with medium confidence

4a. **What states or regions are the highest? The lowest?**

The State with the highest amount of influenza related deaths is California. Something that is interesting is the fact that Florida has a high number of citizens 65 and older, their influenza related deaths are less than states such as New York and Texas. New York could have a higher influenza mortality rate because of how cold the weather is there. However, I am not sure if that is the only factor affecting their high amount of influenza related deaths. The states with the next highest influenza related deaths are Texas, New York, Florida, and Pennsylvania respectively. The states with the lowest number of deaths are Vermont, Wyoming, Alaska, and North Dakota. California is a state worth focusing on due to it having the highest population of citizens 65 and older with the highest amount of influenza related deaths. Mid Northwest states such as North Dakota, Wyoming, Montana, and Utah all have low influenza death rates among their vulnerable population.

4b. **How does time impact those trends?**

I have not seen too much of a change in the influenza related deaths over time. They have remained consistent in that California by far has the most influenza related deaths. I will say some of the Midwest states such as Michigan, Ohio, and Illinois have seen a dramatic increase in influenza related deaths since 2009. In Ohio for example, they only had 835 deaths, but that number almost tripled in 2011 and their influenza related deaths have not gone down much since then. Another trend I have noticed is southern states such as Georgia (my home state), Alabama, and Mississippi all have low influenza related deaths. None of those states have gone exceeded 1500 deaths except for Georgia but that still is not that high considering Georgia’s population is much larger than those other states. This could be a result of the climate being warmer and having less population that influenza can spread through.